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The structural determination and skeletal ring modes of tetrahydropyran

Supplementary materials

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Table S1: Rotational constants of the ^{13}C and ^{18}O isotopologues of THP. Values in square brackets are fixed to the ground state values of THP. Uncertainties on the last digits are indicated in parentheses.

Parameters	$^{13}C_1$	$^{13}C_2$	$^{13}C_3$	^{18}O
A [MHz]	4621.30692(41)	4615.16422(34)	4671.60186(48)	4668.6632(25)
B [MHz]	4464.75371(37)	4462.98337(32)	4407.19060(38)	4349.5138(24)
C [MHz]	2576.28706(28)	2573.74775(25)	2572.29985(34)	2553.4748(24)
Δ_J [kHz]	1.0585(32)	1.0642(30)	1.0826(30)	[1.08521]
Δ_{JK} [kHz]	-1.7006(95)	-1.7253(86)	-1.8466(94)	[-1.7729]
Δ_K [kHz]	0.8235(70)	0.8432(61)	0.9471(72)	[0.88135]
δ_J [kHz]	[0.012330]	[0.012330]	[0.012330]	[0.012330]
δ_K [kHz]	[1.6361]	[1.6361]	[1.6361]	[1.6361]
rms	27.4	22.7	29.1	3.4
Nb. of lines	67	75	64	6
J_{min}/J_{max}	0/19	0/19	0/19	0/4
$K_{a,min}/K_{a,max}$	0/10	0/10	0/12	0/3

Table S2: Rotational constants of the four rovibrational states observed in the far-infrared. Values in square brackets are fixed to the ground state values of THP. Uncertainties on the last digits are indicated in parentheses.

Parameters	ν_{23}	ν_{22}	ν_{21}	ν_{20}
Band Center [MHz]	7499044.75(35)	12072093.83(22)	12892226.10(28)	16845244.33(27)
Band Center [cm^{-1}]	250.141208(12)	402.6817056(73)	430.0383734(93)	561.8968683(90)
A [MHz]	4666.6837(12)	4663.7304(25)	4672.153(15)	4672.2390(32)
B [MHz]	4494.2096(10)	4478.1891(23)	4511.084(13)	4493.9798(23)
C [MHz]	2608.5288(14)	2597.86121(40)	2586.53699(40)	2598.67804(66)
Δ_J [kHz]	1.05396(39)	0.93155(26)	1.25921(45)	1.08445(25)
Δ_{JK} [kHz]	-1.7986(13)	-1.37675(59)	-2.1424(10)	-1.77240(73)
Δ_K [kHz]	1.1687(13)	0.62569(38)	0.87439(70)	0.88037(83)
δ_J [kHz]	[0.012330]	-0.0528(10)	[0.012330]	[0.012330]
δ_K [kHz]	[1.6361]	[1.6361]	[1.6361]	[1.6361]
Φ_{JK} [Hz]	-	-	-	-0.00268(16)
Φ_{KJ} [Hz]	-	-	-	0.00651(21)
IR rms	0.00014	0.00016	0.00015	0.00014
Nb of lines	1791	3067	1942	2904
J_{min}/J_{max}	7/53	0/67	3/74	3/79
$K_{a,min}/K_{a,max}$	0/31	0/36	0/21	0/25

Table S3: Results of the fits including only the transitions observed in the millimeter-wave region. Values in square brackets are fixed to the ground state values of THP. Uncertainties on the last digits are indicated in parentheses.

Parameters	ν_{42}	ν_{23}	ν_{22}	ν_{21}	ν_{41}	$\nu_{23} + \nu_{42}$	ν_{20}
A [MHz]	4672.0523(11)	4666.6865(13)	4663.7376(10)	4672.2383(19)	4679.8477(10)	4665.4260(35)	4672.22830(66)
B [MHz]	4489.9567(11)	4494.2367(10)	4478.15765(93)	4511.0040(14)	4493.22875(97)	4489.2050(27)	4493.98207(46)
C [MHz]	2591.5531(14)	2608.57257(88)	2597.86882(53)	2586.5326(16)	2611.65390(59)	2604.9707(14)	2598.67579(53)
Δ_J [kHz]	1.0840(66)	1.0525(29)	0.91812(84)	1.2553(56)	1.1016(13)	1.0319(29)	1.08147(93)
Δ_{JK} [kHz]	-1.655(11)	-1.835(10)	-1.34191(32)	-2.10546(42)	-1.83970(20)	-1.6520(34)	-1.77362(23)
Δ_K [kHz]	0.4510(98)	1.2550(80)	0.60716(50)	0.8525(19)	1.15403(24)	1.5338(50)	0.88174(50)
δ_J [kHz]	0.0127(18)	0.0131(38)	-0.05695(14)	0.09226(17)	0.001726(98)	0.1846(44)	0.012711(70)
δ_K [kHz]	1.229(51)	2.433(55)	[1.6361]	[1.6361]	[1.6361]	[1.6361]	[1.6361]
Φ_J [Hz]	-0.0460(72)	-	-	0.0300(79)	-	-	-
Φ_{JK} [Hz]	2.815.(39)	-0.891(34)	0.017938(75)	-0.026664(78)	-0.000565(41)	0.0151(26)	-0.003108(47)
Φ_{KJ} [Hz]	-8.700(12)	2.676(95)	-0.01893(31)	0.04218(43)	-	0.0545(40)	0.00677(26)
Φ_K [Hz]	5.886(75)	-1.769(61)	-	-0.0201(13)	-	0.0165(35)	-
ϕ_J [Hz]	0.0471(13)	-0.0120(13)	-	-	-	-	-
ϕ_{JK} [Hz]	-	0.380(23)	-	-	-	-	-
ϕ_K [Hz]	33.86(34)	-11.040(358)	-	-	-	-	-
L_J [mHz]	-	-					
L_{JJK} [mHz]	-	-					
L_{JK} [mHz]	-2.433(39)	1.574(33)	-	-	-	-	-
L_{KKJ} [mHz]	6.40(10)	-4.206(87)	-	-	-	-	-
L_K [mHz]	-3.960(61)	2.630(52)	-	-	-	-	-
l_J [mHz]	-0.001351(74)	-0.00097(15)	-	-	-	-	-
l_{JK} [mHz]	-	-0.0515(17)	-	-	-	-	-
l_{KJ} [mHz]	0.2290(39)	-0.1755(57)	-	-	-	-	-
l_K [mHz]	-8.807(27)	12.19(21)	-	-	-	-	-
rms	30	26.1	31.9	31.3	32.8	47	31.8
Nb of lines	256	253	385	379	387	129	367
J_{min}/J_{max}	0/71	8/79	8/71	8/74	9/76	10/52	8/76
$K_{a,min}/K_{a,max}$, $K_{c,min}/K_{c,max}$	0/48, 0/28	0/52, 0/28	0/47, 1/28	0/49, 2/28	0/52, 2/28	0/32, 2/28	0/52, 0/28

Table S4: Ground state transitions of the $^{13}C_1$ isotopologue of THP. Frequencies are in MHz.

J'	Ka'	Kc'	J"	Ka"	Kc"	Obs.	o – c	Exp. Error
6	5	1	6	5	2	4341.3239	0.0054	0.010
5	4	1	5	4	2	4768.2671	-0.0037	0.010
4	3	1	4	3	2	5135.8352	-0.0133	0.010
3	2	1	3	2	2	5436.5265	0.0052	0.010
2	1	1	2	1	2	5665.3629	-0.0085	0.010
2	2	1	2	0	2	6144.3925	0.0041	0.010
3	3	1	3	1	2	6422.0063	0.0063	0.010
4	4	1	4	2	2	6836.9050	-0.0024	0.010
1	0	1	0	0	0	7041.0345	-0.0012	0.005*
1	1	0	0	0	0	9086.0557	-0.0007	0.005*
5	3	2	5	3	3	9598.1899	-0.0047	0.005*
4	2	2	4	2	3	9726.3335	0.0003	0.005*
2	1	2	1	1	1	12193.6025	-0.0002	0.005*
2	0	2	1	0	1	12340.8286	0.0027	0.005*
2	1	2	1	0	1	12350.1647	0.0020	0.005*
4	1	3	4	1	4	13748.6029	0.0062	0.005*
2	1	1	1	1	0	15970.5112	-0.0022	0.005*
2	2	1	1	1	0	16440.1952	0.0016	0.005*
3	1	3	2	1	2	17418.7694	0.0013	0.005*
3	0	3	2	0	2	17427.7600	0.0039	0.005*
2	2	0	1	1	0	18181.4213	-0.0029	0.005*
2	2	1	1	1	1	18328.6550	0.0006	0.005*
3	2	2	2	2	1	21123.0553	-0.0015	0.005*
3	1	2	2	1	1	21546.2724	0.0008	0.005*
12	3	9	11	3	8	75586.0708	-0.0102	0.040
13	2	11	12	2	10	76807.3098	0.0323	0.040
14	1	13	13	1	12	78029.2314	0.0436	0.040
11	6	6	10	6	5	78307.4674	-0.0648	0.040
15	0	15	14	0	14	79251.2246	0.0083	0.040
13	3	10	12	3	9	80737.8675	0.0058	0.040
14	2	12	13	2	11	81959.3333	0.0399	0.040
11	7	5	10	7	4	82254.2424	-0.0594	0.040
15	1	14	14	1	13	83181.2554	0.0185	0.040
12	5	7	11	5	6	83454.6005	-0.0088	0.040
16	0	16	15	0	15	84403.2088	-0.0399	0.040
13	4	9	12	4	8	84669.4219	-0.0446	0.040
10	8	2	9	8	1	84907.8801	0.0327	0.040
15	2	13	14	2	12	87111.2473	-0.0093	0.040
16	1	15	15	1	14	88333.2124	-0.0066	0.040
13	6	8	12	6	7	88603.5185	0.0019	0.040
11	9	3	10	9	2	88956.3225	-0.0054	0.040
15	3	12	14	3	11	91041.4299	-0.0312	0.040
11	8	3	10	8	2	91395.2078	-0.0534	0.040
16	3	14	15	3	13	92263.1296	-0.0291	0.040
13	6	7	12	6	6	92543.4919	-0.0670	0.040
17	1	16	16	1	15	93485.1273	-0.0020	0.040
11	9	2	10	9	1	93499.9067	0.0614	0.040
14	6	9	13	6	8	93753.5204	-0.0152	0.040
15	4	11	14	4	10	94972.1745	-0.0180	0.040
16	3	13	15	3	12	96193.1645	-0.0550	0.040
13	7	6	12	7	5	96501.6359	-0.0531	0.040
17	2	15	16	2	14	97415.0060	0.0134	0.040
12	10	3	11	10	2	97642.5132	0.0214	0.040
14	7	8	13	7	7	97690.0537	0.0049	0.040
18	1	17	17	1	16	98636.9394	-0.0239	0.040
19	0	19	18	0	18	99858.9159	0.0110	0.040
16	4	12	15	4	11	100123.6320	-0.0344	0.040
17	3	14	16	3	13	101344.9398	0.0134	0.040
18	2	16	17	2	15	102566.7751	0.0234	0.040
15	7	9	14	7	8	102838.6125	0.0490	0.040
19	1	18	18	1	17	103788.7487	0.0325	0.040
13	9	4	12	9	3	105233.7428	0.0089	0.040
18	3	15	17	3	14	106496.6009	0.0310	0.040
15	8	8	14	8	7	106778.5024	0.0298	0.040
16	6	10	15	6	9	107988.1473	0.0535	0.040
20	1	19	19	1	18	108940.3541	-0.0293	0.040
17	5	12	16	5	11	109206.0291	0.0211	0.040

* From: Spoerel *et al. Chemistry – A European Journal*, 1998, **4**, 1974–1981.

Table S5: Ground state transitions of the $^{13}C_2$ isotopologue of THP. Frequencies are in MHz.

J'	Ka'	Kc'	J"	Ka"	Kc"	Obs.	o – c	Exp. Error
6	5	1	6	5	2	4377.9497	0.0024	0.010
5	4	1	5	4	2	4794.3656	-0.0079	0.010
4	3	1	4	3	2	5152.4193	0.0011	0.010
3	2	1	3	2	2	5445.0558	0.0018	0.010
2	1	1	2	1	2	5667.6821	0.0039	0.010
2	2	1	2	0	2	6133.0763	0.0055	0.010
3	3	1	3	1	2	6401.8181	0.0052	0.010
4	4	1	4	2	2	6802.5604	-0.0028	0.010
1	0	1	0	0	0	7036.7258	-0.0003	0.005*
5	5	1	5	3	2	7366.9642	-0.0051	0.010
1	1	0	0	0	0	9078.1333	-0.0100	0.005*
5	3	2	5	3	3	9603.4616	-0.0003	0.005*
4	2	2	4	2	3	9724.9955	-0.0005	0.005*
4	2	2	4	1	3	9727.2365	-0.0014	0.005*
3	1	2	3	1	3	9788.0062	0.0081	0.005*
2	0	2	1	1	1	12175.3837	-0.0013	0.005*
2	1	2	1	1	1	12184.2153	0.0007	0.005*
2	0	2	1	0	1	12327.5740	0.0014	0.005*
2	1	2	1	0	1	12336.4038	0.0017	0.005*
2	1	1	1	1	0	15962.6594	-0.0036	0.005*
2	2	1	1	1	0	16419.2298	0.0036	0.005*
3	1	3	2	1	2	17402.4226	0.0032	0.005*
3	0	3	2	0	2	17410.9313	0.0033	0.005*
2	2	0	1	1	0	18165.0888	-0.0018	0.005*
2	2	1	1	1	1	18308.4545	-0.0013	0.005*
3	2	2	2	2	1	21110.1233	-0.0046	0.005*
3	1	2	2	1	1	21522.7406	0.0014	0.005*
12	3	9	11	3	8	75515.7469	-0.0124	0.040
13	2	11	12	2	10	76734.6207	0.0218	0.040
14	1	13	13	1	12	77954.1026	-0.0009	0.040
11	6	6	10	6	5	78236.2929	0.0722	0.040
11	5	6	10	5	5	78236.9686	0.0071	0.040
15	0	15	14	0	14	79173.7547	0.0498	0.040
12	5	8	11	5	7	79445.2919	-0.0129	0.040
14	2	12	13	2	11	81881.5209	-0.0226	0.040
10	7	3	9	7	2	81970.0812	0.0182	0.040
11	7	5	10	7	4	82179.9688	-0.0191	0.040
15	1	14	14	1	13	83101.0665	-0.0102	0.040
12	5	7	11	5	6	83378.4466	-0.0181	0.040
16	0	16	15	0	15	84320.6997	0.0414	0.040
13	4	9	12	4	8	84591.2927	-0.0308	0.040
14	3	11	13	3	10	85809.2113	-0.0156	0.040
11	8	4	10	8	3	86004.6382	0.0065	0.040
15	2	13	14	2	12	87028.4247	-0.0103	0.040
12	7	6	11	7	5	87320.2983	-0.0282	0.040
16	1	15	15	1	14	88247.9975	0.0146	0.040
14	4	10	13	4	9	89737.6328	0.0452	0.040
15	3	12	14	3	11	90955.9389	-0.0178	0.040
12	8	5	11	8	4	91267.4558	-0.0048	0.040
12	7	5	11	7	4	91322.0028	-0.0612	0.040

17	1	16	16	1	15	93394.7909	-0.0263	0.040
11	9	2	10	9	1	93507.9205	0.0112	0.040
14	6	9	13	6	8	93667.5115	-0.0067	0.040
18	0	18	17	0	17	94614.3184	-0.0294	0.040
15	4	11	14	4	10	94883.9693	0.0028	0.040
16	3	13	15	3	12	96102.6592	0.0098	0.040
17	2	15	16	2	14	97322.0092	-0.0174	0.040
14	7	8	13	7	7	97600.9908	0.0093	0.040
12	10	3	11	10	2	97624.2296	0.0272	0.040
18	1	17	17	1	16	98541.5418	-0.0333	0.040
19	0	19	18	0	18	99761.0807	0.0053	0.040
16	4	12	15	4	11	100030.3942	0.0064	0.040
13	9	5	12	9	4	100354.9778	0.0020	0.040
17	3	14	16	3	13	101249.2690	-0.0205	0.040
18	2	16	17	2	15	102468.6895	-0.0240	0.040
15	7	9	14	7	8	102744.5883	-0.0131	0.040
19	1	18	18	1	17	103688.2998	0.0478	0.040
16	5	11	15	5	10	103958.9457	0.0065	0.040
20	0	20	19	0	19	104907.7028	-0.0161	0.040
17	4	13	16	4	12	105176.8427	0.0352	0.040
15	8	8	14	8	7	106681.2416	-0.0215	0.040
19	2	17	18	2	16	107615.3828	0.0627	0.040
16	7	10	15	7	9	107889.2245	0.0465	0.040
20	1	19	19	1	18	108834.8139	-0.0292	0.040
17	5	12	16	5	11	109104.8937	-0.0350	0.040

* From: Spoerel *et al. Chemistry – A European Journal*, 1998, **4**, 1974–1981.

Table S6: Ground state transitions of the $^{13}C_3$ isotopologue of THP. Frequencies are in MHz.

J’	Ka’	Kc’	J”	Ka”	Kc”	Obs.	o – c	Exp. Error
5	4	1	5	4	2	4048.8673	0.0169	0.010
4	3	1	4	3	2	4634.4000	0.0165	0.010
3	2	1	3	2	2	5125.5069	-0.0031	0.010
2	1	1	2	1	2	5504.6386	-0.0043	0.010
2	2	1	2	0	2	6324.4677	0.0012	0.010
3	3	1	3	1	2	6841.4563	0.0043	0.010
1	0	1	0	0	0	6979.4859	0.0003	0.005*
4	4	1	4	2	2	7648.8756	-0.0042	0.010
1	1	0	0	0	0	9078.7905	0.0023	0.005*
5	3	2	5	3	3	9207.1422	0.0003	0.005*
4	2	2	4	2	3	9538.4063	-0.0069	0.005*
2	1	2	1	1	1	12124.0789	0.0003	0.005*
2	0	2	1	0	1	12361.9295	0.0021	0.005*
5	2	3	5	2	4	13663.6397	0.0015	0.005*
2	1	1	1	1	0	15793.8349	-0.0019	0.005*
3	1	3	2	1	2	17385.0156	-0.0070	0.005*
3	0	3	2	0	2	17409.9156	0.0027	0.005*
2	1	1	1	0	1	17893.1376	-0.0018	0.005*
2	2	0	1	1	0	18184.1192	-0.0001	0.005*
2	2	1	1	1	1	18421.9808	0.0049	0.005*
3	1	2	2	1	1	21600.5531	0.0017	0.005*
3	2	1	2	2	0	24466.8889	-0.0004	0.005*
12	4	9	11	4	8	75475.0731	-0.0209	0.040
15	0	15	14	0	14	79129.0969	0.0396	0.040
12	4	8	11	4	7	79407.0624	0.0140	0.040
14	2	12	13	2	11	81835.4359	-0.0019	0.040
11	7	5	10	7	4	82137.3175	0.0174	0.040
10	7	3	9	7	2	82233.6287	-0.0012	0.040
11	6	5	10	6	4	82346.1660	-0.0558	0.040
15	1	14	14	1	13	83054.1108	0.0200	0.040
12	6	7	11	6	6	83349.6259	-0.0682	0.040
14	3	11	13	3	10	85761.8617	0.0694	0.040
15	2	13	14	2	12	86979.3471	-0.0012	0.040
11	7	4	10	7	3	87214.7269	-0.0204	0.040
12	7	6	11	7	5	87310.5244	0.0580	0.040
16	1	15	15	1	14	88198.0558	-0.0285	0.040
13	5	8	12	5	7	88485.4640	0.0286	0.040
17	0	17	16	0	16	89417.1047	0.0124	0.040
14	5	10	13	5	9	89690.4228	0.0378	0.040
11	9	2	10	9	1	90626.5564	-0.0411	0.040
15	3	12	14	3	11	90905.3842	0.0515	0.040
12	7	5	11	7	4	91609.9095	-0.0198	0.040
16	2	14	15	2	13	92123.1374	-0.0778	0.040
13	6	7	12	6	6	92441.5802	-0.0246	0.040
17	1	16	16	1	15	93342.0024	-0.0055	0.040
14	6	9	13	6	8	93623.8614	-0.0634	0.040
18	0	18	17	0	17	94560.9606	-0.0381	0.040
15	4	11	14	4	10	94833.0057	0.0058	0.040
13	7	6	12	7	5	96475.9618	0.0129	0.040
18	1	17	17	1	16	98485.8592	0.0028	0.040
19	0	19	18	0	18	99704.8642	0.0390	0.040
18	2	16	17	2	15	102410.7678	-0.0040	0.040
15	7	9	14	7	8	102702.9243	-0.0105	0.040
13	10	4	12	10	3	102999.4514	0.0495	0.040
13	12	1	12	12	0	103329.6065	-0.0295	0.040
19	1	18	18	1	17	103629.6063	-0.0183	0.040
16	5	11	15	5	10	103905.5724	0.0237	0.040
14	9	6	13	9	5	105512.8134	0.0408	0.040
14	8	6	13	8	5	105653.3525	0.0024	0.040
13	11	2	12	11	1	105826.3786	-0.0050	0.040
19	2	17	18	2	16	107554.4381	-0.0056	0.040
16	7	10	15	7	9	107840.5795	0.0536	0.040
20	1	19	19	1	18	108773.3130	0.0052	0.040
17	5	12	16	5	11	109047.4028	-0.0588	0.040

* From: Spoerel *et al. Chemistry – A European Journal*, 1998, **4**, 1974–1981.

Table S7: Ground state transitions of the ^{18}O isotopologue of THP. Frequencies are in MHz.

J’	Ka’	Kc’	J”	Ka”	Kc”	Obs.	o – c	Exp. Error
4	3	1	4	3	2	4353.9054	-0.0019	0.010
3	2	1	3	2	2	4935.2855	-0.0013	0.010
2	1	1	2	1	2	5388.0900	0.0017	0.010
2	2	1	2	0	2	6384.4366	0.0062	0.010
1	0	1	0	0	0	6902.9836	0.0000	0.010
3	3	1	3	1	2	7037.9205	-0.0048	0.010

Table S8: Ground state transitions of THP. Frequencies are in MHz.

J’	K_a’	K_c’	v	J”	K_a”	K_c”	v	Obs.	o – c	Exp. Error
89	61	28	0	89	61	29	0	109353.8705	-0.0110	0.035
90	62	28	0	90	62	29	0	109196.0610	0.0247	0.035
28	1	27	0	28	1	28	0	108939.1341	0.0367	0.035
29	2	27	0	29	2	28	0	108929.3818	-0.0213	0.035
30	3	27	0	30	3	28	0	108919.0641	0.0334	0.035
31	4	27	0	31	4	28	0	108907.9888	0.0443	0.035
32	5	27	0	32	5	28	0	108896.1250	0.0166	0.035
33	6	27	0	33	6	28	0	108883.5161	0.0317	0.035
34	7	27	0	34	7	28	0	108870.1046	0.0708	0.035
92	64	28	0	92	64	29	0	108862.8565	-0.0119	0.035
36	9	27	0	36	9	28	0	108840.5210	0.0305	0.035
37	10	27	0	37	10	28	0	108824.3453	0.0318	0.035
38	11	27	0	38	11	28	0	108807.1723	0.0309	0.035
39	12	27	0	39	12	28	0	108788.9501	0.0213	0.035
40	13	27	0	40	13	28	0	108769.6502	0.0213	0.035
41	14	27	0	41	14	28	0	108749.2270	0.0332	0.035
42	15	27	0	42	15	28	0	108727.5880	0.0139	0.035
43	16	27	0	43	16	28	0	108704.7167	-0.0020	0.035
93	65	28	0	93	65	29	0	108687.0697	-0.0707	0.035
44	17	27	0	44	17	28	0	108680.5980	0.0222	0.035
45	18	27	0	45	18	28	0	108655.0575	-0.0339	0.035
46	19	27	0	46	19	28	0	108628.2201	0.0094	0.035
47	20	27	0	47	20	28	0	108599.8324	-0.0442	0.035
48	21	27	0	48	21	28	0	108569.9576	-0.0739	0.035
49	22	27	0	49	22	28	0	108538.6080	-0.0074	0.035
50	23	27	0	50	23	28	0	108505.5729	0.0059	0.035
51	24	27	0	51	24	28	0	108470.8279	0.0044	0.035
52	25	27	0	52	25	28	0	108434.3206	0.0003	0.035
53	26	27	0	53	26	28	0	108395.9919	0.0011	0.035
54	27	27	0	54	27	28	0	108355.7706	0.0034	0.035
55	28	27	0	55	28	28	0	108313.5911	0.0117	0.035
56	29	27	0	56	29	28	0	108269.3798	0.0240	0.035
57	30	27	0	57	30	28	0	108222.9918	-0.0306	0.035
58	31	27	0	58	31	28	0	108174.4805	-0.0233	0.035
59	32	27	0	59	32	28	0	108123.7054	-0.0167	0.035
60	33	27	0	60	33	28	0	108070.5888	-0.0086	0.035
62	35	27	0	62	35	28	0	107956.9976	0.0094	0.035
63	36	27	0	63	36	28	0	107896.3425	0.0099	0.035
64	37	27	0	64	37	28	0	107833.0236	0.0322	0.035
65	38	27	0	65	38	28	0	107766.8851	0.0122	0.035
66	39	27	0	66	39	28	0	107697.9139	0.0313	0.035
67	40	27	0	67	40	28	0	107625.9172	-0.0058	0.035
68	41	27	0	68	41	28	0	107550.8888	-0.0055	0.035
69	42	27	0	69	42	28	0	107472.7042	0.0112	0.035
70	43	27	0	70	43	28	0	107391.2083	-0.0044	0.035
71	44	27	0	71	44	28	0	107306.3588	0.0150	0.035
72	45	27	0	72	45	28	0	107217.9416	-0.0311	0.035
73	46	27	0	73	46	28	0	107125.9587	-0.0243	0.035
74	47	27	0	74	47	28	0	107030.2229	-0.0307	0.035
75	48	27	0	75	48	28	0	106930.6301	-0.0296	0.035
76	49	27	0	76	49	28	0	106827.0378	-0.0345	0.035
77	50	27	0	77	50	28	0	106719.3066	-0.0512	0.035
78	51	27	0	78	51	28	0	106607.3450	-0.0329	0.035
79	52	27	0	79	52	28	0	106490.9744	-0.0148	0.035
80	53	27	0	80	53	28	0	106370.0156	-0.0277	0.035
82	55	27	0	82	55	28	0	106113.8335	-0.0230	0.035
83	56	27	0	83	56	28	0	105978.2770	-0.0120	0.035
84	57	27	0	84	57	28	0	105837.5651	0.0549	0.035
85	58	27	0	85	58	28	0	105691.3336	-0.0060	0.035
87	60	27	0	87	60	28	0	105382.0993	0.0353	0.035
88	61	27	0	88	61	28	0	105218.5857	0.0273	0.035
89	62	27	0	89	62	28	0	105048.8643	0.0055	0.035
27	1	26	0	27	1	27	0	104978.2119	0.0306	0.035
28	2	26	0	28	2	27	0	104968.8310	0.0274	0.035
29	3	26	0	29	3	27	0	104958.7458	0.0140	0.035
30	4	26	0	30	4	27	0	104947.9683	0.0406	0.035
31	5	26	0	31	5	27	0	104936.3664	0.0143	0.035
32	6	26	0	32	6	27	0	104923.9844	0.0205	0.035
33	7	26	0	33	7	27	0	104910.7246	0.0035	0.035
34	8	26	0	34	8	27	0	104896.5760	-0.0040	0.035
35	9	26	0	35	9	27	0	104881.4780	-0.0176	0.035
90	63	27	0	90	63	28	0	104872.7791	0.0375	0.035
37	11	26	0	37	11	27	0	104848.3158	0.0062	0.035
38	12	26	0	38	12	27	0	104830.1356	0.0249	0.035
39	13	26	0	39	13	27	0	104810.7848	0.0112	0.035
40	14	26	0	40	14	27	0	104790.3179	0.0718	0.035
41	15	26	0	41	15	27	0	104768.4849	0.0106	0.035
42	16	26	0	42	16	27	0	104745.4355	0.0331	0.035
43	17	26	0	43	17	27	0	104720.9902	0.0166	0.035
44	18	26	0	44	18	27	0	104695.1277	-0.0012	0.035
91	64	27	0	91	64	28	0	104690.0077	0.0353	0.035
45	19	26	0	45	19	27	0	104667.8037	-0.0045	0.035
46	20	26	0	46	20	27	0	104638.9796	0.0302	0.035
47	21	26	0	47	21	27	0	104608.5046	0.0161	0.035
48	22	26	0	48	22	27	0	104576.3535	-0.0063	0.035
49	23	26	0	49	23	27	0	104542.4880	-0.0084	0.035
50	24	26	0	50	24	27	0	104506.8224	-0.0063	0.035
51	25	26	0	51	25	27	0	104469.2791	-0.0067	0.035
52	26	26	0	52	26	27	0	104429.7682	-0.0261	0.035
53	27	26	0	53	27	27	0	104388.3176	0.0381	0.035
54	28	26	0	54	28	27	0	104344.6941	0.0304	0.035
55	29	26	0	55	29	27	0	104298.8916	0.0238	0.035
56	30	26	0	56	30	27	0	104250.8228	0.0128	0.035
57	31	26	0	57	31	27	0	104200.4314	0.0247	0.035
58	32	26	0	58	32	27	0	104147.6052	0.0337	0.035
59	33	26	0	59	33	27	0	104092.2208	0.0051	0.035
60	34	26	0	60	34	27	0	104034.2750	0.0271	0.035
61	35	26	0	61	35	27	0	103973.5942	0.0201	0.035
62	36	26	0	62	36	27	0	103910.1213	0.0236	0.035
63	37	26	0	63	37	27	0	103843.7281	0.0091	0.035
64	38	26	0	64	38	27	0	103774.3348	-0.0003	0.035
65	39	26	0	65	39	27	0	103701.8253	-0.0152	0.035
66	40	26	0	66	40	27	0	103626.1296	0.0036	0.035
67	41	26	0	67	41	27	0	103547.0837	0.0047	0.035
68	42	26	0	68	42	27	0	103464.5840	0.0009	0.035
69	43	26	0	69	43	27	0	103378.5225	0.0040	0.035
70	44	26	0	70	44	27	0	103288.7722	0.0110	0.035
71	45	26	0	71	45	27	0	103195.1845	0.0015	0.035
72	46	26	0	72	46	27	0	103097.6641	0.0129	0.035
73	47	26	0	73	47	27	0	102996.0171	-0.0114	0.035
74	48	26	0	74	48	27	0	102890.1465	-0.0262	0.035
76	50	26	0	76	50	27	0	102665.1407	-0.0264	0.035
77	51	26	0	77	51	27	0	102545.6760	-0.0294	0.035
78	52	26	0	78	52	27	0	102421.3235	-0.0633	0.035
79	53	26	0	79	53	27	0	102292.0194	-0.0202	0.035
80	54	26	0	80	54	27	0	102157.5086	0.0232	0.035
81	55	26	0	81	55	27	0	102017.5512	0.0130	0.035
82	56	26	0	82	56	27	0	101871.9390	-0.0651	0.035
83	57	26	0	83	57	27	0	101720.7107	0.0296	0.035
84	58	26	0	84	58	27	0	101563.3789	0.0213	0.035
86	60	26	0	86	60	27	0	101229.7986	-0.0163	0.035
87	61	26	0	87	61	27	0	101053.1379	0.0162	0.035
26	1	25	0	26	1	26	0	101017.1909	-0.0004	0.035
27	2	25	0	27	2	26	0	101008.1229	0.0078	0.035
28	3	25	0	28	3	26	0	100998.3187	-0.0083	0.035
29	4	25	0	29	4	26	0	100987.8055	0.0195	0.035
30	5	25	0	30	5	26	0	100976.4342	-0.0148	0.035
32	7	25	0	32	7	26	0	100951.1563	-0.0520	0.035
33	8	25	0	33	8	26	0	100937.1756	-0.0355	0.035
34	9	25	0	34	9	26	0	100922.2227	-0.0086	0.035
35	10	25	0	35	10	26	0	100906.2097	-0.0083	0.035
36	11	25	0	36	11	26	0	100889.1155	-0.0035	0.035
37	12	25	0	37	12	26	0	100870.8763	-0.0038	0.035
88	62	26	0	88	62	27	0	100869.4028	-0.0758	0.035
38	13	25	0	38	13	26	0	100851.4256	-0.0202	0.035
39	14	25	0	39	14	26	0	100830.7553	-0.0032	0.035
40	15	25	0	40	15	26	0	100808.7374	-0.0219	0.035
41	16	25	0	41	16	26	0	100785.4110	0.0239	0.035
42	17	25	0	42	17	26	0	100760.6161	0.0367	0.035
43	18	25	0	43	18	26	0	100734.2929	0.0216	0.035
44	19	25	0	44	19	26	0	100706.4298	0.0330	0.035
89	63	26	0	89	63	27	0	100678.7010	0.0826	0.035
45	20	25	0	45	20	26	0	100676.9135	0.0262	0.035
46	21	25	0	46	21	26	0	100645.7027	0.0301	0.035
47	22	25	0	47	22	26	0	100612.6922	0.0120	0.035
48	23	25	0	48	23	26	0	100577.8643	0.0283	0.035
49	24	25	0	49	24	26	0	100541.0970	0.0338	0.035
50	25	25	0	50	25	26	0	100502.3058	0.0225	0.035
51	26	25	0	51	26	26	0	100461.4223	0.0070	0.035
52	27	25	0	52	27	26	0	100418.3946	0.0189	0.035
53	28	25	0	53	28	26	0	100373.1028	0.0238	0.035
54	29	25	0	54	29	26	0	100325.4629	0.0259	0.035

55	30	25	0	55	30	26	0	100275.3714	0.0125	0.035
56	31	25	0	56	31	26	0	100222.7667	0.0156	0.035
57	32	25	0	57	32	26	0	100167.5490	0.0314	0.035
59	34	25	0	59	34	26	0	100048.8519	0.0784	0.035
60	35	25	0	60	35	26	0	99985.0667	0.0111	0.035
61	36	25	0	61	36	26	0	99918.3146	0.0178	0.035
62	37	25	0	62	37	26	0	99848.4130	0.0280	0.035
63	38	25	0	63	38	26	0	99775.2131	0.0083	0.035
64	39	25	0	64	39	26	0	99698.6524	0.0156	0.035
65	40	25	0	65	40	26	0	99618.5760	0.0184	0.035
66	41	25	0	66	41	26	0	99534.8292	-0.0106	0.035
67	42	25	0	67	42	26	0	99447.3768	0.0249	0.035
68	43	25	0	68	43	26	0	99355.9704	0.0133	0.035
69	44	25	0	69	44	26	0	99260.5332	0.0189	0.035
70	45	25	0	70	45	26	0	99160.8854	0.0083	0.035
71	46	25	0	71	46	26	0	99056.9066	0.0127	0.035
72	47	25	0	72	47	26	0	98948.4311	0.0242	0.035
73	48	25	0	73	48	26	0	98835.2410	-0.0117	0.035
74	49	25	0	74	49	26	0	98717.2588	-0.0025	0.035
75	50	25	0	75	50	26	0	98594.3043	0.0486	0.035
76	51	25	0	76	51	26	0	98466.0364	-0.0153	0.035
77	52	25	0	77	52	26	0	98332.4210	-0.0365	0.035
78	53	25	0	78	53	26	0	98193.2276	-0.0451	0.035
79	54	25	0	79	54	26	0	98048.3101	0.0217	0.035
80	55	25	0	80	55	26	0	97897.2524	-0.0334	0.035
82	57	25	0	82	57	26	0	97576.2929	-0.0071	0.035
83	58	25	0	83	58	26	0	97405.8691	0.0433	0.035
84	59	25	0	84	59	26	0	97228.3196	-0.0299	0.035
25	1	24	0	25	1	25	0	97056.1077	-0.0224	0.035
26	2	24	0	26	2	25	0	97047.3268	-0.0135	0.035
85	60	25	0	85	60	26	0	97043.6253	0.0317	0.035
27	3	24	0	27	3	25	0	97037.8050	-0.0137	0.035
28	4	24	0	28	4	25	0	97027.5203	-0.0001	0.035
29	5	24	0	29	5	25	0	97016.3798	-0.0190	0.035
30	6	24	0	30	6	25	0	97004.3646	-0.0410	0.035
31	7	24	0	31	7	25	0	96991.4609	-0.0298	0.035
32	8	24	0	32	8	25	0	96977.5902	-0.0119	0.035
33	9	24	0	33	9	25	0	96962.6664	-0.0197	0.035
34	10	24	0	34	10	25	0	96946.6804	-0.0068	0.035
35	11	24	0	35	11	25	0	96929.5340	-0.0141	0.035
36	12	24	0	36	12	25	0	96911.1944	-0.0149	0.035
37	13	24	0	37	13	25	0	96891.5873	-0.0226	0.035
38	14	24	0	38	14	25	0	96870.6653	-0.0213	0.035
86	61	25	0	86	61	26	0	96851.2311	-0.0344	0.035
39	15	24	0	39	15	25	0	96848.3709	-0.0035	0.035
41	17	24	0	41	17	25	0	96799.3094	-0.0032	0.035
42	18	24	0	42	18	25	0	96772.3983	-0.0244	0.035
43	19	24	0	43	19	25	0	96743.8492	-0.0138	0.035
44	20	24	0	44	20	25	0	96713.5461	-0.0118	0.035
45	21	24	0	45	21	25	0	96681.4100	-0.0195	0.035
87	62	25	0	87	62	26	0	96651.0019	-0.0550	0.035
46	22	24	0	46	22	25	0	96647.3308	-0.0669	0.035
47	23	24	0	47	23	25	0	96611.3682	-0.0117	0.035
48	24	24	0	48	24	25	0	96573.2693	-0.0219	0.035
49	25	24	0	49	25	25	0	96533.0281	-0.0158	0.035
50	26	24	0	50	26	25	0	96490.5033	-0.0448	0.035
51	27	24	0	51	27	25	0	96445.7340	0.0231	0.035
88	63	25	0	88	63	26	0	96442.6892	0.0469	0.035
52	28	24	0	52	28	25	0	96398.4579	0.0215	0.035
53	29	24	0	53	29	25	0	96348.6407	0.0144	0.035
54	30	24	0	54	30	25	0	96296.2130	0.0343	0.035
55	31	24	0	55	31	25	0	96240.9823	-0.0068	0.035
56	32	24	0	56	32	25	0	96182.9629	0.0133	0.035
57	33	24	0	57	33	25	0	96121.9566	0.0081	0.035
58	34	24	0	58	34	25	0	96057.8952	0.0242	0.035
59	35	24	0	59	35	25	0	95990.5784	-0.0197	0.035
60	36	24	0	60	36	25	0	95919.9756	-0.0318	0.035
61	37	24	0	61	37	25	0	95845.9984	0.0262	0.035
62	38	24	0	62	38	25	0	95768.3452	-0.0156	0.035
91	66	25	0	91	66	26	0	95764.6640	0.0521	0.035
63	39	24	0	63	39	25	0	95687.0130	-0.0252	0.035
64	40	24	0	64	40	25	0	95601.8315	-0.0323	0.035
65	41	24	0	65	41	25	0	95512.6635	-0.0284	0.035
66	42	24	0	66	42	25	0	95419.3470	-0.0250	0.035
67	43	24	0	67	43	25	0	95321.7228	-0.0247	0.035
68	44	24	0	68	44	25	0	95219.5969	-0.0591	0.035
69	45	24	0	69	45	25	0	95112.9032	-0.0254	0.035
70	46	24	0	70	46	25	0	95001.3707	-0.0193	0.035

71	47	24	0	71	47	25	0	94884.8370	-0.0204	0.035
72	48	24	0	72	48	25	0	94763.1133	-0.0272	0.035
73	49	24	0	73	49	25	0	94636.0218	-0.0191	0.035
74	50	24	0	74	50	25	0	94503.3162	-0.0354	0.035
75	51	24	0	75	51	25	0	94364.8056	-0.0504	0.035
76	52	24	0	76	52	25	0	94220.3573	0.0294	0.035
77	53	24	0	77	53	25	0	94069.5571	0.0269	0.035
78	54	24	0	78	54	25	0	93912.2299	0.0159	0.035
79	55	24	0	79	55	25	0	93748.1488	0.0301	0.035
80	56	24	0	80	56	25	0	93576.9597	-0.0102	0.035
81	57	24	0	81	57	25	0	93398.4339	-0.0449	0.035
82	58	24	0	82	58	25	0	93212.3346	-0.0065	0.035
24	1	23	0	24	1	24	0	93095.0239	0.0233	0.035
25	2	23	0	25	2	24	0	93086.4640	-0.0175	0.035
26	3	23	0	26	3	24	0	93077.1834	-0.0248	0.035
27	4	23	0	27	4	24	0	93067.1215	-0.0101	0.035
28	5	23	0	28	5	24	0	93056.1630	-0.0376	0.035
29	6	23	0	29	6	24	0	93044.3231	-0.0394	0.035
30	7	23	0	30	7	24	0	93031.5065	-0.0558	0.035
31	8	23	0	31	8	24	0	93017.7373	-0.0057	0.035
32	9	23	0	32	9	24	0	93002.8203	-0.0253	0.035
33	10	23	0	33	10	24	0	92986.7876	-0.0216	0.035
34	11	23	0	34	11	24	0	92969.5461	-0.0242	0.035
35	12	23	0	35	12	24	0	92951.0435	-0.0203	0.035
36	13	23	0	36	13	24	0	92931.2034	-0.0187	0.035
37	14	23	0	37	14	24	0	92909.9104	-0.0652	0.035
38	15	23	0	38	15	24	0	92887.2267	-0.0254	0.035
39	16	23	0	39	16	24	0	92862.9590	-0.0185	0.035
40	17	23	0	40	17	24	0	92837.0568	-0.0184	0.035
41	18	23	0	41	18	24	0	92809.4569	-0.0092	0.035
42	19	23	0	42	19	24	0	92780.0611	-0.0076	0.035
43	20	23	0	43	20	24	0	92748.7877	-0.0112	0.035
44	21	23	0	44	21	24	0	92715.5526	-0.0176	0.035
45	22	23	0	45	22	24	0	92680.2776	-0.0156	0.035
46	23	23	0	46	23	24	0	92642.8589	-0.0169	0.035
85	61	24	0	85	61	25	0	92604.7422	0.0006	0.035
47	24	23	0	47	24	24	0	92603.2085	-0.0147	0.035
48	25	23	0	48	25	24	0	92561.2228	-0.0144	0.035
49	26	23	0	49	26	24	0	92516.8142	-0.0030	0.035
50	27	23	0	50	27	24	0	92469.8323	-0.0265	0.035
51	28	23	0	51	28	24	0	92420.2505	-0.0042	0.035
52	29	23	0	52	29	24	0	92367.8914	-0.0027	0.035
53	30	23	0	53	30	24	0	92312.5925	-0.0699	0.035
54	31	23	0	54	31	24	0	92254.4338	-0.0078	0.035
55	32	23	0	55	32	24	0	92193.0902	-0.0192	0.035
87	63	24	0	87	63	25	0	92155.0246	-0.0005	0.035
56	33	23	0	56	33	24	0	92128.4958	-0.0440	0.035
57	34	23	0	57	34	24	0	92060.5948	-0.0074	0.035
58	35	23	0	58	35	24	0	91989.1548	-0.0069	0.035
88	64	24	0	88	64	25	0	91915.5973	0.0464	0.035
59	36	23	0	59	36	24	0	91914.0895	0.0109	0.035
60	37	23	0	60	37	24	0	91835.2069	-0.0009	0.035
61	38	23	0	61	38	24	0	91752.3839	-0.0160	0.035
62	39	23	0	62	39	24	0	91665.4898	-0.0092	0.035
63	40	23	0	63	40	24	0	91574.3486	0.0049	0.035
64	41	23	0	64	41	24	0	91478.7775	0.0113	0.035
65	42	23	0	65	42	24	0	91378.5789	-0.0134	0.035
66	43	23	0	66	43	24	0	91273.6356	-0.0050	0.035
67	44	23	0	67	44	24	0	91163.7003	-0.0220	0.035
68	45	23	0	68	45	24	0	91048.6455	0.0049	0.035
69	46	23	0	69	46	24	0	90928.1626	-0.0271	0.035
70	47	23	0	70	47	24	0	90802.1340	-0.0215	0.035
71	48	23	0	71	48	24	0	90670.3052	-0.0084	0.035
72	49	23	0	72	49	24	0	90532.4016	-0.0275	0.035
73	50	23	0	73	50	24	0	90388.2534	-0.0026	0.035
74	51	23	0	74	51	24	0	90237.5317	-0.0045	0.035
75	52	23	0	75	52	24	0	90079.9922	-0.0063	0.035
76	53	23	0	76	53	24	0	89915.3723	0.0150	0.035
77	54	23	0	77	54	24	0	89743.3268	0.0149	0.035
78	55	23	0	78	55	24	0	89563.5621	0.0172	0.035
79	56	23	0	79	56	24	0	89375.7364	0.0153	0.035
80	57	23	0	80	57	24	0	89179.5082	0.0231	0.035
23	1	22	0	23	1	23	0	89133.7894	-0.0159	0.035
24	2	22	0	24	2	23	0	89125.5341	-0.0069	0.035
25	3	22	0	25	3	23	0	89116.4859	-0.0110	0.035
26	4	22	0	26	4	23	0	89106.6035	-0.0158	0.035
27	5	22	0	27	5	23	0	89095.8530	0.0008	0.035
28	6	22	0	28	6	23	0	89084.1550	0.0174	0.035

29	7	22	0	29	7	23	0	89071.3962	-0.0187	0.035
30	8	22	0	30	8	23	0	89057.6327	0.0112	0.035
31	9	22	0	31	9	23	0	89042.6896	-0.0022	0.035
32	10	22	0	32	10	23	0	89026.5622	0.0032	0.035
33	11	22	0	33	11	23	0	89009.1798	0.0270	0.035
34	12	22	0	34	12	23	0	88990.4006	-0.0001	0.035
81	58	23	0	81	58	24	0	88974.4792	0.0187	0.035
35	13	22	0	35	13	23	0	88970.2419	0.0136	0.035
36	14	22	0	36	14	23	0	88948.5799	0.0221	0.035
37	15	22	0	37	15	23	0	88925.3200	0.0106	0.035
38	16	22	0	38	16	23	0	88900.4043	0.0039	0.035
39	17	22	0	39	17	23	0	88873.7734	0.0280	0.035
40	18	22	0	40	18	23	0	88845.2670	0.0106	0.035
41	19	22	0	41	19	23	0	88814.8565	0.0143	0.035
42	20	22	0	42	20	23	0	88782.4179	0.0088	0.035
82	59	23	0	82	59	24	0	88760.3120	0.0653	0.035
43	21	22	0	43	21	23	0	88747.8880	0.0281	0.035
44	22	22	0	44	22	23	0	88711.0557	-0.0388	0.035
45	23	22	0	45	23	23	0	88672.0104	0.0006	0.035
46	24	22	0	46	24	23	0	88630.5007	0.0019	0.035
47	25	22	0	47	25	23	0	88586.4509	-0.0004	0.035
48	26	22	0	48	26	23	0	88539.7378	-0.0159	0.035
83	60	23	0	83	60	24	0	88536.4202	0.0027	0.035
49	27	22	0	49	27	23	0	88490.2823	-0.0061	0.035
50	28	22	0	50	28	23	0	88437.9262	-0.0075	0.035
51	29	22	0	51	29	23	0	88382.5507	-0.0137	0.035
52	30	22	0	52	30	23	0	88324.0293	-0.0208	0.035
53	31	22	0	53	31	23	0	88262.2436	-0.0134	0.035
54	32	22	0	54	32	23	0	88197.0478	0.0023	0.035
55	33	22	0	55	33	23	0	88128.2688	-0.0028	0.035
85	62	23	0	85	62	24	0	88058.1116	0.0528	0.035
56	34	22	0	56	34	23	0	88055.7812	-0.0050	0.035
57	35	22	0	57	35	23	0	87979.4309	-0.0035	0.035
58	36	22	0	58	36	23	0	87899.0556	0.0000	0.035
59	37	22	0	59	37	23	0	87814.5094	0.0264	0.035
86	63	23	0	86	63	24	0	87802.5855	0.0667	0.035
60	38	22	0	60	38	23	0	87725.5755	0.0323	0.035
61	39	22	0	61	39	23	0	87632.0832	0.0274	0.035
62	40	22	0	62	40	23	0	87533.8602	0.0269	0.035
63	41	22	0	63	41	23	0	87430.7029	0.0229	0.035
64	42	22	0	64	42	23	0	87322.3976	0.0055	0.035
65	43	22	0	65	43	23	0	87208.7975	0.0407	0.035
66	44	22	0	66	44	23	0	87089.5416	-0.0097	0.035
67	45	22	0	67	45	23	0	86964.5281	-0.0150	0.035
68	46	22	0	68	46	23	0	86833.4734	-0.0149	0.035
69	47	22	0	69	47	23	0	86696.1196	-0.0116	0.035
70	48	22	0	70	48	23	0	86552.1355	-0.0676	0.035
71	49	22	0	71	49	23	0	86401.3474	-0.0741	0.035
72	50	22	0	72	50	23	0	86243.4934	0.0042	0.035
73	51	22	0	73	51	23	0	86078.0989	0.0067	0.035
74	52	22	0	74	52	23	0	85904.8993	0.0001	0.035
75	53	22	0	75	53	23	0	85723.5587	-0.0005	0.035
76	54	22	0	76	54	23	0	85533.6995	-0.0013	0.035
77	55	22	0	77	55	23	0	85334.9524	0.0239	0.035
22	1	21	0	22	1	22	0	85172.5951	0.0482	0.035
24	3	21	0	24	3	22	0	85155.6829	-0.0027	0.035
25	4	21	0	25	4	22	0	85145.9883	0.0054	0.035
26	5	21	0	26	5	22	0	85135.3238	-0.0267	0.035
78	56	22	0	78	56	23	0	85126.8683	0.0464	0.035
27	6	21	0	27	6	22	0	85123.6815	-0.0430	0.035
28	7	21	0	28	7	22	0	85110.9836	-0.0542	0.035
29	8	21	0	29	8	22	0	85097.2352	0.0141	0.035
30	9	21	0	30	9	22	0	85082.2112	0.0092	0.035
31	10	21	0	31	10	22	0	85065.9051	-0.0003	0.035
32	11	21	0	32	11	22	0	85048.2911	0.0372	0.035
33	12	21	0	33	12	22	0	85029.1652	-0.0015	0.035
34	13	21	0	34	13	22	0	85008.5660	0.0055	0.035
35	14	21	0	35	14	22	0	84986.3422	-0.0065	0.035
36	15	21	0	36	15	22	0	84962.4299	-0.0122	0.035
37	16	21	0	37	16	22	0	84936.7381	-0.0101	0.035
38	17	21	0	38	17	22	0	84909.1668	-0.0044	0.035
39	18	21	0	39	18	22	0	84879.5875	-0.0248	0.035
40	19	21	0	40	19	22	0	84847.9691	-0.0002	0.035
41	20	21	0	41	20	22	0	84814.1180	-0.0185	0.035
42	21	21	0	42	21	22	0	84778.0083	0.0037	0.035
43	22	21	0	43	22	22	0	84739.4519	-0.0087	0.035
44	23	21	0	44	23	22	0	84698.3961	0.0082	0.035
80	58	22	0	80	58	23	0	84680.7774	-0.0015	0.035

45	24	21	0	45	24	22	0	84654.6472	-0.0182	0.035
46	25	21	0	46	25	22	0	84608.1758	0.0073	0.035
47	26	21	0	47	26	22	0	84558.7656	-0.0021	0.035
48	27	21	0	48	27	22	0	84506.3355	0.0061	0.035
49	28	21	0	49	28	22	0	84450.7024	-0.0127	0.035
81	59	22	0	81	59	23	0	84441.8668	0.0199	0.035
50	29	21	0	50	29	22	0	84391.7208	-0.0605	0.035
51	30	21	0	51	30	22	0	84329.3705	-0.0089	0.035
52	31	21	0	52	31	22	0	84263.3158	-0.0392	0.035
53	32	21	0	53	32	22	0	84193.5830	0.0345	0.035
54	33	21	0	54	33	22	0	84119.7501	-0.0435	0.035
55	34	21	0	55	34	22	0	84041.9444	0.0266	0.035
56	35	21	0	56	35	22	0	83959.7783	0.0366	0.035
83	61	22	0	83	61	23	0	83929.3038	-0.0756	0.035
57	36	21	0	57	36	22	0	83873.1087	0.0300	0.035
58	37	21	0	58	37	22	0	83781.7529	0.0187	0.035
59	38	21	0	59	38	22	0	83685.4732	-0.0322	0.035
60	39	21	0	60	39	22	0	83584.1965	0.0152	0.035
61	40	21	0	61	40	22	0	83477.5653	0.0250	0.035
85	63	22	0	85	63	23	0	83366.5270	0.0256	0.035
62	41	21	0	62	41	22	0	83365.3689	0.0172	0.035
63	42	21	0	63	42	22	0	83247.4064	0.0331	0.035
64	43	21	0	64	43	22	0	83123.3708	0.0192	0.035
65	44	21	0	65	44	22	0	82993.0494	0.0290	0.035
66	45	21	0	66	45	22	0	82856.1241	0.0244	0.035
87	65	22	0	87	65	23	0	82747.1939	0.0080	0.035
67	46	21	0	67	46	22	0	82712.2768	-0.0182	0.035
68	47	21	0	68	47	22	0	82561.2598	-0.0362	0.035
69	48	21	0	69	48	22	0	82402.7446	-0.0300	0.035
70	49	21	0	70	49	22	0	82236.3232	-0.0608	0.035
71	50	21	0	71	50	22	0	82061.7519	-0.0049	0.035
72	51	21	0	72	51	22	0	81878.5193	0.0164	0.035
73	52	21	0	73	52	22	0	81686.2175	0.0108	0.035
74	53	21	0	74	53	22	0	81484.4312	0.0055	0.035
75	54	21	0	75	54	22	0	81272.6708	-0.0152	0.035
22	2	20	0	22	2	21	0	81203.3823	-0.0398	0.035
23	3	20	0	23	3	21	0	81194.7177	-0.0572	0.035
24	4	20	0	24	4	21	0	81185.2695	0.0486	0.035
25	5	20	0	25	5	21	0	81174.6515	-0.0397	0.035
26	6	20	0	26	6	21	0	81163.0712	-0.0437	0.035
27	7	20	0	27	7	21	0	81150.4262	0.0086	0.035
28	8	20	0	28	8	21	0	81136.4847	-0.0370	0.035
29	9	20	0	29	9	21	0	81121.3023	-0.0445	0.035
30	10	20	0	30	10	21	0	81104.7920	-0.0172	0.035
31	11	20	0	31	11	21	0	81086.8049	-0.0169	0.035
32	12	20	0	32	12	21	0	81067.2838	-0.0107	0.035
76	55	21	0	76	55	22	0	81050.4854	0.0056	0.035
33	13	20	0	33	13	21	0	81046.1008	-0.0330	0.035
34	14	20	0	34	14	21	0	81023.2155	-0.0270	0.035
35	15	20	0	35	15	21	0	80998.5201	0.0000	0.035
36	16	20	0	36	16	21	0	80971.8325	-0.0298	0.035
37	17	20	0	37	17	21	0	80943.1356	-0.0259	0.035
38	18	20	0	38	18	21	0	80912.2859	-0.0199	0.035
39	19	20	0	39	19	21	0	80879.1815	0.0018	0.035
40	20	20	0	40	20	21	0	80843.6562	-0.0070	0.035
77	56	21	0	77	56	22	0	80817.2512	-0.0088	0.035
41	21	20	0	41	21	21	0	80805.5844	-0.0483	0.035
42	22	20	0	42	22	21	0	80764.9534	-0.0060	0.035
43	23	20	0	43	23	21	0	80721.5006	-0.0099	0.035
44	24	20	0	44	24	21	0	80675.1441	-0.0041	0.035
45	25	20	0	45	25	21	0	80625.7493	0.0194	0.035
46	26	20	0	46	26	21	0	80573.1258	0.0186	0.035
47	27	20	0	47	27	21	0	80517.1607	0.0338	0.035
48	28	20	0	48	28	21	0	80457.6616	0.0322	0.035
49	29	20	0	49	29	21	0	80394.4829	0.0334	0.035
50	30	20	0	50	30	21	0	80327.4550	0.0397	0.035
79	58	21	0	79	58	22	0	80315.4213	0.0568	0.035
51	31	20	0	51	31	21	0	80256.3795	0.0314	0.035
52	32	20	0	52	32	21	0	80181.1016	0.0396	0.035
53	33	20	0	53	33	21	0	80101.3849	0.0214	0.035
80	59	21	0	80	59	22	0	80045.3181	-0.0266	0.035
55	35	20	0	55	35	21	0	79927.9018	-0.0117	0.035
56	36	20	0	56	36	21	0	79833.7492	0.0172	0.035
81	60	21	0	81	60	22	0	79761.5681	-0.0361	0.035
58	38	20	0	58	38	21	0	79629.3304	0.0242	0.035
59	39	20	0	59	39	21	0	79518.6049	0.0352	0.035
82	61	21	0	82	61	22	0	79463.2696	-0.0158	0.035
60	40	20	0	60	40	21	0	79401.8112	0.0085	0.035

61	41	20	0	61	41	21	0	79278.7484	0.0209	0.035
62	42	20	0	62	42	21	0	79149.0930	0.0409	0.035
63	43	20	0	63	43	21	0	79012.4794	0.0105	0.035
64	44	20	0	64	44	21	0	78868.6767	0.0238	0.035
84	63	21	0	84	63	22	0	78818.9065	-0.0290	0.035
65	45	20	0	65	45	21	0	78717.2682	0.0072	0.035
66	46	20	0	66	46	21	0	78557.9523	0.0226	0.035
85	64	21	0	85	64	22	0	78470.5392	-0.0141	0.035
67	47	20	0	67	47	21	0	78390.2762	0.0031	0.035
68	48	20	0	68	48	21	0	78213.8778	-0.0029	0.035
69	49	20	0	69	49	21	0	78028.3375	0.0220	0.035
70	50	20	0	70	50	21	0	77833.1268	0.0170	0.035
87	66	21	0	87	66	22	0	77713.9612	0.0193	0.035
71	51	20	0	71	51	21	0	77627.7728	0.0103	0.035
88	67	21	0	88	67	22	0	77301.8524	0.0216	0.035
21	2	19	0	21	2	20	0	77242.2147	-0.0322	0.035
22	3	19	0	22	3	20	0	77233.7567	-0.0080	0.035
23	4	19	0	23	4	20	0	77224.3110	-0.0194	0.035
24	5	19	0	24	5	20	0	77213.8209	-0.0470	0.035
25	6	19	0	25	6	20	0	77202.2359	-0.0616	0.035
26	7	19	0	26	7	20	0	77189.5449	0.0087	0.035
27	8	19	0	27	8	20	0	77175.4722	-0.0247	0.035
28	9	19	0	28	9	20	0	77160.1097	0.0200	0.035
29	10	19	0	29	10	20	0	77143.2092	-0.0109	0.035
30	11	19	0	30	11	20	0	77124.7830	-0.0075	0.035
31	12	19	0	31	12	20	0	77104.6885	-0.0107	0.035
32	13	19	0	32	13	20	0	77082.8283	-0.0120	0.035
33	14	19	0	33	14	20	0	77059.0280	-0.0761	0.035
34	15	19	0	34	15	20	0	77033.3879	0.0108	0.035
35	16	19	0	35	16	20	0	77005.5617	0.0210	0.035
36	17	19	0	36	17	20	0	76975.4928	0.0203	0.035
37	18	19	0	37	18	20	0	76943.0623	0.0167	0.035
38	19	19	0	38	19	20	0	76908.1597	0.0320	0.035
39	20	19	0	39	20	20	0	76870.6036	0.0212	0.035
40	21	19	0	40	21	20	0	76830.2743	0.0067	0.035
41	22	19	0	41	22	20	0	76787.0624	0.0260	0.035
75	55	20	0	75	55	21	0	76693.4372	-0.0476	0.035
43	24	19	0	43	24	20	0	76691.2109	0.0037	0.035
44	25	19	0	44	25	20	0	76638.3281	0.0421	0.035
45	26	19	0	45	26	20	0	76581.8268	0.0259	0.035
46	27	19	0	46	27	20	0	76521.6160	0.0420	0.035
47	28	19	0	47	28	20	0	76457.4491	0.0293	0.035
48	29	19	0	48	29	20	0	76389.1875	0.0416	0.035
49	30	19	0	49	30	20	0	76316.5582	0.0072	0.035
50	31	19	0	50	31	20	0	76239.4313	0.0056	0.035
51	32	19	0	51	32	20	0	76157.5592	0.0079	0.035
77	57	20	0	77	57	21	0	76149.0007	-0.0654	0.035
52	33	19	0	52	33	20	0	76070.7045	0.0055	0.035
53	34	19	0	53	34	20	0	75978.6413	0.0115	0.035
54	35	19	0	54	35	20	0	75881.0893	-0.0037	0.035
78	58	20	0	78	58	21	0	75854.5590	-0.0746	0.035
55	36	19	0	55	36	20	0	75777.7862	-0.0402	0.035
56	37	19	0	56	37	20	0	75668.5702	0.0161	0.035
57	38	19	0	57	38	20	0	75553.0053	0.0194	0.035
79	59	20	0	79	59	21	0	75543.9207	-0.0793	0.035
58	39	19	0	58	39	20	0	75430.8366	0.0199	0.035
59	40	19	0	59	40	20	0	75301.7374	0.0129	0.035
60	41	19	0	60	41	20	0	75165.3763	0.0074	0.035
61	42	19	0	61	42	20	0	75021.4003	0.0103	0.035
11	5	7	0	10	5	6	0	75061.6407	-0.0207	0.035
9	8	1	0	8	8	0	0	75613.0002	-0.0733	0.035
12	3	9	0	11	3	8	0	76296.9511	-0.0395	0.035
9	7	2	0	8	7	1	0	76652.8592	0.0019	0.035
13	2	11	0	12	2	10	0	77536.1788	-0.0493	0.035
10	7	4	0	9	7	3	0	77711.0636	-0.0235	0.035
10	6	4	0	9	6	3	0	78090.9713	-0.0118	0.035
14	1	13	0	13	1	12	0	78776.3859	-0.0005	0.035
11	6	6	0	10	6	5	0	79035.5204	-0.0110	0.035
11	5	6	0	10	5	5	0	79037.0824	-0.0108	0.035
15	0	15	0	14	0	14	0	80016.7284	0.0219	0.035
12	5	8	0	11	5	7	0	80261.6833	-0.0094	0.035
10	8	3	0	9	8	2	0	80741.5339	-0.0357	0.035
13	3	10	0	12	3	9	0	81498.6445	-0.0149	0.035
10	9	2	0	9	9	1	0	81828.2556	-0.0089	0.035
14	2	12	0	13	2	11	0	82738.1655	-0.0325	0.035
10	7	3	0	9	7	2	0	82943.6744	0.0157	0.035
11	7	5	0	10	7	4	0	83014.7852	0.0076	0.035
11	6	5	0	10	6	4	0	83061.6960	-0.0078	0.035
10	9	1	0	9	9	0	0	83609.6632	0.0229	0.035
15	1	14	0	14	1	13	0	83978.4150	0.0166	0.035
12	6	7	0	11	6	6	0	84231.3243	0.0413	0.035
16	0	16	0	15	0	15	0	85218.7118	0.0134	0.035
10	8	2	0	9	8	1	0	85358.8350	0.0049	0.035
13	5	9	0	12	5	8	0	85462.4140	-0.0091	0.035
14	3	11	0	13	3	10	0	86700.3528	-0.0242	0.035
11	8	4	0	10	8	3	0	86810.2299	-0.0136	0.035
11	7	4	0	10	7	3	0	87467.7918	0.0169	0.035
15	2	13	0	14	2	12	0	87940.0813	-0.0353	0.035
12	7	6	0	11	7	5	0	88212.2750	-0.0297	0.035
12	6	6	0	11	6	5	0	88216.3608	-0.0400	0.035
16	1	15	0	15	1	14	0	89180.3528	0.0118	0.035
13	6	8	0	12	6	7	0	89429.3665	0.0104	0.035
11	9	3	0	10	9	2	0	89510.3999	0.0179	0.035
11	10	2	0	10	10	1	0	90173.2044	-0.0658	0.035
17	0	17	0	16	0	16	0	90420.6069	-0.0097	0.035
14	4	10	0	13	4	9	0	90663.4714	-0.0385	0.035
15	3	12	0	14	3	11	0	91902.0637	-0.0329	0.035
12	8	5	0	11	8	4	0	92191.4418	-0.0279	0.035
12	7	5	0	11	7	4	0	92288.7739	-0.0125	0.035
11	8	3	0	10	8	2	0	92317.1541	-0.0566	0.035
16	2	14	0	15	2	13	0	93141.9579	-0.0162	0.035
11	9	2	0	10	9	1	0	93887.9619	0.0188	0.035
17	1	16	0	16	1	15	0	94382.1916	-0.0177	0.035
14	6	9	0	13	6	8	0	94628.7920	-0.0193	0.035
18	0	18	0	17	0	17	0	95622.4428	-0.0143	0.035
15	4	11	0	14	4	10	0	95864.7841	0.0079	0.035
12	9	4	0	11	9	3	0	95870.5766	0.0200	0.035
12	8	4	0	11	8	3	0	96920.9767	-0.0010	0.035
16	3	13	0	15	3	12	0	97103.7697	-0.0194	0.035
13	8	6	0	12	8	5	0	97394.0033	-0.0002	0.035
13	7	6	0	12	7	5	0	97403.7490	-0.0054	0.035
12	10	3	0	11	10	2	0	98196.6884	-0.0113	0.035
17	2	15	0	16	2	14	0	98343.7483	-0.0140	0.035
12	11	2	0	11	11	1	0	98463.5261	-0.0066	0.035
14	7	8	0	13	7	7	0	98598.9450	-0.0164	0.035
12	11	1	0	11	11	0	0	99501.2646	0.0542	0.035
18	1	17	0	17	1	16	0	99584.0383	0.0397	0.035
15	5	10	0	14	5	9	0	99829.0125	0.0078	0.035
19	0	19	0	18	0	18	0	100824.2118	-0.0036	0.035
16	4	12	0	15	4	11	0	101066.1129	-0.0113	0.035
13	9	5	0	12	9	4	0	101364.8322	-0.0182	0.035
13	8	5	0	12	8	4	0	101551.6643	0.0002	0.035
12	9	3	0	11	9	2	0	101584.4620	0.0229	0.035
12	10	2	0	11	10	1	0	102235.0580	0.0154	0.035
17	3	14	0	16	3	13	0	102305.4144	-0.0204	0.035
14	8	7	0	13	8	6	0	102580.0996	-0.0281	0.035
14	7	7	0	13	7	6	0	102580.8706	-0.0264	0.035
18	2	16	0	17	2	15	0	103545.4869	0.0123	0.035
15	7	9	0	14	7	8	0	103796.5449	0.0268	0.035
19	1	18	0	18	1	17	0	104785.7194	0.0152	0.035
13	10	4	0	12	10	3	0	104880.9013	-0.0100	0.035
16	5	11	0	15	5	10	0	105029.5838	-0.0166	0.035
20	0	20	0	19	0	19	0	106025.9045	0.0170	0.035
17	4	13	0	16	4	12	0	106267.5018	0.0062	0.035
13	9	4	0	12	9	3	0	106441.9486	0.0094	0.035
14	9	6	0	13	9	5	0	106581.0526	-0.0090	0.035
14	8	6	0	13	8	5	0	106602.4670	-0.0164	0.035
13	12	2	0	12	12	1	0	106708.6316	0.0349	0.035
13	12	1	0	12	12	0	0	107458.2509	0.0379	0.035
18	3	15	0	17	3	14	0	107507.0382	0.0186	0.035
15	8	8	0	14	8	7	0	107771.1312	0.0352	0.035
19	2	17	0	18	2	16	0	108747.1117	0.0069	0.035
16	6	10	0	15	6	9	0	108995.3936	-0.0140	0.035
9	7	2	0	8	6	2	0	81805.9960	0.0256	0.035
9	8	1	0	8	7	1	0	82168.3205	0.0038	0.035
9	6	3	0	8	5	3	0	82204.5960	-0.0095	0.035
9	5	4	0	8	4	4	0	82391.1426	0.0011	0.035
9	6	4	0	8	5	4	0	82404.7684	-0.0154	0.035
9	7	3	0	8	6	3	0	82413.1400	-0.0190	0.035
9	4	5	0	8	3	5	0	82435.4159	-0.0504	0.035
9	5	5	0	8	4	5	0	82435.8767	0.0123	0.035
9	3	6	0	8	2	6	0	82455.3363	0.0644	0.035
9	2	7	0	8	1	7	0	82466.9910	-0.0037	0.035
9	1	8	0	8	0	8	0	82474.6684	-0.0147	0.035
9	8	2	0	8	7	2	0	82725.4848	-0.0120	0.035
9	9	0	0	8	8	0	0	83447.3013	0.0233	0.035

9	9	1	0	8	8	1	0	83565.4031	0.0311	0.035
10	8	2	0	9	7	2	0	90874.2653	-0.0242	0.035
10	7	3	0	9	6	3	0	91239.3881	-0.0017	0.035
10	9	1	0	9	8	1	0	91443.8007	-0.0440	0.035
10	6	4	0	9	5	4	0	91511.4301	0.0327	0.035
10	7	4	0	9	6	4	0	91540.4079	-0.0074	0.035
10	8	3	0	9	7	3	0	91573.5848	-0.0035	0.035
10	5	5	0	9	4	5	0	91577.7317	0.0063	0.035
10	6	5	0	9	5	5	0	91578.8367	0.0052	0.035
10	4	6	0	9	3	6	0	91605.2250	0.0167	0.035
10	3	7	0	9	2	7	0	91621.2386	0.0081	0.035
10	2	8	0	9	1	8	0	91631.6645	-0.0119	0.035
10	9	2	0	9	8	2	0	91974.3105	0.0065	0.035
10	10	0	0	9	9	0	0	92810.5802	0.0129	0.035
10	10	1	0	9	9	1	0	92892.9758	-0.0347	0.035
11	9	2	0	10	8	2	0	99973.0027	0.0449	0.035
11	8	3	0	10	7	3	0	100247.8335	-0.0081	0.035
11	7	4	0	10	6	4	0	100616.2450	0.0635	0.035
11	6	5	0	10	5	5	0	100714.0682	0.0363	0.035
11	7	5	0	10	6	5	0	100716.8037	0.0345	0.035
11	9	3	0	10	8	3	0	100743.1512	0.0348	0.035
11	6	6	0	10	5	6	0	100751.4542	0.0063	0.035
11	3	8	0	10	2	8	0	100786.5358	0.0380	0.035
11	5	7	0	10	4	7	0	100772.7275	0.0419	0.035
11	2	9	0	10	1	9	0	100796.1624	0.0538	0.035
11	1	10	0	10	0	10	0	100803.1564	-0.0193	0.035
11	10	2	0	10	9	2	0	101238.0339	0.0176	0.035
11	11	0	0	10	10	0	0	102170.4087	0.0541	0.035
11	11	1	0	10	10	1	0	102225.9301	0.0363	0.035
12	10	2	0	11	9	2	0	109108.0951	0.0292	0.035
12	9	3	0	11	8	3	0	109240.2017	0.0156	0.035
2	0	2	0	1	0	1	0	12465.2000	-0.1190	0.200*
2	1	2	0	1	1	1	0	12299.0000	0.0932	0.200*
2	1	1	0	1	1	0	0	16086.4000	-0.0772	0.200*
2	1	1	0	1	0	1	0	18158.8000	0.0946	0.200*
2	2	1	0	1	1	1	0	18515.8000	0.2194	0.200*
3	0	3	0	2	0	2	0	17594.7000	-0.2072	0.200*
3	1	3	0	2	1	2	0	17583.4000	0.0098	0.200*
3	1	2	0	2	1	1	0	21764.4000	-0.1537	0.200*
3	2	2	0	2	2	1	0	21289.1000	0.0925	0.200*
3	2	2	0	2	1	2	0	27505.6000	-0.0812	0.200*
3	3	1	0	2	2	1	0	27780.4000	-0.1861	0.200*
3	3	0	0	2	2	0	0	27553.6000	0.2201	0.200*
4	1	3	0	3	1	2	0	26785.5000	-0.0152	0.200*
4	2	3	0	3	2	2	0	26729.3000	0.0042	0.200*
4	3	2	0	3	3	1	0	30191.9000	-0.0102	0.200*
5	1	4	0	5	1	5	0	17821.8000	-0.2071	0.200*
5	0	5	0	4	0	4	0	27993.7700	-0.0195	0.200*
5	1	5	0	4	1	4	0	27993.7700	-0.0022	0.200*
6	1	5	0	6	1	6	0	21784.4000	-0.3099	0.200*
6	0	6	0	5	0	5	0	33196.2400	0.0078	0.200*
7	2	5	0	7	2	6	0	21775.2000	-0.2192	0.200*
8	2	7	0	8	0	8	0	29709.3900	0.2113	0.200*
8	1	7	0	8	1	8	0	29709.3900	0.2113	0.200*
9	3	7	0	9	1	8	0	29701.6800	0.1898	0.200*
9	2	7	0	9	2	8	0	29701.6800	0.1898	0.200*
9	4	5	0	9	4	6	0	21741.9000	0.1424	0.200*
10	4	6	0	10	4	7	0	25711.0600	0.0661	0.200*
11	6	5	0	11	6	6	0	21676.9500	0.1139	0.200*
11	11	1	0	11	9	2	0	17385.0800	-0.1281	0.200*
12	6	6	0	12	6	7	0	25662.0400	0.0861	0.200*
12	12	1	0	12	10	2	0	19839.7600	0.0002	0.200*
13	8	5	0	13	8	6	0	21559.2000	-0.1439	0.200*
13	12	2	0	13	10	3	0	15840.9200	0.1361	0.200*
14	5	9	0	14	5	10	0	37591.6600	0.0491	0.200*
14	13	2	0	14	11	3	0	17715.5400	-0.0590	0.200*
15	7	8	0	15	7	9	0	33583.1000	0.0507	0.200*
15	9	6	0	15	9	7	0	25525.5200	-0.1314	0.200*
15	14	2	0	15	12	3	0	19871.9800	0.0277	0.200*
16	11	6	0	16	9	7	0	25466.5600	0.1302	0.200*
16	15	2	0	16	13	3	0	22281.7300	0.0083	0.200*
17	11	6	0	17	11	7	0	25368.8800	-0.0479	0.200*
17	12	5	0	17	12	6	0	20964.9200	0.1212	0.200*
18	13	6	0	18	11	7	0	25303.7400	0.2209	0.200*
18	12	6	0	18	12	7	0	25260.3500	-0.0080	0.200*
19	13	7	0	19	11	8	0	29349.3000	-0.0947	0.200*
19	12	7	0	19	12	8	0	29345.1600	0.2361	0.200*
19	14	6	0	19	12	7	0	25205.4700	0.1810	0.200*
19	13	6	0	19	13	7	0	25123.8300	0.0521	0.200*
20	15	6	0	20	13	7	0	25098.4100	0.0589	0.200*
20	14	6	0	20	14	7	0	24950.3700	0.0395	0.200*
20	15	5	0	20	15	6	0	19731.9900	-0.1651	0.200*
20	18	3	0	20	16	4	0	24214.7100	0.4256	0.200*
21	15	7	0	21	13	8	0	29171.7000	0.2358	0.200*
21	14	7	0	21	14	8	0	29153.4400	0.0767	0.200*
21	15	6	0	21	15	7	0	24727.8100	0.0021	0.200*
21	16	5	0	21	16	6	0	19045.9200	-0.0134	0.200*
22	15	7	0	22	15	8	0	29028.9800	0.1490	0.200*
22	17	6	0	22	15	7	0	24878.4300	0.0120	0.200*
22	18	5	0	22	16	6	0	21496.8200	-0.0444	0.200*
22	17	5	0	22	17	6	0	18187.1100	-0.3843	0.200*
22	21	2	0	22	20	2	0	22021.4100	0.1149	0.200*
24	19	6	0	24	17	7	0	24717.8700	0.1638	0.200*
25	20	6	0	25	18	7	0	24702.4300	0.1113	0.200*
25	19	6	0	25	19	7	0	22952.4000	-0.0984	0.200*
26	21	6	0	26	19	7	0	24765.1000	0.1389	0.200*
29	22	8	0	29	20	9	0	32344.5500	0.0670	0.200*
30	23	8	0	30	21	9	0	32169.1800	0.0700	0.200*
32	23	9	0	32	23	10	0	36144.2300	0.0391	0.200*
2	1	1	0	2	1	2	0	5681.3660	0.0046	0.010
2	2	1	0	2	0	2	0	6228.7131	0.0143	0.010
3	3	1	0	3	1	2	0	6551.3602	0.0152	0.010
4	4	1	0	4	2	2	0	7038.5067	0.0116	0.010
1	0	1	0	0	0	0	0	7096.3478	-0.0051	0.010
5	5	1	0	5	3	2	0	7730.8462	0.0116	0.010
3	2	1	0	3	2	2	0	5421.4677	0.0077	0.010
4	3	1	0	4	3	2	0	5080.8230	0.0092	0.010
5	4	1	0	5	4	2	0	4666.0787	0.0116	0.010
6	5	1	0	6	5	2	0	4187.5312	0.0060	0.010
7	6	1	0	7	6	2	0	3660.3116	0.0061	0.010
6	6	1	0	6	5	1	0	3705.2414	0.0011	0.010
9	7	2	0	9	7	3	0	7864.5224	0.0153	0.010
5	5	1	0	5	4	1	0	2662.4656	0.0019	0.010

* From: R. S. Lowe and R. Kewley, *J. Mol. Spectrosc.*, 1976, **60**, 312–323.

Table S9: Line list of ν_{42} of THP. Frequencies are in MHz.

J′	K_a′	K_c′	v	J″	K_a″	K_c″	v	Obs.	O – c	Exp. Error
Microwave transitions										
1	0	1	1	0	0	0	1	7081.5099	0.0041	0.010
4	4	1	1	4	2	2	1	7083.4875	0.0059	0.010
3	3	1	1	3	1	2	1	6584.1734	-0.0084	0.010
2	2	1	1	2	0	2	1	6253.9590	-0.0055	0.010
2	1	1	1	2	1	2	1	5695.1821	0.0017	0.010
3	2	1	1	3	2	2	1	5430.0804	-0.0062	0.010
4	3	1	1	4	3	2	1	5082.7699	0.0053	0.010
5	4	1	1	5	4	2	1	4660.1504	-0.0090	0.010
6	5	1	1	6	5	2	1	4173.0591	-0.0037	0.010
Millimeter-wave transitions										
24	2	22	1	24	2	23	1	89398.1354	0.0561	0.035
25	3	22	1	25	3	23	1	89388.7477	0.0330	0.035
26	4	22	1	26	4	23	1	89378.5394	0.0341	0.035
27	5	22	1	27	5	23	1	89367.4168	0.0216	0.035
28	6	22	1	28	6	23	1	89355.3191	-0.0076	0.035
29	7	22	1	29	7	23	1	89342.2139	-0.0258	0.035
30	8	22	1	30	8	23	1	89328.0736	0.0016	0.035
31	9	22	1	31	9	23	1	89312.7325	-0.0260	0.035
32	10	22	1	32	10	23	1	89296.1618	-0.0707	0.035
33	11	22	1	33	11	23	1	89278.3887	-0.0357	0.035
34	12	22	1	34	12	23	1	89259.2153	-0.0473	0.035
35	13	22	1	35	13	23	1	89238.6306	-0.0420	0.035
36	14	22	1	36	14	23	1	89216.5477	-0.0299	0.035
37	15	22	1	37	15	23	1	89192.8478	-0.0507	0.035
38	16	22	1	38	16	23	1	89167.5114	-0.0418	0.035
39	17	22	1	39	17	23	1	89140.4090	-0.0481	0.035
40	18	22	1	40	18	23	1	89111.4902	-0.0326	0.035
41	19	22	1	41	19	23	1	89080.6233	-0.0368	0.035
42	20	22	1	42	20	23	1	89047.7715	-0.0044	0.035
43	21	22	1	43	21	23	1	89012.7431	-0.0309	0.035
44	22	22	1	44	22	23	1	88975.5559	0.0003	0.035
45	23	22	1	45	23	23	1	88936.0098	-0.0078	0.035
46	24	22	1	46	24	23	1	88894.0591	0.0042	0.035
47	25	22	1	47	25	23	1	88849.5887	0.0306	0.035
48	26	22	1	48	26	23	1	88802.4458	0.0315	0.035
49	27	22	1	49	27	23	1	88752.5357	0.0282	0.035
50	28	22	1	50	28	23	1	88699.7559	0.0388	0.035
51	29	22	1	51	29	23	1	88643.9751	0.0561	0.035
52	30	22	1	52	30	23	1	88584.9828	-0.0016	0.035
53	31	22	1	53	31	23	1	88522.7801	-0.0006	0.035
54	32	22	1	54	32	23	1	88457.1342	-0.0361	0.035
55	33	22	1	55	33	23	1	88388.0429	0.0319	0.035
56	34	22	1	56	34	23	1	88315.1039	-0.0515	0.035
57	35	22	1	57	35	23	1	88238.4562	0.0051	0.035
58	36	22	1	58	36	23	1	88157.7132	-0.0266	0.035
59	37	22	1	59	37	23	1	88072.8415	-0.0162	0.035
60	38	22	1	60	38	23	1	87983.6044	-0.0304	0.035
61	39	22	1	61	39	23	1	87889.9117	0.0169	0.035
62	40	22	1	62	40	23	1	87791.3533	-0.1009	0.035
63	41	22	1	63	41	23	1	87688.1103	-0.0127	0.035
64	42	22	1	64	42	23	1	87579.7142	0.0106	0.035
65	43	22	1	65	43	23	1	87466.0602	0.0702	0.035
24	1	23	1	24	1	24	1	93378.8662	0.0043	0.035
25	2	23	1	25	2	24	1	93369.9649	-0.0221	0.035
26	3	23	1	26	3	24	1	93360.3534	0.0002	0.035
27	4	23	1	27	4	24	1	93349.9260	0.0135	0.035
28	5	23	1	28	5	24	1	93338.6101	-0.0051	0.035
29	6	23	1	29	6	24	1	93326.4214	0.0114	0.035
30	7	23	1	30	7	24	1	93313.2563	0.0134	0.035
31	8	23	1	31	8	24	1	93299.0612	0.0028	0.035
32	9	23	1	32	9	24	1	93283.8076	0.0084	0.035
33	10	23	1	33	10	24	1	93267.4136	0.0081	0.035
34	11	23	1	34	11	24	1	93249.8267	0.0112	0.035
35	12	23	1	35	12	24	1	93230.9806	0.0151	0.035
36	13	23	1	36	13	24	1	93210.8059	0.0162	0.035
37	14	23	1	37	14	24	1	93189.2285	0.0087	0.035
38	15	23	1	38	15	24	1	93166.2033	0.0178	0.035
40	17	23	1	40	17	24	1	93115.4649	0.0341	0.035
41	18	23	1	41	18	24	1	93087.5941	0.0362	0.035
42	19	23	1	42	19	24	1	93057.9309	0.0153	0.035
43	20	23	1	43	20	24	1	93026.4637	0.0421	0.035
44	21	23	1	44	21	24	1	92993.0111	0.0206	0.035
45	22	23	1	45	22	24	1	92957.5649	0.0302	0.035
46	23	23	1	46	23	24	1	92919.9675	0.0039	0.035
47	24	23	1	47	24	24	1	92880.2093	0.0259	0.035
48	25	23	1	48	25	24	1	92838.1131	0.0153	0.035
49	26	23	1	49	26	24	1	92793.6202	0.0132	0.035
50	27	23	1	50	27	24	1	92746.6210	0.0132	0.035
51	28	23	1	51	28	24	1	92697.0215	0.0274	0.035
52	29	23	1	52	29	24	1	92644.6849	0.0291	0.035
53	30	23	1	53	30	24	1	92589.4821	0.0027	0.035
54	31	23	1	54	31	24	1	92531.3481	0.0008	0.035
56	33	23	1	56	33	24	1	92405.7391	0.0134	0.035
58	35	23	1	58	35	24	1	92266.7420	-0.0252	0.035
60	37	23	1	60	37	24	1	92113.3615	-0.0128	0.035
61	38	23	1	61	38	24	1	92030.9038	0.0039	0.035
62	39	23	1	62	39	24	1	91944.3801	0.0122	0.035
63	40	23	1	63	40	24	1	91853.6268	0.0098	0.035
64	41	23	1	64	41	24	1	91758.4924	0.0128	0.035
65	42	23	1	65	42	24	1	91658.8183	0.0364	0.035
66	43	23	1	66	43	24	1	91554.3743	0.0313	0.035
67	44	23	1	67	44	24	1	91444.9630	-0.0121	0.035
68	45	23	1	68	45	24	1	91330.5028	0.0199	0.035
69	46	23	1	69	46	24	1	91210.6577	-0.0052	0.035
70	47	23	1	70	47	24	1	91085.2899	-0.0140	0.035
71	48	23	1	71	48	24	1	90954.1662	-0.0192	0.035
26	2	24	1	26	2	25	1	97341.6545	-0.0121	0.035
27	3	24	1	27	3	25	1	97331.7261	-0.0159	0.035
28	4	24	1	28	4	25	1	97321.0412	-0.0069	0.035
29	5	24	1	29	5	25	1	97309.5506	0.0099	0.035
30	6	24	1	30	6	25	1	97297.2139	0.0400	0.035
31	7	24	1	31	7	25	1	97283.9356	0.0357	0.035
32	8	24	1	32	8	25	1	97269.6928	0.0232	0.035
33	9	24	1	33	9	25	1	97254.4753	0.0434	0.035
34	10	24	1	34	10	25	1	97238.1119	-0.0221	0.035
35	11	24	1	35	11	25	1	97220.7473	0.0261	0.035
36	12	24	1	36	12	25	1	97202.1430	0.0060	0.035
37	13	24	1	37	13	25	1	97182.3623	0.0395	0.035
38	14	24	1	38	14	25	1	97161.2617	0.0433	0.035
39	15	24	1	39	15	25	1	97138.8079	0.0463	0.035
40	16	24	1	40	16	25	1	97114.9263	0.0384	0.035
41	17	24	1	41	17	25	1	97089.5609	0.0301	0.035
42	18	24	1	42	18	25	1	97062.6329	0.0111	0.035
43	19	24	1	43	19	25	1	97034.1175	0.0274	0.035
45	21	24	1	45	21	25	1	96971.8593	-0.0042	0.035
46	22	24	1	46	22	25	1	96938.0134	-0.0019	0.035
47	23	24	1	47	23	25	1	96902.2111	-0.0265	0.035
48	24	24	1	48	24	25	1	96864.3987	-0.0483	0.035
49	25	24	1	49	25	25	1	96824.5790	0.0209	0.035
50	26	24	1	50	26	25	1	96782.4731	-0.0088	0.035
51	27	24	1	51	27	25	1	96738.0941	-0.0329	0.035
52	28	24	1	52	28	25	1	96691.3489	-0.0498	0.035
53	29	24	1	53	29	25	1	96642.1297	-0.0694	0.035
54	30	24	1	54	30	25	1	96590.4232	-0.0037	0.035
55	31	24	1	55	31	25	1	96535.9909	0.0132	0.035
27	2	25	1	27	2	26	1	101313.0286	-0.0716	0.035
28	3	25	1	28	3	26	1	101302.8207	-0.0443	0.035
29	4	25	1	29	4	26	1	101291.8187	-0.0807	0.035
31	6	25	1	31	6	26	1	101267.6321	0.0126	0.035
32	7	25	1	32	7	26	1	101254.2227	-0.0003	0.035
33	8	25	1	33	8	26	1	101239.9582	0.0265	0.035
34	9	25	1	34	9	26	1	101224.7122	0.0115	0.035
35	10	25	1	35	10	26	1	101208.5022	0.0188	0.035
36	11	25	1	36	11	26	1	101191.2299	-0.0018	0.035
37	12	25	1	37	12	26	1	101172.8999	0.0037	0.035
38	13	25	1	38	13	26	1	101153.4208	-0.0045	0.035
39	14	25	1	39	14	26	1	101132.7354	-0.0306	0.035
40	15	25	1	40	15	26	1	101110.8295	-0.0340	0.035
41	16	25	1	41	16	26	1	101087.6030	-0.0579	0.035
42	17	25	1	42	17	26	1	101063.0124	-0.0874	0.035
29	2	27	1	29	2	28	1	109255.0845	-0.0426	0.035
30	3	27	1	30	3	28	1	109244.2799	0.0723	0.035
31	4	27	1	31	4	28	1	109232.6515	0.0014	0.035
32	5	27	1	32	5	28	1	109220.4160	-0.0108	0.035
33	6	27	1	33	6	28	1	109207.5321	0.0230	0.035
34	7	27	1	34	7	28	1	109193.9052	0.0381	0.035
35	8	27	1	35	8	28	1	109179.4729	0.0033	0.035
36	9	27	1	36	9	28	1	109164.2761	-0.0082	0.035
37	10	27	1	37	10	28	1	109148.2946	0.0166	0.035
38	11	27	1	38	11	28	1	109131.4048	-0.0110	0.035
39	12	27	1	39	12	28	1	109113.6548	-0.0071	0.035

41	14	27	1	41	14	28	1	109075.3284	-0.0003	0.035
42	15	27	1	42	15	28	1	109054.6712	0.0008	0.035
43	16	27	1	43	16	28	1	109032.9402	-0.0224	0.035
44	17	27	1	44	17	28	1	109010.1546	-0.0078	0.035
45	18	27	1	45	18	28	1	108986.2152	-0.0096	0.035
46	19	27	1	46	19	28	1	108961.0689	-0.0346	0.035
47	20	27	1	47	20	28	1	108934.7288	-0.0213	0.035
48	21	27	1	48	21	28	1	108907.1094	-0.0051	0.035
50	23	27	1	50	23	28	1	108847.8281	0.0413	0.035
51	24	27	1	51	24	28	1	108815.9735	-0.0107	0.035
52	25	27	1	52	25	28	1	108782.6684	-0.0102	0.035
54	27	27	1	54	27	28	1	108711.3533	0.0405	0.035
55	28	27	1	55	28	28	1	108673.1532	0.0299	0.035
56	29	27	1	56	29	28	1	108633.1722	0.0001	0.035
57	30	27	1	57	30	28	1	108591.4183	0.0305	0.035
58	31	27	1	58	31	28	1	108547.7249	0.0291	0.035
59	32	27	1	59	32	28	1	108502.0160	-0.0023	0.035
61	34	27	1	61	34	28	1	108404.3849	0.0052	0.035
62	35	27	1	62	35	28	1	108352.1790	-0.0666	0.035
64	37	27	1	64	37	28	1	108240.8538	-0.0335	0.035
66	39	27	1	66	39	28	1	108119.4484	0.0361	0.035
9	8	1	1	8	8	0	1	75445.1947	0.0101	0.035
10	9	1	1	9	9	0	1	83417.0541	0.0340	0.035
11	10	1	1	10	10	0	1	91345.3946	-0.0035	0.035
12	11	1	1	11	11	0	1	99267.3770	-0.0011	0.035
13	12	1	1	12	12	0	1	107207.3526	-0.0110	0.035
9	7	2	1	8	7	1	1	76540.5780	-0.0043	0.035
10	8	2	1	9	8	1	1	85220.5262	0.0106	0.035
11	9	2	1	10	9	1	1	93719.5377	0.0818	0.035
12	10	2	1	11	10	1	1	102033.1172	-0.0095	0.035
10	7	3	1	9	7	2	1	82864.6906	0.0362	0.035
11	8	3	1	10	8	2	1	92225.2681	-0.0312	0.035
12	9	3	1	11	9	2	1	101473.5571	-0.0164	0.035
10	6	4	1	9	6	3	1	77993.3206	0.0062	0.035
11	7	4	1	10	7	3	1	87371.8012	0.0086	0.035
12	8	4	1	11	8	3	1	96828.0047	0.0179	0.035
11	6	5	1	10	6	4	1	82934.5319	0.0227	0.035
12	7	5	1	11	7	4	1	92158.1433	0.0042	0.035
13	8	5	1	12	8	4	1	101419.5328	0.0367	0.035
11	5	6	1	10	5	5	1	78894.0595	-0.0068	0.035
12	6	6	1	11	6	5	1	88067.2867	-0.0312	0.035
13	7	6	1	12	7	5	1	97248.9937	-0.0307	0.035
11	4	7	1	10	4	6	1	74905.4294	-0.0611	0.035
12	5	7	1	11	5	6	1	84068.6365	-0.0425	0.035
13	6	7	1	12	6	6	1	93235.0913	0.0458	0.035
14	7	7	1	13	7	6	1	102405.6657	0.0265	0.035
12	4	8	1	11	4	7	1	80086.0785	-0.0435	0.035
13	5	8	1	12	5	7	1	89247.2195	0.0085	0.035
14	6	8	1	13	6	7	1	98410.2875	-0.0498	0.035
15	7	8	1	14	7	7	1	107576.0919	-0.0348	0.035
12	3	9	1	11	3	8	1	76108.7921	-0.0083	0.035
13	4	9	1	12	4	8	1	85267.6077	0.0474	0.035
14	5	9	1	13	5	8	1	94427.3165	-0.0078	0.035
15	6	9	1	14	6	8	1	103588.4882	0.0175	0.035
13	3	10	1	12	3	9	1	81291.2309	-0.0415	0.035
14	4	10	1	13	4	9	1	90449.4703	0.0409	0.035
15	5	10	1	14	5	9	1	99608.2978	0.0299	0.035
16	6	10	1	15	6	9	1	108768.0382	-0.0240	0.035
13	2	11	1	12	2	10	1	77316.4501	0.0043	0.035
14	3	11	1	13	3	10	1	86473.8643	0.0022	0.035
15	4	11	1	14	4	10	1	95631.5243	-0.0266	0.035
16	5	11	1	15	5	10	1	104789.6092	-0.0848	0.035
14	2	12	1	13	2	11	1	82499.4010	0.0295	0.035
15	3	12	1	14	3	11	1	91656.5255	-0.0019	0.035
16	4	12	1	15	4	11	1	100813.8288	-0.0011	0.035
14	1	13	1	13	1	12	1	78525.3759	0.0190	0.035
15	2	13	1	14	2	12	1	87682.3473	0.0225	0.035
16	3	13	1	15	3	12	1	96839.2624	0.0173	0.035
17	4	13	1	16	4	12	1	105996.2140	0.0013	0.035
15	1	14	1	14	1	13	1	83708.5276	0.0330	0.035
16	2	14	1	15	2	13	1	92865.3049	0.0026	0.035
17	3	14	1	16	3	13	1	102022.0117	0.0101	0.035
15	0	15	1	14	0	14	1	79734.7901	-0.0044	0.035
16	1	15	1	15	1	14	1	88891.6486	-0.0050	0.035
17	2	15	1	16	2	14	1	98048.3182	0.0163	0.035
18	3	15	1	17	3	14	1	107204.7793	-0.0097	0.035
16	0	16	1	15	0	15	1	84918.0659	-0.0337	0.035
17	1	16	1	16	1	15	1	94074.8533	0.0186	0.035
18	2	16	1	17	2	15	1	103231.3429	0.0200	0.035
17	0	17	1	16	0	16	1	90101.3992	-0.0316	0.035
18	1	17	1	17	1	16	1	99258.0574	0.0191	0.035
19	2	17	1	18	2	16	1	108414.3652	0.0008	0.035
18	0	18	1	17	0	17	1	95284.7456	-0.0430	0.035
19	1	18	1	18	1	17	1	104441.2499	-0.0144	0.035
19	0	19	1	18	0	18	1	100468.1990	0.0258	0.035
20	0	20	1	19	0	19	1	105651.5954	0.0107	0.035
9	9	0	1	8	8	0	1	83414.2678	0.0318	0.035
10	9	1	1	9	8	1	1	91386.0445	-0.0270	0.035
11	10	1	1	10	9	1	1	100703.1523	0.0513	0.035
9	7	2	1	8	6	2	1	81729.3465	-0.0463	0.035
10	8	2	1	9	7	2	1	90791.2636	-0.0396	0.035
11	9	2	1	10	8	2	1	99885.0311	0.0191	0.035
12	10	2	1	11	9	2	1	109016.7803	0.0085	0.035
9	6	3	1	8	5	3	1	82132.1815	-0.0567	0.035
10	7	3	1	9	6	3	1	91155.2806	-0.0363	0.035
11	8	3	1	10	7	3	1	100151.9590	0.0107	0.035
12	9	3	1	11	8	3	1	109133.2909	0.0047	0.035
9	5	4	1	8	4	4	1	82326.9059	-0.0295	0.035
10	6	4	1	9	5	4	1	91438.4980	-0.0024	0.035
11	7	4	1	10	6	4	1	100533.8182	0.0229	0.035
11	6	5	1	10	5	5	1	100636.3591	0.0089	0.035
9	3	6	1	8	2	6	1	82393.7662	0.0071	0.035
10	4	6	1	9	3	6	1	91536.3815	-0.0533	0.035
11	5	6	1	10	4	6	1	100675.2771	0.0765	0.035
9	2	7	1	8	1	7	1	82405.8931	-0.0165	0.035
11	4	7	1	10	3	7	1	100697.3372	0.0242	0.035

Table S10: Line list of ν_{23} of THP. Transitions in the mmw range are in MHz and transitions in the far-infrared domain are in cm^{-1}.

J′	K_a′	K_c′	v	J″	K_a″	K_c″	v	Obs.	o – c	Exp. Error
Millimeter-wave transitions										
21	2	19	1	21	2	20	1	76822.5003	-0.0490	0.035
22	3	19	1	22	3	20	1	76814.5022	0.0293	0.035
23	4	19	1	23	4	20	1	76805.5007	0.0135	0.035
24	5	19	1	24	5	20	1	76795.6152	0.0958	0.035
25	6	19	1	25	6	20	1	76784.5454	0.0519	0.035
26	7	19	1	26	7	20	1	76772.3381	0.0081	0.035
27	8	19	1	27	8	20	1	76758.9919	0.0459	0.035
28	9	19	1	28	9	20	1	76744.2566	0.0013	0.035
29	10	19	1	29	10	20	1	76728.2081	0.0403	0.035
30	11	19	1	30	11	20	1	76710.6297	0.0395	0.035
32	13	19	1	32	13	20	1	76670.5777	0.0059	0.035
23	3	20	1	23	3	21	1	80754.8343	-0.0323	0.035
24	4	20	1	24	4	21	1	80745.7079	-0.0544	0.035
25	5	20	1	25	5	21	1	80735.7078	-0.0149	0.035
26	6	20	1	26	6	21	1	80724.6579	-0.0214	0.035
27	7	20	1	27	7	21	1	80712.5896	0.0288	0.035
28	8	20	1	28	8	21	1	80699.3640	0.0715	0.035
30	10	20	1	30	10	21	1	80668.9970	0.0028	0.035
31	11	20	1	31	11	21	1	80651.8050	0.0049	0.035
32	12	20	1	32	12	21	1	80633.2169	0.0889	0.035
33	13	20	1	33	13	21	1	80612.9519	0.0638	0.035
24	3	21	1	24	3	22	1	84695.2918	-0.0080	0.035
25	4	21	1	25	4	22	1	84686.0409	-0.0091	0.035
26	5	21	1	26	5	22	1	84675.8798	-0.0251	0.035
27	6	21	1	27	6	22	1	84664.7826	-0.0199	0.035
28	7	21	1	28	7	22	1	84652.6287	-0.0492	0.035
29	8	21	1	29	8	22	1	84639.4386	-0.0252	0.035
30	9	21	1	30	9	22	1	84625.0852	-0.0051	0.035
31	10	21	1	31	10	22	1	84609.4845	-0.0003	0.035
32	11	21	1	32	11	22	1	84592.5900	0.0180	0.035
33	12	21	1	33	12	22	1	84574.3295	0.0557	0.035
34	13	21	1	34	13	22	1	84554.5829	0.0735	0.035
25	3	22	1	25	3	23	1	88635.8002	0.0216	0.035
26	4	22	1	26	4	23	1	88626.3527	-0.0050	0.035
27	5	22	1	27	5	23	1	88616.0548	-0.0211	0.035
28	6	22	1	28	6	23	1	88604.8572	-0.0191	0.035
29	7	22	1	29	7	23	1	88592.6975	-0.0024	0.035
30	8	22	1	30	8	23	1	88579.4206	-0.0645	0.035
31	9	22	1	31	9	23	1	88565.1138	-0.0546	0.035
32	10	22	1	32	10	23	1	88549.6159	-0.0680	0.035
33	11	22	1	33	11	23	1	88532.9105	-0.0528	0.035
34	12	22	1	34	12	23	1	88514.9021	-0.0338	0.035
35	13	22	1	35	13	23	1	88495.5135	-0.0150	0.035
36	14	22	1	36	14	23	1	88474.6265	-0.0390	0.035
37	15	22	1	37	15	23	1	88452.2384	-0.0302	0.035
38	16	22	1	38	16	23	1	88428.2476	-0.0095	0.035
39	17	22	1	39	17	23	1	88402.5303	-0.0172	0.035
40	18	22	1	40	18	23	1	88375.0392	-0.0142	0.035
41	19	22	1	41	19	23	1	88345.6853	-0.0004	0.035
42	20	22	1	42	20	23	1	88314.3706	0.0181	0.035
43	21	22	1	43	21	23	1	88280.9718	0.0135	0.035
44	22	22	1	44	22	23	1	88245.4047	-0.0001	0.035
45	23	22	1	45	23	23	1	88207.6217	0.0311	0.035
46	24	22	1	46	24	23	1	88167.4081	-0.0022	0.035
48	26	22	1	48	26	23	1	88079.5125	-0.0011	0.035
49	27	22	1	49	27	23	1	88031.5593	-0.0088	0.035
50	28	22	1	50	28	23	1	87980.7839	-0.0145	0.035
51	29	22	1	51	29	23	1	87927.0619	-0.0177	0.035
54	32	22	1	54	32	23	1	87746.9176	0.0111	0.035
55	33	22	1	55	33	23	1	87680.0394	-0.0038	0.035
56	34	22	1	56	34	23	1	87609.5182	-0.0120	0.035
57	35	22	1	57	35	23	1	87535.1921	-0.0174	0.035
58	36	22	1	58	36	23	1	87456.9295	0.0128	0.035
59	37	22	1	59	37	23	1	87374.5062	0.0261	0.035
60	38	22	1	60	38	23	1	87287.6943	-0.0254	0.035
61	39	22	1	61	39	23	1	87196.4493	0.0011	0.035
62	40	22	1	62	40	23	1	87100.4671	-0.0006	0.035
26	1	25	1	26	1	26	1	100475.5323	0.0142	0.035
27	2	25	1	27	2	26	1	100466.9380	0.0530	0.035
28	3	25	1	28	3	26	1	100457.5645	0.0162	0.035
29	4	25	1	29	4	26	1	100447.4873	0.0215	0.035
30	5	25	1	30	5	26	1	100436.5946	0.0007	0.035
31	6	25	1	31	6	26	1	100424.8791	-0.0080	0.035
32	7	25	1	32	7	26	1	100412.2745	-0.0242	0.035
33	8	25	1	33	8	26	1	100398.7574	-0.0227	0.035
34	9	25	1	34	9	26	1	100384.2733	-0.0079	0.035
35	10	25	1	35	10	26	1	100368.7293	-0.0208	0.035
36	11	25	1	36	11	26	1	100352.1117	-0.0219	0.035
37	12	25	1	37	12	26	1	100334.3642	-0.0122	0.035
38	13	25	1	38	13	26	1	100315.4202	-0.0016	0.035
39	14	25	1	39	14	26	1	100295.1970	-0.0143	0.035
40	15	25	1	40	15	26	1	100273.6796	-0.0050	0.035
41	16	25	1	41	16	26	1	100250.7131	-0.0667	0.035
42	17	25	1	42	17	26	1	100226.4181	-0.0148	0.035
43	18	25	1	43	18	26	1	100200.5291	-0.0492	0.035
44	19	25	1	44	19	26	1	100173.1393	-0.0092	0.035
45	20	25	1	45	20	26	1	100144.0617	-0.0124	0.035
46	21	25	1	46	21	26	1	100113.2547	-0.0287	0.035
48	23	25	1	48	23	26	1	100046.2646	0.0063	0.035
49	24	25	1	49	24	26	1	100009.8666	-0.0039	0.035
50	25	25	1	50	25	26	1	99971.4306	-0.0296	0.035
51	26	25	1	51	26	26	1	99930.8841	-0.0614	0.035
52	27	25	1	52	27	26	1	99888.1743	-0.0673	0.035
53	28	25	1	53	28	26	1	99843.1719	-0.0901	0.035
27	1	26	1	27	1	27	1	104416.7887	-0.0296	0.035
28	2	26	1	28	2	27	1	104407.8852	-0.0099	0.035
29	3	26	1	29	3	27	1	104398.3018	0.0253	0.035
31	5	26	1	31	5	27	1	104376.7916	0.0005	0.035
32	6	26	1	32	6	27	1	104364.8930	0.0528	0.035
33	7	26	1	33	7	27	1	104352.0275	0.0024	0.035
34	8	26	1	34	8	27	1	104338.3399	0.0397	0.035
35	9	26	1	35	9	27	1	104323.6492	0.0310	0.035
36	10	26	1	36	10	27	1	104307.9376	0.0075	0.035
37	11	26	1	37	11	27	1	104291.1993	0.0132	0.035
38	12	26	1	38	12	27	1	104273.3561	0.0220	0.035
39	13	26	1	39	13	27	1	104254.3555	0.0345	0.035
40	14	26	1	40	14	27	1	104234.1146	0.0227	0.035
41	15	26	1	41	15	27	1	104212.6044	0.0138	0.035
43	17	26	1	43	17	27	1	104165.5548	0.0168	0.035
44	18	26	1	44	18	27	1	104139.8964	0.0302	0.035
45	19	26	1	45	19	27	1	104112.7057	0.0249	0.035
46	20	26	1	46	20	27	1	104083.9533	0.0355	0.035
47	21	26	1	47	21	27	1	104053.5360	0.0251	0.035
48	22	26	1	48	22	27	1	104021.4409	0.0486	0.035
49	23	26	1	49	23	27	1	103987.5418	0.0490	0.035
50	24	26	1	50	24	27	1	103951.7281	-0.0128	0.035
51	25	26	1	51	25	27	1	103914.0913	0.0275	0.035
53	27	26	1	53	27	27	1	103832.6340	0.0023	0.035
54	28	26	1	54	28	27	1	103788.7456	0.0246	0.035
55	29	26	1	55	29	27	1	103742.5943	0.0207	0.035
56	30	26	1	56	30	27	1	103694.1200	0.0136	0.035
59	33	26	1	59	33	27	1	103533.9025	-0.0196	0.035
60	34	26	1	60	34	27	1	103475.3320	0.0316	0.035
61	35	26	1	61	35	27	1	103413.9316	0.0228	0.035
63	37	26	1	63	37	27	1	103282.4413	0.0192	0.035
64	38	26	1	64	38	27	1	103212.1655	0.0435	0.035
65	39	26	1	65	39	27	1	103138.7089	0.0664	0.035
66	40	26	1	66	40	27	1	103061.9090	0.0369	0.035
67	41	26	1	67	41	27	1	102981.6645	-0.0318	0.035
68	42	26	1	68	42	27	1	102898.0367	0.0406	0.035
69	43	26	1	69	43	27	1	102810.6191	-0.0287	0.035
70	44	26	1	70	44	27	1	102719.4678	-0.0552	0.035
71	45	26	1	71	45	27	1	102624.4861	-0.0018	0.035
29	2	27	1	29	2	28	1	108349.0310	0.0158	0.035
30	3	27	1	30	3	28	1	108339.0920	-0.0028	0.035
31	4	27	1	31	4	28	1	108328.4370	-0.0053	0.035
32	5	27	1	32	5	28	1	108316.9449	-0.0727	0.035
33	6	27	1	33	6	28	1	108304.7676	-0.0122	0.035
34	7	27	1	34	7	28	1	108291.6751	-0.0109	0.035
35	8	27	1	35	8	28	1	108277.7165	0.0240	0.035
36	9	27	1	36	9	28	1	108262.7654	0.0115	0.035
37	10	27	1	37	10	28	1	108246.8594	0.0359	0.035
38	11	27	1	38	11	28	1	108229.8642	0.0108	0.035
39	12	27	1	39	12	28	1	108211.8024	0.0082	0.035
40	13	27	1	40	13	28	1	108192.6160	0.0208	0.035
41	14	27	1	41	14	28	1	108172.2063	0.0021	0.035
42	15	27	1	42	15	28	1	108150.5255	-0.0422	0.035
43	16	27	1	43	16	28	1	108127.6615	0.0303	0.035
44	17	27	1	44	17	28	1	108103.3399	0.0018	0.035
45	18	27	1	45	18	28	1	108077.6335	0.0026	0.035

46	19	27	1	46	19	28	1	108050.4535	0.0029	0.035
47	20	27	1	47	20	28	1	108021.7162	-0.0204	0.035
48	21	27	1	48	21	28	1	107991.4417	0.0141	0.035
49	22	27	1	49	22	28	1	107959.4161	-0.0437	0.035
50	23	27	1	50	23	28	1	107925.7544	-0.0146	0.035
51	24	27	1	51	24	28	1	107890.2839	-0.0050	0.035
52	25	27	1	52	25	28	1	107852.9343	-0.0178	0.035
53	26	27	1	53	26	28	1	107813.6502	-0.0393	0.035
54	27	27	1	54	27	28	1	107772.4123	-0.0184	0.035
55	28	27	1	55	28	28	1	107729.0875	-0.0162	0.035
56	29	27	1	56	29	28	1	107683.6343	-0.0008	0.035
57	30	27	1	57	30	28	1	107635.9489	-0.0008	0.035
58	31	27	1	58	31	28	1	107585.9713	0.0004	0.035
59	32	27	1	59	32	28	1	107533.6105	-0.0094	0.035
60	33	27	1	60	33	28	1	107478.8188	0.0017	0.035
61	34	27	1	61	34	28	1	107421.4827	0.0024	0.035
62	35	27	1	62	35	28	1	107361.5246	-0.0010	0.035
63	36	27	1	63	36	28	1	107298.8647	-0.0029	0.035
64	37	27	1	64	37	28	1	107233.4246	0.0063	0.035
65	38	27	1	65	38	28	1	107165.0889	0.0015	0.035
66	39	27	1	66	39	28	1	107093.7857	0.0030	0.035
67	40	27	1	67	40	28	1	107019.4171	0.0080	0.035
69	42	27	1	69	42	28	1	106861.0680	0.0063	0.035
70	43	27	1	70	43	28	1	106776.9033	0.0198	0.035
71	44	27	1	71	44	28	1	106689.2191	-0.0076	0.035
72	45	27	1	72	45	28	1	106597.9885	0.0079	0.035
73	46	27	1	73	46	28	1	106503.0130	-0.0164	0.035
74	47	27	1	74	47	28	1	106404.2386	-0.0146	0.035
75	48	27	1	75	48	28	1	106301.4877	-0.0392	0.035
76	49	27	1	76	49	28	1	106194.6907	-0.0288	0.035
78	51	27	1	78	51	28	1	105968.3269	0.0215	0.035
79	52	27	1	79	52	28	1	105848.4304	0.0282	0.035
11	10	1	1	10	10	0	1	91711.2764	-0.0218	0.035
12	11	1	1	11	11	0	1	99666.4391	0.0262	0.035
13	12	1	1	12	12	0	1	107633.6729	0.0381	0.035
10	8	2	1	9	8	1	1	85400.0426	0.0441	0.035
12	10	2	1	11	10	1	1	102342.8616	-0.0322	0.035
10	7	3	1	9	7	2	1	82890.2703	0.0928	0.035
12	9	3	1	11	9	2	1	101543.8582	0.0000	0.035
10	6	4	1	9	6	3	1	78071.5115	-0.0099	0.035
11	7	4	1	10	7	3	1	87427.3675	0.0064	0.035
12	8	4	1	11	8	3	1	96857.1451	-0.0439	0.035
13	9	4	1	12	9	3	1	106355.3711	-0.0012	0.035
11	6	5	1	10	6	4	1	83072.8800	0.0048	0.035
12	7	5	1	11	7	4	1	92287.4493	0.0026	0.035
13	8	5	1	12	8	4	1	101534.8058	0.0191	0.035
11	5	6	1	10	5	5	1	79075.1519	0.0009	0.035
13	7	6	1	12	7	5	1	97424.2993	0.0404	0.035
14	8	6	1	13	8	5	1	106612.9233	-0.0154	0.035
11	4	7	1	10	4	6	1	75122.5046	-0.0182	0.035
12	5	7	1	11	5	6	1	84284.3873	-0.0615	0.035
12	4	8	1	11	4	7	1	80337.0941	0.0036	0.035
13	5	8	1	12	5	7	1	89497.0934	-0.0236	0.035
14	6	8	1	13	6	7	1	98658.9448	-0.0165	0.035
15	7	8	1	14	7	7	1	107823.1901	0.0055	0.035
12	3	9	1	11	3	8	1	76394.3712	0.0227	0.035
13	4	9	1	12	4	8	1	85552.2780	-0.0064	0.035
14	5	9	1	13	5	8	1	94711.0832	-0.0230	0.035
15	6	9	1	14	6	8	1	103871.1884	0.0345	0.035
13	3	10	1	12	3	9	1	81610.3683	-0.0005	0.035
14	4	10	1	13	4	9	1	90767.7220	-0.0324	0.035
15	5	10	1	14	5	9	1	99925.7744	0.0414	0.035
16	6	10	1	15	6	9	1	109084.5635	0.0120	0.035
13	2	11	1	12	2	10	1	77669.6234	-0.0106	0.035
14	3	11	1	13	3	10	1	86826.3343	-0.0342	0.035
15	4	11	1	14	4	10	1	95983.3630	0.0362	0.035
16	5	11	1	15	5	10	1	105140.7082	0.0364	0.035
14	2	12	1	13	2	11	1	82885.8068	0.0061	0.035
15	3	12	1	14	3	11	1	92042.2779	-0.0192	0.035
16	4	12	1	15	4	11	1	101198.8862	-0.0168	0.035
14	1	13	1	13	1	12	1	78945.4909	-0.0021	0.035
15	2	13	1	14	2	12	1	88101.8113	-0.0281	0.035
16	3	13	1	15	3	12	1	97258.1161	-0.0045	0.035
17	4	13	1	16	4	12	1	106414.4182	-0.0039	0.035
14	0	14	1	13	0	13	1	75005.1501	-0.0105	0.035
15	1	14	1	14	1	13	1	84161.5366	0.0007	0.035
16	2	14	1	15	2	13	1	93317.7195	-0.0150	0.035
17	3	14	1	16	3	13	1	102473.8029	-0.0114	0.035
15	0	15	1	14	0	14	1	80221.1382	-0.0217	0.035
16	1	15	1	15	1	14	1	89377.4363	0.0153	0.035
17	2	15	1	16	2	14	1	98533.4689	-0.0031	0.035
18	3	15	1	17	3	14	1	107689.3971	0.0384	0.035
16	0	16	1	15	0	15	1	85437.0114	0.0157	0.035
17	1	16	1	16	1	15	1	94593.1078	-0.0296	0.035
18	2	16	1	17	2	15	1	103749.0720	0.0327	0.035
17	0	17	1	16	0	16	1	90652.6345	-0.0230	0.035
18	1	17	1	17	1	16	1	99808.7265	0.0518	0.035
19	2	17	1	18	2	16	1	108964.4327	0.0078	0.035
18	0	18	1	17	0	17	1	95868.1686	0.0332	0.035
19	1	18	1	18	1	17	1	105024.0327	0.0101	0.035
19	0	19	1	18	0	18	1	101083.4383	0.0189	0.035
20	0	20	1	19	0	19	1	106298.5291	0.0290	0.035
10	10	0	1	9	9	0	1	92685.4064	0.0705	0.035
11	11	0	1	10	10	0	1	102031.5873	0.0303	0.035
9	8	1	1	8	7	1	1	82096.5721	-0.0903	0.035
10	9	1	1	9	8	1	1	91355.3315	-0.0342	0.035
11	10	1	1	10	9	1	1	100654.3412	0.0174	0.035
9	7	2	1	8	6	2	1	81765.6737	0.0085	0.035
10	8	2	1	9	7	2	1	90826.2324	-0.0869	0.035
11	9	2	1	10	8	2	1	99915.0257	0.0145	0.035
12	10	2	1	11	9	2	1	109037.5873	0.0134	0.035
9	5	4	1	8	4	4	1	82330.2252	-0.0024	0.035
10	6	4	1	9	5	4	1	91446.1093	-0.0447	0.035
11	7	4	1	10	6	4	1	100547.8832	0.0294	0.035
Rovibrational infrared transitions										
7	0	7	1	8	0	8	0	248.69788	0.00028	0.0002
8	0	8	1	9	0	9	0	248.52757	-0.00001	0.0002
9	0	9	1	10	0	10	0	248.35799	-0.00004	0.0002
10	0	10	1	11	0	11	0	248.18903	0.00005	0.0002
11	0	11	1	12	0	12	0	248.02055	0.00016	0.0002
12	0	12	1	13	0	13	0	247.85237	0.00010	0.0002
13	0	13	1	14	0	14	0	247.68468	0.00004	0.0002
14	0	14	1	15	0	15	0	247.51753	0.00005	0.0002
15	0	15	1	16	0	16	0	247.35073	-0.00005	0.0002
16	0	16	1	17	0	17	0	247.18451	-0.00002	0.0002
17	0	17	1	18	0	18	0	247.01874	-0.00002	0.0002
18	0	18	1	19	0	19	0	246.85336	-0.00009	0.0002
19	0	19	1	20	0	20	0	246.68859	0.00000	0.0002
20	0	20	1	21	0	21	0	246.52429	0.00012	0.0002
21	0	21	1	22	0	22	0	246.36025	0.00005	0.0002
22	0	22	1	23	0	23	0	246.19664	-0.00004	0.0002
23	0	23	1	24	0	24	0	246.03322	-0.00037	0.0002
25	0	25	1	26	0	26	0	245.70868	-0.00004	0.0002
28	0	28	1	29	0	29	0	245.22458	0.00000	0.0002
29	0	29	1	30	0	30	0	245.06404	0.00001	0.0002
30	0	30	1	31	0	31	0	244.90360	-0.00027	0.0002
31	0	31	1	32	0	32	0	244.74413	0.00001	0.0002
32	0	32	1	33	0	33	0	244.58479	0.00002	0.0002
33	0	33	1	34	0	34	0	244.42588	0.00009	0.0002
34	0	34	1	35	0	35	0	244.26736	0.00016	0.0002
35	0	35	1	36	0	36	0	244.10951	0.00052	0.0002
12	1	11	1	13	1	12	0	247.71194	0.00018	0.0002
13	1	12	1	14	1	13	0	247.54363	0.00022	0.0002
14	1	13	1	15	1	14	0	247.37547	-0.00006	0.0002
15	1	14	1	16	1	15	0	247.20829	0.00017	0.0002
16	1	15	1	17	1	16	0	247.04135	0.00017	0.0002
17	1	16	1	18	1	17	0	246.87468	-0.00002	0.0002
18	1	17	1	19	1	18	0	246.70861	-0.00007	0.0002
19	1	18	1	20	1	19	0	246.54298	-0.00014	0.0002
20	1	19	1	21	1	20	0	246.37797	-0.00005	0.0002
21	1	20	1	22	1	21	0	246.21331	-0.00006	0.0002
22	1	21	1	23	1	22	0	246.04951	0.00034	0.0002
23	1	22	1	24	1	23	0	245.88531	-0.00009	0.0002
24	1	23	1	25	1	24	0	245.72181	-0.00026	0.0002
25	1	24	1	26	1	25	0	245.55926	0.00007	0.0002
26	1	25	1	27	1	26	0	245.39663	-0.00010	0.0002
27	1	26	1	28	1	27	0	245.23469	0.00000	0.0002
28	1	27	1	29	1	28	0	245.07324	0.00016	0.0002
30	1	29	1	31	1	30	0	244.75112	0.00001	0.0002
31	1	30	1	32	1	31	0	244.59092	0.00019	0.0002
32	1	31	1	33	1	32	0	244.43083	0.00007	0.0002
33	1	32	1	34	1	33	0	244.27126	0.00008	0.0002
34	1	33	1	35	1	34	0	244.11213	0.00014	0.0002
35	1	34	1	36	1	35	0	243.95338	0.00020	0.0002
37	1	36	1	38	1	37	0	243.63658	-0.00008	0.0002
11	2	9	1	12	2	10	0	247.74162	0.00011	0.0002

12	2	10	1	13	2	11	0	247.57193	-0.00004	0.0002
13	2	11	1	14	2	12	0	247.40297	0.00007	0.0002
14	2	12	1	15	2	13	0	247.23436	0.00005	0.0002
15	2	13	1	16	2	14	0	247.06616	-0.00002	0.0002
16	2	14	1	17	2	15	0	246.89862	0.00008	0.0002
17	2	15	1	18	2	16	0	246.73146	0.00010	0.0002
18	2	16	1	19	2	17	0	246.56472	0.00008	0.0002
19	2	17	1	20	2	18	0	246.39822	-0.00016	0.0002
20	2	18	1	21	2	19	0	246.23270	0.00012	0.0002
21	2	19	1	22	2	20	0	246.06693	-0.00031	0.0002
22	2	20	1	23	2	21	0	245.90231	-0.00003	0.0002
23	2	21	1	24	2	22	0	245.73783	-0.00008	0.0002
24	2	22	1	25	2	23	0	245.57375	-0.00016	0.0002
25	2	23	1	26	2	24	0	245.41037	0.00003	0.0002
27	2	25	1	28	2	26	0	245.08420	-0.00032	0.0002
28	2	26	1	29	2	27	0	244.92223	-0.00003	0.0002
29	2	27	1	30	2	28	0	244.76044	0.00002	0.0002
30	2	28	1	31	2	29	0	244.59907	0.00007	0.0002
31	2	29	1	32	2	30	0	244.43794	-0.00005	0.0002
32	2	30	1	33	2	31	0	244.27755	0.00015	0.0002
33	2	31	1	34	2	32	0	244.11725	0.00005	0.0002
35	2	33	1	36	2	34	0	243.79816	0.00013	0.0002
36	2	34	1	37	2	35	0	243.63925	0.00022	0.0002
13	3	10	1	14	3	11	0	247.26305	-0.00007	0.0002
14	3	11	1	15	3	12	0	247.09396	0.00015	0.0002
15	3	12	1	16	3	13	0	246.92509	0.00011	0.0002
16	3	13	1	17	3	14	0	246.75675	0.00014	0.0002
17	3	14	1	18	3	15	0	246.58878	0.00006	0.0002
18	3	15	1	19	3	16	0	246.42119	-0.00011	0.0002
19	3	16	1	20	3	17	0	246.25444	0.00010	0.0002
20	3	17	1	21	3	18	0	246.08787	0.00001	0.0002
21	3	18	1	22	3	19	0	245.92202	0.00021	0.0002
22	3	19	1	23	3	20	0	245.75610	-0.00014	0.0002
23	3	20	1	24	3	21	0	245.59103	-0.00008	0.0002
24	3	21	1	25	3	22	0	245.42652	0.00010	0.0002
25	3	22	1	26	3	23	0	245.26236	0.00016	0.0002
26	3	23	1	27	3	24	0	245.09830	-0.00010	0.0002
29	3	26	1	30	3	27	0	244.60949	-0.00013	0.0002
30	3	27	1	31	3	28	0	244.44755	0.00000	0.0002
31	3	28	1	32	3	29	0	244.28595	0.00004	0.0002
32	3	29	1	33	3	30	0	244.12462	-0.00006	0.0002
33	3	30	1	34	3	31	0	243.96392	0.00005	0.0002
34	3	31	1	35	3	32	0	243.80375	0.00027	0.0002
35	3	32	1	36	3	33	0	243.64343	-0.00007	0.0002
36	3	33	1	37	3	34	0	243.48414	0.00022	0.0002
38	3	35	1	39	3	36	0	243.16598	0.00003	0.0002
39	3	36	1	40	3	37	0	243.00757	0.00004	0.0002
13	4	9	1	14	4	10	0	247.12418	0.00014	0.0002
16	4	12	1	17	4	13	0	246.61544	0.00003	0.0002
17	4	13	1	18	4	14	0	246.44680	-0.00002	0.0002
18	4	14	1	19	4	15	0	246.27880	0.00011	0.0002
20	4	16	1	21	4	17	0	245.94385	0.00001	0.0002
21	4	17	1	22	4	18	0	245.77702	-0.00009	0.0002
22	4	18	1	23	4	19	0	245.61085	0.00001	0.0002
24	4	20	1	25	4	21	0	245.27993	0.00028	0.0002
25	4	21	1	26	4	22	0	245.11486	0.00012	0.0002
26	4	22	1	27	4	23	0	244.95014	-0.00013	0.0002
27	4	23	1	28	4	24	0	244.78629	0.00004	0.0002
28	4	24	1	29	4	25	0	244.62281	0.00015	0.0002
29	4	25	1	30	4	26	0	244.45960	0.00009	0.0002
30	4	26	1	31	4	27	0	244.29669	-0.00009	0.0002
31	4	27	1	32	4	28	0	244.13451	0.00002	0.0002
32	4	28	1	33	4	29	0	243.97259	-0.00003	0.0002
33	4	29	1	34	4	30	0	243.81106	-0.00013	0.0002
34	4	30	1	35	4	31	0	243.64999	-0.00019	0.0002
35	4	31	1	36	4	32	0	243.48970	0.00012	0.0002
36	4	32	1	37	4	33	0	243.32943	0.00002	0.0002
37	4	33	1	38	4	34	0	243.16976	0.00009	0.0002
10	5	5	1	11	5	6	0	247.50088	0.00043	0.0002
11	5	6	1	12	5	7	0	247.32848	0.00002	0.0002
12	5	7	1	13	5	8	0	247.15694	0.00011	0.0002
13	5	8	1	14	5	9	0	246.98570	0.00003	0.0002
14	5	9	1	15	5	10	0	246.81480	-0.00015	0.0002
15	5	10	1	16	5	11	0	246.64467	-0.00003	0.0002
16	5	11	1	17	5	12	0	246.47490	-0.00003	0.0002
17	5	12	1	18	5	13	0	246.30570	0.00008	0.0002
18	5	13	1	19	5	14	0	246.13691	0.00012	0.0002
19	5	14	1	20	5	15	0	245.96858	0.00015	0.0002
20	5	15	1	21	5	16	0	245.80055	0.00002	0.0002
21	5	16	1	22	5	17	0	245.63302	-0.00008	0.0002
22	5	17	1	23	5	18	0	245.46594	-0.00019	0.0002
23	5	18	1	24	5	19	0	245.29999	0.00036	0.0002
24	5	19	1	25	5	20	0	245.13336	-0.00022	0.0002
26	5	21	1	27	5	22	0	244.80283	-0.00001	0.0002
27	5	22	1	28	5	23	0	244.63828	0.00014	0.0002
28	5	23	1	29	5	24	0	244.47390	0.00002	0.0002
29	5	24	1	30	5	25	0	244.31003	-0.00003	0.0002
30	5	25	1	31	5	26	0	244.14657	-0.00012	0.0002
31	5	26	1	32	5	27	0	243.98376	0.00002	0.0002
32	5	27	1	33	5	28	0	243.82129	0.00006	0.0002
33	5	28	1	34	5	29	0	243.65921	0.00006	0.0002
34	5	29	1	35	5	30	0	243.49742	-0.00008	0.0002
35	5	30	1	36	5	31	0	243.33601	-0.00028	0.0002
36	5	31	1	37	5	32	0	243.17560	0.00009	0.0002
37	5	32	1	38	5	33	0	243.01526	0.00009	0.0002
38	5	33	1	39	5	34	0	242.85535	0.00008	0.0002
39	5	34	1	40	5	35	0	242.69571	-0.00010	0.0002
13	6	7	1	14	6	8	0	246.84808	0.00018	0.0002
14	6	8	1	15	6	9	0	246.67678	0.00026	0.0002
15	6	9	1	16	6	10	0	246.50548	-0.00012	0.0002
16	6	10	1	17	6	11	0	246.33503	-0.00011	0.0002
17	6	11	1	18	6	12	0	246.16486	-0.00028	0.0002
18	6	12	1	19	6	13	0	245.99577	0.00017	0.0002
20	6	14	1	21	6	15	0	245.65797	0.00003	0.0002
21	6	15	1	22	6	16	0	245.48989	0.00007	0.0002
23	6	17	1	24	6	18	0	245.15495	0.00000	0.0002
25	6	19	1	26	6	20	0	244.82190	-0.00002	0.0002
27	6	21	1	28	6	22	0	244.49081	0.00008	0.0002
29	6	23	1	30	6	24	0	244.16121	-0.00010	0.0002
30	6	24	1	31	6	25	0	243.99720	-0.00007	0.0002
31	6	25	1	32	6	26	0	243.83372	0.00005	0.0002
32	6	26	1	33	6	27	0	243.67054	0.00003	0.0002
33	6	27	1	34	6	28	0	243.50775	-0.00003	0.0002
34	6	28	1	35	6	29	0	243.34539	-0.00010	0.0002
35	6	29	1	36	6	30	0	243.18376	0.00012	0.0002
36	6	30	1	37	6	31	0	243.02208	-0.00015	0.0002
37	6	31	1	38	6	32	0	242.86134	0.00007	0.0002
38	6	32	1	39	6	33	0	242.70075	-0.00002	0.0002
12	7	5	1	13	7	6	0	246.88281	0.00023	0.0002
15	7	8	1	16	7	9	0	246.36738	0.00025	0.0002
17	7	10	1	18	7	11	0	246.02540	0.00007	0.0002
19	7	12	1	20	7	13	0	245.68548	0.00013	0.0002
20	7	13	1	21	7	14	0	245.51600	-0.00005	0.0002
21	7	14	1	22	7	15	0	245.34743	0.00021	0.0002
22	7	15	1	23	7	16	0	245.17884	-0.00003	0.0002
23	7	16	1	24	7	17	0	245.01108	0.00010	0.0002
24	7	17	1	25	7	18	0	244.84370	0.00015	0.0002
25	7	18	1	26	7	19	0	244.67644	-0.00013	0.0002
27	7	20	1	28	7	21	0	244.34421	0.00020	0.0002
28	7	21	1	29	7	22	0	244.17833	-0.00007	0.0002
30	7	23	1	31	7	24	0	243.84827	-0.00027	0.0002
31	7	24	1	32	7	25	0	243.68426	-0.00002	0.0002
32	7	25	1	33	7	26	0	243.52044	-0.00001	0.0002
33	7	26	1	34	7	27	0	243.35712	0.00004	0.0002
34	7	27	1	35	7	28	0	243.19416	0.00002	0.0002
35	7	28	1	36	7	29	0	243.03156	-0.00009	0.0002
36	7	29	1	37	7	30	0	242.86952	-0.00008	0.0002
37	7	30	1	38	7	31	0	242.70799	-0.00001	0.0002
38	7	31	1	39	7	32	0	242.54685	-0.00002	0.0002
19	8	11	1	20	8	12	0	245.54472	-0.00011	0.0002
20	8	12	1	21	8	13	0	245.37488	0.00002	0.0002
21	8	13	1	22	8	14	0	245.20554	0.00020	0.0002
22	8	14	1	23	8	15	0	245.03636	0.00007	0.0002
23	8	15	1	24	8	16	0	244.86759	-0.00011	0.0002
24	8	16	1	25	8	17	0	244.69943	-0.00015	0.0002
25	8	17	1	26	8	18	0	244.53201	0.00009	0.0002
26	8	18	1	27	8	19	0	244.36474	0.00002	0.0002
27	8	19	1	28	8	20	0	244.19805	0.00006	0.0002
28	8	20	1	29	8	21	0	244.03161	-0.00009	0.0002
29	8	21	1	30	8	22	0	243.86594	0.00006	0.0002
30	8	22	1	31	8	23	0	243.70080	0.00031	0.0002
31	8	23	1	32	8	24	0	243.53571	0.00015	0.0002
32	8	24	1	33	8	25	0	243.37116	0.00008	0.0002
33	8	25	1	34	8	26	0	243.20721	0.00016	0.0002
34	8	26	1	35	8	27	0	243.04352	0.00006	0.0002
35	8	27	1	36	8	28	0	242.88038	0.00008	0.0002

36	8	28	1	37	8	29	0	242.71768	0.00006	0.0002
37	8	29	1	38	8	30	0	242.55548	0.00010	0.0002
38	8	30	1	39	8	31	0	242.39363	0.00003	0.0002
39	8	31	1	40	8	32	0	242.23192	-0.00040	0.0002
16	9	7	1	17	9	8	0	245.91936	0.00007	0.0002
18	9	9	1	19	9	10	0	245.57619	0.00016	0.0002
19	9	10	1	20	9	11	0	245.40477	-0.00018	0.0002
21	9	12	1	22	9	13	0	245.06404	-0.00010	0.0002
22	9	13	1	23	9	14	0	244.89449	0.00009	0.0002
23	9	14	1	24	9	15	0	244.72500	-0.00012	0.0002
24	9	15	1	25	9	16	0	244.55651	0.00019	0.0002
25	9	16	1	26	9	17	0	244.38815	0.00018	0.0002
26	9	17	1	27	9	18	0	244.22022	0.00013	0.0002
27	9	18	1	28	9	19	0	244.05259	-0.00007	0.0002
28	9	19	1	29	9	20	0	243.88570	0.00000	0.0002
29	9	20	1	30	9	21	0	243.71921	0.00002	0.0002
30	9	21	1	31	9	22	0	243.55312	-0.00002	0.0002
32	9	23	1	33	9	24	0	243.22235	-0.00004	0.0002
33	9	24	1	34	9	25	0	243.05778	0.00009	0.0002
34	9	25	1	35	9	26	0	242.89340	-0.00004	0.0002
35	9	26	1	36	9	27	0	242.72959	-0.00005	0.0002
36	9	27	1	37	9	28	0	242.56611	-0.00018	0.0002
38	9	29	1	39	9	30	0	242.24106	0.00008	0.0002
39	9	30	1	40	9	31	0	242.07907	0.00003	0.0002
17	10	7	1	18	10	8	0	245.60930	0.00019	0.0002
19	10	9	1	20	10	10	0	245.26594	0.00030	0.0002
20	10	10	1	21	10	11	0	245.09455	0.00016	0.0002
22	10	12	1	23	10	13	0	244.75305	-0.00012	0.0002
23	10	13	1	24	10	14	0	244.58335	0.00012	0.0002
24	10	14	1	25	10	15	0	244.41367	-0.00007	0.0002
25	10	15	1	26	10	16	0	244.24475	0.00004	0.0002
26	10	16	1	27	10	17	0	244.07619	0.00005	0.0002
27	10	17	1	28	10	18	0	243.90780	-0.00024	0.0002
28	10	18	1	29	10	19	0	243.74027	-0.00012	0.0002
29	10	19	1	30	10	20	0	243.57330	0.00010	0.0002
30	10	20	1	31	10	21	0	243.40646	-0.00001	0.0002
31	10	21	1	32	10	22	0	243.24002	-0.00018	0.0002
32	10	22	1	33	10	23	0	243.07437	-0.00002	0.0002
33	10	23	1	34	10	24	0	242.90891	-0.00011	0.0002
34	10	24	1	35	10	25	0	242.74407	-0.00004	0.0002
35	10	25	1	36	10	26	0	242.57968	0.00003	0.0002
36	10	26	1	37	10	27	0	242.41561	-0.00003	0.0002
37	10	27	1	38	10	28	0	242.25207	-0.00002	0.0002
38	10	28	1	39	10	29	0	242.08922	0.00020	0.0002
39	10	29	1	40	10	30	0	241.92615	-0.00027	0.0002
40	10	30	1	41	10	31	0	241.76431	-0.00001	0.0002
41	10	31	1	42	10	32	0	241.60252	-0.00023	0.0002
16	0	16	1	15	0	15	0	253.04327	0.00004	0.0002
17	0	17	1	16	0	16	0	253.22460	0.00011	0.0002
18	0	18	1	17	0	17	0	253.40630	0.00009	0.0002
20	0	20	1	19	0	19	0	253.77095	-0.00002	0.0002
21	0	21	1	20	0	20	0	253.95415	0.00015	0.0002
22	0	22	1	21	0	21	0	254.13745	-0.00003	0.0002
23	0	23	1	22	0	22	0	254.32139	0.00000	0.0002
24	0	24	1	23	0	23	0	254.50572	-0.00001	0.0002
25	0	25	1	24	0	24	0	254.69052	0.00003	0.0002
26	0	26	1	25	0	25	0	254.87577	0.00011	0.0002
27	0	27	1	26	0	26	0	255.06119	-0.00006	0.0002
28	0	28	1	27	0	27	0	255.24729	0.00005	0.0002
29	0	29	1	28	0	28	0	255.43363	-0.00001	0.0002
30	0	30	1	29	0	29	0	255.62034	-0.00009	0.0002
31	0	31	1	30	0	30	0	255.80774	0.00013	0.0002
32	0	32	1	31	0	31	0	255.99489	-0.00029	0.0002
33	0	33	1	32	0	32	0	256.18305	-0.00007	0.0002
34	0	34	1	33	0	33	0	256.37140	-0.00004	0.0002
35	0	35	1	34	0	34	0	256.56061	0.00049	0.0002
36	0	36	1	35	0	35	0	256.74914	-0.00002	0.0002
37	0	37	1	36	0	36	0	256.93865	0.00011	0.0002
38	0	38	1	37	0	37	0	257.12839	0.00014	0.0002
8	1	7	1	7	1	6	0	251.73674	0.00019	0.0002
9	1	8	1	8	1	7	0	251.91374	0.00040	0.0002
10	1	9	1	9	1	8	0	252.09107	0.00046	0.0002
11	1	10	1	10	1	9	0	252.26830	-0.00006	0.0002
12	1	11	1	11	1	10	0	252.44644	-0.00015	0.0002
13	1	12	1	12	1	11	0	252.62524	-0.00004	0.0002
14	1	13	1	13	1	12	0	252.80427	-0.00018	0.0002
15	1	14	1	14	1	13	0	252.98402	-0.00005	0.0002
16	1	15	1	15	1	14	0	253.16435	0.00018	0.0002
17	1	16	1	16	1	15	0	253.34479	0.00008	0.0002
18	1	17	1	17	1	16	0	253.52531	-0.00041	0.0002
19	1	18	1	18	1	17	0	253.70714	-0.00004	0.0002
20	1	19	1	19	1	18	0	253.88896	-0.00013	0.0002
21	1	20	1	20	1	19	0	254.07163	0.00018	0.0002
22	1	21	1	21	1	20	0	254.25422	-0.00002	0.0002
24	1	23	1	23	1	22	0	254.62104	-0.00009	0.0002
25	1	24	1	24	1	23	0	254.80523	0.00001	0.0002
26	1	25	1	25	1	24	0	254.98957	-0.00015	0.0002
27	1	26	1	26	1	25	0	255.17471	0.00006	0.0002
28	1	27	1	27	1	26	0	255.36024	0.00025	0.0002
29	1	28	1	28	1	27	0	255.54569	-0.00005	0.0002
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32	1	31	1	31	1	30	0	256.10542	0.00003	0.0002
33	1	32	1	32	1	31	0	256.29278	0.00006	0.0002
34	1	33	1	33	1	32	0	256.48083	0.00039	0.0002
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13	2	11	1	12	2	10	0	252.74935	0.00027	0.0002
15	2	13	1	14	2	12	0	253.10667	0.00024	0.0002
16	2	14	1	15	2	13	0	253.28580	-0.00001	0.0002
17	2	15	1	16	2	14	0	253.46561	-0.00004	0.0002
18	2	16	1	17	2	15	0	253.64577	-0.00018	0.0002
20	2	18	1	19	2	17	0	254.00777	-0.00015	0.0002
21	2	19	1	20	2	18	0	254.18969	0.00012	0.0002
22	2	20	1	21	2	19	0	254.37186	0.00018	0.0002
23	2	21	1	22	2	20	0	254.55428	0.00006	0.0002
24	2	22	1	23	2	21	0	254.73712	-0.00008	0.0002
25	2	23	1	24	2	22	0	254.92041	-0.00020	0.0002
26	2	24	1	25	2	23	0	255.10449	0.00004	0.0002
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28	2	26	1	27	2	25	0	255.47330	-0.00010	0.0002
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31	2	29	1	30	2	28	0	256.02995	0.00004	0.0002
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35	2	33	1	34	2	32	0	256.77773	0.00019	0.0002
15	3	12	1	14	3	11	0	253.22954	0.00001	0.0002
16	3	13	1	15	3	12	0	253.40854	0.00035	0.0002
17	3	14	1	16	3	13	0	253.58727	-0.00005	0.0002
18	3	15	1	17	3	14	0	253.76702	0.00012	0.0002
19	3	16	1	18	3	15	0	253.94694	-0.00001	0.0002
21	3	18	1	20	3	17	0	254.30853	0.00011	0.0002
22	3	19	1	21	3	18	0	254.48989	0.00007	0.0002
23	3	20	1	22	3	19	0	254.67174	0.00006	0.0002
24	3	21	1	23	3	20	0	254.85398	0.00002	0.0002
25	3	22	1	24	3	21	0	255.03700	0.00030	0.0002
26	3	23	1	25	3	22	0	255.21931	-0.00055	0.0002
27	3	24	1	26	3	23	0	255.40343	-0.00002	0.0002
28	3	25	1	27	3	24	0	255.58744	-0.00002	0.0002
29	3	26	1	28	3	25	0	255.77171	-0.00019	0.0002
30	3	27	1	29	3	26	0	255.95670	-0.00005	0.0002
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34	3	31	1	33	3	30	0	256.70032	0.00004	0.0002
35	3	32	1	34	3	31	0	256.88724	0.00006	0.0002
36	3	33	1	35	3	32	0	257.07466	0.00021	0.0002
12	4	8	1	11	4	7	0	252.82257	0.00007	0.0002
14	4	10	1	13	4	9	0	253.17647	0.00053	0.0002
15	4	11	1	14	4	10	0	253.35360	0.00021	0.0002
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18	4	14	1	17	4	13	0	253.88896	0.00037	0.0002
19	4	15	1	18	4	14	0	254.06790	-0.00002	0.0002
21	4	17	1	20	4	16	0	254.42792	-0.00005	0.0002
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27	4	23	1	26	4	22	0	255.51915	0.00028	0.0002
28	4	24	1	27	4	23	0	255.70227	0.00006	0.0002
29	4	25	1	28	4	24	0	255.88585	-0.00013	0.0002
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31	4	27	1	30	4	26	0	256.25463	-0.00015	0.0002

32	4	28	1	31	4	27	0	256.43969	-0.00013	0.0002
33	4	29	1	32	4	28	0	256.62523	-0.00004	0.0002
34	4	30	1	33	4	29	0	256.81116	0.00003	0.0002
35	4	31	1	34	4	30	0	256.99750	0.00010	0.0002
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20	5	15	1	19	5	14	0	254.36873	0.00002	0.0002
21	5	16	1	20	5	15	0	254.54809	-0.00016	0.0002
22	5	17	1	21	5	16	0	254.72825	0.00000	0.0002
23	5	18	1	22	5	17	0	254.90904	0.00034	0.0002
24	5	19	1	23	5	18	0	255.08965	0.00006	0.0002
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27	5	22	1	26	5	21	0	255.63474	-0.00023	0.0002
28	5	23	1	27	5	22	0	255.81762	-0.00002	0.0002
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30	5	25	1	29	5	24	0	256.18433	0.00007	0.0002
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33	5	28	1	32	5	27	0	256.73727	-0.00011	0.0002
35	5	30	1	34	5	29	0	257.10820	-0.00005	0.0002
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19	7	12	1	18	7	11	0	254.43535	-0.00006	0.0002
21	7	14	1	20	7	13	0	254.79130	0.00023	0.0002
22	7	15	1	21	7	14	0	254.96968	0.00006	0.0002
23	7	16	1	22	7	15	0	255.14843	-0.00021	0.0002
26	7	19	1	25	7	18	0	255.68853	0.00008	0.0002
27	7	20	1	26	7	19	0	255.86945	0.00016	0.0002
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31	7	24	1	30	7	23	0	256.59708	0.00000	0.0002
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37	7	30	1	36	7	29	0	257.70154	-0.00028	0.0002
38	7	31	1	37	7	30	0	257.88745	-0.00004	0.0002
39	7	32	1	38	7	31	0	258.07372	0.00009	0.0002
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24	8	16	1	23	8	15	0	255.44862	0.00012	0.0002
25	8	17	1	24	8	16	0	255.62753	-0.00019	0.0002
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36	8	28	1	35	8	27	0	257.62893	0.00021	0.0002
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16	9	7	1	15	9	6	0	254.16088	-0.00005	0.0002
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28	9	19	1	27	9	18	0	256.28634	-0.00006	0.0002
29	9	20	1	28	9	19	0	256.46692	0.00019	0.0002
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21	10	11	1	20	10	10	0	255.16171	0.00007	0.0002
22	10	12	1	21	10	11	0	255.33772	-0.00007	0.0002
23	10	13	1	22	10	12	0	255.51431	-0.00018	0.0002
24	10	14	1	23	10	13	0	255.69191	0.00020	0.0002
25	10	15	1	24	10	14	0	255.86945	0.00003	0.0002
26	10	16	1	25	10	15	0	256.04748	-0.00014	0.0002
27	10	17	1	26	10	16	0	256.22644	0.00015	0.0002
28	10	18	1	27	10	17	0	256.40544	0.00001	0.0002
29	10	19	1	28	10	18	0	256.58515	0.00011	0.0002
30	10	20	1	29	10	19	0	256.76512	0.00001	0.0002
31	10	21	1	30	10	20	0	256.94578	0.00014	0.0002
33	10	23	1	32	10	22	0	257.30801	-0.00003	0.0002
34	10	24	1	33	10	23	0	257.48991	0.00000	0.0002
36	10	26	1	35	10	25	0	257.85480	-0.00018	0.0002
37	10	27	1	36	10	26	0	258.03811	-0.00008	0.0002
38	10	28	1	37	10	27	0	258.22191	0.00005	0.0002
39	10	29	1	38	10	28	0	258.40589	-0.00011	0.0002
11	10	1	1	12	11	1	0	246.45254	0.00015	0.0002
12	10	2	1	13	11	2	0	246.18340	0.00006	0.0002
13	10	3	1	14	11	3	0	245.88396	-0.00016	0.0002
14	10	4	1	15	11	4	0	245.56150	-0.00035	0.0002
15	10	5	1	16	11	5	0	245.24420	-0.00016	0.0002
16	10	6	1	17	11	6	0	244.93447	-0.00022	0.0002
17	10	7	1	18	11	7	0	244.62773	-0.00008	0.0002
18	10	8	1	19	11	8	0	244.32204	-0.00010	0.0002
19	10	9	1	20	11	9	0	244.01733	0.00003	0.0002
20	10	10	1	21	11	10	0	243.71312	-0.00002	0.0002
21	10	11	1	22	11	11	0	243.40964	0.00004	0.0002
22	10	12	1	23	11	12	0	243.10674	0.00009	0.0002
23	10	13	1	24	11	13	0	242.80423	-0.00001	0.0002
24	10	14	1	25	11	14	0	242.50236	-0.00001	0.0002
25	10	15	1	26	11	15	0	242.20095	-0.00006	0.0002
26	10	16	1	27	11	16	0	241.90017	0.00000	0.0002
27	10	17	1	28	11	17	0	241.59977	-0.00005	0.0002
28	10	18	1	29	11	18	0	241.30002	0.00006	0.0002
29	10	19	1	30	11	19	0	241.00058	-0.00002	0.0002
30	10	20	1	31	11	20	0	240.70174	0.00003	0.0002
31	10	21	1	32	11	21	0	240.40333	0.00003	0.0002
32	10	22	1	33	11	22	0	240.10523	-0.00013	0.0002
33	10	23	1	34	11	23	0	239.80778	-0.00010	0.0002
34	10	24	1	35	11	24	0	239.51093	0.00004	0.0002
35	10	25	1	36	11	25	0	239.21446	0.00011	0.0002
36	10	26	1	37	11	26	0	238.91840	0.00012	0.0002
38	10	28	1	39	11	28	0	238.32746	-0.00010	0.0002
39	10	29	1	40	11	29	0	238.03292	-0.00001	0.0002
11	11	0	1	12	12	0	0	246.39565	0.00012	0.0002
12	11	1	1	13	12	1	0	246.13556	-0.00006	0.0002
13	11	2	1	14	12	2	0	245.87266	-0.00014	0.0002
14	11	3	1	15	12	3	0	245.58098	-0.00003	0.0002
15	11	4	1	16	12	4	0	245.26032	-0.00007	0.0002
16	11	5	1	17	12	5	0	244.93931	0.00020	0.0002
17	11	6	1	18	12	6	0	244.62773	0.00027	0.0002

19	11	8	1	20	12	8	0	244.01357	0.00009	0.0002
21	11	10	1	22	12	10	0	243.40380	0.00015	0.0002
22	11	11	1	23	12	11	0	243.09974	-0.00002	0.0002
23	11	12	1	24	12	12	0	242.79656	0.00007	0.0002
24	11	13	1	25	12	13	0	242.49382	0.00005	0.0002
25	11	14	1	26	12	14	0	242.19165	0.00003	0.0002
26	11	15	1	27	12	15	0	241.88992	-0.00007	0.0002
27	11	16	1	28	12	16	0	241.58874	-0.00015	0.0002
28	11	17	1	29	12	17	0	241.28825	-0.00003	0.0002
29	11	18	1	30	12	18	0	240.98837	0.00020	0.0002
30	11	19	1	31	12	19	0	240.68828	-0.00028	0.0002
31	11	20	1	32	12	20	0	240.38920	-0.00024	0.0002
32	11	21	1	33	12	21	0	240.09080	0.00000	0.0002
33	11	22	1	34	12	22	0	239.79262	-0.00001	0.0002
34	11	23	1	35	12	23	0	239.49487	-0.00007	0.0002
36	11	25	1	37	12	25	0	238.90075	-0.00023	0.0002
37	11	26	1	38	12	26	0	238.60472	0.00002	0.0002
38	11	27	1	39	12	27	0	238.30893	0.00002	0.0002
39	11	28	1	40	12	28	0	238.01363	0.00002	0.0002
40	11	29	1	41	12	29	0	237.71869	-0.00012	0.0002
41	11	30	1	42	12	30	0	237.42443	-0.00012	0.0002
15	12	3	1	16	13	3	0	245.27661	0.00022	0.0002
16	12	4	1	17	13	4	0	244.95957	-0.00007	0.0002
17	12	5	1	18	13	5	0	244.63518	0.00042	0.0002
18	12	6	1	19	13	6	0	244.32056	0.00006	0.0002
19	12	7	1	20	13	7	0	244.01149	-0.00016	0.0002
20	12	8	1	21	13	8	0	243.70481	0.00002	0.0002
21	12	9	1	22	13	9	0	243.39898	-0.00004	0.0002
22	12	10	1	23	13	10	0	243.09399	-0.00008	0.0002
23	12	11	1	24	13	11	0	242.78981	-0.00001	0.0002
24	12	12	1	25	13	12	0	242.48627	0.00005	0.0002
25	12	13	1	26	13	13	0	242.18317	-0.00003	0.0002
26	12	14	1	27	13	14	0	241.88067	-0.00007	0.0002
27	12	15	1	28	13	15	0	241.57877	-0.00007	0.0002
28	12	16	1	29	13	16	0	241.27749	0.00003	0.0002
29	12	17	1	30	13	17	0	240.97651	-0.00008	0.0002
30	12	18	1	31	13	18	0	240.67626	0.00002	0.0002
31	12	19	1	32	13	19	0	240.37634	-0.00005	0.0002
32	12	20	1	33	13	20	0	240.07698	-0.00004	0.0002
33	12	21	1	34	13	21	0	239.77805	-0.00009	0.0002
34	12	22	1	35	13	22	0	239.47979	0.00004	0.0002
35	12	23	1	36	13	23	0	239.18190	0.00005	0.0002
36	12	24	1	37	13	24	0	238.88430	-0.00011	0.0002
37	12	25	1	38	13	25	0	238.58737	-0.00009	0.0002
38	12	26	1	39	13	26	0	238.29097	-0.00002	0.0002
39	12	27	1	40	13	27	0	237.99482	-0.00018	0.0002
40	12	28	1	41	13	28	0	237.69928	-0.00023	0.0002
41	12	29	1	42	13	29	0	237.40439	-0.00017	0.0002
13	13	0	1	14	14	0	0	245.76083	-0.00026	0.0002
14	13	1	1	15	14	1	0	245.49990	0.00006	0.0002
16	13	3	1	17	14	3	0	244.97009	0.00019	0.0002
17	13	4	1	18	14	4	0	244.65900	-0.00004	0.0002
18	13	5	1	19	14	5	0	244.33168	0.00019	0.0002
19	13	6	1	20	14	6	0	244.01357	-0.00038	0.0002
20	13	7	1	21	14	7	0	243.70355	-0.00016	0.0002
21	13	8	1	22	14	8	0	243.39606	-0.00006	0.0002
22	13	9	1	23	14	9	0	243.08974	-0.00009	0.0002
23	13	10	1	24	14	10	0	242.78446	0.00002	0.0002
24	13	11	1	25	14	11	0	242.47992	0.00012	0.0002
25	13	12	1	26	14	12	0	242.17586	0.00002	0.0002
26	13	13	1	27	14	13	0	241.87256	0.00005	0.0002
27	13	14	1	28	14	14	0	241.56975	0.00000	0.0002
28	13	15	1	29	14	15	0	241.26752	-0.00004	0.0002
29	13	16	1	30	14	16	0	240.96583	-0.00007	0.0002
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31	13	18	1	32	14	18	0	240.36419	0.00002	0.0002
32	13	19	1	33	14	19	0	240.06413	0.00007	0.0002
33	13	20	1	34	14	20	0	239.76456	0.00010	0.0002
34	13	21	1	35	14	21	0	239.46537	0.00002	0.0002
35	13	22	1	36	14	22	0	239.16673	0.00000	0.0002
36	13	23	1	37	14	23	0	238.86859	0.00000	0.0002
37	13	24	1	38	14	24	0	238.57095	-0.00001	0.0002
38	13	25	1	39	14	25	0	238.27368	-0.00011	0.0002
39	13	26	1	40	14	26	0	237.97677	-0.00035	0.0002
40	13	27	1	41	14	27	0	237.68093	-0.00003	0.0002
41	13	28	1	42	14	28	0	237.38500	-0.00030	0.0002
42	13	29	1	43	14	29	0	237.09003	-0.00015	0.0002
16	14	2	1	17	15	2	0	244.92791	-0.00003	0.0002
17	14	3	1	18	15	3	0	244.66135	0.00009	0.0002
18	14	4	1	19	15	4	0	244.35786	-0.00005	0.0002
20	14	6	1	21	15	6	0	243.70800	0.00002	0.0002
21	14	7	1	22	15	7	0	243.39606	0.00011	0.0002
22	14	8	1	23	15	8	0	243.08736	-0.00014	0.0002
23	14	9	1	24	15	9	0	242.78059	-0.00002	0.0002
24	14	10	1	25	15	10	0	242.47471	-0.00004	0.0002
25	14	11	1	26	15	11	0	242.16979	0.00008	0.0002
26	14	12	1	27	15	12	0	241.86549	0.00010	0.0002
27	14	13	1	28	15	13	0	241.56166	-0.00006	0.0002
28	14	14	1	29	15	14	0	241.25874	0.00009	0.0002
29	14	15	1	30	15	15	0	240.95630	0.00014	0.0002
30	14	16	1	31	15	16	0	240.65423	0.00001	0.0002
31	14	17	1	32	15	17	0	240.35280	-0.00003	0.0002
32	14	18	1	33	15	18	0	240.05204	0.00009	0.0002
33	14	19	1	34	15	19	0	239.75156	-0.00003	0.0002
34	14	20	1	35	15	20	0	239.45193	0.00017	0.0002
35	14	21	1	36	15	21	0	239.15247	0.00006	0.0002
36	14	22	1	37	15	22	0	238.85373	0.00016	0.0002
37	14	23	1	38	15	23	0	238.55550	0.00028	0.0002
38	14	24	1	39	15	24	0	238.25733	-0.00003	0.0002
39	14	25	1	40	15	25	0	237.95991	-0.00008	0.0002
40	14	26	1	41	15	26	0	237.66324	0.00011	0.0002
41	14	27	1	42	15	27	0	237.36662	-0.00015	0.0002
16	15	1	1	17	16	1	0	244.86285	0.00010	0.0002
17	15	2	1	18	16	2	0	244.60949	0.00019	0.0002
18	15	3	1	19	16	3	0	244.35015	-0.00007	0.0002
19	15	4	1	20	16	4	0	244.05539	-0.00023	0.0002
22	15	7	1	23	16	7	0	243.08836	-0.00007	0.0002
23	15	8	1	24	16	8	0	242.77907	0.00013	0.0002
24	15	9	1	25	16	9	0	242.47132	-0.00008	0.0002
25	15	10	1	26	16	10	0	242.16498	-0.00005	0.0002
26	15	11	1	27	16	11	0	241.85967	0.00011	0.0002
27	15	12	1	28	16	12	0	241.55480	-0.00006	0.0002
28	15	13	1	29	16	13	0	241.25076	-0.00007	0.0002
29	15	14	1	30	16	14	0	240.94757	0.00013	0.0002
30	15	15	1	31	16	15	0	240.64469	0.00005	0.0002
31	15	16	1	32	16	16	0	240.34242	0.00000	0.0002
32	15	17	1	33	16	17	0	240.04095	0.00020	0.0002
33	15	18	1	34	16	18	0	239.73963	0.00002	0.0002
34	15	19	1	35	16	19	0	239.43901	0.00001	0.0002
35	15	20	1	36	16	20	0	239.13883	-0.00009	0.0002
36	15	21	1	37	16	21	0	238.83942	0.00008	0.0002
37	15	22	1	38	16	22	0	238.54024	-0.00003	0.0002
38	15	23	1	39	16	23	0	238.24166	-0.00004	0.0002
39	15	24	1	40	16	24	0	237.94360	-0.00002	0.0002
40	15	25	1	41	16	25	0	237.64592	-0.00014	0.0002
41	15	26	1	42	16	26	0	237.34888	-0.00012	0.0002
42	15	27	1	43	16	27	0	237.05235	-0.00011	0.0002
43	15	28	1	44	16	28	0	236.75601	-0.00047	0.0002
16	16	0	1	17	17	0	0	244.80647	-0.00008	0.0002
17	16	1	1	18	17	1	0	244.54385	-0.00003	0.0002
18	16	2	1	19	17	2	0	244.28962	0.00002	0.0002
19	16	3	1	20	17	3	0	244.03645	-0.00016	0.0002
20	16	4	1	21	17	4	0	243.75157	-0.00005	0.0002
21	16	5	1	22	17	5	0	243.42837	-0.00017	0.0002
22	16	6	1	23	17	6	0	243.09838	-0.00018	0.0002
25	16	9	1	26	17	9	0	242.16206	-0.00015	0.0002
26	16	10	1	27	17	10	0	241.85535	0.00006	0.0002
27	16	11	1	28	17	11	0	241.54924	-0.00012	0.0002
28	16	12	1	29	17	12	0	241.24428	0.00004	0.0002
29	16	13	1	30	17	13	0	240.93991	0.00005	0.0002
30	16	14	1	31	17	14	0	240.63619	0.00006	0.0002
31	16	15	1	32	17	15	0	240.33312	0.00010	0.0002
32	16	16	1	33	17	16	0	240.03044	-0.00006	0.0002
33	16	17	1	34	17	17	0	239.72864	0.00009	0.0002
34	16	18	1	35	17	18	0	239.42735	0.00020	0.0002
35	16	19	1	36	17	19	0	239.12630	0.00001	0.0002
36	16	20	1	37	17	20	0	238.82595	-0.00001	0.0002
37	16	21	1	38	17	21	0	238.52607	-0.00006	0.0002
38	16	22	1	39	17	22	0	238.22680	-0.00004	0.0002
39	16	23	1	40	17	23	0	237.92801	-0.00004	0.0002
40	16	24	1	41	17	24	0	237.62970	-0.00007	0.0002
41	16	25	1	42	17	25	0	237.33184	-0.00015	0.0002
42	16	26	1	43	17	26	0	237.03460	-0.00015	0.0002
43	16	27	1	44	17	27	0	236.73777	-0.00026	0.0002
17	17	0	1	18	18	0	0	244.48754	-0.00001	0.0002
18	17	1	1	19	18	1	0	244.22478	0.00002	0.0002

19	17	2	1	20	18	2	0	243.96925	-0.00003	0.0002
20	17	3	1	21	18	3	0	243.72055	0.00012	0.0002
21	17	4	1	22	18	4	0	243.44537	-0.00012	0.0002
22	17	5	1	23	18	5	0	243.12868	-0.00014	0.0002
24	17	7	1	25	18	7	0	242.47471	0.00014	0.0002
25	17	8	1	26	18	8	0	242.16206	-0.00013	0.0002
26	17	9	1	27	18	9	0	241.85302	-0.00005	0.0002
27	17	10	1	28	18	10	0	241.54540	-0.00015	0.0002
28	17	11	1	29	18	11	0	241.23890	-0.00022	0.0002
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33	17	16	1	34	18	16	0	239.71826	-0.00022	0.0002
34	17	17	1	35	18	17	0	239.41633	0.00008	0.0002
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37	17	20	1	38	18	20	0	238.51285	-0.00002	0.0002
38	17	21	1	39	18	21	0	238.21273	-0.00008	0.0002
39	17	22	1	40	18	22	0	237.91323	-0.00005	0.0002
40	17	23	1	41	18	23	0	237.61399	-0.00028	0.0002
41	17	24	1	42	18	24	0	237.31556	-0.00022	0.0002
42	17	25	1	43	18	25	0	237.01763	-0.00017	0.0002
43	17	26	1	44	18	26	0	236.72012	-0.00025	0.0002
44	17	27	1	45	18	27	0	236.42326	-0.00021	0.0002
19	18	1	1	20	19	1	0	243.90563	0.00028	0.0002
20	18	2	1	21	19	2	0	243.64857	-0.00011	0.0002
21	18	3	1	22	19	3	0	243.40166	-0.00022	0.0002
22	18	4	1	23	19	4	0	243.13681	-0.00009	0.0002
23	18	5	1	24	19	5	0	242.82846	-0.00019	0.0002
24	18	6	1	25	19	6	0	242.49382	-0.00009	0.0002
25	18	7	1	26	19	7	0	242.16841	-0.00013	0.0002
27	18	9	1	28	19	9	0	241.54393	-0.00007	0.0002
29	18	11	1	30	19	11	0	240.92870	-0.00015	0.0002
30	18	12	1	31	19	12	0	240.62278	-0.00009	0.0002
31	18	13	1	32	19	13	0	240.31773	0.00004	0.0002
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33	18	15	1	34	19	15	0	239.70939	-0.00010	0.0002
34	18	16	1	35	19	16	0	239.40633	-0.00003	0.0002
35	18	17	1	36	19	17	0	239.10390	0.00008	0.0002
36	18	18	1	37	19	18	0	238.80178	-0.00010	0.0002
37	18	19	1	38	19	19	0	238.50052	0.00003	0.0002
38	18	20	1	39	19	20	0	238.19982	0.00017	0.0002
39	18	21	1	40	19	21	0	237.89922	-0.00014	0.0002
40	18	22	1	41	19	22	0	237.59954	-0.00006	0.0002
41	18	23	1	42	19	23	0	237.30028	-0.00008	0.0002
42	18	24	1	43	19	24	0	237.00159	-0.00007	0.0002
43	18	25	1	44	19	25	0	236.70356	0.00007	0.0002
44	18	26	1	45	19	26	0	236.40576	-0.00011	0.0002
45	18	27	1	46	19	27	0	236.10864	-0.00016	0.0002
20	19	1	1	21	20	1	0	243.58607	0.00044	0.0002
21	19	2	1	22	20	2	0	243.32798	0.00005	0.0002
22	19	3	1	23	20	3	0	243.08154	0.00011	0.0002
23	19	4	1	24	20	4	0	242.82555	-0.00003	0.0002
24	19	5	1	25	20	5	0	242.52734	0.00003	0.0002
26	19	7	1	27	20	7	0	241.86330	-0.00007	0.0002
28	19	9	1	29	20	9	0	241.23488	-0.00016	0.0002
29	19	10	1	30	20	10	0	240.92601	-0.00011	0.0002
30	19	11	1	31	20	11	0	240.61868	0.00009	0.0002
31	19	12	1	32	20	12	0	240.31193	-0.00018	0.0002
32	19	13	1	33	20	13	0	240.00646	-0.00006	0.0002
33	19	14	1	34	20	14	0	239.70170	-0.00001	0.0002
34	19	15	1	35	20	15	0	239.39747	-0.00012	0.0002
35	19	16	1	36	20	16	0	239.09419	0.00005	0.0002
36	19	17	1	37	20	17	0	238.79138	0.00007	0.0002
37	19	18	1	38	20	18	0	238.48923	0.00015	0.0002
38	19	19	1	39	20	19	0	238.18732	-0.00010	0.0002
39	19	20	1	40	20	20	0	237.88625	-0.00009	0.0002
40	19	21	1	41	20	21	0	237.58568	-0.00011	0.0002
41	19	22	1	42	20	22	0	237.28577	-0.00003	0.0002
42	19	23	1	43	20	23	0	236.98635	0.00000	0.0002
43	19	24	1	44	20	24	0	236.68729	-0.00014	0.0002
44	19	25	1	45	20	25	0	236.38896	-0.00010	0.0002
45	19	26	1	46	20	26	0	236.09113	-0.00011	0.0002
20	20	0	1	21	21	0	0	243.52800	0.00002	0.0002
21	20	1	1	22	21	1	0	243.26540	-0.00014	0.0002
23	20	3	1	24	21	3	0	242.75952	-0.00015	0.0002
24	20	4	1	25	21	4	0	242.51169	0.00035	0.0002
25	20	5	1	26	21	5	0	242.22388	-0.00024	0.0002
26	20	6	1	27	21	6	0	241.89428	-0.00001	0.0002
27	20	7	1	28	21	7	0	241.55922	-0.00008	0.0002
28	20	8	1	29	21	8	0	241.23890	-0.00009	0.0002
29	20	9	1	30	21	9	0	240.92601	-0.00022	0.0002
30	20	10	1	31	21	10	0	240.61642	-0.00004	0.0002
31	20	11	1	32	21	11	0	240.30834	0.00002	0.0002
32	20	12	1	33	21	12	0	240.00133	-0.00001	0.0002
33	20	13	1	34	21	13	0	239.69563	0.00032	0.0002
34	20	14	1	35	21	14	0	239.39013	0.00004	0.0002
35	20	15	1	36	21	15	0	239.08561	-0.00001	0.0002
36	20	16	1	37	21	16	0	238.78194	0.00011	0.0002
37	20	17	1	38	21	17	0	238.47869	-0.00001	0.0002
38	20	18	1	39	21	18	0	238.17638	0.00020	0.0002
39	20	19	1	40	21	19	0	237.87414	-0.00011	0.0002
40	20	20	1	41	21	20	0	237.57284	-0.00005	0.0002
41	20	21	1	42	21	21	0	237.27205	-0.00006	0.0002
42	20	22	1	43	21	22	0	236.97190	0.00001	0.0002
43	20	23	1	44	21	23	0	236.67234	0.00013	0.0002
44	20	24	1	45	21	24	0	236.37286	-0.00022	0.0002
45	20	25	1	46	21	25	0	236.07426	-0.00025	0.0002
46	20	26	1	47	21	26	0	235.77622	-0.00029	0.0002
21	21	0	1	22	22	0	0	243.20721	-0.00006	0.0002
22	21	1	1	23	22	1	0	242.94497	-0.00012	0.0002
23	21	2	1	24	22	2	0	242.68609	-0.00005	0.0002
24	21	3	1	25	22	3	0	242.43725	0.00010	0.0002
25	21	4	1	26	22	4	0	242.19401	-0.00016	0.0002
28	21	7	1	29	22	7	0	241.25648	-0.00007	0.0002
29	21	8	1	30	22	8	0	240.93233	0.00014	0.0002
31	21	10	1	32	22	10	0	240.30691	0.00001	0.0002
33	21	12	1	34	22	12	0	239.69069	0.00014	0.0002
34	21	13	1	35	22	13	0	239.38394	-0.00011	0.0002
35	21	14	1	36	22	14	0	239.07849	0.00007	0.0002
36	21	15	1	37	22	15	0	238.77353	-0.00005	0.0002
37	21	16	1	38	22	16	0	238.46954	0.00009	0.0002
38	21	17	1	39	22	17	0	238.16615	0.00015	0.0002
39	21	18	1	40	22	18	0	237.86326	0.00009	0.0002
40	21	19	1	41	22	19	0	237.56085	-0.00013	0.0002
41	21	20	1	42	22	20	0	237.25923	-0.00013	0.0002
42	21	21	1	43	22	21	0	236.95827	-0.00005	0.0002
43	21	22	1	44	22	22	0	236.65760	-0.00026	0.0002
44	21	23	1	45	22	23	0	236.35786	-0.00010	0.0002
45	21	24	1	46	22	24	0	236.05837	-0.00026	0.0002
46	21	25	1	47	22	25	0	235.75976	-0.00009	0.0002
47	21	26	1	48	22	26	0	235.46143	-0.00023	0.0002
22	22	0	1	23	23	0	0	242.88618	0.00005	0.0002
23	22	1	1	24	23	1	0	242.62412	-0.00013	0.0002
24	22	2	1	25	23	2	0	242.36501	0.00000	0.0002
25	22	3	1	26	23	3	0	242.11432	0.00002	0.0002
26	22	4	1	27	23	4	0	241.87393	-0.00035	0.0002
27	22	5	1	28	23	5	0	241.61000	-0.00024	0.0002
28	22	6	1	29	23	6	0	241.29593	-0.00041	0.0002
29	22	7	1	30	23	7	0	240.95505	-0.00023	0.0002
30	22	8	1	31	23	8	0	240.62598	-0.00012	0.0002
32	22	10	1	33	23	10	0	239.99769	0.00025	0.0002
33	22	11	1	34	23	11	0	239.68789	0.00002	0.0002
34	22	12	1	35	23	12	0	239.37991	0.00015	0.0002
35	22	13	1	36	23	13	0	239.07271	-0.00006	0.0002
36	22	14	1	37	23	14	0	238.76665	-0.00006	0.0002
37	22	15	1	38	23	15	0	238.46154	0.00007	0.0002
38	22	16	1	39	23	16	0	238.15713	0.00013	0.0002
39	22	17	1	40	23	17	0	237.85331	0.00010	0.0002
40	22	18	1	41	23	18	0	237.55026	0.00017	0.0002
41	22	19	1	42	23	19	0	237.24753	-0.00007	0.0002
42	22	20	1	43	23	20	0	236.94562	-0.00010	0.0002
43	22	21	1	44	23	21	0	236.64433	-0.00011	0.0002
44	22	22	1	45	23	22	0	236.34368	-0.00005	0.0002
46	22	24	1	47	23	24	0	235.74379	-0.00026	0.0002
47	22	25	1	48	23	25	0	235.44479	-0.00029	0.0002
23	23	0	1	24	24	0	0	242.56462	0.00006	0.0002
24	23	1	1	25	24	1	0	242.30299	-0.00002	0.0002
25	23	2	1	26	24	2	0	242.04357	-0.00009	0.0002
26	23	3	1	27	24	3	0	241.79129	-0.00008	0.0002
27	23	4	1	28	24	4	0	241.55199	-0.00013	0.0002
28	23	5	1	29	24	5	0	241.29867	-0.00018	0.0002
29	23	6	1	30	24	6	0	240.99592	-0.00014	0.0002
30	23	7	1	31	24	7	0	240.65552	0.00003	0.0002
31	23	8	1	32	24	8	0	240.32089	-0.00009	0.0002

32	23	9	1	33	24	9	0	240.00133	0.00004	0.0002
33	23	10	1	34	24	10	0	239.68789	-0.00023	0.0002
34	23	11	1	35	24	11	0	239.37767	-0.00007	0.0002
35	23	12	1	36	24	12	0	239.06901	0.00001	0.0002
36	23	13	1	37	24	13	0	238.76155	0.00007	0.0002
37	23	14	1	38	24	14	0	238.45496	0.00000	0.0002
38	23	15	1	39	24	15	0	238.14939	0.00006	0.0002
39	23	16	1	40	24	16	0	237.84454	0.00006	0.0002
40	23	17	1	41	24	17	0	237.54045	0.00009	0.0002
41	23	18	1	42	24	18	0	237.23708	0.00016	0.0002
42	23	19	1	43	24	19	0	236.93401	-0.00013	0.0002
43	23	20	1	44	24	20	0	236.63192	-0.00006	0.0002
44	23	21	1	45	24	21	0	236.33023	-0.00021	0.0002
45	23	22	1	46	24	22	0	236.02954	0.00004	0.0002
46	23	23	1	47	24	23	0	235.72910	-0.00004	0.0002
47	23	24	1	48	24	24	0	235.42916	-0.00021	0.0002
24	24	0	1	25	25	0	0	242.24254	-0.00002	0.0002
25	24	1	1	26	25	1	0	241.98134	-0.00002	0.0002
26	24	2	1	27	25	2	0	241.72221	0.00018	0.0002
27	24	3	1	28	25	3	0	241.46846	0.00000	0.0002
29	24	5	1	30	25	5	0	240.98386	-0.00032	0.0002
30	24	6	1	31	25	6	0	240.69371	-0.00014	0.0002
31	24	7	1	32	25	7	0	240.35675	-0.00017	0.0002
32	24	8	1	33	25	8	0	240.01694	-0.00009	0.0002
35	24	11	1	36	25	11	0	239.06764	-0.00004	0.0002
36	24	12	1	37	25	12	0	238.75804	-0.00022	0.0002
37	24	13	1	38	25	13	0	238.45014	-0.00004	0.0002
38	24	14	1	39	25	14	0	238.14306	-0.00012	0.0002
39	24	15	1	40	25	15	0	237.83723	0.00010	0.0002
40	24	16	1	41	25	16	0	237.53215	0.00026	0.0002
41	24	17	1	42	25	17	0	237.22758	0.00015	0.0002
42	24	18	1	43	25	18	0	236.92387	0.00020	0.0002
43	24	19	1	44	25	19	0	236.62037	-0.00022	0.0002
44	24	20	1	45	25	20	0	236.31802	-0.00014	0.0002
45	24	21	1	46	25	21	0	236.01631	-0.00005	0.0002
46	24	22	1	47	25	22	0	235.71518	0.00001	0.0002
47	24	23	1	48	25	23	0	235.41444	-0.00014	0.0002
48	24	24	1	49	25	24	0	235.11433	-0.00026	0.0002
49	24	25	1	50	25	25	0	234.81513	-0.00009	0.0002
25	25	0	1	26	26	0	0	241.92013	-0.00002	0.0002
26	25	1	1	27	26	1	0	241.65926	-0.00004	0.0002
27	25	2	1	28	26	2	0	241.39980	-0.00028	0.0002
29	25	4	1	30	26	4	0	240.90356	-0.00006	0.0002
30	25	5	1	31	26	5	0	240.66626	0.00004	0.0002
31	25	6	1	32	26	6	0	240.38920	0.00013	0.0002
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33	25	8	1	34	26	8	0	239.71449	-0.00003	0.0002
34	25	9	1	35	26	9	0	239.38679	-0.00007	0.0002
35	25	10	1	36	26	10	0	239.07023	0.00012	0.0002
37	25	12	1	38	26	12	0	238.44769	0.00012	0.0002
38	25	13	1	39	26	13	0	238.13903	0.00013	0.0002
39	25	14	1	40	26	14	0	237.83142	0.00002	0.0002
40	25	15	1	41	26	15	0	237.52503	0.00014	0.0002
41	25	16	1	42	26	16	0	237.21936	0.00009	0.0002
42	25	17	1	43	26	17	0	236.91464	0.00020	0.0002
43	25	18	1	44	26	18	0	236.61077	0.00042	0.0002
45	25	20	1	46	26	20	0	236.00409	-0.00016	0.0002
46	25	21	1	47	26	21	0	235.70213	-0.00004	0.0002
47	25	22	1	48	26	22	0	235.40071	-0.00002	0.0002
48	25	23	1	49	26	23	0	235.09993	0.00002	0.0002
49	25	24	1	50	26	24	0	234.79942	-0.00029	0.0002
26	26	0	1	27	27	0	0	241.59725	-0.00005	0.0002
27	26	1	1	28	27	1	0	241.33679	-0.00005	0.0002
28	26	2	1	29	27	2	0	241.07759	-0.00022	0.0002
29	26	3	1	30	27	3	0	240.82254	-0.00007	0.0002
30	26	4	1	31	27	4	0	240.57834	-0.00015	0.0002
31	26	5	1	32	27	5	0	240.34495	-0.00020	0.0002
32	26	6	1	33	27	6	0	240.08118	-0.00006	0.0002
33	26	7	1	34	27	7	0	239.76092	-0.00007	0.0002
34	26	8	1	35	27	8	0	239.41350	-0.00012	0.0002
35	26	9	1	36	27	9	0	239.08055	-0.00020	0.0002
36	26	10	1	37	27	10	0	238.76155	0.00002	0.0002
37	26	11	1	38	27	11	0	238.44769	-0.00023	0.0002
38	26	12	1	39	27	12	0	238.13681	-0.00014	0.0002
39	26	13	1	40	27	13	0	237.82781	0.00017	0.0002
40	26	14	1	41	27	14	0	237.51986	0.00026	0.0002
41	26	15	1	42	27	15	0	237.21268	0.00005	0.0002
43	26	17	1	44	27	17	0	236.60170	0.00031	0.0002
44	26	18	1	45	27	18	0	236.29743	0.00047	0.0002
48	26	22	1	49	27	22	0	235.08622	0.00001	0.0002
49	26	23	1	50	27	23	0	234.78511	-0.00004	0.0002
50	26	24	1	51	27	24	0	234.48449	-0.00024	0.0002
27	27	0	1	28	28	0	0	241.27389	-0.00017	0.0002
28	27	1	1	29	28	1	0	241.01387	-0.00008	0.0002
29	27	2	1	30	28	2	0	240.75495	-0.00023	0.0002
30	27	3	1	31	28	3	0	240.49907	-0.00048	0.0002
31	27	4	1	32	28	4	0	240.25325	-0.00005	0.0002
32	27	5	1	33	28	5	0	240.02136	-0.00006	0.0002
33	27	6	1	34	28	6	0	239.76998	-0.00003	0.0002
34	27	7	1	35	28	7	0	239.46182	-0.00006	0.0002
35	27	8	1	36	28	8	0	239.11453	0.00018	0.0002
36	27	9	1	37	28	9	0	238.77553	-0.00013	0.0002
37	27	10	1	38	28	10	0	238.45355	0.00020	0.0002
38	27	11	1	39	28	11	0	238.13814	-0.00015	0.0002
39	27	12	1	40	28	12	0	237.82654	0.00013	0.0002
41	27	14	1	42	28	14	0	237.20805	0.00024	0.0002
42	27	15	1	43	28	15	0	236.90053	0.00017	0.0002
43	27	16	1	44	28	16	0	236.59393	0.00005	0.0002
44	27	17	1	45	28	17	0	236.28859	0.00030	0.0002
45	27	18	1	46	28	18	0	235.98398	0.00047	0.0002
29	28	1	1	30	29	1	0	240.69049	-0.00017	0.0002
30	28	2	1	31	29	2	0	240.43195	-0.00021	0.0002
31	28	3	1	32	29	3	0	240.17592	-0.00041	0.0002
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35	28	7	1	36	29	7	0	239.16072	-0.00006	0.0002
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38	28	10	1	39	29	10	0	238.14563	-0.00005	0.0002
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41	28	13	1	42	29	13	0	237.20549	0.00025	0.0002
43	28	15	1	44	29	15	0	236.58821	0.00014	0.0002
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50	28	22	1	51	29	22	0	234.45699	0.00010	0.0002
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38	29	9	1	39	30	9	0	238.16950	-0.00005	0.0002
39	29	10	1	40	30	10	0	237.83854	-0.00014	0.0002
40	29	11	1	41	30	11	0	237.51986	0.00013	0.0002
42	29	13	1	43	30	13	0	236.89428	0.00013	0.0002
43	29	14	1	44	30	14	0	236.58455	0.00025	0.0002
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45	29	16	1	46	30	16	0	235.96861	0.00023	0.0002
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41	30	11	1	42	31	11	0	237.21125	0.00032	0.0002
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46	30	16	1	47	31	16	0	235.65612	0.00051	0.0002
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15	10	5	1	14	9	5	0	254.69823	-0.00005	0.0002
16	10	6	1	15	9	6	0	255.00585	-0.00007	0.0002
17	10	7	1	16	9	7	0	255.31304	0.00001	0.0002
18	10	8	1	17	9	8	0	255.62034	0.00007	0.0002
19	10	9	1	18	9	9	0	255.92775	-0.00007	0.0002
20	10	10	1	19	9	10	0	256.23575	0.00001	0.0002
21	10	11	1	20	9	11	0	256.54410	0.00005	0.0002

22	10	12	1	21	9	12	0	256.85277	-0.00001	0.0002
23	10	13	1	22	9	13	0	257.16190	-0.00004	0.0002
24	10	14	1	23	9	14	0	257.47159	0.00005	0.0002
25	10	15	1	24	9	15	0	257.78166	0.00009	0.0002
26	10	16	1	25	9	16	0	258.09212	0.00008	0.0002
27	10	17	1	26	9	17	0	258.40295	0.00000	0.0002
28	10	18	1	27	9	18	0	258.71434	0.00003	0.0002
29	10	19	1	28	9	19	0	259.02625	0.00015	0.0002
30	10	20	1	29	9	20	0	259.33840	0.00006	0.0002
31	10	21	1	30	9	21	0	259.65106	0.00005	0.0002
33	10	23	1	32	9	23	0	260.27762	-0.00003	0.0002
34	10	24	1	33	9	24	0	260.59150	-0.00012	0.0002
35	10	25	1	34	9	25	0	260.90607	0.00005	0.0002
36	10	26	1	35	9	26	0	261.22086	0.00001	0.0002
37	10	27	1	36	9	27	0	261.53608	-0.00004	0.0002
38	10	28	1	37	9	28	0	261.85181	-0.00003	0.0002
39	10	29	1	38	9	29	0	262.16767	-0.00035	0.0002
11	11	0	1	10	10	0	0	253.52363	-0.00004	0.0002
12	11	1	1	11	10	1	0	253.79416	0.00009	0.0002
13	11	2	1	12	10	2	0	254.07163	0.00001	0.0002
14	11	3	1	13	10	3	0	254.37049	-0.00009	0.0002
15	11	4	1	14	10	4	0	254.68576	0.00015	0.0002
16	11	5	1	15	10	5	0	254.99779	-0.00028	0.0002
17	11	6	1	16	10	6	0	255.30637	0.00016	0.0002
18	11	7	1	17	10	7	0	255.61324	-0.00011	0.0002
19	11	8	1	18	10	8	0	255.92046	-0.00003	0.0002
20	11	9	1	19	10	9	0	256.22785	-0.00003	0.0002
21	11	10	1	20	10	10	0	256.53558	-0.00003	0.0002
22	11	11	1	21	10	11	0	256.84369	-0.00003	0.0002
23	11	12	1	22	10	12	0	257.15217	-0.00006	0.0002
24	11	13	1	23	10	13	0	257.46122	0.00006	0.0002
25	11	14	1	24	10	14	0	257.77059	0.00006	0.0002
26	11	15	1	25	10	15	0	258.08043	0.00010	0.0002
27	11	16	1	26	10	16	0	258.39060	0.00003	0.0002
28	11	17	1	27	10	17	0	258.70129	0.00005	0.0002
29	11	18	1	28	10	18	0	259.01238	0.00003	0.0002
30	11	19	1	29	10	19	0	259.32391	0.00000	0.0002
31	11	20	1	30	10	20	0	259.63586	-0.00003	0.0002
32	11	21	1	31	10	21	0	259.94835	0.00003	0.0002
33	11	22	1	32	10	22	0	260.26110	-0.00007	0.0002
34	11	23	1	33	10	23	0	260.57438	-0.00010	0.0002
35	11	24	1	34	10	24	0	260.88810	-0.00010	0.0002
36	11	25	1	35	10	25	0	261.20234	-0.00003	0.0002
38	11	27	1	37	10	27	0	261.83183	-0.00018	0.0002
39	11	28	1	38	10	28	0	262.14753	0.00001	0.0002
14	12	2	1	13	11	2	0	254.37571	-0.00011	0.0002
15	12	3	1	14	11	3	0	254.66953	-0.00018	0.0002
16	12	4	1	15	11	4	0	254.98290	-0.00007	0.0002
17	12	5	1	16	11	5	0	255.29724	0.00005	0.0002
18	12	6	1	17	11	6	0	255.60628	0.00021	0.0002
19	12	7	1	18	11	7	0	255.91333	0.00002	0.0002
20	12	8	1	19	11	8	0	256.22036	-0.00001	0.0002
21	12	9	1	20	11	9	0	256.52757	-0.00005	0.0002
22	12	10	1	21	11	10	0	256.83518	0.00000	0.0002
23	12	11	1	22	11	11	0	257.14313	0.00004	0.0002
24	12	12	1	23	11	12	0	257.45147	0.00007	0.0002
25	12	13	1	24	11	13	0	257.76016	0.00005	0.0002
26	12	14	1	25	11	14	0	258.06921	-0.00005	0.0002
27	12	15	1	26	11	15	0	258.37888	0.00006	0.0002
28	12	16	1	27	11	16	0	258.68878	-0.00004	0.0002
29	12	17	1	28	11	17	0	258.99930	0.00004	0.0002
30	12	18	1	29	11	18	0	259.31022	0.00010	0.0002
31	12	19	1	30	11	19	0	259.62143	0.00000	0.0002
32	12	20	1	31	11	20	0	259.93310	-0.00008	0.0002
33	12	21	1	32	11	21	0	260.24534	-0.00003	0.0002
34	12	22	1	33	11	22	0	260.55807	0.00008	0.0002
35	12	23	1	34	11	23	0	260.87103	-0.00001	0.0002
36	12	24	1	35	11	24	0	261.18446	-0.00008	0.0002
37	12	25	1	36	11	25	0	261.49841	-0.00006	0.0002
38	12	26	1	37	11	26	0	261.81278	-0.00006	0.0002
39	12	27	1	38	11	27	0	262.12766	0.00000	0.0002
40	12	28	1	39	11	28	0	262.44282	-0.00013	0.0002
13	13	0	1	12	12	0	0	254.13745	0.00033	0.0002
14	13	1	1	13	12	1	0	254.40997	0.00039	0.0002
15	13	2	1	14	12	2	0	254.68099	0.00003	0.0002
16	13	3	1	15	12	3	0	254.96968	0.00004	0.0002
17	13	4	1	16	12	4	0	255.27995	0.00013	0.0002
18	13	5	1	17	12	5	0	255.59550	-0.00006	0.0002
19	13	6	1	18	12	6	0	255.90534	-0.00015	0.0002
20	13	7	1	19	12	7	0	256.21290	-0.00003	0.0002
21	13	8	1	20	12	8	0	256.51998	0.00003	0.0002
22	13	9	1	21	12	9	0	256.82699	-0.00008	0.0002
23	13	10	1	22	12	10	0	257.13445	-0.00001	0.0002
24	13	11	1	23	12	11	0	257.44212	-0.00006	0.0002
25	13	12	1	24	12	12	0	257.75032	0.00003	0.0002
26	13	13	1	25	12	13	0	258.05890	0.00012	0.0002
27	13	14	1	26	12	14	0	258.36769	0.00000	0.0002
28	13	15	1	27	12	15	0	258.67715	0.00012	0.0002
29	13	16	1	28	12	16	0	258.98670	-0.00010	0.0002
30	13	17	1	29	12	17	0	259.29694	-0.00005	0.0002
31	13	18	1	30	12	18	0	259.60767	0.00003	0.0002
32	13	19	1	31	12	19	0	259.91875	0.00004	0.0002
33	13	20	1	32	12	20	0	260.23019	-0.00002	0.0002
34	13	21	1	33	12	21	0	260.54220	0.00005	0.0002
35	13	22	1	34	12	22	0	260.85452	-0.00002	0.0002
36	13	23	1	35	12	23	0	261.16729	-0.00007	0.0002
37	13	24	1	36	12	24	0	261.48062	0.00001	0.0002
38	13	25	1	37	12	25	0	261.79437	0.00006	0.0002
39	13	26	1	38	12	26	0	262.10847	0.00001	0.0002
40	13	27	1	39	12	27	0	262.42299	-0.00007	0.0002
41	13	28	1	40	12	28	0	262.73811	-0.00002	0.0002
17	14	3	1	16	13	3	0	255.27041	-0.00006	0.0002
18	14	4	1	17	13	4	0	255.57665	0.00011	0.0002
19	14	5	1	18	13	5	0	255.89311	-0.00001	0.0002
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23	14	9	1	22	13	9	0	257.12617	-0.00003	0.0002
24	14	10	1	23	13	10	0	257.43349	0.00005	0.0002
25	14	11	1	24	13	11	0	257.74114	0.00015	0.0002
26	14	12	1	25	13	12	0	258.04879	-0.00010	0.0002
27	14	13	1	26	13	13	0	258.35718	0.00001	0.0002
28	14	14	1	27	13	14	0	258.66584	-0.00003	0.0002
29	14	15	1	28	13	15	0	258.97499	0.00002	0.0002
30	14	16	1	29	13	16	0	259.28447	-0.00004	0.0002
31	14	17	1	30	13	17	0	259.59458	0.00011	0.0002
32	14	18	1	31	13	18	0	259.90490	0.00003	0.0002
33	14	19	1	32	13	19	0	260.21576	0.00005	0.0002
34	14	20	1	33	13	20	0	260.52698	0.00001	0.0002
35	14	21	1	34	13	21	0	260.83862	-0.00006	0.0002
36	14	22	1	35	13	22	0	261.15101	0.00018	0.0002
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39	14	25	1	38	13	25	0	262.08969	-0.00021	0.0002
40	14	26	1	39	13	26	0	262.40375	-0.00007	0.0002
16	15	1	1	15	14	1	0	255.02321	-0.00006	0.0002
17	15	2	1	16	14	2	0	255.29343	-0.00002	0.0002
18	15	3	1	17	14	3	0	255.57213	-0.00015	0.0002
19	15	4	1	18	14	4	0	255.87353	0.00001	0.0002
20	15	5	1	19	14	5	0	256.19006	0.00019	0.0002
21	15	6	1	20	14	6	0	256.50255	-0.00022	0.0002
22	15	7	1	21	14	7	0	256.81116	0.00010	0.0002
23	15	8	1	22	14	8	0	257.11813	0.00001	0.0002
24	15	9	1	23	14	9	0	257.42504	0.00000	0.0002
25	15	10	1	24	14	10	0	257.73206	-0.00007	0.0002
26	15	11	1	25	14	11	0	258.03947	-0.00003	0.0002
27	15	12	1	26	14	12	0	258.34708	-0.00013	0.0002
28	15	13	1	27	14	13	0	258.65537	0.00009	0.0002
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30	15	15	1	29	14	15	0	259.27285	0.00021	0.0002
31	15	16	1	30	14	16	0	259.58198	0.00003	0.0002
32	15	17	1	31	14	17	0	259.89172	0.00004	0.0002
33	15	18	1	32	14	18	0	260.20188	0.00004	0.0002
34	15	19	1	33	14	19	0	260.51238	-0.00006	0.0002
35	15	20	1	34	14	20	0	260.82344	-0.00003	0.0002
36	15	21	1	35	14	21	0	261.13497	0.00002	0.0002
37	15	22	1	36	14	22	0	261.44691	0.00005	0.0002
38	15	23	1	37	14	23	0	261.75920	0.00000	0.0002
39	15	24	1	38	14	24	0	262.07199	-0.00001	0.0002
40	15	25	1	39	14	25	0	262.38508	-0.00016	0.0002
41	15	26	1	40	14	26	0	262.69877	-0.00017	0.0002
42	15	27	1	41	14	27	0	263.01278	-0.00033	0.0002
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17	16	1	1	16	15	1	0	255.32921	0.00007	0.0002
18	16	2	1	17	15	2	0	255.60035	0.00016	0.0002
19	16	3	1	18	15	3	0	255.87507	-0.00003	0.0002

20	16	4	1	19	15	4	0	256.17123	0.00012	0.0002
21	16	5	1	20	15	5	0	256.48591	-0.00001	0.0002
22	16	6	1	21	15	6	0	256.80059	0.00008	0.0002
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28	16	12	1	27	15	12	0	258.64523	-0.00001	0.0002
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30	16	14	1	29	15	14	0	259.26141	0.00003	0.0002
31	16	15	1	30	15	15	0	259.56981	-0.00023	0.0002
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34	16	18	1	33	15	18	0	260.49860	0.00005	0.0002
35	16	19	1	34	15	19	0	260.80886	-0.00005	0.0002
36	16	20	1	35	15	20	0	261.11965	-0.00006	0.0002
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39	16	23	1	38	15	23	0	262.05470	-0.00004	0.0002
40	16	24	1	39	15	24	0	262.36726	-0.00005	0.0002
41	16	25	1	40	15	25	0	262.68007	-0.00026	0.0002
42	16	26	1	41	15	26	0	262.99365	-0.00016	0.0002
43	16	27	1	42	15	27	0	263.30755	-0.00022	0.0002
17	17	0	1	16	16	0	0	255.35775	0.00006	0.0002
19	17	2	1	18	16	2	0	255.90662	-0.00014	0.0002
20	17	3	1	19	16	3	0	256.17878	-0.00011	0.0002
21	17	4	1	20	16	4	0	256.46956	0.00002	0.0002
22	17	5	1	21	16	5	0	256.78152	0.00004	0.0002
23	17	6	1	22	16	6	0	257.09752	-0.00004	0.0002
24	17	7	1	23	16	7	0	257.40743	-0.00017	0.0002
25	17	8	1	24	16	8	0	257.71500	0.00001	0.0002
26	17	9	1	25	16	9	0	258.02173	-0.00007	0.0002
27	17	10	1	26	16	10	0	258.32869	0.00006	0.0002
28	17	11	1	27	16	11	0	258.63565	-0.00002	0.0002
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30	17	13	1	29	16	13	0	259.25080	0.00012	0.0002
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33	17	16	1	32	16	16	0	260.17608	0.00006	0.0002
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35	17	18	1	34	16	18	0	260.79517	0.00018	0.0002
36	17	19	1	35	16	19	0	261.10515	0.00003	0.0002
37	17	20	1	36	16	20	0	261.41562	-0.00007	0.0002
38	17	21	1	37	16	21	0	261.72668	-0.00001	0.0002
39	17	22	1	38	16	22	0	262.03806	-0.00008	0.0002
40	17	23	1	39	16	23	0	262.34996	-0.00006	0.0002
41	17	24	1	40	16	24	0	262.66228	-0.00008	0.0002
42	17	25	1	41	16	25	0	262.97510	-0.00006	0.0002
43	17	26	1	42	16	26	0	263.28834	-0.00009	0.0002
44	17	27	1	43	16	27	0	263.60211	-0.00007	0.0002
20	18	2	1	19	17	2	0	256.21290	0.00004	0.0002
21	18	3	1	20	17	3	0	256.48349	-0.00004	0.0002
22	18	4	1	21	17	4	0	256.76889	-0.00003	0.0002
23	18	5	1	22	17	5	0	257.07672	-0.00017	0.0002
24	18	6	1	23	17	6	0	257.39378	-0.00010	0.0002
25	18	7	1	24	17	7	0	257.70511	-0.00009	0.0002
26	18	8	1	25	17	8	0	258.01300	0.00009	0.0002
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28	18	10	1	27	17	10	0	258.62649	0.00004	0.0002
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30	18	12	1	29	17	12	0	259.24044	-0.00004	0.0002
31	18	13	1	30	17	13	0	259.54805	0.00009	0.0002
32	18	14	1	31	17	14	0	259.85587	0.00007	0.0002
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35	18	17	1	34	17	17	0	260.78177	0.00007	0.0002
36	18	18	1	35	17	18	0	261.09133	0.00017	0.0002
37	18	19	1	36	17	19	0	261.40101	-0.00005	0.0002
38	18	20	1	37	17	20	0	261.71139	-0.00001	0.0002
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40	18	22	1	39	17	22	0	262.33323	-0.00016	0.0002
41	18	23	1	40	17	23	0	262.64499	-0.00006	0.0002
42	18	24	1	41	17	24	0	262.95705	-0.00012	0.0002
43	18	25	1	42	17	25	0	263.26947	-0.00027	0.0002
44	18	26	1	43	17	26	0	263.58227	-0.00053	0.0002
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19	19	0	1	18	18	0	0	255.96508	0.00003	0.0002
21	19	2	1	20	18	2	0	256.51840	0.00007	0.0002
22	19	3	1	21	18	3	0	256.78864	-0.00014	0.0002
24	19	5	1	23	18	5	0	257.37239	-0.00013	0.0002
25	19	6	1	24	18	6	0	257.68926	-0.00019	0.0002
26	19	7	1	25	18	7	0	258.00195	-0.00032	0.0002
27	19	8	1	26	18	8	0	258.31066	0.00018	0.0002
28	19	9	1	27	18	9	0	258.61742	0.00008	0.0002
29	19	10	1	28	18	10	0	258.92396	-0.00001	0.0002
30	19	11	1	29	18	11	0	259.23073	0.00001	0.0002
32	19	13	1	31	18	13	0	259.84509	0.00012	0.0002
33	19	14	1	32	18	14	0	260.15280	0.00020	0.0002
34	19	15	1	33	18	15	0	260.46032	-0.00029	0.0002
35	19	16	1	34	18	16	0	260.76899	-0.00003	0.0002
36	19	17	1	35	18	17	0	261.07789	0.00005	0.0002
37	19	18	1	36	18	18	0	261.38716	0.00008	0.0002
38	19	19	1	37	18	19	0	261.69674	-0.00002	0.0002
39	19	20	1	38	18	20	0	262.00688	0.00002	0.0002
40	19	21	1	39	18	21	0	262.31733	-0.00007	0.0002
41	19	22	1	40	18	22	0	262.62832	-0.00007	0.0002
42	19	23	1	41	18	23	0	262.93972	-0.00011	0.0002
43	19	24	1	42	18	24	0	263.25154	-0.00018	0.0002
44	19	25	1	43	18	25	0	263.56392	-0.00016	0.0002
45	19	26	1	44	18	26	0	263.87669	-0.00023	0.0002
20	20	0	1	19	19	0	0	256.26806	0.00004	0.0002
21	20	1	1	20	19	1	0	256.54676	0.00021	0.0002
22	20	2	1	21	19	2	0	256.82311	0.00002	0.0002
23	20	3	1	22	19	3	0	257.09419	-0.00011	0.0002
24	20	4	1	23	19	4	0	257.37082	0.00010	0.0002
25	20	5	1	24	19	5	0	257.66825	-0.00049	0.0002
26	20	6	1	25	19	6	0	257.98429	-0.00007	0.0002
27	20	7	1	26	19	7	0	258.29876	-0.00002	0.0002
29	20	9	1	28	19	9	0	258.91463	-0.00002	0.0002
30	20	10	1	29	19	10	0	259.22117	-0.00004	0.0002
31	20	11	1	30	19	11	0	259.52782	0.00001	0.0002
32	20	12	1	31	19	12	0	259.83461	-0.00001	0.0002
33	20	13	1	32	19	13	0	260.14182	0.00011	0.0002
34	20	14	1	33	19	14	0	260.44928	0.00014	0.0002
35	20	15	1	34	19	15	0	260.75714	0.00020	0.0002
36	20	16	1	35	19	16	0	261.06516	0.00003	0.0002
37	20	17	1	36	19	17	0	261.37389	0.00017	0.0002
38	20	18	1	37	19	18	0	261.68290	0.00016	0.0002
39	20	19	1	38	19	19	0	261.99211	-0.00007	0.0002
40	20	20	1	39	19	20	0	262.30204	-0.00001	0.0002
41	20	21	1	40	19	21	0	262.61230	-0.00007	0.0002
42	20	22	1	41	19	22	0	262.92319	0.00006	0.0002
43	20	23	1	42	19	23	0	263.23431	-0.00004	0.0002
44	20	24	1	43	19	24	0	263.54577	-0.00026	0.0002
45	20	25	1	44	19	25	0	263.85797	-0.00020	0.0002
46	20	26	1	45	19	26	0	264.17056	-0.00024	0.0002
22	21	1	1	21	20	1	0	256.84978	0.00026	0.0002
24	21	3	1	23	20	3	0	257.39963	-0.00007	0.0002
25	21	4	1	24	20	4	0	257.67307	-0.00005	0.0002
26	21	5	1	25	20	5	0	257.96586	0.00010	0.0002
27	21	6	1	26	20	6	0	258.27875	-0.00007	0.0002
28	21	7	1	27	20	7	0	258.59469	0.00003	0.0002
30	21	9	1	29	20	9	0	259.21166	0.00002	0.0002
31	21	10	1	30	20	10	0	259.51830	0.00014	0.0002
32	21	11	1	31	20	11	0	259.82485	0.00021	0.0002
33	21	12	1	32	20	12	0	260.13137	0.00010	0.0002
34	21	13	1	33	20	13	0	260.43818	-0.00001	0.0002
35	21	14	1	34	20	14	0	260.74565	0.00024	0.0002
36	21	15	1	35	20	15	0	261.05313	0.00013	0.0002
37	21	16	1	36	20	16	0	261.36108	0.00012	0.0002
38	21	17	1	37	20	17	0	261.66949	0.00016	0.0002
39	21	18	1	38	20	18	0	261.97830	0.00017	0.0002
40	21	19	1	39	20	19	0	262.28728	-0.00006	0.0002
41	21	20	1	40	20	20	0	262.59701	0.00002	0.0002
42	21	21	1	41	20	21	0	262.90709	0.00000	0.0002
43	21	22	1	42	20	22	0	263.21763	0.00000	0.0002
44	21	23	1	43	20	23	0	263.52869	0.00007	0.0002
45	21	24	1	44	20	24	0	263.83997	-0.00010	0.0002
46	21	25	1	45	20	25	0	264.15180	-0.00020	0.0002
22	22	0	1	21	21	0	0	256.87267	0.00012	0.0002
23	22	1	1	22	21	1	0	257.15217	0.00017	0.0002
24	22	2	1	23	21	2	0	257.43071	0.00020	0.0002
26	22	4	1	25	21	4	0	257.97609	-0.00030	0.0002
27	22	5	1	26	21	5	0	258.26368	-0.00006	0.0002
28	22	6	1	27	21	6	0	258.57286	-0.00023	0.0002
29	22	7	1	28	21	7	0	258.88994	0.00006	0.0002

30	22	8	1	29	21	8	0	259.20096	0.00011	0.0002
31	22	9	1	30	21	9	0	259.50849	0.00017	0.0002
32	22	10	1	31	21	10	0	259.81493	0.00011	0.0002
33	22	11	1	32	21	11	0	260.12128	0.00010	0.0002
34	22	12	1	33	21	12	0	260.42760	-0.00006	0.0002
35	22	13	1	34	21	13	0	260.73437	-0.00002	0.0002
36	22	14	1	35	21	14	0	261.04163	0.00021	0.0002
37	22	15	1	36	21	15	0	261.34893	0.00014	0.0002
38	22	16	1	37	21	16	0	261.65666	0.00012	0.0002
39	22	17	1	38	21	17	0	261.96481	0.00012	0.0002
40	22	18	1	39	21	18	0	262.27352	0.00027	0.0002
41	22	19	1	40	21	19	0	262.58220	-0.00004	0.0002
42	22	20	1	41	21	20	0	262.89175	0.00008	0.0002
43	22	21	1	42	21	21	0	263.20143	-0.00011	0.0002
44	22	22	1	43	21	22	0	263.51183	-0.00003	0.0002
45	22	23	1	44	21	23	0	263.82242	-0.00021	0.0002
46	22	24	1	45	21	24	0	264.13368	-0.00019	0.0002
47	22	25	1	46	21	25	0	264.44559	0.00000	0.0002
23	23	0	1	22	22	0	0	257.17412	0.00001	0.0002
24	23	1	1	23	22	1	0	257.45397	-0.00002	0.0002
25	23	2	1	24	22	2	0	257.73331	0.00005	0.0002
26	23	3	1	25	22	3	0	258.00901	-0.00003	0.0002
27	23	4	1	26	22	4	0	258.28031	0.00003	0.0002
28	23	5	1	27	22	5	0	258.56247	-0.00027	0.0002
29	23	6	1	28	22	6	0	258.86749	-0.00006	0.0002
30	23	7	1	29	22	7	0	259.18426	-0.00015	0.0002
31	23	8	1	30	22	8	0	259.49670	-0.00005	0.0002
33	23	10	1	32	22	10	0	260.11118	0.00000	0.0002
34	23	11	1	33	22	11	0	260.41760	0.00016	0.0002
35	23	12	1	34	22	12	0	260.72371	-0.00006	0.0002
36	23	13	1	35	22	13	0	261.03024	-0.00008	0.0002
37	23	14	1	36	22	14	0	261.33733	0.00018	0.0002
38	23	15	1	37	22	15	0	261.64454	0.00022	0.0002
39	23	16	1	38	22	16	0	261.95176	-0.00010	0.0002
40	23	17	1	39	22	17	0	262.25993	0.00014	0.0002
41	23	18	1	40	22	18	0	262.56844	0.00032	0.0002
42	23	19	1	41	22	19	0	262.87675	-0.00014	0.0002
43	23	20	1	42	22	20	0	263.18604	-0.00005	0.0002
44	23	21	1	43	22	21	0	263.49572	-0.00001	0.0002
45	23	22	1	44	22	22	0	263.80588	0.00004	0.0002
46	23	23	1	45	22	23	0	264.11626	-0.00013	0.0002
47	23	24	1	46	22	24	0	264.42726	-0.00015	0.0002
48	23	25	1	47	22	25	0	264.73881	-0.00012	0.0002
24	24	0	1	23	23	0	0	257.47523	0.00001	0.0002
25	24	1	1	24	23	1	0	257.75552	0.00002	0.0002
27	24	3	1	26	23	3	0	258.31257	-0.00009	0.0002
28	24	4	1	27	23	4	0	258.58428	-0.00020	0.0002
29	24	5	1	28	23	5	0	258.86256	-0.00020	0.0002
30	24	6	1	29	23	6	0	259.16232	-0.00021	0.0002
31	24	7	1	30	23	7	0	259.47821	-0.00013	0.0002
32	24	8	1	31	23	8	0	259.79189	-0.00025	0.0002
34	24	10	1	33	23	10	0	260.40731	0.00005	0.0002
35	24	11	1	34	23	11	0	260.71344	0.00001	0.0002
36	24	12	1	35	23	12	0	261.01965	0.00003	0.0002
37	24	13	1	36	23	13	0	261.32583	-0.00016	0.0002
38	24	14	1	37	23	14	0	261.63290	0.00027	0.0002
39	24	15	1	38	23	15	0	261.93969	0.00010	0.0002
40	24	16	1	39	23	16	0	262.24698	0.00007	0.0002
41	24	17	1	40	23	17	0	262.55481	0.00019	0.0002
42	24	18	1	41	23	18	0	262.86304	0.00030	0.0002
44	24	20	1	43	23	20	0	263.48020	-0.00006	0.0002
45	24	21	1	44	23	21	0	263.78971	0.00002	0.0002
46	24	22	1	45	23	22	0	264.09959	0.00003	0.0002
47	24	23	1	46	23	23	0	264.40984	-0.00005	0.0002
48	24	24	1	47	23	24	0	264.72056	-0.00014	0.0002
25	25	0	1	24	24	0	0	257.77583	-0.00002	0.0002
26	25	1	1	25	24	1	0	258.05654	0.00001	0.0002
28	25	3	1	27	24	3	0	258.61548	-0.00004	0.0002
29	25	4	1	28	24	4	0	258.88858	-0.00006	0.0002
30	25	5	1	29	24	5	0	259.16365	-0.00010	0.0002
31	25	6	1	30	24	6	0	259.45804	-0.00023	0.0002
32	25	7	1	31	24	7	0	259.77166	-0.00017	0.0002
33	25	8	1	32	24	8	0	260.08671	-0.00024	0.0002
35	25	10	1	34	24	10	0	260.70293	-0.00011	0.0002
36	25	11	1	35	24	11	0	261.00907	-0.00008	0.0002
37	25	12	1	36	24	12	0	261.31519	-0.00001	0.0002
38	25	13	1	37	24	13	0	261.62159	0.00019	0.0002
39	25	14	1	38	24	14	0	261.92793	0.00008	0.0002
40	25	15	1	39	24	15	0	262.23473	0.00013	0.0002
41	25	16	1	40	24	16	0	262.54199	0.00028	0.0002
42	25	17	1	41	24	17	0	262.84947	0.00027	0.0002
43	25	18	1	42	24	18	0	263.15755	0.00046	0.0002
45	25	20	1	44	24	20	0	263.77414	-0.00003	0.0002
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47	25	22	1	46	24	22	0	264.39315	0.00012	0.0002
48	25	23	1	47	24	23	0	264.70325	0.00011	0.0002
49	25	24	1	48	24	24	0	265.01367	-0.00007	0.0002
26	26	0	1	25	25	0	0	258.07598	-0.00003	0.0002
27	26	1	1	26	25	1	0	258.35718	0.00009	0.0002
28	26	2	1	27	25	2	0	258.63812	0.00003	0.0002
29	26	3	1	28	25	3	0	258.91768	0.00001	0.0002
30	26	4	1	29	25	4	0	259.19221	-0.00020	0.0002
32	26	6	1	31	25	6	0	259.75482	-0.00012	0.0002
33	26	7	1	32	25	7	0	260.06512	0.00000	0.0002
34	26	8	1	33	25	8	0	260.38096	-0.00020	0.0002
35	26	9	1	34	25	9	0	260.69136	-0.00014	0.0002
36	26	10	1	35	25	10	0	260.99867	0.00015	0.0002
37	26	11	1	36	25	11	0	261.30469	0.00010	0.0002
38	26	12	1	37	25	12	0	261.61047	-0.00004	0.0002
39	26	13	1	38	25	13	0	261.91646	-0.00009	0.0002
40	26	14	1	39	25	14	0	262.22287	0.00008	0.0002
41	26	15	1	40	25	15	0	262.52929	-0.00006	0.0002
42	26	16	1	41	25	16	0	262.83633	0.00009	0.0002
43	26	17	1	42	25	17	0	263.14372	0.00020	0.0002
44	26	18	1	43	25	18	0	263.45168	0.00048	0.0002
47	26	21	1	46	25	21	0	264.37682	0.00003	0.0002
48	26	22	1	47	25	22	0	264.68628	0.00005	0.0002
49	26	23	1	48	25	23	0	264.99619	0.00005	0.0002
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27	27	0	1	26	26	0	0	258.37562	-0.00009	0.0002
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29	27	2	1	28	26	2	0	258.93873	0.00007	0.0002
30	27	3	1	29	26	3	0	259.21914	0.00000	0.0002
31	27	4	1	30	26	4	0	259.49533	-0.00026	0.0002
33	27	6	1	32	26	6	0	260.05252	-0.00005	0.0002
34	27	7	1	33	26	7	0	260.35850	-0.00002	0.0002
35	27	8	1	34	26	8	0	260.67469	-0.00006	0.0002
36	27	9	1	35	26	9	0	260.98612	-0.00017	0.0002
37	27	10	1	36	26	10	0	261.29387	0.00019	0.0002
38	27	11	1	37	26	11	0	261.59974	-0.00002	0.0002
39	27	12	1	38	26	12	0	261.90565	0.00009	0.0002
40	27	13	1	39	26	13	0	262.21143	0.00001	0.0002
41	27	14	1	40	26	14	0	262.51757	0.00008	0.0002
42	27	15	1	41	26	15	0	262.82414	0.00030	0.0002
43	27	16	1	42	26	16	0	263.13081	0.00029	0.0002
44	27	17	1	43	26	17	0	263.43788	0.00030	0.0002
28	28	0	1	27	27	0	0	258.67477	-0.00019	0.0002
29	28	1	1	28	27	1	0	258.95676	-0.00004	0.0002
30	28	2	1	29	27	2	0	259.23876	0.00003	0.0002
31	28	3	1	30	27	3	0	259.51971	-0.00026	0.0002
32	28	4	1	31	27	4	0	259.79803	0.00001	0.0002
33	28	5	1	32	27	5	0	260.07065	-0.00022	0.0002
34	28	6	1	33	27	6	0	260.35125	0.00004	0.0002
36	28	8	1	35	27	8	0	260.96749	-0.00031	0.0002
37	28	9	1	36	27	9	0	261.28025	-0.00037	0.0002
38	28	10	1	37	27	10	0	261.58849	-0.00003	0.0002
40	28	12	1	39	27	12	0	262.20051	0.00016	0.0002
41	28	13	1	40	27	13	0	262.50622	0.00018	0.0002
42	28	14	1	41	27	14	0	262.81216	0.00024	0.0002
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44	28	16	1	43	27	16	0	263.42477	0.00022	0.0002
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46	28	18	1	45	27	18	0	264.03917	0.00056	0.0002
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50	28	22	1	49	27	22	0	265.27199	0.00012	0.0002
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52	28	24	1	51	27	24	0	265.89135	0.00005	0.0002
29	29	0	1	28	28	0	0	258.97361	-0.00014	0.0002
30	29	1	1	29	28	1	0	259.25577	-0.00019	0.0002
31	29	2	1	30	28	2	0	259.53805	-0.00028	0.0002
33	29	4	1	32	28	4	0	260.09950	-0.00019	0.0002
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35	29	6	1	34	28	6	0	260.65077	0.00001	0.0002
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38	29	9	1	37	28	9	0	261.57467	0.00024	0.0002

40	29	11	1	39	28	11	0	262.18937	0.00012	0.0002
41	29	12	1	40	28	12	0	262.49488	0.00003	0.0002
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36	30	6	1	35	29	6	0	260.95106	-0.00008	0.0002
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40	30	10	1	39	29	10	0	262.17711	-0.00003	0.0002
41	30	11	1	40	29	11	0	262.48397	0.00041	0.0002
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27	3	24	1	28	4	24	0	241.69855	0.00000	0.0002
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16	4	12	1	17	5	12	0	244.96472	-0.00014	0.0002
17	4	13	1	18	5	13	0	244.66403	-0.00006	0.0002
19	4	15	1	20	5	15	0	244.06387	-0.00012	0.0002
21	4	17	1	22	5	17	0	243.46577	-0.00002	0.0002
22	4	18	1	23	5	18	0	243.16738	0.00000	0.0002
23	4	19	1	24	5	19	0	242.86952	0.00007	0.0002
24	4	20	1	25	5	20	0	242.57210	0.00015	0.0002
25	4	21	1	26	5	21	0	242.27498	0.00005	0.0002
26	4	22	1	27	5	22	0	241.97840	0.00005	0.0002
27	4	23	1	28	5	23	0	241.68223	0.00001	0.0002
28	4	24	1	29	5	24	0	241.38646	-0.00008	0.0002
29	4	25	1	30	5	25	0	241.09139	0.00010	0.0002
30	4	26	1	31	5	26	0	240.79650	0.00002	0.0002
31	4	27	1	32	5	27	0	240.50220	0.00010	0.0002
16	5	11	1	17	6	11	0	244.95698	-0.00007	0.0002
17	5	12	1	18	6	12	0	244.65563	0.00011	0.0002
18	5	13	1	19	6	13	0	244.35461	0.00011	0.0002
19	5	14	1	20	6	14	0	244.05397	0.00001	0.0002
20	5	15	1	21	6	15	0	243.75393	0.00003	0.0002
21	5	16	1	22	6	16	0	243.45434	0.00003	0.0002
22	5	17	1	23	6	17	0	243.15525	0.00004	0.0002
23	5	18	1	24	6	18	0	242.85663	0.00007	0.0002
24	5	19	1	25	6	19	0	242.55840	0.00001	0.0002
25	5	20	1	26	6	20	0	242.26074	0.00006	0.0002
26	5	21	1	27	6	21	0	241.96340	-0.00002	0.0002
27	5	22	1	28	6	22	0	241.66644	-0.00017	0.0002
28	5	23	1	29	6	23	0	241.37023	-0.00003	0.0002
29	5	24	1	30	6	24	0	241.07434	-0.00001	0.0002
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31	5	26	1	32	6	26	0	240.48371	-0.00015	0.0002
32	5	27	1	33	6	27	0	240.18922	-0.00005	0.0002
13	6	7	1	14	7	7	0	245.86031	0.00005	0.0002
14	6	8	1	15	7	8	0	245.55629	-0.00003	0.0002
15	6	9	1	16	7	9	0	245.25286	-0.00009	0.0002
16	6	10	1	17	7	10	0	244.95014	0.00002	0.0002
17	6	11	1	18	7	11	0	244.64778	-0.00004	0.0002
18	6	12	1	19	7	12	0	244.34616	0.00013	0.0002
19	6	13	1	20	7	13	0	244.04466	-0.00009	0.0002
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21	6	15	1	22	7	15	0	243.44381	0.00018	0.0002
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23	6	17	1	24	7	17	0	242.84443	-0.00003	0.0002
24	6	18	1	25	7	18	0	242.54550	-0.00007	0.0002
25	6	19	1	26	7	19	0	242.24719	0.00003	0.0002
26	6	20	1	27	7	20	0	241.94926	0.00004	0.0002
27	6	21	1	28	7	21	0	241.65173	0.00000	0.0002
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29	6	23	1	30	7	23	0	241.05801	-0.00011	0.0002
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33	6	27	1	34	7	27	0	239.87636	0.00009	0.0002
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35	6	29	1	36	7	29	0	239.28815	0.00014	0.0002
36	6	30	1	37	7	30	0	238.99453	-0.00003	0.0002
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19	7	12	1	20	8	12	0	244.03645	0.00006	0.0002
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21	7	14	1	22	8	14	0	243.43380	0.00003	0.0002
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23	7	16	1	24	8	16	0	242.83309	-0.00004	0.0002
25	7	18	1	26	8	18	0	242.23446	0.00005	0.0002
26	7	19	1	27	8	19	0	241.93579	0.00002	0.0002
27	7	20	1	28	8	20	0	241.63739	-0.00019	0.0002
28	7	21	1	29	8	21	0	241.33972	-0.00015	0.0002
29	7	22	1	30	8	22	0	241.04272	0.00012	0.0002
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36	7	29	1	37	8	29	0	238.97439	-0.00007	0.0002
12	8	4	1	13	9	4	0	246.16813	0.00024	0.0002
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16	8	8	1	17	9	8	0	244.93931	-0.00005	0.0002
17	8	9	1	18	9	9	0	244.63518	-0.00013	0.0002
18	8	10	1	19	9	10	0	244.33168	-0.00017	0.0002
19	8	11	1	20	9	11	0	244.02910	0.00014	0.0002
20	8	12	1	21	9	12	0	243.72659	-0.00002	0.0002
21	8	13	1	22	9	13	0	243.42480	0.00003	0.0002
22	8	14	1	23	9	14	0	243.12355	0.00010	0.0002
23	8	15	1	24	9	15	0	242.82262	-0.00001	0.0002
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29	8	21	1	30	9	21	0	241.02788	0.00005	0.0002
30	8	22	1	31	9	22	0	240.73028	-0.00007	0.0002
31	8	23	1	32	9	23	0	240.43331	-0.00001	0.0002
32	8	24	1	33	9	24	0	240.13671	-0.00004	0.0002
33	8	25	1	34	9	25	0	239.84059	-0.00005	0.0002
34	8	26	1	35	9	26	0	239.54494	-0.00004	0.0002
35	8	27	1	36	9	27	0	239.24972	-0.00006	0.0002
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21	9	12	1	22	10	12	0	243.41677	0.00008	0.0002
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27	9	18	1	28	10	18	0	241.61155	-0.00006	0.0002
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35	8	27	1	34	7	27	0	260.94355	-0.00004	0.0002
36	8	28	1	35	7	28	0	261.25985	0.00008	0.0002
37	8	29	1	36	7	29	0	261.57644	0.00007	0.0002
15	9	6	1	14	8	6	0	254.70522	-0.00001	0.0002
16	9	7	1	15	8	7	0	255.01234	-0.00003	0.0002
17	9	8	1	16	8	8	0	255.31973	-0.00002	0.0002
18	9	9	1	17	8	9	0	255.62753	0.00006	0.0002
19	9	10	1	18	8	10	0	255.93548	-0.00009	0.0002
20	9	11	1	19	8	11	0	256.24403	-0.00006	0.0002
21	9	12	1	20	8	12	0	256.55296	-0.00009	0.0002
22	9	13	1	21	8	13	0	256.86249	0.00006	0.0002
23	9	14	1	22	8	14	0	257.17233	0.00007	0.0002

24	9	15	1	23	8	15	0	257.48255	0.00003	0.0002
25	9	16	1	24	8	16	0	257.79323	0.00000	0.0002
26	9	17	1	25	8	17	0	258.10444	0.00004	0.0002
27	9	18	1	26	8	18	0	258.41594	-0.00005	0.0002
28	9	19	1	27	8	19	0	258.72814	0.00010	0.0002
29	9	20	1	28	8	20	0	259.04048	-0.00003	0.0002
30	9	21	1	29	8	21	0	259.35337	-0.00005	0.0002
31	9	22	1	30	8	22	0	259.66685	0.00007	0.0002
32	9	23	1	31	8	23	0	259.98056	0.00001	0.0002
33	9	24	1	32	8	24	0	260.29474	-0.00002	0.0002
34	9	25	1	33	8	25	0	260.60934	-0.00006	0.0002
35	9	26	1	34	8	26	0	260.92445	-0.00003	0.0002
36	9	27	1	35	8	27	0	261.24002	0.00003	0.0002
36	9	27	1	35	8	27	0	261.24002	0.00003	0.0002

Table S11: Result of the fit for the vibrational state ν_{23} including data from the millimeter-wave region and from the far-infrared domain.

Parameters	ν_{23}
Band Center [MHz]	7499036.59(15)
Band Center [cm^{-1}]	250.1409355(50)
A [MHz]	4666.69499(71)
B [MHz]	4494.24093(52)
C [MHz]	2608.57532(69)
Δ_J [kHz]	1.0869(19)
Δ_{JK} [kHz]	-1.8831(68)
Δ_K [kHz]	1.2744(55)
δ_J [kHz]	0.0036(12)
δ_K [kHz]	2.491(42)
Φ_J [Hz]	0.0194(15)
Φ_{JK} [Hz]	-0.700(17)
Φ_{KJ} [Hz]	2.049(42)
Φ_K [Hz]	-1.351(26)
ϕ_J [Hz]	-0.0127(10)
ϕ_{JK} [Hz]	0.427(21)
ϕ_K [Hz]	-8.93(18)
L_J [mHz]	-0.00327(28)
L_{JJK} [mHz]	-
L_{JK} [mHz]	1.352(13)
L_{KKJ} [mHz]	-3.592(33)
L_K [mHz]	2.244(19)
l_J [mHz]	-0.00120(13)
l_{JK} [mHz]	-0.0572(15)
l_{KJ} [mHz]	-0.1490(46)
l_K [mHz]	10.696(89)

Table S12: Line list of ν_{22} of THP. Transitions in the mmw range are in MHz and transitions in the far-infrared domain are in cm^{-1}.

J′	K_a′	K_c′	v	J″	K_a″	K_c″	v	Obs.	o – c	Exp. Error
Millmeter-wave transitions										
12	8	4	1	11	7	4	1	109349.2772	-0.0184	0.035
12	10	2	1	11	9	2	1	108770.5087	0.0095	0.035
16	7	10	1	15	7	9	1	108756.0355	-0.0004	0.035
35	8	27	1	35	8	28	1	108303.9810	0.0356	0.035
36	9	27	1	36	9	28	1	108289.7537	0.0520	0.035
37	10	27	1	37	10	28	1	108274.5362	0.0542	0.035
38	11	27	1	38	11	28	1	108258.3033	0.0653	0.035
41	14	27	1	41	14	28	1	108202.9100	0.0498	0.035
42	15	27	1	42	15	28	1	108182.0551	0.0436	0.035
43	16	27	1	43	16	28	1	108159.8952	0.0177	0.035
44	17	27	1	44	17	28	1	108136.3614	-0.0402	0.035
45	18	27	1	45	18	28	1	108111.5418	0.0158	0.035
46	19	27	1	46	19	28	1	108085.1892	-0.0014	0.035
47	20	27	1	47	20	28	1	108057.3326	-0.0022	0.035
48	21	27	1	48	21	28	1	108027.8668	-0.0290	0.035
49	22	27	1	49	22	28	1	107996.8733	0.0641	0.035
50	23	27	1	50	23	28	1	107964.0146	0.0057	0.035
51	24	27	1	51	24	28	1	107929.4583	0.0308	0.035
52	25	27	1	52	25	28	1	107892.9711	-0.0244	0.035
53	26	27	1	53	26	28	1	107854.6047	-0.0372	0.035
55	28	27	1	55	28	28	1	107771.8549	-0.0215	0.035
56	29	27	1	56	29	28	1	107727.2774	-0.0354	0.035
57	30	27	1	57	30	28	1	107680.4943	-0.0302	0.035
58	31	27	1	58	31	28	1	107631.3892	-0.0415	0.035
60	33	27	1	60	33	28	1	107525.9654	-0.0279	0.035
61	34	27	1	61	34	28	1	107469.4555	-0.0219	0.035
18	3	15	1	17	3	14	1	107313.4521	0.0140	0.035
14	8	6	1	13	8	5	1	106346.2231	0.0302	0.035
17	4	13	1	16	4	12	1	106060.7400	0.0048	0.035
20	0	20	1	19	0	19	1	105879.3888	0.0233	0.035
16	5	11	1	15	5	10	1	104809.8665	0.0202	0.035
19	1	18	1	18	1	17	1	104625.6812	0.0119	0.035
13	10	4	1	12	10	3	1	104548.1169	-0.0667	0.035
31	5	26	1	31	5	27	1	104401.6027	-0.0015	0.035
32	6	26	1	32	6	27	1	104390.1790	0.0488	0.035
33	7	26	1	33	7	27	1	104377.8577	0.0737	0.035
35	9	26	1	35	9	27	1	104350.3378	0.0542	0.035
36	10	26	1	36	10	27	1	104335.0944	0.0647	0.035
37	11	26	1	37	11	27	1	104318.7813	0.0770	0.035
38	12	26	1	38	12	27	1	104301.3234	0.0696	0.035
39	13	26	1	39	13	27	1	104282.6785	0.0558	0.035
41	15	26	1	41	15	27	1	104241.6428	0.0526	0.035
42	16	26	1	42	16	27	1	104219.1247	0.0545	0.035
43	17	26	1	43	17	27	1	104195.1727	0.0401	0.035
45	19	26	1	45	19	27	1	104142.7774	0.0282	0.035
46	20	26	1	46	20	27	1	104114.1953	0.0241	0.035
47	21	26	1	47	21	27	1	104083.9463	0.0349	0.035
48	22	26	1	48	22	27	1	104051.8926	-0.0067	0.035
49	23	26	1	49	23	27	1	104018.0795	0.0170	0.035
50	24	26	1	50	24	27	1	103982.3177	-0.0088	0.035
51	25	26	1	51	25	27	1	103944.5404	-0.0749	0.035
52	26	26	1	52	26	27	1	103904.8283	-0.0221	0.035
53	27	26	1	53	27	27	1	103862.9106	-0.0408	0.035
54	28	26	1	54	28	27	1	103818.8053	-0.0306	0.035
55	29	26	1	55	29	27	1	103772.3682	-0.0509	0.035
56	30	26	1	56	30	27	1	103723.5904	-0.0235	0.035
57	31	26	1	57	31	27	1	103672.3021	-0.0288	0.035
58	32	26	1	58	32	27	1	103618.4766	-0.0017	0.035
15	7	9	1	14	7	8	1	103564.2299	0.0212	0.035
59	33	26	1	59	33	27	1	103561.9581	-0.0036	0.035
60	34	26	1	60	34	27	1	103502.6708	-0.0132	0.035
62	36	26	1	62	36	27	1	103375.4361	-0.0076	0.035
18	2	16	1	17	2	15	1	103372.0615	0.0195	0.035
63	37	26	1	63	37	27	1	103307.3404	0.0675	0.035
64	38	26	1	64	38	27	1	103235.9970	0.0728	0.035
14	7	7	1	13	7	6	1	102337.6830	0.0202	0.035
14	8	7	1	13	8	6	1	102336.6852	0.0133	0.035
17	3	14	1	16	3	13	1	102118.7607	0.0485	0.035
16	4	12	1	15	4	11	1	100866.2192	-0.0186	0.035
19	0	19	1	18	0	18	1	100684.5476	0.0310	0.035
26	2	25	1	26	0	26	1	100499.1775	-0.0146	0.035
11	3	9	1	10	2	9	1	100497.8221	0.0216	0.035
27	3	25	1	27	1	26	1	100490.9473	-0.0113	0.035
11	4	8	1	10	3	8	1	100487.5967	0.0238	0.035
28	4	25	1	28	2	26	1	100481.9935	-0.0142	0.035
29	5	25	1	29	3	26	1	100472.3792	0.0851	0.035
32	7	25	1	32	7	26	1	100438.1512	0.0491	0.035
33	8	25	1	33	8	26	1	100424.8793	0.0251	0.035
34	9	25	1	34	9	26	1	100410.6433	0.0498	0.035
35	10	25	1	35	10	26	1	100395.3166	0.0519	0.035
36	11	25	1	36	11	26	1	100378.8642	0.0532	0.035
11	8	4	1	10	7	4	1	100366.7524	0.0368	0.035
37	12	25	1	37	12	26	1	100361.2207	0.0468	0.035
38	13	25	1	38	13	26	1	100342.3261	0.0332	0.035
39	14	25	1	39	14	26	1	100322.1530	0.0470	0.035
40	15	25	1	40	15	26	1	100300.5648	0.0157	0.035
41	16	25	1	41	16	26	1	100277.6068	0.0505	0.035
42	17	25	1	42	17	26	1	100253.0301	-0.0298	0.035
44	19	25	1	44	19	26	1	100199.2985	0.0220	0.035
46	21	25	1	46	21	26	1	100138.6261	0.0085	0.035
47	22	25	1	47	22	26	1	100105.5049	-0.0145	0.035
48	23	25	1	48	23	26	1	100070.4536	-0.0163	0.035
49	24	25	1	49	24	26	1	100033.4066	0.0199	0.035
50	25	25	1	50	25	26	1	99994.1924	0.0068	0.035
51	26	25	1	51	26	26	1	99952.7571	-0.0226	0.035
52	27	25	1	52	27	26	1	99909.0495	-0.0306	0.035
53	28	25	1	53	28	26	1	99862.9712	-0.0241	0.035
54	29	25	1	54	29	26	1	99814.4104	-0.0207	0.035
55	30	25	1	55	30	26	1	99763.2816	-0.0089	0.035
57	32	25	1	57	32	26	1	99652.8976	0.0181	0.035
15	5	10	1	14	5	9	1	99616.1961	0.0145	0.035
58	33	25	1	58	33	26	1	99593.4205	0.0194	0.035
59	34	25	1	59	34	26	1	99530.8905	-0.0396	0.035
60	35	25	1	60	35	26	1	99465.3562	0.0010	0.035
18	1	17	1	17	1	16	1	99430.8460	0.0437	0.035
61	36	25	1	61	36	26	1	99396.5934	0.0327	0.035
62	37	25	1	62	37	26	1	99324.4434	0.0155	0.035
63	38	25	1	63	38	26	1	99248.9032	0.0687	0.035
14	6	8	1	13	6	7	1	98373.8175	-0.0378	0.035
17	2	15	1	16	2	14	1	98177.1735	-0.0050	0.035
13	7	6	1	12	7	5	1	97170.1974	0.0278	0.035
13	8	6	1	12	8	5	1	97158.1802	0.0120	0.035
16	3	13	1	15	3	12	1	96923.9202	-0.0036	0.035
26	2	24	1	26	2	25	1	96550.5524	-0.0101	0.035
27	3	24	1	27	3	25	1	96541.7231	-0.0522	0.035
28	4	24	1	28	4	25	1	96532.1645	-0.0335	0.035
29	5	24	1	29	5	25	1	96521.7594	-0.0207	0.035
31	7	24	1	31	7	25	1	96498.1644	-0.0450	0.035
33	9	24	1	33	9	25	1	96470.6527	0.0333	0.035
34	10	24	1	34	10	25	1	96455.2049	0.0349	0.035
35	11	24	1	35	11	25	1	96438.4744	-0.0607	0.035
36	12	24	1	36	12	25	1	96420.6665	0.0156	0.035
37	13	24	1	37	13	25	1	96401.4819	0.0309	0.035
38	14	24	1	38	14	25	1	96380.8946	0.0276	0.035
40	16	24	1	40	16	25	1	96335.2967	0.0331	0.035
42	18	24	1	42	18	25	1	96283.2898	0.0375	0.035
43	19	24	1	43	19	25	1	96254.7085	0.0581	0.035
44	20	24	1	44	20	25	1	96224.2339	0.0241	0.035
45	21	24	1	45	21	25	1	96191.8343	-0.0127	0.035
46	22	24	1	46	22	25	1	96157.4757	-0.0003	0.035
47	23	24	1	47	23	25	1	96120.9763	-0.0317	0.035
48	24	24	1	48	24	25	1	96082.2925	-0.0596	0.035
49	25	24	1	49	25	25	1	96041.3903	-0.0240	0.035
50	26	24	1	50	26	25	1	95998.0779	-0.0204	0.035
51	27	24	1	51	27	25	1	95952.2559	-0.0489	0.035
52	28	24	1	52	28	25	1	95903.9364	0.0049	0.035
53	29	24	1	53	29	25	1	95852.8804	0.0072	0.035
55	31	24	1	55	31	25	1	95742.1968	-0.0677	0.035
15	4	11	1	14	4	10	1	95671.7249	-0.0437	0.035
57	33	24	1	57	33	25	1	95619.4973	-0.0746	0.035
12	9	4	1	11	9	3	1	95582.7826	-0.0614	0.035
58	34	24	1	58	34	25	1	95553.3422	-0.0527	0.035
18	0	18	1	17	0	17	1	95489.5773	-0.0035	0.035
59	35	24	1	59	35	25	1	95483.8353	0.0045	0.035
60	36	24	1	60	36	25	1	95410.7069	-0.0416	0.035
61	37	24	1	61	37	25	1	95334.0203	0.0063	0.035
62	38	24	1	62	38	25	1	95253.4814	-0.0062	0.035
63	39	24	1	63	39	25	1	95169.0203	-0.0055	0.035
64	40	24	1	64	40	25	1	95080.4982	0.0187	0.035
65	41	24	1	65	41	25	1	94987.7559	0.0616	0.035

67	43	24	1	67	43	25	1	94788.8359	0.0741	0.035
68	44	24	1	68	44	25	1	94682.3356	0.0590	0.035
70	46	24	1	70	46	25	1	94454.4421	0.0684	0.035
14	6	9	1	13	6	8	1	94422.9431	-0.0130	0.035
71	47	24	1	71	47	25	1	94332.5860	0.0096	0.035
17	1	16	1	16	1	15	1	94235.8813	0.0310	0.035
16	2	14	1	15	2	13	1	92982.2265	-0.0106	0.035
24	1	23	1	24	1	24	1	92617.9228	-0.0106	0.035
26	3	23	1	26	3	24	1	92601.4133	-0.0111	0.035
28	5	23	1	28	5	24	1	92581.5944	-0.0363	0.035
29	6	23	1	29	6	24	1	92570.3616	-0.0005	0.035
30	7	23	1	30	7	24	1	92558.0781	-0.0221	0.035
32	9	23	1	32	9	24	1	92530.3349	-0.0116	0.035
33	10	23	1	33	10	24	1	92514.7279	0.0032	0.035
34	11	23	1	34	11	24	1	92497.8572	0.0084	0.035
35	12	23	1	35	12	24	1	92479.6673	0.0191	0.035
37	14	23	1	37	14	24	1	92438.9872	0.0087	0.035
39	16	23	1	39	16	24	1	92392.0825	-0.0209	0.035
40	17	23	1	40	17	24	1	92366.1276	-0.0092	0.035
41	18	23	1	41	18	24	1	92338.3306	-0.0412	0.035
42	19	23	1	42	19	24	1	92308.6932	-0.0271	0.035
43	20	23	1	43	20	24	1	92276.9929	-0.0992	0.035
44	21	23	1	44	21	24	1	92243.3538	-0.0404	0.035
45	22	23	1	45	22	24	1	92207.4937	-0.0368	0.035
12	7	5	1	11	7	4	1	92073.4115	0.0085	0.035
50	27	23	1	50	27	24	1	91992.0985	-0.0634	0.035
12	8	5	1	11	8	4	1	91959.2374	0.0560	0.035
51	28	23	1	51	28	24	1	91941.0795	-0.0415	0.035
52	29	23	1	52	29	24	1	91887.1116	-0.0446	0.035
10	9	2	1	9	8	2	1	91732.2665	0.0582	0.035
15	3	12	1	14	3	11	1	91729.0828	-0.0055	0.035
55	32	23	1	55	32	24	1	91706.4341	-0.0426	0.035
57	34	23	1	57	34	24	1	91569.0313	-0.0247	0.035
58	35	23	1	58	35	24	1	91494.8247	-0.0132	0.035
59	36	23	1	59	36	24	1	91416.7278	-0.0236	0.035
10	2	8	1	9	1	8	1	91360.3588	0.0013	0.035
10	3	7	1	9	2	7	1	91349.1982	0.0201	0.035
60	37	23	1	60	37	24	1	91334.6566	0.0141	0.035
10	5	6	1	9	4	6	1	91331.8921	-0.0465	0.035
10	8	3	1	9	7	3	1	91303.7844	0.0770	0.035
10	5	5	1	9	4	5	1	91302.0473	-0.0138	0.035
61	38	23	1	61	38	24	1	91248.3509	-0.0003	0.035
10	6	4	1	9	5	4	1	91228.6140	-0.0048	0.035
10	9	1	1	9	8	1	1	91202.6800	0.0553	0.035
62	39	23	1	62	39	24	1	91157.7204	0.0079	0.035
63	40	23	1	63	40	24	1	91062.5536	-0.0007	0.035
64	41	23	1	64	41	24	1	90962.7095	0.0111	0.035
10	7	3	1	9	6	3	1	90930.9818	-0.0819	0.035
65	42	23	1	65	42	24	1	90857.9716	0.0122	0.035
66	43	23	1	66	43	24	1	90748.1417	-0.0025	0.035
67	44	23	1	67	44	24	1	90633.0484	-0.0036	0.035
10	8	2	1	9	7	2	1	90574.7800	-0.0608	0.035
68	45	23	1	68	45	24	1	90512.4704	-0.0029	0.035
14	4	10	1	13	4	9	1	90477.3981	0.0075	0.035
69	46	23	1	69	46	24	1	90386.1740	-0.0156	0.035
17	0	17	1	16	0	16	1	90294.5995	0.0366	0.035
70	47	23	1	70	47	24	1	90253.9037	-0.0686	0.035
13	6	8	1	12	6	7	1	89230.5474	0.0126	0.035
16	1	15	1	15	1	14	1	89040.8286	0.0105	0.035
23	1	22	1	23	1	23	1	88677.1504	-0.0196	0.035
25	3	22	1	25	3	23	1	88660.9391	-0.0184	0.035
26	4	22	1	26	4	23	1	88651.5807	-0.0169	0.035
27	5	22	1	27	5	23	1	88641.3189	-0.0027	0.035
29	7	22	1	29	7	23	1	88617.7824	0.0163	0.035
32	10	22	1	32	10	23	1	88573.8851	-0.0170	0.035
33	11	22	1	33	11	23	1	88556.7174	0.0013	0.035
34	12	22	1	34	12	23	1	88538.1198	0.0005	0.035
35	13	22	1	35	13	23	1	88518.0151	-0.0158	0.035
36	14	22	1	36	14	23	1	88496.3720	0.0047	0.035
37	15	22	1	37	15	23	1	88473.0335	-0.0086	0.035
38	16	22	1	38	16	23	1	88447.9127	-0.0536	0.035
39	17	22	1	39	17	23	1	88421.0110	-0.0369	0.035
40	18	22	1	40	18	23	1	88392.1704	-0.0215	0.035
41	19	22	1	41	19	23	1	88361.3380	0.0374	0.035
42	20	22	1	42	20	23	1	88328.2286	-0.0440	0.035
43	21	22	1	43	21	23	1	88292.9737	-0.0303	0.035
44	22	22	1	44	22	23	1	88255.3552	-0.0321	0.035
45	23	22	1	45	23	23	1	88215.2807	-0.0308	0.035
46	24	22	1	46	24	23	1	88172.6099	-0.0523	0.035
49	27	22	1	49	27	23	1	88028.0526	-0.0205	0.035
12	7	6	1	11	7	5	1	88001.9650	-0.0599	0.035
50	28	22	1	50	28	23	1	87973.8479	-0.0622	0.035
51	29	22	1	51	29	23	1	87916.5027	-0.0407	0.035
15	2	13	1	14	2	12	1	87787.2504	0.0254	0.035
54	32	22	1	54	32	23	1	87723.8029	-0.0061	0.035
55	33	22	1	55	33	23	1	87652.1636	-0.0271	0.035
56	34	22	1	56	34	23	1	87576.6367	0.0124	0.035
57	35	22	1	57	35	23	1	87496.9637	0.0188	0.035
58	36	22	1	58	36	23	1	87413.0039	0.0231	0.035
59	37	22	1	59	37	23	1	87324.5829	0.0289	0.035
11	7	4	1	10	7	3	1	87293.9175	0.0140	0.035
60	38	22	1	60	38	23	1	87231.5128	0.0331	0.035
61	39	22	1	61	39	23	1	87133.5656	0.0004	0.035
62	40	22	1	62	40	23	1	87030.5946	-0.0158	0.035
63	41	22	1	63	41	23	1	86922.4204	0.0139	0.035
64	42	22	1	64	42	23	1	86808.7210	-0.0144	0.035
65	43	22	1	65	43	23	1	86689.4382	0.0681	0.035
11	8	4	1	10	8	3	1	86562.7232	-0.0983	0.035
14	3	11	1	13	3	10	1	86534.1956	-0.0308	0.035
67	45	22	1	67	45	23	1	86432.5969	0.0033	0.035
68	46	22	1	68	46	23	1	86294.6327	-0.0395	0.035
69	47	22	1	69	47	23	1	86149.9761	-0.0587	0.035
13	5	9	1	12	5	8	1	85283.2214	0.0115	0.035
16	0	16	1	15	0	15	1	85099.4976	0.0309	0.035
24	3	21	1	24	3	22	1	84720.3549	-0.0213	0.035
25	4	21	1	25	4	22	1	84711.0322	-0.0616	0.035
26	5	21	1	26	5	22	1	84700.8675	0.0175	0.035
28	7	21	1	28	7	22	1	84677.1834	-0.0128	0.035
29	8	21	1	29	8	22	1	84663.6125	-0.0257	0.035
30	9	21	1	30	9	22	1	84648.8035	-0.0196	0.035
31	10	21	1	31	10	22	1	84632.6537	-0.0156	0.035
32	11	21	1	32	11	22	1	84615.0832	-0.0098	0.035
34	13	21	1	34	13	22	1	84575.3091	-0.0120	0.035
35	14	21	1	35	14	22	1	84552.9415	-0.0006	0.035
36	15	21	1	36	15	22	1	84528.7518	-0.0216	0.035
37	16	21	1	37	16	22	1	84502.6886	-0.0269	0.035
38	17	21	1	38	17	22	1	84474.6285	-0.0367	0.035
39	18	21	1	39	18	22	1	84444.4912	-0.0249	0.035
40	19	21	1	40	19	22	1	84412.0712	-0.0869	0.035
41	20	21	1	41	20	22	1	84377.4705	-0.0072	0.035
42	21	21	1	42	21	22	1	84340.3461	-0.0112	0.035
43	22	21	1	43	22	22	1	84300.6535	-0.0221	0.035
44	23	21	1	44	23	22	1	84258.2572	-0.0501	0.035
45	24	21	1	45	24	22	1	84213.1214	-0.0014	0.035
46	25	21	1	46	25	22	1	84165.0122	0.0242	0.035
47	26	21	1	47	26	22	1	84113.7607	-0.0037	0.035
48	27	21	1	48	27	22	1	84059.3038	-0.0049	0.035
12	5	7	1	11	5	6	1	84039.6825	-0.0542	0.035
49	28	21	1	49	28	22	1	84001.4650	-0.0075	0.035
51	30	21	1	51	30	22	1	83875.1031	0.0645	0.035
15	1	14	1	14	1	13	1	83845.7450	0.0347	0.035
52	31	21	1	52	31	22	1	83806.1199	0.0035	0.035
53	32	21	1	53	32	22	1	83733.1604	-0.0044	0.035
54	33	21	1	54	33	22	1	83656.0185	0.0127	0.035
55	34	21	1	55	34	22	1	83574.4860	0.0312	0.035
56	35	21	1	56	35	22	1	83488.3708	0.0510	0.035
57	36	21	1	57	36	22	1	83397.4381	0.0373	0.035
58	37	21	1	58	37	22	1	83301.5325	0.0429	0.035
60	39	21	1	60	39	22	1	83093.8532	0.0406	0.035
61	40	21	1	61	40	22	1	82981.6026	0.0194	0.035
11	6	5	1	10	6	4	1	82865.3029	0.0400	0.035
62	41	21	1	62	41	22	1	82863.4196	-0.0133	0.035
63	42	21	1	63	42	22	1	82739.0507	-0.0513	0.035
64	43	21	1	64	43	22	1	82608.3463	0.0281	0.035
14	2	12	1	13	2	11	1	82592.1093	-0.0408	0.035
9	8	2	1	8	7	2	1	82503.4996	0.0283	0.035
65	44	21	1	65	44	22	1	82470.7457	-0.0490	0.035
66	45	21	1	66	45	22	1	82326.1307	-0.1000	0.035
9	3	6	1	8	2	6	1	82210.0813	0.0414	0.035
9	8	1	1	8	7	1	1	81939.9670	0.0505	0.035
9	6	3	1	8	5	3	1	81934.2840	-0.0380	0.035
13	3	10	1	12	3	9	1	81339.3344	-0.0351	0.035
23	3	20	1	23	3	21	1	80779.6685	-0.0134	0.035
24	4	20	1	24	4	21	1	80770.4251	-0.0284	0.035
26	6	20	1	26	6	21	1	80748.8496	-0.0300	0.035
27	7	20	1	27	7	21	1	80736.3454	-0.0309	0.035

28	8	20	1	28	8	21	1	80722.5622	-0.0558	0.035
29	9	20	1	29	9	21	1	80707.5066	-0.0108	0.035
30	10	20	1	30	10	21	1	80690.9444	-0.0395	0.035
31	11	20	1	31	11	21	1	80672.8898	-0.0338	0.035
32	12	20	1	32	12	21	1	80653.1883	-0.0506	0.035
33	13	20	1	33	13	21	1	80631.8177	-0.0109	0.035
34	14	20	1	34	14	21	1	80608.6279	0.0396	0.035
35	15	20	1	35	15	21	1	80583.3711	-0.0378	0.035
36	16	20	1	36	16	21	1	80556.1846	0.0058	0.035
37	17	20	1	37	17	21	1	80526.7991	0.0176	0.035
38	18	20	1	38	18	21	1	80495.0953	-0.0011	0.035
39	19	20	1	39	19	21	1	80460.9947	-0.0047	0.035
40	20	20	1	40	20	21	1	80424.3655	0.0038	0.035
41	21	20	1	41	21	21	1	80385.0207	-0.0289	0.035
42	22	20	1	42	22	21	1	80342.9312	0.0058	0.035
43	23	20	1	43	23	21	1	80297.8522	0.0061	0.035
44	24	20	1	44	24	21	1	80249.6832	0.0195	0.035
45	25	20	1	45	25	21	1	80198.2488	0.0240	0.035
46	26	20	1	46	26	21	1	80143.3864	0.0157	0.035
12	5	8	1	11	5	7	1	80089.3380	-0.0803	0.035
47	27	20	1	47	27	21	1	80084.8922	-0.0441	0.035
48	28	20	1	48	28	21	1	80022.7671	0.0160	0.035
49	29	20	1	49	29	21	1	79956.6725	0.0354	0.035
15	0	15	1	14	0	14	1	79904.3259	0.0292	0.035
50	30	20	1	50	30	21	1	79886.4492	0.0391	0.035
51	31	20	1	51	31	21	1	79811.9060	0.0276	0.035
52	32	20	1	52	32	21	1	79732.8601	0.0177	0.035
53	33	20	1	53	33	21	1	79649.1933	0.0989	0.035
54	34	20	1	54	34	21	1	79560.4658	0.0482	0.035
55	35	20	1	55	35	21	1	79466.6314	0.0454	0.035
56	36	20	1	56	36	21	1	79367.4278	0.0644	0.035
57	37	20	1	57	37	21	1	79262.5513	0.0485	0.035
58	38	20	1	58	38	21	1	79151.8121	0.0666	0.035
60	40	20	1	60	40	21	1	78911.4936	0.0514	0.035
11	5	6	1	10	5	5	1	78853.0725	0.0170	0.035
11	6	6	1	10	6	5	1	78851.1438	0.0167	0.035
61	41	20	1	61	41	21	1	78781.3647	0.0531	0.035
14	1	13	1	13	1	12	1	78650.4844	-0.0477	0.035
62	42	20	1	62	42	21	1	78644.0792	-0.0338	0.035
63	43	20	1	63	43	21	1	78499.4353	-0.0782	0.035
64	44	20	1	64	44	21	1	78347.0663	-0.0951	0.035
65	45	20	1	65	45	21	1	78186.6200	-0.0640	0.035
10	6	4	1	9	6	3	1	77924.9040	0.0464	0.035
10	7	4	1	9	7	3	1	77499.7839	-0.0294	0.035
13	2	11	1	12	2	10	1	77396.9674	-0.0560	0.035
21	2	19	1	21	2	20	1	76847.0627	-0.0234	0.035
22	3	19	1	22	3	20	1	76838.8796	0.0043	0.035
24	5	19	1	24	5	20	1	76819.3994	-0.0018	0.035
25	6	19	1	25	6	20	1	76808.0238	0.0547	0.035
27	8	19	1	27	8	20	1	76781.2682	0.0041	0.035
28	9	19	1	28	9	20	1	76765.7953	-0.0041	0.035
29	10	19	1	29	10	20	1	76748.8074	0.0152	0.035
30	11	19	1	30	11	20	1	76730.1368	0.0001	0.035
31	12	19	1	31	12	20	1	76709.7554	0.0326	0.035
32	13	19	1	32	13	20	1	76687.4539	0.0174	0.035
33	14	19	1	33	14	20	1	76663.1837	0.0242	0.035
34	15	19	1	34	15	20	1	76636.7571	-0.0115	0.035
35	16	19	1	35	16	20	1	76608.1548	0.0180	0.035
36	17	19	1	36	17	20	1	76577.1301	-0.0014	0.035
38	19	19	1	38	19	20	1	76507.4603	0.0116	0.035
39	20	19	1	39	20	20	1	76468.5082	0.0266	0.035
40	21	19	1	40	21	20	1	76426.5595	-0.0029	0.035
41	22	19	1	41	22	20	1	76381.5273	-0.0053	0.035
42	23	19	1	42	23	20	1	76333.2171	-0.0110	0.035
44	25	19	1	44	25	20	1	76226.1124	0.0069	0.035
45	26	19	1	45	26	20	1	76166.9579	0.0319	0.035
12	3	9	1	11	3	8	1	76144.5312	-0.0370	0.035
46	27	19	1	46	27	20	1	76103.7292	-0.0190	0.035
47	28	19	1	47	28	20	1	76036.3530	-0.0201	0.035
48	29	19	1	48	29	20	1	75964.6046	0.0114	0.035
49	30	19	1	49	30	20	1	75888.2202	0.0282	0.035
50	31	19	1	50	31	20	1	75806.9922	0.0481	0.035
51	32	19	1	51	32	20	1	75720.6413	0.0275	0.035
52	33	19	1	52	33	20	1	75628.9803	0.0254	0.035
53	34	19	1	53	34	20	1	75531.7790	0.0697	0.035
54	35	19	1	54	35	20	1	75428.6873	0.0803	0.035
11	4	7	1	10	4	6	1	74896.3495	-0.0741	0.035
21	1	20	1	21	1	21	1	80795.3159	-0.0768	0.035

20	1	19	1	20	1	20	1	76854.3540	-0.0320	0.035
15	15	0	1	16	16	0	0	397.63030	0.00005	0.0002
16	15	1	1	17	16	1	0	397.33749	0.00000	0.0002
18	15	3	1	19	16	3	0	396.75100	0.00002	0.0002
19	15	4	1	20	16	4	0	396.43697	0.00001	0.0002
22	15	7	1	23	16	7	0	395.45140	-0.00024	0.0002
23	15	8	1	24	16	8	0	395.12858	-0.00006	0.0002
24	15	9	1	25	16	9	0	394.80617	-0.00001	0.0002
25	15	10	1	26	16	10	0	394.48376	-0.00010	0.0002
26	15	11	1	27	16	11	0	394.16150	-0.00004	0.0002
27	15	12	1	28	16	12	0	393.83887	-0.00026	0.0002
28	15	13	1	29	16	13	0	393.51651	-0.00012	0.0002
29	15	14	1	30	16	14	0	393.19403	0.00005	0.0002
30	15	15	1	31	16	15	0	392.87122	0.00003	0.0002
31	15	16	1	32	16	16	0	392.54828	0.00006	0.0002
32	15	17	1	33	16	17	0	392.22522	0.00015	0.0002
33	15	18	1	34	16	18	0	391.90158	-0.00016	0.0002
34	15	19	1	35	16	19	0	391.57822	0.00001	0.0002
35	15	20	1	36	16	20	0	391.25449	-0.00001	0.0002
36	15	21	1	37	16	21	0	390.93073	0.00014	0.0002
37	15	22	1	38	16	22	0	390.60655	0.00009	0.0002
38	15	23	1	39	16	23	0	390.28208	-0.00006	0.0002
39	15	24	1	40	16	24	0	389.95740	-0.00021	0.0002
40	15	25	1	41	16	25	0	389.63272	-0.00017	0.0002
41	15	26	1	42	16	26	0	389.30798	0.00003	0.0002
42	15	27	1	43	16	27	0	388.98266	-0.00013	0.0002
43	15	28	1	44	16	28	0	388.65729	-0.00014	0.0002
45	15	30	1	46	16	30	0	388.00602	-0.00005	0.0002
48	15	33	1	49	16	33	0	387.02760	0.00017	0.0002
49	15	34	1	50	16	34	0	386.70096	0.00018	0.0002
50	15	35	1	51	16	35	0	386.37393	0.00001	0.0002
51	15	36	1	52	16	36	0	386.04684	-0.00001	0.0002
52	15	37	1	53	16	37	0	385.71928	-0.00027	0.0002
53	15	38	1	54	16	38	0	385.39189	-0.00015	0.0002
54	15	39	1	55	16	39	0	385.06430	-0.00001	0.0002
56	15	41	1	57	16	41	0	384.40832	0.00013	0.0002
57	15	42	1	58	16	42	0	384.08006	0.00027	0.0002
58	15	43	1	59	16	43	0	383.75121	0.00003	0.0002
59	15	44	1	60	16	44	0	383.42239	0.00005	0.0002
16	16	0	1	17	17	0	0	397.30792	0.00014	0.0002
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20	16	4	1	21	17	4	0	396.11474	-0.00008	0.0002
21	16	5	1	22	17	5	0	395.78623	-0.00006	0.0002
22	16	6	1	23	17	6	0	395.45387	-0.00003	0.0002
24	16	8	1	25	17	8	0	394.80278	0.00012	0.0002
25	16	9	1	26	17	9	0	394.47918	0.00002	0.0002
27	16	11	1	28	17	11	0	393.83270	0.00011	0.0002
28	16	12	1	29	17	12	0	393.50942	0.00013	0.0002
29	16	13	1	30	17	13	0	393.18584	-0.00005	0.0002
30	16	14	1	31	17	14	0	392.86237	0.00001	0.0002
31	16	15	1	32	17	15	0	392.53872	0.00004	0.0002
32	16	16	1	33	17	16	0	392.21487	0.00003	0.0002
33	16	17	1	34	17	17	0	391.89087	0.00005	0.0002
34	16	18	1	35	17	18	0	391.56661	-0.00002	0.0002
35	16	19	1	36	17	19	0	391.24229	0.00005	0.0002
36	16	20	1	37	17	20	0	390.91771	0.00003	0.0002
37	16	21	1	38	17	21	0	390.59302	0.00011	0.0002
38	16	22	1	39	17	22	0	390.26800	0.00006	0.0002
39	16	23	1	40	17	23	0	389.94277	-0.00001	0.0002
40	16	24	1	41	17	24	0	389.61737	-0.00003	0.0002
41	16	25	1	42	17	25	0	389.29180	-0.00003	0.0002
42	16	26	1	43	17	26	0	388.96597	-0.00007	0.0002
43	16	27	1	44	17	27	0	388.64004	-0.00002	0.0002
44	16	28	1	45	17	28	0	388.31380	-0.00006	0.0002
45	16	29	1	46	17	29	0	387.98756	0.00010	0.0002
46	16	30	1	47	17	30	0	387.66082	-0.00001	0.0002
47	16	31	1	48	17	31	0	387.33402	0.00002	0.0002
48	16	32	1	49	17	32	0	387.00698	0.00002	0.0002
49	16	33	1	50	17	33	0	386.67960	-0.00011	0.0002
51	16	35	1	52	17	35	0	386.02457	0.00002	0.0002
52	16	36	1	53	17	36	0	385.69627	-0.00037	0.0002
53	16	37	1	54	17	37	0	385.36833	-0.00020	0.0002
54	16	38	1	55	17	38	0	385.04027	0.00008	0.0002
55	16	39	1	56	17	39	0	384.71179	0.00016	0.0002
57	16	41	1	58	17	41	0	384.05381	-0.00005	0.0002
58	16	42	1	59	17	42	0	383.72463	-0.00002	0.0002
17	17	0	1	18	18	0	0	396.98456	-0.00012	0.0002
18	17	1	1	19	18	1	0	396.68825	-0.00035	0.0002

19	17	2	1	20	18	2	0	396.39321	0.00006	0.0002
20	17	3	1	21	18	3	0	396.09870	0.00036	0.0002
21	17	4	1	22	18	4	0	395.79089	0.00011	0.0002
22	17	5	1	23	18	5	0	395.46463	0.00006	0.0002
23	17	6	1	24	18	6	0	395.13078	0.00014	0.0002
25	17	8	1	26	18	8	0	394.47586	-0.00001	0.0002
26	17	9	1	27	18	9	0	394.15136	0.00006	0.0002
27	17	10	1	28	18	10	0	393.82700	-0.00003	0.0002
28	17	11	1	29	18	11	0	393.50276	-0.00007	0.0002
29	17	12	1	30	18	12	0	393.17843	-0.00018	0.0002
30	17	13	1	31	18	13	0	392.85432	0.00001	0.0002
31	17	14	1	32	18	14	0	392.52985	-0.00004	0.0002
32	17	15	1	33	18	15	0	392.20506	-0.00028	0.0002
33	17	16	1	34	18	16	0	391.88066	0.00003	0.0002
34	17	17	1	35	18	17	0	391.55542	-0.00033	0.0002
35	17	18	1	36	18	18	0	391.23092	0.00021	0.0002
36	17	19	1	37	18	19	0	390.90546	-0.00001	0.0002
37	17	20	1	38	18	20	0	390.57996	-0.00009	0.0002
38	17	21	1	39	18	21	0	390.25433	-0.00011	0.0002
39	17	22	1	40	18	22	0	389.92868	0.00005	0.0002
40	17	23	1	41	18	23	0	389.60242	-0.00020	0.0002
41	17	24	1	42	18	24	0	389.27653	0.00012	0.0002
42	17	25	1	43	18	25	0	388.95014	0.00014	0.0002
43	17	26	1	44	18	26	0	388.62332	-0.00007	0.0002
44	17	27	1	45	18	27	0	388.29676	0.00020	0.0002
47	17	30	1	48	18	30	0	387.31485	0.00000	0.0002
48	17	31	1	49	18	31	0	386.98709	-0.00011	0.0002
49	17	32	1	50	18	32	0	386.65927	-0.00006	0.0002
19	18	1	1	20	19	1	0	396.36325	-0.00010	0.0002
20	18	2	1	21	19	2	0	396.06574	-0.00001	0.0002
25	18	7	1	26	19	7	0	394.47586	0.00042	0.0002
26	18	8	1	27	19	8	0	394.14833	0.00002	0.0002
27	18	9	1	28	19	9	0	393.82243	-0.00019	0.0002
28	18	10	1	29	19	10	0	393.49742	0.00006	0.0002
29	18	11	1	30	19	11	0	393.17210	-0.00014	0.0002
30	18	12	1	31	19	12	0	392.84689	-0.00021	0.0002
31	18	13	1	32	19	13	0	392.52193	0.00003	0.0002
32	18	14	1	33	19	14	0	392.19665	0.00005	0.0002
33	18	15	1	34	19	15	0	391.87111	-0.00007	0.0002
34	18	16	1	35	19	16	0	391.54556	-0.00004	0.0002
35	18	17	1	36	19	17	0	391.21974	-0.00013	0.0002
36	18	18	1	37	19	18	0	390.89389	-0.00008	0.0002
37	18	19	1	38	19	19	0	390.56778	-0.00011	0.0002
38	18	20	1	39	19	20	0	390.24169	0.00007	0.0002
39	18	21	1	40	19	21	0	389.91526	0.00009	0.0002
40	18	22	1	41	19	22	0	389.58863	0.00011	0.0002
41	18	23	1	42	19	23	0	389.26157	-0.00011	0.0002
42	18	24	1	43	19	24	0	388.93477	0.00013	0.0002
43	18	25	1	44	19	25	0	388.60732	-0.00007	0.0002
44	18	26	1	45	19	26	0	388.27979	-0.00016	0.0002
45	18	27	1	46	19	27	0	387.95231	0.00002	0.0002
47	18	29	1	48	19	29	0	387.29640	0.00002	0.0002
48	18	30	1	49	19	30	0	386.96816	0.00004	0.0002
49	18	31	1	50	19	31	0	386.63970	0.00007	0.0002
50	18	32	1	51	19	32	0	386.31062	-0.00033	0.0002
52	18	34	1	53	19	34	0	385.65280	-0.00014	0.0002
53	18	35	1	54	19	35	0	385.32364	0.00002	0.0002
57	18	39	1	58	19	39	0	384.00404	-0.00014	0.0002
58	18	40	1	59	19	40	0	383.67361	-0.00017	0.0002
59	18	41	1	60	19	41	0	383.34308	-0.00008	0.0002
20	19	1	1	21	20	1	0	396.03749	-0.00004	0.0002
21	19	2	1	22	20	2	0	395.73771	-0.00025	0.0002
23	19	4	1	24	20	4	0	395.13726	0.00023	0.0002
24	19	5	1	25	20	5	0	394.81678	0.00018	0.0002
26	19	7	1	27	20	7	0	394.14833	-0.00039	0.0002
27	19	8	1	28	20	8	0	393.81962	-0.00034	0.0002
28	19	9	1	29	20	9	0	393.49320	0.00007	0.0002
29	19	10	1	30	20	10	0	393.16703	0.00015	0.0002
30	19	11	1	31	20	11	0	392.84075	-0.00005	0.0002
31	19	12	1	32	20	12	0	392.51464	-0.00013	0.0002
32	19	13	1	33	20	13	0	392.18850	-0.00017	0.0002
33	19	14	1	34	20	14	0	391.86246	-0.00004	0.0002
34	19	15	1	35	20	15	0	391.53593	-0.00028	0.0002
35	19	16	1	36	20	16	0	391.20972	-0.00006	0.0002
36	19	17	1	37	20	17	0	390.88317	-0.00002	0.0002
37	19	18	1	38	20	18	0	390.55668	0.00024	0.0002
38	19	19	1	39	20	19	0	390.22944	-0.00007	0.0002
39	19	20	1	40	20	20	0	389.90223	-0.00017	0.0002
40	19	21	1	41	20	21	0	389.57512	0.00001	0.0002
41	19	22	1	42	20	22	0	389.24750	-0.00013	0.0002
42	19	23	1	43	20	23	0	388.91986	-0.00009	0.0002
44	19	25	1	45	20	25	0	388.26399	-0.00003	0.0002
45	19	26	1	46	20	26	0	387.93573	-0.00001	0.0002
47	19	28	1	48	20	28	0	387.27846	-0.00014	0.0002
48	19	29	1	49	20	29	0	386.94956	-0.00016	0.0002
49	19	30	1	50	20	30	0	386.62071	0.00008	0.0002
50	19	31	1	51	20	31	0	386.29129	-0.00006	0.0002
51	19	32	1	52	20	32	0	385.96167	-0.00018	0.0002
52	19	33	1	53	20	33	0	385.63199	-0.00014	0.0002
54	19	35	1	55	20	35	0	384.97233	0.00025	0.0002
55	19	36	1	56	20	36	0	384.64183	0.00010	0.0002
20	20	0	1	21	21	0	0	396.01168	0.00008	0.0002
21	20	1	1	22	21	1	0	395.71106	-0.00007	0.0002
22	20	2	1	23	21	2	0	395.40966	-0.00009	0.0002
23	20	3	1	24	21	3	0	395.10963	-0.00010	0.0002
24	20	4	1	25	21	4	0	394.80745	-0.00003	0.0002
25	20	5	1	26	21	5	0	394.48976	-0.00025	0.0002
29	20	9	1	30	21	9	0	393.16279	-0.00004	0.0002
30	20	10	1	31	21	10	0	392.83554	-0.00003	0.0002
31	20	11	1	32	21	11	0	392.50828	-0.00028	0.0002
32	20	12	1	33	21	12	0	392.18165	0.00005	0.0002
33	20	13	1	34	21	13	0	391.85465	0.00002	0.0002
34	20	14	1	35	21	14	0	391.52785	0.00026	0.0002
35	20	15	1	36	21	15	0	391.20043	0.00001	0.0002
36	20	16	1	37	21	16	0	390.87313	-0.00001	0.0002
37	20	17	1	38	21	17	0	390.54575	0.00006	0.0002
38	20	18	1	39	21	18	0	390.21800	-0.00010	0.0002
39	20	19	1	40	21	19	0	389.89017	-0.00016	0.0002
40	20	20	1	41	21	20	0	389.56251	0.00011	0.0002
41	20	21	1	42	21	21	0	389.23433	0.00006	0.0002
42	20	22	1	43	21	22	0	388.90620	0.00024	0.0002
43	20	23	1	44	21	23	0	388.57736	-0.00009	0.0002
44	20	24	1	45	21	24	0	388.24886	0.00009	0.0002
45	20	25	1	46	21	25	0	387.91989	0.00002	0.0002
46	20	26	1	47	21	26	0	387.59048	-0.00030	0.0002
47	20	27	1	48	21	27	0	387.26153	0.00003	0.0002
48	20	28	1	49	21	28	0	386.93188	-0.00014	0.0002
49	20	29	1	50	21	29	0	386.60223	-0.00009	0.0002
50	20	30	1	51	21	30	0	386.27238	-0.00004	0.0002
51	20	31	1	52	21	31	0	385.94228	-0.00004	0.0002
52	20	32	1	53	21	32	0	385.61219	0.00018	0.0002
53	20	33	1	54	21	33	0	385.28148	-0.00001	0.0002
54	20	34	1	55	21	34	0	384.95088	0.00011	0.0002
55	20	35	1	56	21	35	0	384.61972	-0.00012	0.0002
56	20	36	1	57	21	36	0	384.28874	0.00006	0.0002
30	21	9	1	31	22	9	0	392.83162	-0.00008	0.0002
31	21	10	1	32	22	10	0	392.50317	-0.00026	0.0002
32	21	11	1	33	22	11	0	392.17550	0.00002	0.0002
33	21	12	1	34	22	12	0	391.84765	0.00003	0.0002
34	21	13	1	35	22	13	0	391.51963	-0.00013	0.0002
35	21	14	1	36	22	14	0	391.19191	0.00007	0.0002
36	21	15	1	37	22	15	0	390.86369	-0.00014	0.0002
37	21	16	1	38	22	16	0	390.53558	-0.00010	0.0002
38	21	17	1	39	22	17	0	390.20738	-0.00002	0.0002
39	21	18	1	40	22	18	0	389.87889	-0.00008	0.0002
40	21	19	1	41	22	19	0	389.55056	0.00019	0.0002
41	21	20	1	42	22	20	0	389.22150	-0.00010	0.0002
42	21	21	1	43	22	21	0	388.89261	-0.00003	0.0002
43	21	22	1	44	22	22	0	388.56344	-0.00007	0.0002
44	21	23	1	45	22	23	0	388.23403	-0.00016	0.0002
45	21	24	1	46	22	24	0	387.90485	0.00017	0.0002
46	21	25	1	47	22	25	0	387.57497	0.00000	0.0002
47	21	26	1	48	22	26	0	387.24519	0.00012	0.0002
48	21	27	1	49	22	27	0	386.91482	-0.00015	0.0002
51	21	30	1	52	22	30	0	385.92336	-0.00011	0.0002
52	21	31	1	53	22	31	0	385.59252	-0.00005	0.0002
53	21	32	1	54	22	32	0	385.26152	0.00006	0.0002
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55	21	34	1	56	22	34	0	384.59855	-0.00006	0.0002
56	21	35	1	57	22	35	0	384.26658	-0.00030	0.0002
57	21	36	1	58	22	36	0	383.93491	-0.00003	0.0002
58	21	37	1	59	22	37	0	383.60316	0.00038	0.0002
59	21	38	1	60	22	38	0	383.27047	0.00005	0.0002
32	22	10	1	33	23	10	0	392.17045	-0.00002	0.0002
33	22	11	1	34	23	11	0	391.84162	0.00004	0.0002
34	22	12	1	35	23	12	0	391.51280	-0.00002	0.0002

35	22	13	1	36	23	13	0	391.18416	0.00008	0.0002
36	22	14	1	37	23	14	0	390.85539	0.00010	0.0002
37	22	15	1	38	23	15	0	390.52650	0.00008	0.0002
38	22	16	1	39	23	16	0	390.19745	0.00002	0.0002
39	22	17	1	40	23	17	0	389.86837	0.00006	0.0002
40	22	18	1	41	23	18	0	389.53905	0.00001	0.0002
41	22	19	1	42	23	19	0	389.20943	-0.00018	0.0002
42	22	20	1	43	23	20	0	388.87997	-0.00005	0.0002
43	22	21	1	44	23	21	0	388.55043	0.00019	0.0002
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45	22	23	1	46	23	23	0	387.89018	0.00002	0.0002
46	22	24	1	47	23	24	0	387.56000	0.00016	0.0002
48	22	26	1	49	23	26	0	386.89880	0.00018	0.0002
49	22	27	1	50	23	27	0	386.56761	-0.00010	0.0002
50	22	28	1	51	23	28	0	386.23650	-0.00011	0.0002
51	22	29	1	52	23	29	0	385.90517	-0.00014	0.0002
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23	23	0	1	24	24	0	0	395.03310	0.00021	0.0002
24	23	1	1	25	24	1	0	394.72838	0.00005	0.0002
25	23	2	1	26	24	2	0	394.42201	-0.00018	0.0002
26	23	3	1	27	24	3	0	394.11593	0.00023	0.0002
28	23	5	1	29	24	5	0	393.49962	0.00007	0.0002
29	23	6	1	30	24	6	0	393.17347	0.00031	0.0002
30	23	7	1	31	24	7	0	392.83554	0.00002	0.0002
31	23	8	1	32	24	8	0	392.49950	0.00032	0.0002
33	23	10	1	34	24	10	0	391.83658	-0.00010	0.0002
35	23	12	1	36	24	12	0	391.17729	0.00010	0.0002
36	23	13	1	37	24	13	0	390.84756	-0.00001	0.0002
37	23	14	1	38	24	14	0	390.51804	0.00011	0.0002
38	23	15	1	39	24	15	0	390.18827	0.00007	0.0002
39	23	16	1	40	24	16	0	389.85822	-0.00016	0.0002
40	23	17	1	41	24	17	0	389.52846	0.00003	0.0002
41	23	18	1	42	24	18	0	389.19826	-0.00007	0.0002
42	23	19	1	43	24	19	0	388.86802	-0.00005	0.0002
43	23	20	1	44	24	20	0	388.53762	-0.00004	0.0002
44	23	21	1	45	24	21	0	388.20721	0.00014	0.0002
45	23	22	1	46	24	22	0	387.87629	-0.00002	0.0002
46	23	23	1	47	24	23	0	387.54544	0.00007	0.0002
47	23	24	1	48	24	24	0	387.21423	-0.00001	0.0002
48	23	25	1	49	24	25	0	386.88279	-0.00012	0.0002
50	23	27	1	51	24	27	0	386.21956	-0.00014	0.0002
51	23	28	1	52	24	28	0	385.88771	-0.00009	0.0002
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24	24	0	1	25	25	0	0	394.70561	0.00020	0.0002
25	24	1	1	26	25	1	0	394.39970	0.00019	0.0002
26	24	2	1	27	25	2	0	394.09175	-0.00019	0.0002
27	24	3	1	28	25	3	0	393.78347	-0.00012	0.0002
28	24	4	1	29	25	4	0	393.47644	0.00013	0.0002
29	24	5	1	30	25	5	0	393.16609	0.00003	0.0002
34	24	10	1	35	25	10	0	391.50183	-0.00026	0.0002
35	24	11	1	36	25	11	0	391.17133	0.00003	0.0002
36	24	12	1	37	25	12	0	390.84086	0.00012	0.0002
37	24	13	1	38	25	13	0	390.51024	-0.00002	0.0002
38	24	14	1	39	25	14	0	390.17968	-0.00008	0.0002
39	24	15	1	40	25	15	0	389.84907	-0.00013	0.0002
40	24	16	1	41	25	16	0	389.51855	0.00002	0.0002
41	24	17	1	42	25	17	0	389.18769	-0.00006	0.0002
42	24	18	1	43	25	18	0	388.85670	-0.00013	0.0002
43	24	19	1	44	25	19	0	388.52573	-0.00003	0.0002
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47	24	23	1	48	25	23	0	387.19978	-0.00003	0.0002
48	24	24	1	49	25	24	0	386.86787	-0.00001	0.0002
49	24	25	1	50	25	25	0	386.53562	-0.00014	0.0002
50	24	26	1	51	25	26	0	386.20329	-0.00016	0.0002
52	24	28	1	53	25	28	0	385.53808	-0.00019	0.0002
26	25	1	1	27	26	1	0	394.06998	-0.00009	0.0002
27	25	2	1	28	26	2	0	393.76104	-0.00008	0.0002
34	25	9	1	35	26	9	0	391.49940	0.00009	0.0002
35	25	10	1	36	26	10	0	391.16676	0.00009	0.0002
36	25	11	1	37	26	11	0	390.83501	0.00009	0.0002
37	25	12	1	38	26	12	0	390.50356	0.00008	0.0002
38	25	13	1	39	26	13	0	390.17214	0.00001	0.0002
39	25	14	1	40	26	14	0	389.84059	-0.00019	0.0002
40	25	15	1	41	26	15	0	389.50920	-0.00018	0.0002
41	25	16	1	42	26	16	0	389.17781	-0.00008	0.0002
42	25	17	1	43	26	17	0	388.84639	0.00010	0.0002
43	25	18	1	44	26	18	0	388.51449	-0.00005	0.0002
44	25	19	1	45	26	19	0	388.18259	-0.00008	0.0002
45	25	20	1	46	26	20	0	387.85068	0.00005	0.0002
46	25	21	1	47	26	21	0	387.51835	-0.00007	0.0002
47	25	22	1	48	26	22	0	387.18585	-0.00021	0.0002
48	25	23	1	49	26	23	0	386.85351	0.00000	0.0002
49	25	24	1	50	26	24	0	386.52062	-0.00016	0.0002
50	25	25	1	51	26	25	0	386.18781	-0.00007	0.0002
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36	26	10	1	37	27	10	0	390.83019	-0.00025	0.0002
37	26	11	1	38	27	11	0	390.49786	0.00013	0.0002
38	26	12	1	39	27	12	0	390.16520	-0.00019	0.0002
39	26	13	1	40	27	13	0	389.83331	0.00013	0.0002
40	26	14	1	41	27	14	0	389.50099	0.00000	0.0002
41	26	15	1	42	27	15	0	389.16880	0.00004	0.0002
42	26	16	1	43	27	16	0	388.83654	0.00009	0.0002
43	26	17	1	44	27	17	0	388.50398	-0.00005	0.0002
44	26	18	1	45	27	18	0	388.17143	-0.00005	0.0002
45	26	19	1	46	27	19	0	387.83895	0.00015	0.0002
48	26	22	1	49	27	22	0	386.83967	-0.00012	0.0002
49	26	23	1	50	27	23	0	386.50634	-0.00012	0.0002
50	26	24	1	51	27	24	0	386.17303	0.00009	0.0002
51	26	25	1	52	27	25	0	385.83931	0.00006	0.0002
52	26	26	1	53	27	26	0	385.50540	0.00004	0.0002
53	26	27	1	54	27	27	0	385.17117	-0.00013	0.0002
56	26	30	1	57	27	30	0	384.16794	-0.00002	0.0002
57	26	31	1	58	27	31	0	383.83310	-0.00002	0.0002
28	27	1	1	29	28	1	0	393.40943	0.00006	0.0002
29	27	2	1	30	28	2	0	393.09776	0.00004	0.0002
32	27	5	1	33	28	5	0	392.15830	0.00031	0.0002
34	27	7	1	35	28	7	0	391.50737	0.00006	0.0002
37	27	10	1	38	28	10	0	390.49317	-0.00024	0.0002
38	27	11	1	39	28	11	0	390.15979	0.00007	0.0002
39	27	12	1	40	28	12	0	389.82640	-0.00009	0.0002
40	27	13	1	41	28	13	0	389.49344	0.00001	0.0002
41	27	14	1	42	28	14	0	389.16049	0.00008	0.0002
42	27	15	1	43	28	15	0	388.82725	-0.00010	0.0002
43	27	16	1	44	28	16	0	388.49420	-0.00002	0.0002
44	27	17	1	45	28	17	0	388.16092	-0.00008	0.0002
45	27	18	1	46	28	18	0	387.82769	0.00004	0.0002
46	27	19	1	47	28	19	0	387.49419	0.00003	0.0002
47	27	20	1	48	28	20	0	387.16034	-0.00018	0.0002
48	27	21	1	49	28	21	0	386.82671	-0.00003	0.0002
49	27	22	1	50	28	22	0	386.49281	0.00002	0.0002
52	27	25	1	53	28	25	0	385.48978	-0.00011	0.0002
53	27	26	1	54	28	26	0	385.15526	0.00003	0.0002
54	27	27	1	55	28	27	0	384.82049	0.00010	0.0002
29	28	1	1	30	29	1	0	393.07821	0.00012	0.0002
30	28	2	1	31	29	2	0	392.76500	-0.00012	0.0002
31	28	3	1	32	29	3	0	392.45025	-0.00029	0.0002
34	28	6	1	35	29	6	0	391.50183	0.00002	0.0002
39	28	11	1	40	29	11	0	389.82080	-0.00008	0.0002
40	28	12	1	41	29	12	0	389.48666	-0.00013	0.0002
41	28	13	1	42	29	13	0	389.15313	0.00026	0.0002
42	28	14	1	43	29	14	0	388.81888	-0.00014	0.0002
43	28	15	1	44	29	15	0	388.48518	0.00003	0.0002
44	28	16	1	45	29	16	0	388.15112	-0.00009	0.0002
45	28	17	1	46	29	17	0	387.81713	-0.00006	0.0002
46	28	18	1	47	29	18	0	387.48309	0.00006	0.0002
47	28	19	1	48	29	19	0	387.14879	0.00003	0.0002
48	28	20	1	49	29	20	0	386.81409	-0.00025	0.0002
49	28	21	1	50	29	21	0	386.47977	0.00000	0.0002
50	28	22	1	51	29	22	0	386.14483	-0.00020	0.0002
51	28	23	1	52	29	23	0	385.80998	-0.00015	0.0002
52	28	24	1	53	29	24	0	385.47496	-0.00010	0.0002
53	28	25	1	54	29	25	0	385.13973	-0.00007	0.0002
30	29	1	1	31	30	1	0	392.74621	0.00000	0.0002
31	29	2	1	32	30	2	0	392.43193	-0.00001	0.0002
36	29	7	1	37	30	7	0	390.83501	0.00029	0.0002
37	29	8	1	38	30	8	0	390.49613	0.00031	0.0002
38	29	9	1	39	30	9	0	390.15492	0.00023	0.0002
40	29	11	1	41	30	11	0	389.48140	0.00016	0.0002
41	29	12	1	42	30	12	0	389.14650	0.00024	0.0002

42	29	13	1	43	30	13	0	388.81153	0.00002	0.0002
43	29	14	1	44	30	14	0	388.47692	0.00008	0.0002
44	29	15	1	45	30	15	0	388.14203	-0.00013	0.0002
45	29	16	1	46	30	16	0	387.80745	0.00003	0.0002
46	29	17	1	47	30	17	0	387.47249	-0.00010	0.0002
47	29	18	1	48	30	18	0	387.13765	-0.00002	0.0002
48	29	19	1	49	30	19	0	386.80257	-0.00003	0.0002
49	29	20	1	50	30	20	0	386.46761	0.00022	0.0002
50	29	21	1	51	30	21	0	386.13217	0.00013	0.0002
31	30	1	1	32	31	1	0	392.41355	-0.00016	0.0002
35	30	5	1	36	31	5	0	391.14331	0.00003	0.0002
36	30	6	1	37	31	6	0	390.82376	0.00015	0.0002
39	30	9	1	40	31	9	0	389.81673	0.00014	0.0002
40	30	10	1	41	31	10	0	389.47777	0.00026	0.0002
41	30	11	1	42	31	11	0	389.14068	-0.00010	0.0002
42	30	12	1	43	31	12	0	388.80501	0.00010	0.0002
43	30	13	1	44	31	13	0	388.46924	-0.00010	0.0002
44	30	14	1	45	31	14	0	388.13370	-0.00015	0.0002
45	30	15	1	46	31	15	0	387.79851	0.00013	0.0002
47	30	17	1	48	31	17	0	387.12731	0.00007	0.0002
49	30	19	1	50	31	19	0	386.45540	-0.00029	0.0002
50	30	20	1	51	31	20	0	386.11978	0.00008	0.0002
51	30	21	1	52	31	21	0	385.78353	-0.00005	0.0002
52	30	22	1	53	31	22	0	385.44725	-0.00005	0.0002
53	30	23	1	54	31	23	0	385.11064	-0.00022	0.0002
54	30	24	1	55	31	24	0	384.77451	0.00025	0.0002
55	30	25	1	56	31	25	0	384.43747	-0.00001	0.0002
56	30	26	1	57	31	26	0	384.10055	0.00002	0.0002
61	30	31	1	62	31	31	0	382.41316	0.00010	0.0002
62	30	32	1	63	31	32	0	382.07504	0.00003	0.0002
32	31	1	1	33	32	1	0	392.08066	0.00005	0.0002
33	31	2	1	34	32	2	0	391.76352	-0.00025	0.0002
40	31	9	1	41	32	9	0	389.47777	0.00013	0.0002
43	31	12	1	44	32	12	0	388.46265	-0.00010	0.0002
44	31	13	1	45	32	13	0	388.12640	0.00004	0.0002
45	31	14	1	46	32	14	0	387.78979	-0.00029	0.0002
46	31	15	1	47	32	15	0	387.45385	0.00004	0.0002
47	31	16	1	48	32	16	0	387.11740	-0.00010	0.0002
48	31	17	1	49	32	17	0	386.78104	-0.00007	0.0002
49	31	18	1	50	32	18	0	386.44462	0.00000	0.0002
50	31	19	1	51	32	19	0	386.10771	-0.00030	0.0002
51	31	20	1	52	32	20	0	385.77113	-0.00014	0.0002
52	31	21	1	53	32	21	0	385.43435	-0.00003	0.0002
53	31	22	1	54	32	22	0	385.09733	-0.00001	0.0002
54	31	23	1	55	32	23	0	384.76004	-0.00010	0.0002
56	31	25	1	57	32	25	0	384.08538	0.00012	0.0002
58	31	27	1	59	32	27	0	383.40970	0.00003	0.0002
40	32	8	1	41	33	8	0	389.48006	0.00028	0.0002
43	32	11	1	44	33	11	0	388.45735	-0.00006	0.0002
44	32	12	1	45	33	12	0	388.11984	0.00005	0.0002
46	32	14	1	47	33	14	0	387.44547	-0.00003	0.0002
47	32	15	1	48	33	15	0	387.10840	-0.00005	0.0002
48	32	16	1	49	33	16	0	386.77148	0.00011	0.0002
49	32	17	1	50	33	17	0	386.43429	0.00007	0.0002
50	32	18	1	51	33	18	0	386.09695	-0.00001	0.0002
51	32	19	1	52	33	19	0	385.75946	-0.00014	0.0002
52	32	20	1	53	33	20	0	385.42210	0.00001	0.0002
53	32	21	1	54	33	21	0	385.08428	-0.00017	0.0002
54	32	22	1	55	33	22	0	384.74657	-0.00008	0.0002
56	32	24	1	57	33	24	0	384.07062	0.00002	0.0002
57	32	25	1	58	33	25	0	383.73218	-0.00014	0.0002
58	32	26	1	59	33	26	0	383.39388	0.00001	0.0002
59	32	27	1	60	33	27	0	383.05544	0.00018	0.0002
35	33	2	1	36	34	2	0	391.09302	-0.00019	0.0002
39	33	6	1	40	34	6	0	389.80046	0.00006	0.0002
40	33	7	1	41	34	7	0	389.47350	0.00020	0.0002
43	33	10	1	44	34	10	0	388.45469	0.00032	0.0002
45	33	12	1	46	34	12	0	387.77585	-0.00015	0.0002
46	33	13	1	47	34	13	0	387.43807	0.00007	0.0002
47	33	14	1	48	34	14	0	387.10008	-0.00007	0.0002
48	33	15	1	49	34	15	0	386.76245	0.00012	0.0002
49	33	16	1	50	34	16	0	386.42437	-0.00011	0.0002
50	33	17	1	51	34	17	0	386.08636	-0.00020	0.0002
51	33	18	1	52	34	18	0	385.74840	-0.00015	0.0002
52	33	19	1	53	34	19	0	385.41019	-0.00023	0.0002
53	33	20	1	54	34	20	0	385.07234	0.00016	0.0002
54	33	21	1	55	34	21	0	384.73378	-0.00001	0.0002
55	33	22	1	56	34	22	0	384.39523	-0.00001	0.0002
56	33	23	1	57	34	23	0	384.05647	-0.00009	0.0002
57	33	24	1	58	34	24	0	383.71757	-0.00013	0.0002
36	34	2	1	37	35	2	0	390.75682	-0.00022	0.0002
45	34	11	1	46	35	11	0	387.77067	-0.00008	0.0002
46	34	12	1	47	35	12	0	387.43123	-0.00018	0.0002
47	34	13	1	48	35	13	0	387.09259	-0.00002	0.0002
48	34	14	1	49	35	14	0	386.75413	0.00013	0.0002
49	34	15	1	50	35	15	0	386.41540	-0.00001	0.0002
54	34	20	1	55	35	20	0	384.72137	-0.00015	0.0002
55	34	21	1	56	35	21	0	384.38241	0.00001	0.0002
56	34	22	1	57	35	22	0	384.04309	-0.00002	0.0002
37	35	2	1	38	36	2	0	390.41998	-0.00028	0.0002
15	15	0	1	14	14	0	0	407.25379	0.00026	0.0002
16	15	1	1	15	14	1	0	407.49791	-0.00010	0.0002
18	15	3	1	17	14	3	0	407.97302	-0.00003	0.0002
19	15	4	1	18	14	4	0	408.25478	-0.00009	0.0002
23	15	8	1	22	14	8	0	409.46770	-0.00012	0.0002
24	15	9	1	23	14	9	0	409.75977	-0.00005	0.0002
25	15	10	1	24	14	10	0	410.05095	0.00000	0.0002
26	15	11	1	25	14	11	0	410.34141	-0.00006	0.0002
27	15	12	1	26	14	12	0	410.63147	-0.00002	0.0002
28	15	13	1	27	14	13	0	410.92101	-0.00007	0.0002
29	15	14	1	28	14	14	0	411.21027	-0.00004	0.0002
30	15	15	1	29	14	15	0	411.49920	0.00001	0.0002
31	15	16	1	30	14	16	0	411.78776	0.00001	0.0002
32	15	17	1	31	14	17	0	412.07601	0.00000	0.0002
33	15	18	1	32	14	18	0	412.36408	0.00011	0.0002
34	15	19	1	33	14	19	0	412.65156	-0.00009	0.0002
36	15	21	1	35	14	21	0	413.22622	0.00004	0.0002
37	15	22	1	36	14	22	0	413.51295	-0.00010	0.0002
38	15	23	1	37	14	23	0	413.79966	0.00001	0.0002
39	15	24	1	38	14	24	0	414.08581	-0.00018	0.0002
40	15	25	1	39	14	25	0	414.37198	-0.00008	0.0002
41	15	26	1	40	14	26	0	414.65804	0.00016	0.0002
42	15	27	1	41	14	27	0	414.94346	0.00003	0.0002
43	15	28	1	42	14	28	0	415.22877	0.00003	0.0002
44	15	29	1	43	14	29	0	415.51387	0.00010	0.0002
45	15	30	1	44	14	30	0	415.79858	0.00002	0.0002
46	15	31	1	45	14	31	0	416.08333	0.00025	0.0002
47	15	32	1	46	14	32	0	416.36735	0.00000	0.0002
48	15	33	1	47	14	33	0	416.65163	0.00026	0.0002
49	15	34	1	48	14	34	0	416.93512	0.00000	0.0002
51	15	36	1	50	14	36	0	417.50194	0.00009	0.0002
52	15	37	1	51	14	37	0	417.78469	-0.00013	0.0002
53	15	38	1	52	14	38	0	418.06761	0.00007	0.0002
54	15	39	1	53	14	39	0	418.34997	-0.00002	0.0002
55	15	40	1	54	14	40	0	418.63196	-0.00022	0.0002
56	15	41	1	55	14	41	0	418.91418	0.00007	0.0002
57	15	42	1	56	14	42	0	419.19575	-0.00003	0.0002
58	15	43	1	57	14	43	0	419.47713	-0.00005	0.0002
59	15	44	1	58	14	44	0	419.75822	-0.00010	0.0002
60	15	45	1	59	14	45	0	420.03929	0.00010	0.0002
61	15	46	1	60	14	46	0	420.31962	-0.00017	0.0002
63	15	48	1	62	14	48	0	420.88012	-0.00007	0.0002
64	15	49	1	63	14	49	0	421.16001	0.00002	0.0002
65	15	50	1	64	14	50	0	421.43965	0.00014	0.0002
66	15	51	1	65	14	51	0	421.71896	0.00019	0.0002
67	15	52	1	66	14	52	0	421.99790	0.00016	0.0002
16	16	0	1	15	15	0	0	407.55483	0.00031	0.0002
17	16	1	1	16	15	1	0	407.79865	0.00008	0.0002
18	16	2	1	17	15	2	0	408.03063	-0.00008	0.0002
19	16	3	1	18	15	3	0	408.26408	0.00009	0.0002
20	16	4	1	19	15	4	0	408.53426	-0.00006	0.0002
21	16	5	1	20	15	5	0	408.84419	0.00053	0.0002
22	16	6	1	21	15	6	0	409.15627	0.00042	0.0002
23	16	7	1	22	15	7	0	409.45515	-0.00008	0.0002
24	16	8	1	23	15	8	0	409.74899	0.00010	0.0002
25	16	9	1	24	15	9	0	410.04052	0.00001	0.0002
26	16	10	1	25	15	10	0	410.33110	0.00000	0.0002
27	16	11	1	26	15	11	0	410.62101	0.00005	0.0002
28	16	12	1	27	15	12	0	410.91028	-0.00001	0.0002
29	16	13	1	28	15	13	0	411.19903	-0.00011	0.0002
30	16	14	1	29	15	14	0	411.48748	-0.00012	0.0002
31	16	15	1	30	15	15	0	411.77566	-0.00003	0.0002
32	16	16	1	31	15	16	0	412.06347	0.00003	0.0002
33	16	17	1	32	15	17	0	412.35090	0.00001	0.0002
34	16	18	1	33	15	18	0	412.63803	0.00000	0.0002
35	16	19	1	34	15	19	0	412.92491	0.00003	0.0002

36	16	20	1	35	15	20	0	413.21144	0.00001	0.0002
37	16	21	1	36	15	21	0	413.49773	0.00002	0.0002
38	16	22	1	37	15	22	0	413.78375	0.00002	0.0002
39	16	23	1	38	15	23	0	414.06950	0.00003	0.0002
40	16	24	1	39	15	24	0	414.35487	-0.00008	0.0002
41	16	25	1	40	15	25	0	414.64014	-0.00002	0.0002
42	16	26	1	41	15	26	0	414.92507	-0.00003	0.0002
43	16	27	1	42	15	27	0	415.20977	-0.00003	0.0002
44	16	28	1	43	15	28	0	415.49437	0.00014	0.0002
45	16	29	1	44	15	29	0	415.77846	0.00006	0.0002
46	16	30	1	45	15	30	0	416.06201	-0.00030	0.0002
47	16	31	1	46	15	31	0	416.34611	0.00015	0.0002
48	16	32	1	47	15	32	0	416.62930	-0.00004	0.0002
49	16	33	1	48	15	33	0	416.91258	0.00010	0.0002
50	16	34	1	49	15	34	0	417.19534	-0.00001	0.0002
51	16	35	1	50	15	35	0	417.47798	0.00001	0.0002
52	16	36	1	51	15	36	0	417.76025	-0.00006	0.0002
53	16	37	1	52	15	37	0	418.04244	0.00004	0.0002
54	16	38	1	53	15	38	0	418.32433	0.00009	0.0002
55	16	39	1	54	15	39	0	418.60589	0.00010	0.0002
56	16	40	1	55	15	40	0	418.88709	-0.00002	0.0002
57	16	41	1	56	15	41	0	419.16818	0.00004	0.0002
58	16	42	1	57	15	42	0	419.44901	0.00010	0.0002
60	16	44	1	59	15	44	0	420.00969	0.00002	0.0002
61	16	45	1	60	15	45	0	420.28956	-0.00009	0.0002
62	16	46	1	61	15	46	0	420.56928	-0.00008	0.0002
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20	17	3	1	19	16	3	0	408.55678	-0.00003	0.0002
21	17	4	1	20	16	4	0	408.81465	-0.00016	0.0002
22	17	5	1	21	16	5	0	409.11730	0.00007	0.0002
23	17	6	1	22	16	6	0	409.43260	-0.00003	0.0002
24	17	7	1	23	16	7	0	409.73478	0.00023	0.0002
25	17	8	1	24	16	8	0	410.02891	0.00023	0.0002
26	17	9	1	25	16	9	0	410.31996	-0.00007	0.0002
27	17	10	1	26	16	10	0	410.61004	-0.00007	0.0002
28	17	11	1	27	16	11	0	410.89938	0.00000	0.0002
29	17	12	1	28	16	12	0	411.18807	0.00003	0.0002
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31	17	14	1	30	16	14	0	411.76397	0.00009	0.0002
32	17	15	1	31	16	15	0	412.05104	-0.00017	0.0002
33	17	16	1	32	16	16	0	412.33816	-0.00001	0.0002
34	17	17	1	33	16	17	0	412.62474	-0.00006	0.0002
35	17	18	1	34	16	18	0	412.91110	-0.00002	0.0002
36	17	19	1	35	16	19	0	413.19706	-0.00008	0.0002
37	17	20	1	36	16	20	0	413.48276	-0.00011	0.0002
38	17	21	1	37	16	21	0	413.76837	0.00006	0.0002
39	17	22	1	38	16	22	0	414.05338	-0.00010	0.0002
40	17	23	1	39	16	23	0	414.33838	0.00000	0.0002
41	17	24	1	40	16	24	0	414.62301	0.00002	0.0002
42	17	25	1	41	16	25	0	414.90744	0.00009	0.0002
43	17	26	1	42	16	26	0	415.19150	0.00005	0.0002
44	17	27	1	43	16	27	0	415.47527	0.00000	0.0002
45	17	28	1	44	16	28	0	415.75879	-0.00005	0.0002
46	17	29	1	45	16	29	0	416.04231	0.00017	0.0002
47	17	30	1	46	16	30	0	416.32537	0.00019	0.0002
48	17	31	1	47	16	31	0	416.60801	0.00005	0.0002
49	17	32	1	48	16	32	0	416.89049	0.00001	0.0002
50	17	33	1	49	16	33	0	417.17268	-0.00006	0.0002
51	17	34	1	50	16	34	0	417.45482	0.00009	0.0002
52	17	35	1	51	16	35	0	417.73642	-0.00004	0.0002
53	17	36	1	52	16	36	0	418.01800	0.00006	0.0002
54	17	37	1	53	16	37	0	418.29924	0.00009	0.0002
55	17	38	1	54	16	38	0	418.58009	0.00000	0.0002
57	17	40	1	56	16	40	0	419.14114	-0.00006	0.0002
58	17	41	1	57	16	41	0	419.42128	-0.00008	0.0002
59	17	42	1	58	16	42	0	419.70105	-0.00019	0.0002
18	18	0	1	17	17	0	0	408.15457	0.00014	0.0002
19	18	1	1	18	17	1	0	408.39702	0.00003	0.0002
20	18	2	1	19	17	2	0	408.62994	-0.00001	0.0002
21	18	3	1	20	17	3	0	408.85174	0.00031	0.0002
22	18	4	1	21	17	4	0	409.09667	-0.00016	0.0002
23	18	5	1	22	17	5	0	409.38957	-0.00008	0.0002
24	18	6	1	23	17	6	0	409.70670	-0.00007	0.0002
25	18	7	1	24	17	7	0	410.01196	-0.00013	0.0002
26	18	8	1	25	17	8	0	410.30729	0.00019	0.0002
27	18	9	1	26	17	9	0	410.59840	0.00005	0.0002
28	18	10	1	27	17	10	0	410.88797	-0.00003	0.0002
29	18	11	1	28	17	11	0	411.17671	0.00000	0.0002
30	18	12	1	29	17	12	0	411.46449	-0.00023	0.0002
31	18	13	1	30	17	13	0	411.75225	0.00008	0.0002
32	18	14	1	31	17	14	0	412.03935	0.00020	0.0002
33	18	15	1	32	17	15	0	412.32569	-0.00003	0.0002
34	18	16	1	33	17	16	0	412.61188	-0.00002	0.0002
35	18	17	1	34	17	17	0	412.89762	-0.00013	0.0002
36	18	18	1	35	17	18	0	413.18336	0.00010	0.0002
37	18	19	1	36	17	19	0	413.46852	0.00005	0.0002
38	18	20	1	37	17	20	0	413.75332	-0.00005	0.0002
39	18	21	1	38	17	21	0	414.03798	0.00000	0.0002
40	18	22	1	39	17	22	0	414.32234	0.00003	0.0002
41	18	23	1	40	17	23	0	414.60639	0.00002	0.0002
42	18	24	1	41	17	24	0	414.89002	-0.00012	0.0002
43	18	25	1	42	17	25	0	415.17346	-0.00019	0.0002
44	18	26	1	43	17	26	0	415.45692	0.00003	0.0002
45	18	27	1	44	17	27	0	415.73979	-0.00007	0.0002
46	18	28	1	45	17	28	0	416.02244	-0.00012	0.0002
47	18	29	1	46	17	29	0	416.30504	0.00004	0.0002
48	18	30	1	47	17	30	0	416.58718	0.00001	0.0002
49	18	31	1	48	17	31	0	416.86908	-0.00001	0.0002
50	18	32	1	49	17	32	0	417.15079	0.00005	0.0002
51	18	33	1	50	17	33	0	417.43216	0.00003	0.0002
52	18	34	1	51	17	34	0	417.71323	-0.00003	0.0002
53	18	35	1	52	17	35	0	417.99419	0.00007	0.0002
54	18	36	1	53	17	36	0	418.27454	-0.00019	0.0002
58	18	40	1	57	17	40	0	419.39453	0.00004	0.0002
59	18	41	1	58	17	41	0	419.67377	0.00000	0.0002
60	18	42	1	59	17	42	0	419.95278	0.00000	0.0002
61	18	43	1	60	17	43	0	420.23143	-0.00009	0.0002
21	19	2	1	20	18	2	0	408.92816	-0.00020	0.0002
22	19	3	1	21	18	3	0	409.14741	-0.00007	0.0002
24	19	5	1	23	18	5	0	409.66188	0.00006	0.0002
25	19	6	1	24	18	6	0	409.97820	0.00002	0.0002
26	19	7	1	25	18	7	0	410.28788	0.00026	0.0002
27	19	8	1	26	18	8	0	410.58400	-0.00009	0.0002
28	19	9	1	27	18	9	0	410.87544	0.00001	0.0002
29	19	10	1	28	18	10	0	411.16472	-0.00002	0.0002
30	19	11	1	29	18	11	0	411.45294	0.00001	0.0002
31	19	12	1	30	18	12	0	411.74040	0.00006	0.0002
32	19	13	1	31	18	13	0	412.02710	-0.00003	0.0002
33	19	14	1	32	18	14	0	412.31334	-0.00006	0.0002
34	19	15	1	33	18	15	0	412.59922	-0.00001	0.0002
35	19	16	1	34	18	16	0	412.88469	0.00003	0.0002
36	19	17	1	35	18	17	0	413.16971	0.00000	0.0002
37	19	18	1	36	18	18	0	413.45446	0.00002	0.0002
38	19	19	1	37	18	19	0	413.73891	0.00007	0.0002
39	19	20	1	38	18	20	0	414.02301	0.00008	0.0002
40	19	21	1	39	18	21	0	414.30676	0.00005	0.0002
41	19	22	1	40	18	22	0	414.59023	0.00001	0.0002
42	19	23	1	41	18	23	0	414.87351	0.00007	0.0002
43	19	24	1	42	18	24	0	415.15652	0.00014	0.0002
44	19	25	1	43	18	25	0	415.43890	-0.00014	0.0002
45	19	26	1	44	18	26	0	415.72132	-0.00011	0.0002
46	19	27	1	45	18	27	0	416.00362	0.00007	0.0002
47	19	28	1	46	18	28	0	416.28549	0.00009	0.0002
48	19	29	1	47	18	29	0	416.56701	0.00003	0.0002
49	19	30	1	48	18	30	0	416.84833	0.00002	0.0002
50	19	31	1	49	18	31	0	417.12920	-0.00016	0.0002
51	19	32	1	50	18	32	0	417.41002	-0.00013	0.0002
52	19	33	1	51	18	33	0	417.69081	0.00013	0.0002
54	19	35	1	53	18	35	0	418.25076	-0.00018	0.0002
55	19	36	1	54	18	36	0	418.53075	0.00007	0.0002
22	20	2	1	21	19	2	0	409.22571	-0.00002	0.0002
23	20	3	1	22	19	3	0	409.44429	-0.00006	0.0002
24	20	4	1	23	19	4	0	409.66678	-0.00009	0.0002
25	20	5	1	24	19	5	0	409.93464	0.00001	0.0002
26	20	6	1	25	19	6	0	410.24713	0.00011	0.0002
28	20	8	1	27	19	8	0	410.85962	0.00008	0.0002
29	20	9	1	28	19	9	0	411.15126	0.00002	0.0002
30	20	10	1	29	19	10	0	411.44036	0.00005	0.0002
31	20	11	1	30	19	11	0	411.72803	-0.00002	0.0002
32	20	12	1	31	19	12	0	412.01481	-0.00008	0.0002
33	20	13	1	32	19	13	0	412.30106	0.00002	0.0002
34	20	14	1	33	19	14	0	412.58669	0.00006	0.0002
35	20	15	1	34	19	15	0	412.87176	0.00002	0.0002
36	20	16	1	35	19	16	0	413.15649	0.00006	0.0002
37	20	17	1	36	19	17	0	413.44071	-0.00001	0.0002
38	20	18	1	37	19	18	0	413.72454	-0.00012	0.0002

39	20	19	1	38	19	19	0	414.00841	0.00015	0.0002
40	20	20	1	39	19	20	0	414.29164	0.00009	0.0002
41	20	21	1	40	19	21	0	414.57455	0.00002	0.0002
42	20	22	1	41	19	22	0	414.85731	0.00010	0.0002
43	20	23	1	42	19	23	0	415.13970	0.00011	0.0002
44	20	24	1	43	19	24	0	415.42158	-0.00012	0.0002
45	20	25	1	44	19	25	0	415.70367	0.00014	0.0002
46	20	26	1	45	19	26	0	415.98517	0.00008	0.0002
47	20	27	1	46	19	27	0	416.26624	-0.00012	0.0002
48	20	28	1	47	19	28	0	416.54733	-0.00004	0.0002
49	20	29	1	48	19	29	0	416.82813	0.00003	0.0002
50	20	30	1	49	19	30	0	417.10853	-0.00004	0.0002
51	20	31	1	50	19	31	0	417.38866	-0.00012	0.0002
52	20	32	1	51	19	32	0	417.66886	0.00015	0.0002
53	20	33	1	52	19	33	0	417.94841	0.00003	0.0002
54	20	34	1	53	19	34	0	418.22782	0.00004	0.0002
55	20	35	1	54	19	35	0	418.50689	-0.00004	0.0002
56	20	36	1	55	19	36	0	418.78581	0.00002	0.0002
57	20	37	1	56	19	37	0	419.06449	0.00008	0.0002
58	20	38	1	57	19	38	0	419.34295	0.00020	0.0002
59	20	39	1	58	19	39	0	419.62075	-0.00007	0.0002
62	20	42	1	61	19	42	0	420.45344	0.00001	0.0002
63	20	43	1	62	19	43	0	420.73043	0.00000	0.0002
64	20	44	1	63	19	44	0	421.00702	-0.00014	0.0002
25	21	4	1	24	20	4	0	409.95526	-0.00008	0.0002
26	21	5	1	25	20	5	0	410.20891	0.00009	0.0002
27	21	6	1	26	20	6	0	410.51381	0.00001	0.0002
28	21	7	1	27	20	7	0	410.83155	-0.00001	0.0002
29	21	8	1	28	20	8	0	411.13327	-0.00004	0.0002
30	21	9	1	29	20	9	0	411.42601	0.00028	0.0002
31	21	10	1	30	20	10	0	411.71482	0.00013	0.0002
32	21	11	1	31	20	11	0	412.00204	0.00000	0.0002
33	21	12	1	32	20	12	0	412.28836	0.00001	0.0002
34	21	13	1	33	20	13	0	412.57384	-0.00006	0.0002
36	21	15	1	35	20	15	0	413.14329	0.00005	0.0002
37	21	16	1	36	20	16	0	413.42719	-0.00001	0.0002
38	21	17	1	37	20	17	0	413.71069	-0.00005	0.0002
39	21	18	1	38	20	18	0	413.99371	-0.00020	0.0002
40	21	19	1	39	20	19	0	414.27665	-0.00009	0.0002
41	21	20	1	40	20	20	0	414.55913	-0.00010	0.0002
42	21	21	1	41	20	21	0	414.84149	0.00008	0.0002
43	21	22	1	42	20	22	0	415.12328	0.00001	0.0002
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45	21	24	1	44	20	24	0	415.68611	-0.00002	0.0002
46	21	25	1	45	20	25	0	415.96722	0.00010	0.0002
47	21	26	1	46	20	26	0	416.24767	-0.00017	0.0002
48	21	27	1	47	20	27	0	416.52815	-0.00014	0.0002
49	21	28	1	48	20	28	0	416.80840	-0.00005	0.0002
50	21	29	1	49	20	29	0	417.08827	-0.00008	0.0002
51	21	30	1	50	20	30	0	417.36764	-0.00034	0.0002
52	21	31	1	51	20	31	0	417.64734	0.00001	0.0002
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54	21	33	1	53	20	33	0	418.20521	-0.00002	0.0002
56	21	35	1	55	20	35	0	418.76221	0.00013	0.0002
57	21	36	1	56	20	36	0	419.04025	0.00015	0.0002
58	21	37	1	57	20	37	0	419.31784	0.00000	0.0002
62	21	41	1	61	20	41	0	420.42619	0.00002	0.0002
63	21	42	1	62	20	42	0	420.70246	-0.00011	0.0002
64	21	43	1	63	20	43	0	420.97874	0.00003	0.0002
23	22	1	1	22	21	1	0	409.58438	0.00009	0.0002
24	22	2	1	23	21	2	0	409.81736	-0.00004	0.0002
25	22	3	1	24	21	3	0	410.03775	-0.00007	0.0002
27	22	5	1	26	21	5	0	410.48502	0.00008	0.0002
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32	22	10	1	31	21	10	0	411.98785	0.00000	0.0002
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34	22	12	1	33	21	12	0	412.56067	-0.00005	0.0002
35	22	13	1	34	21	13	0	412.84574	0.00005	0.0002
36	22	14	1	35	21	14	0	413.13002	0.00002	0.0002
37	22	15	1	36	21	15	0	413.41365	-0.00008	0.0002
38	22	16	1	37	21	16	0	413.69693	-0.00005	0.0002
39	22	17	1	38	21	17	0	413.97983	0.00005	0.0002
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46	22	24	1	45	21	24	0	415.94957	-0.00008	0.0002
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49	22	27	1	48	21	27	0	416.78942	0.00009	0.0002
51	22	29	1	50	21	29	0	417.34764	-0.00009	0.0002
52	22	30	1	51	21	30	0	417.62650	-0.00001	0.0002
53	22	31	1	52	21	31	0	417.90489	-0.00014	0.0002
54	22	32	1	53	21	32	0	418.18326	-0.00002	0.0002
55	22	33	1	54	21	33	0	418.46137	0.00012	0.0002
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58	22	36	1	57	21	36	0	419.29365	0.00009	0.0002
59	22	37	1	58	21	37	0	419.57047	0.00001	0.0002
60	22	38	1	59	21	38	0	419.84710	0.00001	0.0002
61	22	39	1	60	21	39	0	420.12356	0.00011	0.0002
62	22	40	1	61	21	40	0	420.39956	0.00001	0.0002
63	22	41	1	62	21	41	0	420.67563	0.00027	0.0002
23	23	0	1	22	22	0	0	409.64289	0.00044	0.0002
24	23	1	1	23	22	1	0	409.87947	0.00015	0.0002
25	23	2	1	24	22	2	0	410.11177	-0.00003	0.0002
27	23	4	1	26	22	4	0	410.53854	-0.00010	0.0002
28	23	5	1	27	22	5	0	410.76339	-0.00006	0.0002
29	23	6	1	28	22	6	0	411.04473	0.00006	0.0002
30	23	7	1	29	22	7	0	411.36459	0.00014	0.0002
31	23	8	1	30	22	8	0	411.67480	-0.00016	0.0002
32	23	9	1	31	22	9	0	411.97041	-0.00002	0.0002
33	23	10	1	32	22	10	0	412.25998	0.00023	0.0002
34	23	11	1	33	22	11	0	412.54666	0.00011	0.0002
35	23	12	1	34	22	12	0	412.83191	-0.00005	0.0002
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43	23	20	1	42	22	20	0	415.09173	-0.00004	0.0002
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47	23	24	1	46	22	24	0	416.21233	0.00006	0.0002
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50	23	27	1	49	22	27	0	417.04943	-0.00007	0.0002
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53	23	30	1	52	22	30	0	417.88400	-0.00019	0.0002
54	23	31	1	53	22	31	0	418.16175	-0.00013	0.0002
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35	24	11	1	34	23	11	0	412.81709	0.00004	0.0002
36	24	12	1	35	23	12	0	413.10213	0.00003	0.0002
37	24	13	1	36	23	13	0	413.38608	0.00001	0.0002
38	24	14	1	37	23	14	0	413.66927	0.00007	0.0002
39	24	15	1	38	23	15	0	413.95167	0.00002	0.0002
40	24	16	1	39	23	16	0	414.23355	0.00001	0.0002
41	24	17	1	40	23	17	0	414.51484	-0.00011	0.0002
42	24	18	1	41	23	18	0	414.79595	0.00005	0.0002
43	24	19	1	42	23	19	0	415.07664	0.00019	0.0002
44	24	20	1	43	23	20	0	415.35657	-0.00006	0.0002
45	24	21	1	44	23	21	0	415.63638	-0.00008	0.0002
46	24	22	1	45	23	22	0	415.91598	0.00002	0.0002

47	24	23	1	46	23	23	0	416.19513	0.00000	0.0002
48	24	24	1	47	23	24	0	416.47387	-0.00011	0.0002
49	24	25	1	48	23	25	0	416.75231	-0.00024	0.0002
50	24	26	1	49	23	26	0	417.03085	0.00003	0.0002
51	24	27	1	50	23	27	0	417.30876	-0.00003	0.0002
52	24	28	1	51	23	28	0	417.58655	0.00006	0.0002
53	24	29	1	52	23	29	0	417.86382	-0.00008	0.0002
54	24	30	1	53	23	30	0	418.14108	0.00006	0.0002
55	24	31	1	54	23	31	0	418.41776	-0.00012	0.0002
56	24	32	1	55	23	32	0	418.69463	0.00017	0.0002
57	24	33	1	56	23	33	0	418.97064	-0.00012	0.0002
58	24	34	1	57	23	34	0	419.24678	-0.00002	0.0002
59	24	35	1	58	23	35	0	419.52245	-0.00011	0.0002
60	24	36	1	59	23	36	0	419.79789	-0.00016	0.0002
61	24	37	1	60	23	37	0	420.07331	0.00005	0.0002
62	24	38	1	61	23	38	0	420.34824	0.00003	0.0002
63	24	39	1	62	23	39	0	420.62284	-0.00004	0.0002
65	24	41	1	64	23	41	0	421.17145	0.00004	0.0002
66	24	42	1	65	23	42	0	421.44520	-0.00006	0.0002
67	24	43	1	66	23	43	0	421.71896	0.00011	0.0002
25	25	0	1	24	24	0	0	410.23321	0.00021	0.0002
26	25	1	1	25	24	1	0	410.46751	0.00021	0.0002
27	25	2	1	26	24	2	0	410.69799	-0.00006	0.0002
28	25	3	1	27	24	3	0	410.92101	-0.00001	0.0002
29	25	4	1	28	24	4	0	411.12659	0.00000	0.0002
30	25	5	1	29	24	5	0	411.32863	-0.00005	0.0002
31	25	6	1	30	24	6	0	411.57873	0.00015	0.0002
32	25	7	1	31	24	7	0	411.88676	-0.00001	0.0002
33	25	8	1	32	24	8	0	412.20727	0.00024	0.0002
34	25	9	1	33	24	9	0	412.50861	-0.00010	0.0002
36	25	11	1	35	24	11	0	413.08629	-0.00005	0.0002
37	25	12	1	36	24	12	0	413.37123	0.00012	0.0002
38	25	13	1	37	24	13	0	413.65479	0.00016	0.0002
39	25	14	1	38	24	14	0	413.93734	0.00012	0.0002
40	25	15	1	39	24	15	0	414.21884	-0.00024	0.0002
41	25	16	1	40	24	16	0	414.50039	0.00007	0.0002
42	25	17	1	41	24	17	0	414.78091	-0.00013	0.0002
43	25	18	1	42	24	18	0	415.06125	-0.00004	0.0002
44	25	19	1	43	24	19	0	415.34113	0.00001	0.0002
45	25	20	1	44	24	20	0	415.62070	0.00015	0.0002
46	25	21	1	45	24	21	0	415.89955	-0.00007	0.0002
47	25	22	1	46	24	22	0	416.17841	0.00006	0.0002
48	25	23	1	47	24	23	0	416.45664	-0.00010	0.0002
49	25	24	1	48	24	24	0	416.73450	-0.00030	0.0002
50	25	25	1	49	24	25	0	417.01256	-0.00002	0.0002
51	25	26	1	50	24	26	0	417.29005	0.00001	0.0002
52	25	27	1	51	24	27	0	417.56731	0.00010	0.0002
53	25	28	1	52	24	28	0	417.84402	-0.00007	0.0002
54	25	29	1	53	24	29	0	418.12077	0.00008	0.0002
55	25	30	1	54	24	30	0	418.39699	-0.00001	0.0002
57	25	32	1	56	24	32	0	418.94880	0.00000	0.0002
58	25	33	1	57	24	33	0	419.22424	-0.00003	0.0002
59	25	34	1	58	24	34	0	419.49944	-0.00003	0.0002
26	26	0	1	25	25	0	0	410.52755	0.00028	0.0002
27	26	1	1	26	25	1	0	410.76036	0.00008	0.0002
28	26	2	1	27	25	2	0	410.98980	-0.00019	0.0002
29	26	3	1	28	25	3	0	411.21283	-0.00028	0.0002
30	26	4	1	29	25	4	0	411.42036	-0.00004	0.0002
31	26	5	1	30	25	5	0	411.61543	-0.00006	0.0002
32	26	6	1	31	25	6	0	411.84890	0.00020	0.0002
33	26	7	1	32	25	7	0	412.14571	0.00023	0.0002
34	26	8	1	33	25	8	0	412.46882	0.00004	0.0002
36	26	10	1	35	25	10	0	413.06737	-0.00006	0.0002
37	26	11	1	36	25	11	0	413.35449	0.00009	0.0002
38	26	12	1	37	25	12	0	413.63900	0.00004	0.0002
39	26	13	1	38	25	13	0	413.92207	-0.00002	0.0002
40	26	14	1	39	25	14	0	414.20416	-0.00003	0.0002
41	26	15	1	40	25	15	0	414.48542	-0.00006	0.0002
42	26	16	1	41	25	16	0	414.76627	0.00017	0.0002
43	26	17	1	42	25	17	0	415.04607	-0.00009	0.0002
44	26	18	1	43	25	18	0	415.32567	-0.00005	0.0002
45	26	19	1	44	25	19	0	415.60472	-0.00011	0.0002
46	26	20	1	45	25	20	0	415.88362	0.00009	0.0002
47	26	21	1	46	25	21	0	416.16182	-0.00003	0.0002
48	26	22	1	47	25	22	0	416.43972	-0.00009	0.0002
49	26	23	1	48	25	23	0	416.71738	-0.00006	0.0002
50	26	24	1	49	25	24	0	416.99481	0.00008	0.0002
51	26	25	1	50	25	25	0	417.27163	-0.00008	0.0002
52	26	26	1	51	25	26	0	417.54826	-0.00012	0.0002
53	26	27	1	52	25	27	0	417.82473	-0.00003	0.0002
54	26	28	1	53	25	28	0	418.10065	-0.00019	0.0002
55	26	29	1	54	25	29	0	418.37651	-0.00012	0.0002
56	26	30	1	55	25	30	0	418.65224	0.00011	0.0002
58	26	32	1	57	25	32	0	419.20221	-0.00008	0.0002
59	26	33	1	58	25	33	0	419.47713	0.00018	0.0002
60	26	34	1	59	25	34	0	419.75145	0.00012	0.0002
61	26	35	1	60	25	35	0	420.02555	0.00011	0.0002
62	26	36	1	61	25	36	0	420.29922	-0.00006	0.0002
63	26	37	1	62	25	37	0	420.57286	0.00003	0.0002
64	26	38	1	63	25	38	0	420.84637	0.00025	0.0002
65	26	39	1	64	25	39	0	421.11961	0.00049	0.0002
67	26	41	1	66	25	41	0	421.66464	0.00032	0.0002
27	27	0	1	26	26	0	0	410.82121	0.00035	0.0002
28	27	1	1	27	26	1	0	411.05272	0.00013	0.0002
29	27	2	1	28	26	2	0	411.28138	0.00017	0.0002
30	27	3	1	29	26	3	0	411.50402	-0.00013	0.0002
31	27	4	1	30	26	4	0	411.71310	-0.00018	0.0002
32	27	5	1	31	26	5	0	411.90456	-0.00005	0.0002
37	27	10	1	36	26	10	0	413.33374	0.00000	0.0002
39	27	12	1	38	26	12	0	413.90569	0.00004	0.0002
40	27	13	1	39	26	13	0	414.18842	-0.00002	0.0002
41	27	14	1	40	26	14	0	414.47011	0.00003	0.0002
42	27	15	1	41	26	15	0	414.75083	0.00000	0.0002
43	27	16	1	42	26	16	0	415.03089	0.00003	0.0002
44	27	17	1	43	26	17	0	415.31045	0.00017	0.0002
45	27	18	1	44	26	18	0	415.58913	-0.00004	0.0002
46	27	19	1	45	26	19	0	415.86761	0.00002	0.0002
47	27	20	1	46	26	20	0	416.14561	0.00004	0.0002
48	27	21	1	47	26	21	0	416.42284	-0.00032	0.0002
49	27	22	1	48	26	22	0	416.70027	-0.00009	0.0002
50	27	23	1	49	26	23	0	416.97722	-0.00001	0.0002
51	27	24	1	50	26	24	0	417.25370	-0.00006	0.0002
52	27	25	1	51	26	25	0	417.52980	-0.00016	0.0002
53	27	26	1	52	26	26	0	417.80587	0.00002	0.0002
54	27	27	1	53	26	27	0	418.08149	0.00005	0.0002
55	27	28	1	54	26	28	0	418.35687	0.00015	0.0002
56	27	29	1	55	26	29	0	418.63196	0.00026	0.0002
57	27	30	1	56	26	30	0	418.90642	0.00001	0.0002
58	27	31	1	57	26	31	0	419.18072	-0.00010	0.0002
59	27	32	1	58	26	32	0	419.45483	-0.00012	0.0002
62	27	35	1	61	26	35	0	420.27560	-0.00006	0.0002
63	27	36	1	62	26	36	0	420.54877	0.00009	0.0002
64	27	37	1	63	26	37	0	420.82155	0.00014	0.0002
65	27	38	1	64	26	38	0	421.09405	0.00018	0.0002
29	28	1	1	28	27	1	0	411.34433	0.00011	0.0002
30	28	2	1	29	27	2	0	411.57168	-0.00001	0.0002
31	28	3	1	30	27	3	0	411.79415	-0.00004	0.0002
38	28	10	1	37	27	10	0	413.59839	-0.00001	0.0002
39	28	11	1	38	27	11	0	413.88671	0.00006	0.0002
40	28	12	1	39	27	12	0	414.17124	0.00010	0.0002
41	28	13	1	40	27	13	0	414.45382	0.00015	0.0002
42	28	14	1	41	27	14	0	414.73480	-0.00010	0.0002
43	28	15	1	42	27	15	0	415.01510	-0.00005	0.0002
44	28	16	1	43	27	16	0	415.29468	0.00006	0.0002
45	28	17	1	44	27	17	0	415.57345	0.00004	0.0002
46	28	18	1	45	27	18	0	415.85143	-0.00022	0.0002
47	28	19	1	46	27	19	0	416.12928	-0.00010	0.0002
48	28	20	1	47	27	20	0	416.40681	0.00015	0.0002
49	28	21	1	48	27	21	0	416.68344	-0.00009	0.0002
50	28	22	1	49	27	22	0	416.95993	-0.00008	0.0002
51	28	23	1	50	27	23	0	417.23621	0.00009	0.0002
52	28	24	1	51	27	24	0	417.51194	0.00005	0.0002
53	28	25	1	52	27	25	0	417.78735	0.00002	0.0002
54	28	26	1	53	27	26	0	418.06233	-0.00011	0.0002
55	28	27	1	54	27	27	0	418.33735	0.00011	0.0002
56	28	28	1	55	27	28	0	418.61186	0.00012	0.0002
57	28	29	1	56	27	29	0	418.88583	-0.00011	0.0002
58	28	30	1	57	27	30	0	419.15992	0.00008	0.0002
60	28	32	1	59	27	32	0	419.70698	0.00020	0.0002
61	28	33	1	60	27	33	0	419.97988	0.00005	0.0002
62	28	34	1	61	27	34	0	420.25238	-0.00021	0.0002
30	29	1	1	29	28	1	0	411.63526	0.00006	0.0002
31	29	2	1	30	28	2	0	411.86143	-0.00006	0.0002
32	29	3	1	31	28	3	0	412.08306	-0.00028	0.0002
36	29	7	1	35	28	7	0	412.92491	0.00022	0.0002
38	29	9	1	37	28	9	0	413.55963	0.00007	0.0002

39	29	10	1	38	28	10	0	413.86130	0.00004	0.0002
41	29	12	1	40	28	12	0	414.43560	0.00017	0.0002
42	29	13	1	41	28	13	0	414.71774	-0.00003	0.0002
43	29	14	1	42	28	14	0	414.99869	0.00005	0.0002
44	29	15	1	43	28	15	0	415.27836	-0.00006	0.0002
45	29	16	1	44	28	16	0	415.55723	-0.00011	0.0002
46	29	17	1	45	28	17	0	415.83554	-0.00001	0.0002
47	29	18	1	46	28	18	0	416.11325	0.00010	0.0002
49	29	20	1	48	28	20	0	416.66683	0.00002	0.0002
50	29	21	1	49	28	21	0	416.94310	0.00012	0.0002
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52	29	23	1	51	28	23	0	417.49413	0.00002	0.0002
53	29	24	1	52	28	24	0	417.76919	0.00006	0.0002
54	29	25	1	53	28	25	0	418.04383	0.00003	0.0002
55	29	26	1	54	28	26	0	418.31825	0.00010	0.0002
56	29	27	1	55	28	27	0	418.59225	0.00006	0.0002
58	29	29	1	57	28	29	0	419.13953	0.00022	0.0002
32	30	2	1	31	29	2	0	412.15050	-0.00009	0.0002
34	30	4	1	33	29	4	0	412.58409	-0.00029	0.0002
36	30	6	1	35	29	6	0	412.96040	0.00015	0.0002
37	30	7	1	36	29	7	0	413.18892	0.00019	0.0002
38	30	8	1	37	29	8	0	413.48896	0.00031	0.0002
39	30	9	1	38	29	9	0	413.81548	0.00019	0.0002
40	30	10	1	39	29	10	0	414.12220	0.00009	0.0002
41	30	11	1	40	29	11	0	414.41353	0.00012	0.0002
42	30	12	1	41	29	12	0	414.69862	0.00016	0.0002
43	30	13	1	42	29	13	0	414.98058	-0.00013	0.0002
44	30	14	1	43	29	14	0	415.26128	0.00000	0.0002
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46	30	16	1	45	29	16	0	415.81923	0.00018	0.0002
47	30	17	1	46	29	17	0	416.09665	-0.00004	0.0002
48	30	18	1	47	29	18	0	416.37352	-0.00016	0.0002
49	30	19	1	48	29	19	0	416.65025	0.00014	0.0002
50	30	20	1	49	29	20	0	416.92600	-0.00002	0.0002
51	30	21	1	50	29	21	0	417.20151	0.00002	0.0002
52	30	22	1	51	29	22	0	417.47655	0.00001	0.0002
53	30	23	1	52	29	23	0	417.75114	-0.00005	0.0002
54	30	24	1	53	29	24	0	418.02546	-0.00002	0.0002
55	30	25	1	54	29	25	0	418.29924	-0.00016	0.0002
56	30	26	1	55	29	26	0	418.57304	0.00005	0.0002
57	30	27	1	56	29	27	0	418.84609	-0.00017	0.0002
58	30	28	1	57	29	28	0	419.11913	-0.00008	0.0002
59	30	29	1	58	29	29	0	419.39177	-0.00008	0.0002
60	30	30	1	59	29	30	0	419.66435	0.00016	0.0002
62	30	32	1	61	29	32	0	420.20810	0.00012	0.0002
63	30	33	1	62	29	33	0	420.47949	0.00006	0.0002
64	30	34	1	63	29	34	0	420.75052	-0.00008	0.0002
65	30	35	1	64	29	35	0	421.02152	0.00004	0.0002
32	31	1	1	31	30	1	0	412.21524	0.00010	0.0002
33	31	2	1	32	30	2	0	412.43895	-0.00007	0.0002
36	31	5	1	35	30	5	0	413.06858	0.00011	0.0002
37	31	6	1	36	30	6	0	413.24591	-0.00001	0.0002
38	31	7	1	37	30	7	0	413.45618	0.00008	0.0002
40	31	9	1	39	30	9	0	414.06807	0.00025	0.0002
41	31	10	1	40	30	10	0	414.38062	-0.00004	0.0002
42	31	11	1	41	30	11	0	414.67452	0.00001	0.0002
43	31	12	1	42	30	12	0	414.96026	0.00003	0.0002
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46	31	15	1	45	30	15	0	415.80175	-0.00003	0.0002
47	31	16	1	46	30	16	0	416.07974	0.00002	0.0002
48	31	17	1	47	30	17	0	416.35668	-0.00014	0.0002
49	31	18	1	48	30	18	0	416.63316	-0.00006	0.0002
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55	31	24	1	54	30	24	0	418.28088	-0.00005	0.0002
56	31	25	1	55	30	25	0	418.55413	0.00001	0.0002
57	31	26	1	56	30	26	0	418.82686	-0.00011	0.0002
58	31	27	1	57	30	27	0	419.09934	-0.00014	0.0002
59	31	28	1	58	30	28	0	419.37161	-0.00005	0.0002
60	31	29	1	59	30	29	0	419.64357	0.00003	0.0002
61	31	30	1	60	30	30	0	419.91516	0.00006	0.0002
62	31	31	1	61	30	31	0	420.18648	0.00012	0.0002
65	31	34	1	64	30	34	0	420.99852	0.00014	0.0002
37	32	5	1	36	31	5	0	413.35734	-0.00027	0.0002
38	32	6	1	37	31	6	0	413.53378	0.00013	0.0002
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55	32	23	1	54	31	23	0	418.26250	-0.00015	0.0002
56	32	24	1	55	31	24	0	418.53537	-0.00012	0.0002
57	32	25	1	56	31	25	0	418.80789	-0.00006	0.0002
58	32	26	1	57	31	26	0	419.08013	0.00007	0.0002
59	32	27	1	58	31	27	0	419.35184	0.00001	0.0002
60	32	28	1	59	31	28	0	419.62316	-0.00011	0.0002
61	32	29	1	60	31	29	0	419.89434	-0.00004	0.0002
35	33	2	1	34	32	2	0	413.01375	-0.00010	0.0002
36	33	3	1	35	32	3	0	413.23176	-0.00021	0.0002
39	33	6	1	38	32	6	0	413.82234	-0.00010	0.0002
40	33	7	1	39	32	7	0	414.00243	0.00024	0.0002
42	33	9	1	41	32	9	0	414.56444	0.00025	0.0002
44	33	11	1	43	32	11	0	415.19150	0.00001	0.0002
47	33	14	1	46	32	14	0	416.04231	-0.00019	0.0002
48	33	15	1	47	32	15	0	416.32082	-0.00003	0.0002
49	33	16	1	48	32	16	0	416.59796	0.00001	0.0002
50	33	17	1	49	32	17	0	416.87401	-0.00006	0.0002
51	33	18	1	50	32	18	0	417.14941	0.00004	0.0002
52	33	19	1	51	32	19	0	417.42396	-0.00003	0.0002
53	33	20	1	52	32	20	0	417.69814	0.00014	0.0002
54	33	21	1	53	32	21	0	417.97147	-0.00001	0.0002
55	33	22	1	54	32	22	0	418.24433	-0.00014	0.0002
56	33	23	1	55	32	23	0	418.51691	-0.00012	0.0002
57	33	24	1	56	32	24	0	418.78936	0.00020	0.0002
36	34	2	1	35	33	2	0	413.30006	-0.00020	0.0002
41	34	7	1	40	33	7	0	414.28121	0.00022	0.0002
44	34	10	1	43	33	10	0	415.13970	0.00014	0.0002
45	34	11	1	44	33	11	0	415.44700	0.00003	0.0002
46	34	12	1	45	33	12	0	415.73726	-0.00002	0.0002
48	34	14	1	47	33	14	0	416.30056	-0.00007	0.0002
49	34	15	1	48	33	15	0	416.57872	-0.00004	0.0002
50	34	16	1	49	33	16	0	416.85559	0.00008	0.0002
51	34	17	1	50	33	17	0	417.13111	-0.00007	0.0002
52	34	18	1	51	33	18	0	417.40603	0.00006	0.0002
53	34	19	1	52	33	19	0	417.67996	-0.00006	0.0002
54	34	20	1	53	33	20	0	417.95348	0.00005	0.0002
55	34	21	1	54	33	21	0	418.22632	0.00004	0.0002
56	34	22	1	55	33	22	0	418.49841	-0.00021	0.0002
57	34	23	1	56	33	23	0	418.77038	-0.00012	0.0002
58	34	24	1	57	33	24	0	419.04180	-0.00015	0.0002
59	34	25	1	58	33	25	0	419.31292	-0.00007	0.0002
37	35	2	1	36	34	2	0	413.58583	-0.00018	0.0002
47	35	12	1	46	34	12	0	415.99316	-0.00012	0.0002
48	35	13	1	47	34	13	0	416.27760	0.00019	0.0002
49	35	14	1	48	34	14	0	416.55775	0.00015	0.0002
50	35	15	1	49	34	15	0	416.83551	-0.00006	0.0002
51	35	16	1	50	34	16	0	417.11191	-0.00010	0.0002
52	35	17	1	51	34	17	0	417.38742	0.00015	0.0002
53	35	18	1	52	34	18	0	417.66165	0.00007	0.0002
54	35	19	1	53	34	19	0	417.93502	-0.00007	0.0002
55	35	20	1	54	34	20	0	418.20797	0.00005	0.0002
56	35	21	1	55	34	21	0	418.48039	0.00023	0.0002
57	35	22	1	56	34	22	0	418.75187	0.00001	0.0002
7	0	7	1	8	0	8	0	401.21853	-0.00010	0.0002
8	0	8	1	9	0	9	0	401.04293	-0.00001	0.0002
9	0	9	1	10	0	10	0	400.86714	0.00011	0.0002
10	0	10	1	11	0	11	0	400.69090	0.00002	0.0002
11	0	11	1	12	0	12	0	400.51464	0.00012	0.0002
12	0	12	1	13	0	13	0	400.33793	0.00001	0.0002
13	0	13	1	14	0	14	0	400.16107	-0.00003	0.0002
14	0	14	1	15	0	15	0	399.98402	-0.00004	0.0002
15	0	15	1	16	0	16	0	399.80667	-0.00012	0.0002
16	0	16	1	17	0	17	0	399.62935	0.00006	0.0002
18	0	18	1	19	0	19	0	399.27337	-0.00026	0.0002
19	0	19	1	20	0	20	0	399.09544	-0.00003	0.0002

20	0	20	1	21	0	21	0	398.91704	-0.00003	0.0002
21	0	21	1	22	0	22	0	398.73844	-0.00001	0.0002
22	0	22	1	23	0	23	0	398.55967	0.00007	0.0002
23	0	23	1	24	0	24	0	398.38056	0.00002	0.0002
24	0	24	1	25	0	25	0	398.20149	0.00024	0.0002
25	0	25	1	26	0	26	0	398.02163	-0.00010	0.0002
26	0	26	1	27	0	27	0	397.84208	0.00008	0.0002
27	0	27	1	28	0	28	0	397.66222	0.00019	0.0002
28	0	28	1	29	0	29	0	397.48198	0.00013	0.0002
29	0	29	1	30	0	30	0	397.30125	-0.00019	0.0002
30	0	30	1	31	0	31	0	397.12086	0.00006	0.0002
31	0	31	1	32	0	32	0	396.94006	0.00011	0.0002
32	0	32	1	33	0	33	0	396.75879	-0.00008	0.0002
33	0	33	1	34	0	34	0	396.57758	0.00001	0.0002
34	0	34	1	35	0	35	0	396.39601	-0.00003	0.0002
35	0	35	1	36	0	36	0	396.21439	0.00010	0.0002
36	0	36	1	37	0	37	0	396.03234	0.00002	0.0002
37	0	37	1	38	0	38	0	395.85008	-0.00004	0.0002
38	0	38	1	39	0	39	0	395.66779	0.00009	0.0002
39	0	39	1	40	0	40	0	395.48519	0.00013	0.0002
40	0	40	1	41	0	41	0	395.30222	0.00003	0.0002
41	0	41	1	42	0	42	0	395.11913	0.00003	0.0002
42	0	42	1	43	0	43	0	394.93591	0.00012	0.0002
43	0	43	1	44	0	44	0	394.75232	0.00007	0.0002
44	0	44	1	45	0	45	0	394.56863	0.00014	0.0002
45	0	45	1	46	0	46	0	394.38482	0.00031	0.0002
46	0	46	1	47	0	47	0	394.20045	0.00016	0.0002
47	0	47	1	48	0	48	0	394.01572	-0.00014	0.0002
48	0	48	1	49	0	49	0	393.83111	-0.00009	0.0002
49	0	49	1	50	0	50	0	393.64662	0.00029	0.0002
50	0	50	1	51	0	51	0	393.46138	0.00016	0.0002
51	0	51	1	52	0	52	0	393.27631	0.00042	0.0002
52	0	52	1	53	0	53	0	393.09070	0.00036	0.0002
53	0	53	1	54	0	54	0	392.90481	0.00025	0.0002
5	1	4	1	6	1	5	0	401.43418	0.00009	0.0002
6	1	5	1	7	1	6	0	401.25805	-0.00015	0.0002
7	1	6	1	8	1	7	0	401.08200	-0.00007	0.0002
8	1	7	1	9	1	8	0	400.90580	0.00010	0.0002
9	1	8	1	10	1	9	0	400.72912	0.00001	0.0002
10	1	9	1	11	1	10	0	400.55233	0.00003	0.0002
11	1	10	1	12	1	11	0	400.37509	-0.00018	0.0002
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14	1	13	1	15	1	14	0	399.84279	0.00001	0.0002
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16	1	15	1	17	1	16	0	399.48662	-0.00005	0.0002
17	1	16	1	18	1	17	0	399.30835	0.00008	0.0002
18	1	17	1	19	1	18	0	399.12952	-0.00014	0.0002
19	1	18	1	20	1	19	0	398.95070	-0.00011	0.0002
20	1	19	1	21	1	20	0	398.77163	-0.00011	0.0002
21	1	20	1	22	1	21	0	398.59247	0.00002	0.0002
22	1	21	1	23	1	22	0	398.41288	-0.00004	0.0002
23	1	22	1	24	1	23	0	398.23328	0.00010	0.0002
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25	1	24	1	26	1	25	0	397.87294	-0.00007	0.0002
26	1	25	1	27	1	26	0	397.69253	-0.00007	0.0002
27	1	26	1	28	1	27	0	397.51201	0.00006	0.0002
28	1	27	1	29	1	28	0	397.33101	-0.00008	0.0002
30	1	29	1	31	1	30	0	396.96864	-0.00003	0.0002
31	1	30	1	32	1	31	0	396.78715	0.00002	0.0002
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33	1	32	1	34	1	33	0	396.42300	-0.00037	0.0002
34	1	33	1	35	1	34	0	396.24099	-0.00017	0.0002
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36	1	35	1	37	1	36	0	395.87602	-0.00004	0.0002
37	1	36	1	38	1	37	0	395.69310	-0.00008	0.0002
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39	1	38	1	40	1	39	0	395.32664	-0.00009	0.0002
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42	1	41	1	43	1	42	0	394.77564	0.00027	0.0002
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11	2	9	1	12	2	10	0	400.23650	-0.00017	0.0002
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16	2	14	1	17	2	15	0	399.34474	0.00001	0.0002
18	2	16	1	19	2	17	0	398.98626	-0.00011	0.0002
19	2	17	1	20	2	18	0	398.80670	-0.00015	0.0002
20	2	18	1	21	2	19	0	398.62714	0.00004	0.0002
21	2	19	1	22	2	20	0	398.44704	-0.00009	0.0002
22	2	20	1	23	2	21	0	398.26698	0.00004	0.0002
23	2	21	1	24	2	22	0	398.08667	0.00016	0.0002
24	2	22	1	25	2	23	0	397.90607	0.00020	0.0002
26	2	24	1	27	2	25	0	397.54386	-0.00005	0.0002
29	2	27	1	30	2	28	0	396.99930	0.00003	0.0002
30	2	28	1	31	2	29	0	396.81731	0.00004	0.0002
31	2	29	1	32	2	30	0	396.63507	0.00002	0.0002
32	2	30	1	33	2	31	0	396.45254	-0.00006	0.0002
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37	2	35	1	38	2	36	0	395.53704	0.00004	0.0002
38	2	36	1	39	2	37	0	395.35324	0.00004	0.0002
39	2	37	1	40	2	38	0	395.16927	0.00009	0.0002
40	2	38	1	41	2	39	0	394.98494	0.00000	0.0002
41	2	39	1	42	2	40	0	394.80031	-0.00015	0.0002
42	2	40	1	43	2	41	0	394.61572	-0.00004	0.0002
43	2	41	1	44	2	42	0	394.43086	0.00002	0.0002
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46	2	44	1	47	2	45	0	393.87517	0.00047	0.0002
47	2	45	1	48	2	46	0	393.68903	0.00016	0.0002
49	2	47	1	50	2	48	0	393.31678	0.00025	0.0002
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6	3	3	1	7	3	4	0	400.98739	0.00037	0.0002
7	3	4	1	8	3	5	0	400.81067	0.00011	0.0002
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9	3	6	1	10	3	7	0	400.45533	0.00016	0.0002
10	3	7	1	11	3	8	0	400.27705	-0.00001	0.0002
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18	3	15	1	19	3	16	0	398.84372	-0.00003	0.0002
19	3	16	1	20	3	17	0	398.66337	-0.00018	0.0002
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25	3	22	1	26	3	23	0	397.57783	0.00014	0.0002
27	3	24	1	28	3	25	0	397.21402	0.00009	0.0002
28	3	25	1	29	3	26	0	397.03153	-0.00018	0.0002
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33	3	30	1	34	3	31	0	396.11734	0.00011	0.0002
34	3	31	1	35	3	32	0	395.93364	-0.00002	0.0002
35	3	32	1	36	3	33	0	395.74990	0.00003	0.0002

36	3	33	1	37	3	34	0	395.56585	0.00000	0.0002
37	3	34	1	38	3	35	0	395.38155	-0.00004	0.0002
38	3	35	1	39	3	36	0	395.19700	-0.00011	0.0002
39	3	36	1	40	3	37	0	395.01243	0.00002	0.0002
40	3	37	1	41	3	38	0	394.82751	0.00003	0.0002
41	3	38	1	42	3	39	0	394.64242	0.00009	0.0002
42	3	39	1	43	3	40	0	394.45682	-0.00013	0.0002
43	3	40	1	44	3	41	0	394.27140	0.00006	0.0002
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46	3	43	1	47	3	44	0	393.71322	0.00008	0.0002
47	3	44	1	48	3	45	0	393.52672	0.00010	0.0002
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49	3	46	1	50	3	47	0	393.15289	-0.00001	0.0002
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56	3	53	1	57	3	54	0	391.83798	0.00032	0.0002
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22	4	18	1	23	4	19	0	397.97670	-0.00032	0.0002
23	4	19	1	24	4	20	0	397.79533	0.00006	0.0002
24	4	20	1	25	4	21	0	397.61313	-0.00016	0.0002
25	4	21	1	26	4	22	0	397.43108	0.00000	0.0002
26	4	22	1	27	4	23	0	397.24893	0.00029	0.0002
28	4	24	1	29	4	25	0	396.88313	0.00003	0.0002
29	4	25	1	30	4	26	0	396.70010	0.00012	0.0002
30	4	26	1	31	4	27	0	396.51661	-0.00003	0.0002
31	4	27	1	32	4	28	0	396.33305	-0.00002	0.0002
32	4	28	1	33	4	29	0	396.14904	-0.00024	0.0002
33	4	29	1	34	4	30	0	395.96526	-0.00001	0.0002
34	4	30	1	35	4	31	0	395.78091	-0.00012	0.0002
35	4	31	1	36	4	32	0	395.59666	0.00011	0.0002
36	4	32	1	37	4	33	0	395.41192	0.00007	0.0002
37	4	33	1	38	4	34	0	395.22692	-0.00001	0.0002
38	4	34	1	39	4	35	0	395.04180	0.00002	0.0002
39	4	35	1	40	4	36	0	394.85630	-0.00010	0.0002
40	4	36	1	41	4	37	0	394.67073	-0.00008	0.0002
41	4	37	1	42	4	38	0	394.48505	0.00007	0.0002
42	4	38	1	43	4	39	0	394.29892	0.00001	0.0002
43	4	39	1	44	4	40	0	394.11268	0.00005	0.0002
44	4	40	1	45	4	41	0	393.92629	0.00018	0.0002
45	4	41	1	46	4	42	0	393.73985	0.00047	0.0002
46	4	42	1	47	4	43	0	393.55246	0.00005	0.0002
51	4	47	1	52	4	48	0	392.61424	0.00012	0.0002
52	4	48	1	53	4	49	0	392.42608	0.00030	0.0002
53	4	49	1	54	4	50	0	392.23737	0.00017	0.0002
54	4	50	1	55	4	51	0	392.04832	-0.00007	0.0002
55	4	51	1	56	4	52	0	391.85941	0.00006	0.0002
56	4	52	1	57	4	53	0	391.67027	0.00019	0.0002
57	4	53	1	58	4	54	0	391.48086	0.00028	0.0002
58	4	54	1	59	4	55	0	391.29119	0.00035	0.0002
10	5	5	1	11	5	6	0	400.00365	-0.00009	0.0002
11	5	6	1	12	5	7	0	399.82454	0.00020	0.0002
12	5	7	1	13	5	8	0	399.64461	0.00006	0.0002
13	5	8	1	14	5	9	0	399.46494	0.00044	0.0002
15	5	10	1	16	5	11	0	399.10350	-0.00010	0.0002
16	5	11	1	17	5	12	0	398.92287	0.00009	0.0002
17	5	12	1	18	5	13	0	398.74182	0.00008	0.0002
19	5	14	1	20	5	15	0	398.37891	-0.00005	0.0002
21	5	16	1	22	5	17	0	398.01518	-0.00007	0.0002
22	5	17	1	23	5	18	0	397.83306	0.00000	0.0002
23	5	18	1	24	5	19	0	397.65064	-0.00001	0.0002
24	5	19	1	25	5	20	0	397.46798	-0.00002	0.0002
25	5	20	1	26	5	21	0	397.28515	0.00002	0.0002
26	5	21	1	27	5	22	0	397.10217	0.00013	0.0002
28	5	23	1	29	5	24	0	396.73493	-0.00023	0.0002
29	5	24	1	30	5	25	0	396.55148	0.00009	0.0002
30	5	25	1	31	5	26	0	396.36729	-0.00010	0.0002
31	5	26	1	32	5	27	0	396.18310	-0.00006	0.0002
32	5	27	1	33	5	28	0	395.99859	-0.00010	0.0002
33	5	28	1	34	5	29	0	395.81403	0.00002	0.0002
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35	5	30	1	36	5	31	0	395.44379	-0.00018	0.0002
36	5	31	1	37	5	32	0	395.25868	0.00007	0.0002
37	5	32	1	38	5	33	0	395.07304	0.00002	0.0002
38	5	33	1	39	5	34	0	394.88718	-0.00002	0.0002
39	5	34	1	40	5	35	0	394.70100	-0.00015	0.0002
40	5	35	1	41	5	36	0	394.51497	0.00008	0.0002
41	5	36	1	42	5	37	0	394.32822	-0.00017	0.0002
42	5	37	1	43	5	38	0	394.14164	-0.00002	0.0002
44	5	39	1	45	5	40	0	393.76738	-0.00014	0.0002
45	5	40	1	46	5	41	0	393.58008	-0.00002	0.0002
46	5	41	1	47	5	42	0	393.39268	0.00022	0.0002
47	5	42	1	48	5	43	0	393.20457	-0.00003	0.0002
48	5	43	1	49	5	44	0	393.01648	-0.00001	0.0002
49	5	44	1	50	5	45	0	392.82831	0.00015	0.0002
50	5	45	1	51	5	46	0	392.63960	0.00000	0.0002
52	5	47	1	53	5	48	0	392.26172	-0.00006	0.0002
53	5	48	1	54	5	49	0	392.07265	0.00012	0.0002
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55	5	50	1	56	5	51	0	391.69348	0.00016	0.0002
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58	5	53	1	59	5	54	0	391.12296	0.00019	0.0002
14	6	8	1	15	6	9	0	399.14553	-0.00040	0.0002
15	6	9	1	16	6	10	0	398.96463	-0.00014	0.0002
16	6	10	1	17	6	11	0	398.78336	0.00002	0.0002
17	6	11	1	18	6	12	0	398.60161	-0.00005	0.0002
18	6	12	1	19	6	13	0	398.42000	0.00025	0.0002
19	6	13	1	20	6	14	0	398.23769	0.00009	0.0002
20	6	14	1	21	6	15	0	398.05524	0.00003	0.0002
21	6	15	1	22	6	16	0	397.87294	0.00034	0.0002
22	6	16	1	23	6	17	0	397.68963	-0.00013	0.0002
23	6	17	1	24	6	18	0	397.50662	-0.00007	0.0002
28	6	22	1	29	6	23	0	396.58785	-0.00006	0.0002
29	6	23	1	30	6	24	0	396.40341	-0.00007	0.0002
30	6	24	1	31	6	25	0	396.21896	0.00014	0.0002
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32	6	26	1	33	6	27	0	395.84877	-0.00005	0.0002
33	6	27	1	34	6	28	0	395.66346	-0.00001	0.0002
34	6	28	1	35	6	29	0	395.47782	-0.00008	0.0002
35	6	29	1	36	6	30	0	395.29211	0.00000	0.0002
36	6	30	1	37	6	31	0	395.10599	-0.00010	0.0002
37	6	31	1	38	6	32	0	394.91963	-0.00020	0.0002
38	6	32	1	39	6	33	0	394.73334	-0.00001	0.0002
39	6	33	1	40	6	34	0	394.54662	-0.00002	0.0002
40	6	34	1	41	6	35	0	394.35968	-0.00003	0.0002
41	6	35	1	42	6	36	0	394.17264	0.00009	0.0002
42	6	36	1	43	6	37	0	393.98512	-0.00004	0.0002
43	6	37	1	44	6	38	0	393.79747	-0.00007	0.0002
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46	6	40	1	47	6	41	0	393.23296	-0.00035	0.0002
47	6	41	1	48	6	42	0	393.04476	-0.00001	0.0002
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51	6	45	1	52	6	46	0	392.28838	0.00006	0.0002
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59	6	53	1	60	6	54	0	390.76456	0.00030	0.0002
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26	7	19	1	27	7	20	0	396.81063	-0.00021	0.0002
27	7	20	1	28	7	21	0	396.62604	-0.00017	0.0002
28	7	21	1	29	7	22	0	396.44118	-0.00016	0.0002
29	7	22	1	30	7	23	0	396.25612	-0.00013	0.0002
30	7	23	1	31	7	24	0	396.07104	0.00010	0.0002
31	7	24	1	32	7	25	0	395.88554	0.00015	0.0002
32	7	25	1	33	7	26	0	395.69967	0.00004	0.0002
33	7	26	1	34	7	27	0	395.51358	-0.00004	0.0002
34	7	27	1	35	7	28	0	395.32764	0.00024	0.0002
35	7	28	1	36	7	29	0	395.14105	0.00010	0.0002
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40	7	33	1	41	7	34	0	394.20532	0.00004	0.0002
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19	8	11	1	20	8	12	0	397.95648	-0.00011	0.0002
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26	9	17	1	27	9	18	0	396.52237	0.00018	0.0002
27	9	18	1	28	9	19	0	396.33663	0.00036	0.0002
28	9	19	1	29	9	20	0	396.15046	0.00032	0.0002
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32	9	23	1	33	9	24	0	395.40322	-0.00005	0.0002
33	9	24	1	34	9	25	0	395.21593	-0.00004	0.0002
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49	9	40	1	50	9	41	0	392.18850	0.00026	0.0002
51	9	42	1	52	9	43	0	391.80581	0.00017	0.0002
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22	10	12	1	23	10	13	0	397.12233	-0.00009	0.0002
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24	10	14	1	25	10	15	0	396.75100	-0.00009	0.0002
25	10	15	1	26	10	16	0	396.56498	-0.00006	0.0002
26	10	16	1	27	10	17	0	396.37881	0.00005	0.0002
27	10	17	1	28	10	18	0	396.19228	0.00005	0.0002
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30	10	20	1	31	10	21	0	395.63110	-0.00013	0.0002
31	10	21	1	32	10	22	0	395.44379	0.00003	0.0002
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33	10	23	1	34	10	24	0	395.06810	-0.00005	0.0002
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38	10	28	1	39	10	29	0	394.12511	0.00002	0.0002
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40	10	30	1	41	10	31	0	393.74638	0.00013	0.0002
41	10	31	1	42	10	32	0	393.55643	-0.00007	0.0002
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43	10	33	1	44	10	34	0	393.17673	0.00043	0.0002
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46	10	36	1	47	10	37	0	392.60407	-0.00021	0.0002
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52	10	42	1	53	10	43	0	391.45401	0.00000	0.0002
53	10	43	1	54	10	44	0	391.26141	-0.00007	0.0002
54	10	44	1	55	10	45	0	391.06862	-0.00010	0.0002
55	10	45	1	56	10	46	0	390.87591	0.00019	0.0002
56	10	46	1	57	10	47	0	390.68257	0.00008	0.0002
57	10	47	1	58	10	48	0	390.48908	0.00005	0.0002
59	10	49	1	60	10	50	0	390.10159	0.00020	0.0002
60	10	50	1	61	10	51	0	389.90745	0.00024	0.0002
61	10	51	1	62	10	52	0	389.71267	-0.00013	0.0002
1	0	1	1	0	0	0	0	402.91745	-0.00032	0.0002
2	0	2	1	1	0	1	0	403.09590	-0.00026	0.0002
3	0	3	1	2	0	2	0	403.26619	-0.00006	0.0002
4	0	4	1	3	0	3	0	403.43845	0.00010	0.0002
5	0	5	1	4	0	4	0	403.61033	-0.00008	0.0002
6	0	6	1	5	0	5	0	403.78227	0.00003	0.0002
7	0	7	1	6	0	6	0	403.95388	0.00003	0.0002
8	0	8	1	7	0	7	0	404.12520	-0.00003	0.0002

9	0	9	1	8	0	8	0	404.29640	0.00002	0.0002
10	0	10	1	9	0	9	0	404.46725	-0.00004	0.0002
11	0	11	1	10	0	10	0	404.63795	-0.00003	0.0002
12	0	12	1	11	0	11	0	404.80838	-0.00006	0.0002
13	0	13	1	12	0	12	0	404.97857	-0.00011	0.0002
14	0	14	1	13	0	13	0	405.14855	-0.00013	0.0002
15	0	15	1	14	0	14	0	405.31837	-0.00007	0.0002
16	0	16	1	15	0	15	0	405.48797	-0.00002	0.0002
17	0	17	1	16	0	16	0	405.65745	0.00015	0.0002
18	0	18	1	17	0	17	0	405.82636	-0.00003	0.0002
19	0	19	1	18	0	18	0	405.99527	0.00003	0.0002
20	0	20	1	19	0	19	0	406.16376	-0.00010	0.0002
21	0	21	1	20	0	20	0	406.33224	-0.00001	0.0002
22	0	22	1	21	0	21	0	406.50041	0.00000	0.0002
23	0	23	1	22	0	22	0	406.66822	-0.00012	0.0002
24	0	24	1	23	0	23	0	406.83588	-0.00016	0.0002
25	0	25	1	24	0	24	0	407.00336	-0.00015	0.0002
26	0	26	1	25	0	25	0	407.17058	-0.00016	0.0002
27	0	27	1	26	0	26	0	407.33775	0.00000	0.0002
28	0	28	1	27	0	27	0	407.50466	0.00015	0.0002
29	0	29	1	28	0	28	0	407.67108	0.00002	0.0002
30	0	30	1	29	0	29	0	407.83744	0.00008	0.0002
31	0	31	1	30	0	30	0	408.00343	-0.00002	0.0002
32	0	32	1	31	0	31	0	408.16920	-0.00009	0.0002
33	0	33	1	32	0	32	0	408.33484	-0.00006	0.0002
34	0	34	1	33	0	33	0	408.50009	-0.00018	0.0002
35	0	35	1	34	0	34	0	408.66542	0.00000	0.0002
36	0	36	1	35	0	35	0	408.83039	0.00005	0.0002
37	0	37	1	36	0	36	0	408.99502	0.00001	0.0002
38	0	38	1	37	0	37	0	409.15936	-0.00010	0.0002
39	0	39	1	38	0	38	0	409.32372	0.00005	0.0002
40	0	40	1	39	0	39	0	409.48746	-0.00019	0.0002
41	0	41	1	40	0	40	0	409.65132	-0.00007	0.0002
42	0	42	1	41	0	41	0	409.81485	-0.00005	0.0002
43	0	43	1	42	0	42	0	409.97820	0.00002	0.0002
44	0	44	1	43	0	43	0	410.14124	0.00002	0.0002
45	0	45	1	44	0	44	0	410.30416	0.00013	0.0002
46	0	46	1	45	0	45	0	410.46647	-0.00013	0.0002
47	0	47	1	46	0	46	0	410.62896	0.00003	0.0002
48	0	48	1	47	0	47	0	410.79099	-0.00004	0.0002
49	0	49	1	48	0	48	0	410.95291	0.00001	0.0002
50	0	50	1	49	0	49	0	411.11420	-0.00032	0.0002
51	0	51	1	50	0	50	0	411.27602	0.00011	0.0002
52	0	52	1	51	0	51	0	411.43702	-0.00004	0.0002
53	0	53	1	52	0	52	0	411.59807	0.00010	0.0002
54	0	54	1	53	0	53	0	411.75867	0.00001	0.0002
3	1	2	1	2	1	1	0	403.40355	0.00001	0.0002
4	1	3	1	3	1	2	0	403.56916	-0.00003	0.0002
6	1	5	1	5	1	4	0	403.91072	0.00002	0.0002
7	1	6	1	6	1	5	0	404.08170	0.00008	0.0002
8	1	7	1	7	1	6	0	404.25243	0.00012	0.0002
9	1	8	1	8	1	7	0	404.42284	0.00006	0.0002
10	1	9	1	9	1	8	0	404.59296	-0.00006	0.0002
11	1	10	1	10	1	9	0	404.76309	0.00005	0.0002
12	1	11	1	11	1	10	0	404.93256	-0.00026	0.0002
13	1	12	1	12	1	11	0	405.10233	-0.00004	0.0002
14	1	13	1	13	1	12	0	405.27171	0.00001	0.0002
15	1	14	1	14	1	13	0	405.44074	-0.00006	0.0002
16	1	15	1	15	1	14	0	405.60966	0.00000	0.0002
17	1	16	1	16	1	15	0	405.77833	0.00004	0.0002
18	1	17	1	17	1	16	0	405.94673	0.00003	0.0002
19	1	18	1	18	1	17	0	406.11501	0.00014	0.0002
20	1	19	1	19	1	18	0	406.28288	0.00007	0.0002
21	1	20	1	20	1	19	0	406.45048	-0.00004	0.0002
22	1	21	1	21	1	20	0	406.61818	0.00018	0.0002
23	1	22	1	22	1	21	0	406.78524	0.00000	0.0002
24	1	23	1	23	1	22	0	406.95221	-0.00005	0.0002
25	1	24	1	24	1	23	0	407.11897	-0.00007	0.0002
26	1	25	1	25	1	24	0	407.28565	0.00006	0.0002
27	1	26	1	26	1	25	0	407.45176	-0.00015	0.0002
28	1	27	1	27	1	26	0	407.61791	-0.00009	0.0002
29	1	28	1	28	1	27	0	407.78387	0.00003	0.0002
30	1	29	1	29	1	28	0	407.94948	0.00001	0.0002
31	1	30	1	30	1	29	0	408.11486	0.00001	0.0002
32	1	31	1	31	1	30	0	408.28003	0.00002	0.0002
33	1	32	1	32	1	31	0	408.44482	-0.00010	0.0002
34	1	33	1	33	1	32	0	408.60964	0.00004	0.0002
35	1	34	1	34	1	33	0	408.77413	0.00007	0.0002
36	1	35	1	35	1	34	0	408.93831	0.00003	0.0002
37	1	36	1	36	1	35	0	409.10220	-0.00005	0.0002
38	1	37	1	37	1	36	0	409.26612	0.00012	0.0002
39	1	38	1	38	1	37	0	409.42960	0.00009	0.0002
40	1	39	1	39	1	38	0	409.59272	-0.00007	0.0002
41	1	40	1	40	1	39	0	409.75588	0.00005	0.0002
42	1	41	1	41	1	40	0	409.91861	-0.00003	0.0002
43	1	42	1	42	1	41	0	410.08095	-0.00025	0.0002
44	1	43	1	43	1	42	0	410.24349	-0.00004	0.0002
45	1	44	1	44	1	43	0	410.40533	-0.00030	0.0002
47	1	46	1	46	1	45	0	410.72912	0.00001	0.0002
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50	1	49	1	49	1	48	0	411.21283	0.00029	0.0002
51	1	50	1	50	1	49	0	411.37321	-0.00001	0.0002
52	1	51	1	51	1	50	0	411.53358	-0.00006	0.0002
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55	1	54	1	54	1	53	0	412.01326	-0.00023	0.0002
56	1	55	1	55	1	54	0	412.17301	0.00006	0.0002
57	1	56	1	56	1	55	0	412.33210	-0.00008	0.0002
58	1	57	1	57	1	56	0	412.49113	-0.00004	0.0002
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9	2	7	1	8	2	6	0	404.55007	0.00019	0.0002
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16	2	14	1	15	2	13	0	405.73206	0.00006	0.0002
17	2	15	1	16	2	14	0	405.89983	-0.00012	0.0002
18	2	16	1	17	2	15	0	406.06765	-0.00004	0.0002
19	2	17	1	18	2	16	0	406.23512	-0.00006	0.0002
20	2	18	1	19	2	17	0	406.40250	0.00006	0.0002
21	2	19	1	20	2	18	0	406.56938	-0.00009	0.0002
22	2	20	1	21	2	19	0	406.73626	-0.00001	0.0002
23	2	21	1	22	2	20	0	406.90291	0.00007	0.0002
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41	2	39	1	40	2	38	0	409.86066	-0.00038	0.0002
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57	2	55	1	56	2	54	0	412.42603	0.00000	0.0002
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7	3	4	1	6	3	3	0	404.34018	-0.00004	0.0002
8	3	5	1	7	3	4	0	404.50864	-0.00007	0.0002
9	3	6	1	8	3	5	0	404.67745	-0.00024	0.0002
12	3	9	1	11	3	8	0	405.18335	-0.00025	0.0002

13	3	10	1	12	3	9	0	405.35174	-0.00006	0.0002
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18	3	15	1	17	3	14	0	406.18937	0.00002	0.0002
19	3	16	1	18	3	15	0	406.35610	-0.00006	0.0002
20	3	17	1	19	3	16	0	406.52275	0.00000	0.0002
21	3	18	1	20	3	17	0	406.68917	0.00007	0.0002
22	3	19	1	21	3	18	0	406.85519	-0.00004	0.0002
23	3	20	1	22	3	19	0	407.02114	0.00002	0.0002
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25	3	22	1	24	3	21	0	407.35224	0.00004	0.0002
26	3	23	1	25	3	22	0	407.51748	0.00010	0.0002
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29	3	26	1	28	3	25	0	408.01148	-0.00007	0.0002
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35	3	32	1	34	3	31	0	408.99347	-0.00007	0.0002
36	3	33	1	35	3	32	0	409.15627	-0.00010	0.0002
37	3	34	1	36	3	33	0	409.31897	-0.00001	0.0002
38	3	35	1	37	3	34	0	409.48142	0.00007	0.0002
40	3	37	1	39	3	36	0	409.80535	-0.00002	0.0002
41	3	38	1	40	3	37	0	409.96708	0.00006	0.0002
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43	3	40	1	42	3	39	0	410.28957	-0.00004	0.0002
44	3	41	1	43	3	40	0	410.45042	-0.00013	0.0002
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46	3	43	1	45	3	42	0	410.77161	-0.00009	0.0002
47	3	44	1	46	3	43	0	410.93192	0.00001	0.0002
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49	3	46	1	48	3	45	0	411.25148	-0.00014	0.0002
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57	3	54	1	56	3	53	0	412.52077	0.00001	0.0002
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21	4	17	1	20	4	16	0	406.80930	-0.00012	0.0002
22	4	18	1	21	4	17	0	406.97512	0.00026	0.0002
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24	4	20	1	23	4	19	0	407.30517	0.00011	0.0002
25	4	21	1	24	4	20	0	407.46982	0.00001	0.0002
26	4	22	1	25	4	21	0	407.63429	-0.00003	0.0002
27	4	23	1	26	4	22	0	407.79865	0.00005	0.0002
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35	4	31	1	34	4	30	0	409.10439	0.00002	0.0002
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38	4	34	1	37	4	33	0	409.59025	0.00012	0.0002
39	4	35	1	38	4	34	0	409.75167	0.00010	0.0002
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43	4	39	1	42	4	38	0	410.39475	-0.00022	0.0002
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53	4	49	1	52	4	48	0	411.98652	-0.00004	0.0002
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56	4	52	1	55	4	51	0	412.45915	-0.00013	0.0002
57	4	53	1	56	4	52	0	412.61624	-0.00013	0.0002
58	4	54	1	57	4	53	0	412.77299	-0.00021	0.0002
59	4	55	1	58	4	54	0	412.92957	-0.00022	0.0002
9	5	4	1	8	5	3	0	404.94046	0.00012	0.0002
11	5	6	1	10	5	5	0	405.27028	-0.00011	0.0002
13	5	8	1	12	5	7	0	405.60403	0.00002	0.0002
14	5	9	1	13	5	8	0	405.77063	0.00005	0.0002
15	5	10	1	14	5	9	0	405.93671	-0.00023	0.0002
16	5	11	1	15	5	10	0	406.10300	-0.00008	0.0002
17	5	12	1	16	5	11	0	406.26915	0.00015	0.0002
18	5	13	1	17	5	12	0	406.43458	-0.00012	0.0002
19	5	14	1	18	5	13	0	406.59986	-0.00030	0.0002
20	5	15	1	19	5	14	0	406.76528	-0.00012	0.0002
21	5	16	1	20	5	15	0	406.93045	0.00005	0.0002
22	5	17	1	21	5	16	0	407.09511	-0.00006	0.0002
23	5	18	1	22	5	17	0	407.25974	0.00002	0.0002
24	5	19	1	23	5	18	0	407.42393	-0.00010	0.0002
25	5	20	1	24	5	19	0	407.58809	-0.00001	0.0002
26	5	21	1	25	5	20	0	407.75179	-0.00015	0.0002
27	5	22	1	26	5	21	0	407.91547	-0.00007	0.0002
28	5	23	1	27	5	22	0	408.07870	-0.00022	0.0002
29	5	24	1	28	5	23	0	408.24223	0.00017	0.0002
30	5	25	1	29	5	24	0	408.40514	0.00018	0.0002
31	5	26	1	30	5	25	0	408.56776	0.00014	0.0002
32	5	27	1	31	5	26	0	408.73010	0.00005	0.0002
33	5	28	1	32	5	27	0	408.89213	-0.00012	0.0002
34	5	29	1	33	5	28	0	409.05414	-0.00006	0.0002
35	5	30	1	34	5	29	0	409.21575	-0.00017	0.0002
36	5	31	1	35	5	30	0	409.37738	-0.00002	0.0002
37	5	32	1	36	5	31	0	409.53858	-0.00006	0.0002
38	5	33	1	37	5	32	0	409.69979	0.00014	0.0002
39	5	34	1	38	5	33	0	409.86066	0.00024	0.0002
40	5	35	1	39	5	34	0	410.02092	-0.00003	0.0002
41	5	36	1	40	5	35	0	410.18113	-0.00010	0.0002
42	5	37	1	41	5	36	0	410.34141	0.00013	0.0002
43	5	38	1	42	5	37	0	410.50107	-0.00001	0.0002
44	5	39	1	43	5	38	0	410.66065	0.00000	0.0002
45	5	40	1	44	5	39	0	410.81989	-0.00008	0.0002
46	5	41	1	45	5	40	0	410.97913	0.00007	0.0002
49	5	44	1	48	5	43	0	411.45466	-0.00019	0.0002
50	5	45	1	49	5	44	0	411.61282	-0.00013	0.0002
51	5	46	1	50	5	45	0	411.77064	-0.00018	0.0002
52	5	47	1	51	5	46	0	411.92843	-0.00001	0.0002
53	5	48	1	52	5	47	0	412.08590	0.00009	0.0002
54	5	49	1	53	5	48	0	412.24298	0.00004	0.0002
56	5	51	1	55	5	50	0	412.55634	-0.00011	0.0002
57	5	52	1	56	5	51	0	412.71265	-0.00019	0.0002
58	5	53	1	57	5	52	0	412.86890	-0.00007	0.0002
59	5	54	1	58	5	53	0	413.02472	-0.00014	0.0002
60	5	55	1	59	5	54	0	413.18036	-0.00014	0.0002
61	5	56	1	60	5	55	0	413.33567	-0.00021	0.0002
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15	6	9	1	14	6	8	0	406.06267	-0.00006	0.0002
16	6	10	1	15	6	9	0	406.22820	0.00003	0.0002
17	6	11	1	16	6	10	0	406.39359	0.00020	0.0002
19	6	13	1	18	6	12	0	406.72322	0.00003	0.0002
20	6	14	1	19	6	13	0	406.88761	-0.00013	0.0002
21	6	15	1	20	6	14	0	407.05217	0.00010	0.0002
22	6	16	1	21	6	15	0	407.21613	-0.00003	0.0002
23	6	17	1	22	6	16	0	407.37992	-0.00012	0.0002
24	6	18	1	23	6	17	0	407.54354	-0.00012	0.0002
25	6	19	1	24	6	18	0	407.70703	-0.00004	0.0002
26	6	20	1	25	6	19	0	407.87030	0.00006	0.0002
27	6	21	1	26	6	20	0	408.03307	-0.00010	0.0002
28	6	22	1	27	6	21	0	408.19585	-0.00003	0.0002
29	6	23	1	28	6	22	0	408.35843	0.00009	0.0002
30	6	24	1	29	6	23	0	408.52067	0.00009	0.0002
31	6	25	1	30	6	24	0	408.68260	0.00003	0.0002

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34	6	28	1	33	6	27	0	409.16716	0.00002	0.0002
35	6	29	1	34	6	28	0	409.32791	-0.00027	0.0002
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37	6	31	1	36	6	30	0	409.64954	-0.00002	0.0002
38	6	32	1	37	6	31	0	409.81000	0.00011	0.0002
39	6	33	1	38	6	32	0	409.96997	-0.00002	0.0002
40	6	34	1	39	6	33	0	410.12990	0.00006	0.0002
41	6	35	1	40	6	34	0	410.28957	0.00012	0.0002
42	6	36	1	41	6	35	0	410.44896	0.00014	0.0002
43	6	37	1	42	6	36	0	410.60793	-0.00002	0.0002
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46	6	40	1	45	6	39	0	411.08386	-0.00003	0.0002
47	6	41	1	46	6	40	0	411.24191	-0.00014	0.0002
48	6	42	1	47	6	41	0	411.39955	-0.00042	0.0002
49	6	43	1	48	6	42	0	411.55759	-0.00005	0.0002
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55	6	49	1	54	6	48	0	412.49857	0.00005	0.0002
56	6	50	1	55	6	49	0	412.65419	-0.00027	0.0002
57	6	51	1	56	6	50	0	412.81008	-0.00007	0.0002
58	6	52	1	57	6	51	0	412.96537	-0.00023	0.0002
59	6	53	1	58	6	52	0	413.12071	-0.00009	0.0002
60	6	54	1	59	6	53	0	413.27542	-0.00032	0.0002
61	6	55	1	60	6	54	0	413.43033	-0.00011	0.0002
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9	7	2	1	8	7	1	0	405.19512	0.00032	0.0002
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12	7	5	1	11	7	4	0	405.69727	0.00006	0.0002
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21	7	14	1	20	7	13	0	407.17435	-0.00006	0.0002
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25	7	18	1	24	7	17	0	407.82681	0.00009	0.0002
26	7	19	1	25	7	18	0	407.98929	0.00007	0.0002
27	7	20	1	26	7	19	0	408.15142	-0.00006	0.0002
28	7	21	1	27	7	20	0	408.31361	0.00009	0.0002
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33	7	26	1	32	7	25	0	409.11995	-0.00019	0.0002
34	7	27	1	33	7	26	0	409.28081	0.00005	0.0002
35	7	28	1	34	7	27	0	409.44112	-0.00002	0.0002
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38	7	31	1	37	7	30	0	409.92080	-0.00004	0.0002
40	7	33	1	39	7	32	0	410.23942	-0.00003	0.0002
41	7	34	1	40	7	33	0	410.39840	0.00000	0.0002
42	7	35	1	41	7	34	0	410.55709	-0.00001	0.0002
43	7	36	1	42	7	35	0	410.71541	-0.00014	0.0002
44	7	37	1	43	7	36	0	410.87350	-0.00027	0.0002
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25	8	17	1	24	8	16	0	407.94694	-0.00011	0.0002
26	8	18	1	25	8	17	0	408.10885	-0.00002	0.0002
27	8	19	1	26	8	18	0	408.27078	0.00031	0.0002
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35	9	26	1	34	9	25	0	409.66899	-0.00016	0.0002
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46	9	37	1	45	9	36	0	411.40268	-0.00020	0.0002
47	9	38	1	46	9	37	0	411.55896	-0.00008	0.0002
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55	9	46	1	54	9	45	0	412.79918	-0.00025	0.0002

57	9	48	1	56	9	47	0	413.10711	0.00008	0.0002
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59	9	50	1	58	9	49	0	413.41365	0.00002	0.0002
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8	0	8	1	8	1	8	0	402.67091	0.00006	0.0002
9	0	9	1	9	1	9	0	402.66857	0.00010	0.0002
10	0	10	1	10	1	10	0	402.66585	0.00000	0.0002
11	0	11	1	11	1	11	0	402.66293	-0.00009	0.0002
12	0	12	1	12	1	12	0	402.65973	-0.00021	0.0002
14	0	14	1	14	1	14	0	402.65323	0.00010	0.0002
15	0	15	1	15	1	15	0	402.64935	-0.00003	0.0002
16	0	16	1	16	1	16	0	402.64533	-0.00007	0.0002
17	0	17	1	17	1	17	0	402.64122	0.00002	0.0002
18	0	18	1	18	1	18	0	402.63689	0.00013	0.0002
19	0	19	1	19	1	19	0	402.63215	0.00005	0.0002
20	0	20	1	20	1	20	0	402.62739	0.00017	0.0002
21	0	21	1	21	1	21	0	402.62198	-0.00013	0.0002
22	0	22	1	22	1	22	0	402.61688	0.00012	0.0002
23	0	23	1	23	1	23	0	402.61111	-0.00007	0.0002
24	0	24	1	24	1	24	0	402.60543	0.00004	0.0002
25	0	25	1	25	1	25	0	402.59934	-0.00002	0.0002
26	0	26	1	26	1	26	0	402.59326	0.00014	0.0002
27	0	27	1	27	1	27	0	402.58657	-0.00006	0.0002
28	0	28	1	28	1	28	0	402.57999	0.00007	0.0002
29	0	29	1	29	1	29	0	402.57293	-0.00005	0.0002
30	0	30	1	30	1	30	0	402.56599	0.00017	0.0002
31	0	31	1	31	1	31	0	402.55845	0.00002	0.0002
32	0	32	1	32	1	32	0	402.55113	0.00033	0.0002
33	0	33	1	33	1	33	0	402.54332	0.00036	0.0002
34	0	34	1	34	1	34	0	402.53487	-0.00001	0.0002
35	0	35	1	35	1	35	0	402.52644	-0.00014	0.0002
36	0	36	1	36	1	36	0	402.51772	-0.00033	0.0002
37	0	37	1	37	1	37	0	402.50869	-0.00060	0.0002
38	0	38	1	38	1	38	0	402.50000	-0.00029	0.0002
39	0	39	1	39	1	39	0	402.49116	0.00008	0.0002
40	0	40	1	40	1	40	0	402.48163	0.00000	0.0002
41	0	41	1	41	1	41	0	402.47189	-0.00006	0.0002
42	0	42	1	42	1	42	0	402.46233	0.00027	0.0002
43	0	43	1	43	1	43	0	402.45222	0.00030	0.0002
44	0	44	1	44	1	44	0	402.44181	0.00025	0.0002
45	0	45	1	45	1	45	0	402.43075	-0.00021	0.0002
47	0	47	1	47	1	47	0	402.40922	0.00013	0.0002
48	0	48	1	48	1	48	0	402.39802	0.00021	0.0002
49	0	49	1	49	1	49	0	402.38656	0.00026	0.0002
50	0	50	1	50	1	50	0	402.37474	0.00019	0.0002
51	0	51	1	51	1	51	0	402.36252	-0.00006	0.0002
53	0	53	1	53	1	53	0	402.33812	0.00018	0.0002
54	0	54	1	54	1	54	0	402.32542	0.00015	0.0002
55	0	55	1	55	1	55	0	402.31242	0.00005	0.0002
56	0	56	1	56	1	56	0	402.29931	0.00007	0.0002
12	1	11	1	12	2	11	0	402.65203	-0.00014	0.0002
13	1	12	1	13	2	12	0	402.64818	-0.00002	0.0002
14	1	13	1	14	2	13	0	402.64386	-0.00014	0.0002
15	1	14	1	15	2	14	0	402.63984	0.00026	0.0002
16	1	15	1	16	2	15	0	402.63507	0.00015	0.0002
17	1	16	1	17	2	16	0	402.63016	0.00012	0.0002
18	1	17	1	18	2	17	0	402.62512	0.00019	0.0002
19	1	18	1	19	2	18	0	402.61966	0.00006	0.0002
20	1	19	1	20	2	19	0	402.61398	-0.00004	0.0002
21	1	20	1	21	2	20	0	402.60811	-0.00012	0.0002
22	1	21	1	22	2	21	0	402.60188	-0.00032	0.0002
23	1	22	1	23	2	22	0	402.59624	0.00028	0.0002
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25	1	24	1	25	2	24	0	402.58264	-0.00013	0.0002
26	1	25	1	26	2	25	0	402.57580	-0.00003	0.0002
27	1	26	1	27	2	26	0	402.56839	-0.00028	0.0002
28	1	27	1	28	2	27	0	402.56128	0.00000	0.0002
29	1	28	1	29	2	28	0	402.55377	0.00012	0.0002
30	1	29	1	30	2	29	0	402.54564	-0.00016	0.0002
31	1	30	1	31	2	30	0	402.53764	-0.00008	0.0002
32	1	31	1	32	2	31	0	402.52970	0.00029	0.0002
33	1	32	1	33	2	32	0	402.52073	-0.00014	0.0002
34	1	33	1	34	2	33	0	402.51207	-0.00004	0.0002
35	1	34	1	35	2	34	0	402.50311	0.00000	0.0002
36	1	35	1	36	2	35	0	402.49391	0.00002	0.0002
37	1	36	1	37	2	36	0	402.48445	0.00002	0.0002
38	1	37	1	38	2	37	0	402.47455	-0.00019	0.0002
39	1	38	1	39	2	38	0	402.46460	-0.00023	0.0002
40	1	39	1	40	2	39	0	402.45469	0.00000	0.0002
41	1	40	1	41	2	40	0	402.44419	-0.00012	0.0002
42	1	41	1	42	2	41	0	402.43359	-0.00011	0.0002
43	1	42	1	43	2	42	0	402.42281	-0.00006	0.0002
46	1	45	1	46	2	45	0	402.38882	-0.00016	0.0002
47	1	46	1	47	2	46	0	402.37717	-0.00004	0.0002
49	1	48	1	49	2	48	0	402.35316	0.00016	0.0002
50	1	49	1	50	2	49	0	402.34064	0.00010	0.0002
35	2	33	1	35	3	33	0	402.48025	-0.00015	0.0002
36	2	34	1	36	3	34	0	402.47047	-0.00002	0.0002
37	2	35	1	37	3	35	0	402.46029	-0.00004	0.0002
38	2	36	1	38	3	36	0	402.45006	0.00010	0.0002
39	2	37	1	39	3	37	0	402.43951	0.00015	0.0002
40	2	38	1	40	3	38	0	402.42847	-0.00005	0.0002
41	2	39	1	41	3	39	0	402.41755	0.00010	0.0002
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43	2	41	1	43	3	41	0	402.39467	0.00004	0.0002
44	2	42	1	44	3	42	0	402.38290	0.00005	0.0002
47	2	45	1	47	3	45	0	402.34628	0.00011	0.0002
48	2	46	1	48	3	46	0	402.33344	-0.00003	0.0002
49	2	47	1	49	3	47	0	402.32060	0.00005	0.0002
50	2	48	1	50	3	48	0	402.30768	0.00028	0.0002
51	2	49	1	51	3	49	0	402.29421	0.00022	0.0002
55	2	53	1	55	3	53	0	402.23828	0.00022	0.0002
56	2	54	1	56	3	54	0	402.22359	0.00010	0.0002
57	2	55	1	57	3	55	0	402.20907	0.00039	0.0002
43	3	40	1	43	4	40	0	402.36724	0.00007	0.0002
44	3	41	1	44	4	41	0	402.35458	-0.00014	0.0002
45	3	42	1	45	4	42	0	402.34187	-0.00016	0.0002
46	3	43	1	46	4	43	0	402.32917	0.00006	0.0002
49	3	46	1	49	4	46	0	402.28899	0.00005	0.0002
50	3	47	1	50	4	47	0	402.27494	-0.00015	0.0002
52	3	49	1	52	4	49	0	402.24664	-0.00002	0.0002
53	3	50	1	53	4	50	0	402.23226	0.00017	0.0002
57	3	54	1	57	4	54	0	402.17176	0.00031	0.0002
58	3	55	1	58	4	55	0	402.15598	0.00028	0.0002
6	2	4	1	7	3	4	0	400.52925	-0.00013	0.0002
8	2	6	1	9	3	6	0	399.91103	0.00009	0.0002
10	2	8	1	11	3	8	0	399.29160	-0.00019	0.0002
12	2	10	1	13	3	10	0	398.67177	-0.00001	0.0002
13	2	11	1	14	3	11	0	398.36158	0.00011	0.0002
14	2	12	1	15	3	12	0	398.05067	-0.00025	0.0002
15	2	13	1	16	3	13	0	397.73991	-0.00024	0.0002
5	3	2	1	6	4	2	0	400.84418	-0.00014	0.0002
6	3	3	1	7	4	3	0	400.52925	0.00009	0.0002
7	3	4	1	8	4	4	0	400.21794	-0.00011	0.0002
8	3	5	1	9	4	5	0	399.90766	-0.00015	0.0002
9	3	6	1	10	4	6	0	399.59770	0.00015	0.0002
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12	3	9	1	13	4	9	0	398.66570	-0.00001	0.0002
13	3	10	1	14	4	10	0	398.35466	-0.00004	0.0002
14	3	11	1	15	4	11	0	398.04359	0.00013	0.0002

15	3	12	1	16	4	12	0	397.73197	-0.00004	0.0002
19	3	16	1	20	4	16	0	396.48378	-0.00024	0.0002
20	3	17	1	21	4	17	0	396.17130	-0.00017	0.0002
21	3	18	1	22	4	18	0	395.85877	0.00006	0.0002
22	3	19	1	23	4	19	0	395.54571	0.00000	0.0002
23	3	20	1	24	4	20	0	395.23263	0.00012	0.0002
26	3	23	1	27	4	23	0	394.29129	-0.00025	0.0002
27	3	24	1	28	4	24	0	393.97740	-0.00005	0.0002
28	3	25	1	29	4	25	0	393.66315	0.00003	0.0002
29	3	26	1	30	4	26	0	393.34840	-0.00018	0.0002
9	4	5	1	10	5	5	0	399.59464	0.00001	0.0002
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11	4	7	1	12	5	7	0	398.97166	-0.00031	0.0002
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20	4	16	1	21	5	16	0	396.16073	0.00006	0.0002
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23	4	19	1	24	5	19	0	395.21972	0.00003	0.0002
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25	4	21	1	26	5	21	0	394.59123	-0.00003	0.0002
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29	4	25	1	30	5	25	0	393.33181	0.00004	0.0002
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32	4	28	1	33	5	28	0	392.38505	0.00023	0.0002
33	4	29	1	34	5	29	0	392.06847	-0.00026	0.0002
34	4	30	1	35	5	30	0	391.75257	0.00015	0.0002
35	4	31	1	36	5	31	0	391.43580	-0.00009	0.0002
36	4	32	1	37	5	32	0	391.11921	0.00008	0.0002
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21	5	16	1	22	6	16	0	395.83653	0.00006	0.0002
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25	5	20	1	26	6	20	0	394.57766	-0.00016	0.0002
26	5	21	1	27	6	21	0	394.26231	-0.00030	0.0002
27	5	22	1	28	6	22	0	393.94717	-0.00002	0.0002
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34	5	29	1	35	6	29	0	391.73294	-0.00006	0.0002
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38	5	33	1	39	6	33	0	390.46266	-0.00025	0.0002
40	5	35	1	41	6	35	0	389.82640	-0.00012	0.0002
41	5	36	1	42	6	36	0	389.50790	-0.00010	0.0002
42	5	37	1	43	6	37	0	389.18915	-0.00010	0.0002
43	5	38	1	44	6	38	0	388.87049	0.00020	0.0002
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21	6	15	1	22	7	15	0	395.82652	0.00009	0.0002
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13	7	6	1	14	8	6	0	398.33604	0.00009	0.0002
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21	7	14	1	22	8	14	0	395.81696	-0.00015	0.0002
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32	7	25	1	33	8	25	0	392.33274	0.00002	0.0002
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39	7	32	1	40	8	32	0	390.10159	-0.00004	0.0002
40	7	33	1	41	8	33	0	389.78192	-0.00009	0.0002
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24	8	16	1	25	9	16	0	394.85876	-0.00002	0.0002
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26	8	18	1	27	9	18	0	394.22429	-0.00028	0.0002
27	8	19	1	28	9	19	0	393.90701	-0.00013	0.0002
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33	8	25	1	34	9	25	0	391.99807	0.00001	0.0002
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36	8	28	1	37	9	28	0	391.04049	-0.00009	0.0002
37	8	29	1	38	9	29	0	390.72093	-0.00005	0.0002
38	8	30	1	39	9	30	0	390.40101	-0.00015	0.0002
39	8	31	1	40	9	31	0	390.08110	-0.00003	0.0002
40	8	32	1	41	9	32	0	389.76088	0.00000	0.0002
41	8	33	1	42	9	33	0	389.44054	0.00015	0.0002
42	8	34	1	43	9	34	0	389.11972	0.00002	0.0002
45	8	37	1	46	9	37	0	388.15629	0.00003	0.0002
46	8	38	1	47	9	38	0	387.83472	0.00004	0.0002
47	8	39	1	48	9	39	0	387.51273	-0.00014	0.0002
48	8	40	1	49	9	40	0	387.19092	0.00008	0.0002
13	9	4	1	14	10	4	0	398.33866	0.00014	0.0002
15	9	6	1	16	10	6	0	397.70042	0.00000	0.0002
16	9	7	1	17	10	7	0	397.38396	0.00010	0.0002
17	9	8	1	18	10	8	0	397.06746	0.00003	0.0002
18	9	9	1	19	10	9	0	396.75100	0.00004	0.0002
19	9	10	1	20	10	10	0	396.43451	0.00014	0.0002
21	9	12	1	22	10	12	0	395.80078	0.00005	0.0002
22	9	13	1	23	10	13	0	395.48366	0.00002	0.0002
23	9	14	1	24	10	14	0	395.16624	-0.00012	0.0002
24	9	15	1	25	10	15	0	394.84893	0.00005	0.0002
25	9	16	1	26	10	16	0	394.53123	0.00003	0.0002
26	9	17	1	27	10	17	0	394.21312	-0.00020	0.0002
27	9	18	1	28	10	18	0	393.89504	-0.00018	0.0002

28	9	19	1	29	10	19	0	393.57689	-0.00003	0.0002
30	9	21	1	31	10	21	0	392.93960	-0.00006	0.0002
31	9	22	1	32	10	22	0	392.62070	-0.00002	0.0002
32	9	23	1	33	10	23	0	392.30153	-0.00003	0.0002
33	9	24	1	34	10	24	0	391.98200	-0.00018	0.0002
34	9	25	1	35	10	25	0	391.66249	-0.00010	0.0002
35	9	26	1	36	10	26	0	391.34277	-0.00001	0.0002
36	9	27	1	37	10	27	0	391.02278	0.00003	0.0002
37	9	28	1	38	10	28	0	390.70228	-0.00023	0.0002
39	9	30	1	40	10	30	0	390.06139	0.00004	0.0002
40	9	31	1	41	10	31	0	389.74064	0.00019	0.0002
42	9	33	1	43	10	33	0	389.09812	0.00013	0.0002
43	9	34	1	44	10	34	0	388.77641	-0.00001	0.0002
44	9	35	1	45	10	35	0	388.45469	0.00005	0.0002
46	9	37	1	47	10	37	0	387.81013	-0.00027	0.0002
47	9	38	1	48	10	38	0	387.48786	-0.00010	0.0002
48	9	39	1	49	10	39	0	387.16538	0.00009	0.0002
49	9	40	1	50	10	40	0	386.84265	0.00026	0.0002
11	10	1	1	12	11	1	0	398.95070	-0.00023	0.0002
12	10	2	1	13	11	2	0	398.66038	-0.00005	0.0002
13	10	3	1	14	11	3	0	398.34953	-0.00009	0.0002
14	10	4	1	15	11	4	0	398.02398	0.00006	0.0002
15	10	5	1	16	11	5	0	397.70042	-0.00006	0.0002
16	10	6	1	17	11	6	0	397.38130	-0.00021	0.0002
17	10	7	1	18	11	7	0	397.06387	0.00007	0.0002
18	10	8	1	19	11	8	0	396.74620	-0.00015	0.0002
19	10	9	1	20	11	9	0	396.42885	-0.00005	0.0002
20	10	10	1	21	11	10	0	396.11134	-0.00003	0.0002
21	10	11	1	22	11	11	0	395.79366	-0.00004	0.0002
22	10	12	1	23	11	12	0	395.47591	0.00002	0.0002
23	10	13	1	24	11	13	0	395.15798	0.00008	0.0002
24	10	14	1	25	11	14	0	394.83970	-0.00002	0.0002
25	10	15	1	26	11	15	0	394.52130	-0.00005	0.0002
26	10	16	1	27	11	16	0	394.20279	0.00001	0.0002
27	10	17	1	28	11	17	0	393.88400	-0.00001	0.0002
28	10	18	1	29	11	18	0	393.56505	0.00001	0.0002
29	10	19	1	30	11	19	0	393.24584	-0.00002	0.0002
30	10	20	1	31	11	20	0	392.92645	-0.00002	0.0002
31	10	21	1	32	11	21	0	392.60684	-0.00001	0.0002
32	10	22	1	33	11	22	0	392.28700	-0.00004	0.0002
33	10	23	1	34	11	23	0	391.96705	0.00004	0.0002
34	10	24	1	35	11	24	0	391.64649	-0.00028	0.0002
35	10	25	1	36	11	25	0	391.32620	-0.00011	0.0002
36	10	26	1	37	11	26	0	391.00559	-0.00004	0.0002
38	10	28	1	39	11	28	0	390.36362	0.00000	0.0002
39	10	29	1	40	11	29	0	390.04233	0.00003	0.0002
41	10	31	1	42	11	31	0	389.39897	-0.00002	0.0002
42	10	32	1	43	11	32	0	389.07702	0.00002	0.0002
43	10	33	1	44	11	33	0	388.75480	0.00001	0.0002
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17	11	6	1	18	12	6	0	397.06182	-0.00004	0.0002
18	11	7	1	19	12	7	0	396.74286	-0.00008	0.0002
19	11	8	1	20	12	8	0	396.42452	0.00007	0.0002
20	11	9	1	21	12	9	0	396.10604	0.00002	0.0002
21	11	10	1	22	12	10	0	395.78755	0.00002	0.0002
22	11	11	1	23	12	11	0	395.46883	-0.00011	0.0002
23	11	12	1	24	12	12	0	395.15029	0.00008	0.0002
24	11	13	1	25	12	13	0	394.83126	-0.00005	0.0002
25	11	14	1	26	12	14	0	394.51229	0.00005	0.0002
26	11	15	1	27	12	15	0	394.19311	0.00013	0.0002
28	11	17	1	29	12	17	0	393.55388	0.00000	0.0002
29	11	18	1	30	12	18	0	393.23390	-0.00013	0.0002
30	11	19	1	31	12	19	0	392.91394	-0.00003	0.0002
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39	11	28	1	40	12	28	0	390.02393	-0.00003	0.0002
40	11	29	1	41	12	29	0	389.70184	0.00007	0.0002
41	11	30	1	42	12	30	0	389.37922	-0.00014	0.0002
43	11	32	1	44	12	32	0	388.73399	0.00008	0.0002
44	11	33	1	45	12	33	0	388.41104	0.00019	0.0002
45	11	34	1	46	12	34	0	388.08774	0.00017	0.0002
46	11	35	1	47	12	35	0	387.76397	-0.00010	0.0002
47	11	36	1	48	12	36	0	387.44051	0.00015	0.0002
48	11	37	1	49	12	37	0	387.11607	-0.00034	0.0002
49	11	38	1	50	12	38	0	386.79205	-0.00020	0.0002
50	11	39	1	51	12	39	0	386.46761	-0.00026	0.0002
51	11	40	1	52	12	40	0	386.14316	-0.00011	0.0002
52	11	41	1	53	12	41	0	385.81827	-0.00017	0.0002
53	11	42	1	54	12	42	0	385.49340	0.00000	0.0002
55	11	44	1	56	12	44	0	384.84268	0.00005	0.0002
56	11	45	1	57	12	45	0	384.51707	0.00016	0.0002
57	11	46	1	58	12	46	0	384.19088	-0.00008	0.0002
19	12	7	1	20	13	7	0	396.42111	-0.00017	0.0002
20	12	8	1	21	13	8	0	396.10166	-0.00007	0.0002
21	12	9	1	22	13	9	0	395.78235	0.00004	0.0002
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27	12	15	1	28	13	15	0	393.86368	-0.00010	0.0002
28	12	16	1	29	13	16	0	393.54330	-0.00015	0.0002
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37	13	24	1	38	14	24	0	390.63578	0.00011	0.0002
38	13	25	1	39	14	25	0	390.31271	0.00007	0.0002
39	13	26	1	40	14	26	0	389.98936	-0.00003	0.0002
40	13	27	1	41	14	27	0	389.66600	0.00007	0.0002
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21	14	7	1	22	15	7	0	395.77542	-0.00020	0.0002
22	14	8	1	23	15	8	0	395.45387	0.00006	0.0002
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24	14	10	1	25	15	10	0	394.81098	-0.00004	0.0002
25	14	11	1	26	15	11	0	394.48976	0.00012	0.0002
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28	14	14	1	29	15	14	0	393.52491	0.00011	0.0002
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30	14	16	1	31	15	16	0	392.88072	-0.00007	0.0002

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33	14	19	1	34	15	19	0	391.91339	0.00001	0.0002
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35	14	21	1	36	15	21	0	391.26745	-0.00001	0.0002
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37	14	23	1	38	15	23	0	390.62082	0.00010	0.0002
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39	14	25	1	40	15	25	0	389.97300	-0.00015	0.0002
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54	14	40	1	55	15	40	0	385.08922	0.00006	0.0002
56	14	42	1	57	15	42	0	384.43441	0.00016	0.0002
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14	4	10	1	13	3	10	0	406.89925	0.00003	0.0002
15	4	11	1	14	3	11	0	407.19846	0.00000	0.0002
17	4	13	1	16	3	13	0	407.79601	-0.00024	0.0002
18	4	14	1	17	3	14	0	408.09468	-0.00010	0.0002
19	4	15	1	18	3	15	0	408.39302	-0.00005	0.0002
22	4	18	1	21	3	18	0	409.28655	0.00002	0.0002
24	4	20	1	23	3	20	0	409.88092	-0.00006	0.0002
25	4	21	1	24	3	21	0	410.17798	0.00013	0.0002
26	4	22	1	25	3	22	0	410.47459	0.00010	0.0002
28	4	24	1	27	3	24	0	411.06699	-0.00004	0.0002
29	4	25	1	28	3	25	0	411.36311	0.00017	0.0002
30	4	26	1	29	3	26	0	411.65870	0.00007	0.0002
31	4	27	1	30	3	27	0	411.95404	-0.00002	0.0002
32	4	28	1	31	3	28	0	412.24920	-0.00006	0.0002
33	4	29	1	32	3	29	0	412.54443	0.00022	0.0002
34	4	30	1	33	3	30	0	412.83894	0.00002	0.0002
35	4	31	1	34	3	31	0	413.13341	0.00001	0.0002
38	4	34	1	37	3	34	0	414.01543	0.00006	0.0002
39	4	35	1	38	3	35	0	414.30894	0.00007	0.0002
40	4	36	1	39	3	36	0	414.60207	-0.00007	0.0002
41	4	37	1	40	3	37	0	414.89506	-0.00010	0.0002
42	4	38	1	41	3	38	0	415.18797	0.00004	0.0002
43	4	39	1	42	3	39	0	415.48081	0.00035	0.0002
44	4	40	1	43	3	40	0	415.77280	0.00006	0.0002
45	4	41	1	44	3	41	0	416.06484	0.00006	0.0002
46	4	42	1	45	3	42	0	416.35668	0.00011	0.0002
48	4	44	1	47	3	44	0	416.93946	0.00004	0.0002
6	5	1	1	5	4	1	0	404.48229	-0.00001	0.0002
7	5	2	1	6	4	2	0	404.78106	-0.00003	0.0002
8	5	3	1	7	4	3	0	405.09078	0.00003	0.0002
9	5	4	1	8	4	4	0	405.39439	0.00017	0.0002
10	5	5	1	9	4	5	0	405.69496	0.00012	0.0002
12	5	7	1	11	4	7	0	406.29429	0.00012	0.0002
13	5	8	1	12	4	8	0	406.59347	0.00013	0.0002
14	5	9	1	13	4	9	0	406.89238	0.00015	0.0002
15	5	10	1	14	4	10	0	407.19082	-0.00004	0.0002
16	5	11	1	15	4	11	0	407.48925	0.00002	0.0002
17	5	12	1	16	4	12	0	407.78737	0.00001	0.0002
18	5	13	1	17	4	13	0	408.08532	0.00008	0.0002
19	5	14	1	18	4	14	0	408.38292	0.00004	0.0002
21	5	16	1	20	4	16	0	408.97746	0.00002	0.0002
22	5	17	1	21	4	17	0	409.27465	0.00029	0.0002
23	5	18	1	22	4	18	0	409.57089	-0.00015	0.0002
24	5	19	1	23	4	19	0	409.86757	0.00010	0.0002
25	5	20	1	24	4	20	0	410.16365	-0.00002	0.0002
26	5	21	1	25	4	21	0	410.45962	-0.00001	0.0002
27	5	22	1	26	4	22	0	410.75538	0.00002	0.0002
30	5	25	1	29	4	25	0	411.64106	-0.00002	0.0002
31	5	26	1	30	4	26	0	411.93594	0.00011	0.0002
32	5	27	1	31	4	27	0	412.23036	0.00001	0.0002
33	5	28	1	32	4	28	0	412.52464	0.00001	0.0002
34	5	29	1	33	4	29	0	412.81858	-0.00009	0.0002
35	5	30	1	34	4	30	0	413.11243	-0.00003	0.0002
36	5	31	1	35	4	31	0	413.40576	-0.00025	0.0002
37	5	32	1	36	4	32	0	413.69933	0.00002	0.0002
38	5	33	1	37	4	33	0	413.99226	-0.00012	0.0002
39	5	34	1	38	4	34	0	414.28514	-0.00006	0.0002
40	5	35	1	39	4	35	0	414.57788	0.00011	0.0002
41	5	36	1	40	4	36	0	414.87022	0.00012	0.0002
42	5	37	1	41	4	37	0	415.16225	0.00007	0.0002
43	5	38	1	42	4	38	0	415.45418	0.00016	0.0002
44	5	39	1	43	4	39	0	415.74561	-0.00001	0.0002
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8	6	2	1	7	5	2	0	405.07402	-0.00012	0.0002
9	6	3	1	8	5	3	0	405.38401	-0.00009	0.0002
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13	6	7	1	12	5	7	0	406.58742	0.00009	0.0002
14	6	8	1	13	5	8	0	406.88565	-0.00004	0.0002
15	6	9	1	14	5	9	0	407.18378	0.00003	0.0002
16	6	10	1	15	5	10	0	407.48169	0.00017	0.0002
17	6	11	1	16	5	11	0	407.77904	0.00002	0.0002
18	6	12	1	17	5	12	0	408.07615	-0.00013	0.0002
19	6	13	1	18	5	13	0	408.37340	0.00013	0.0002
20	6	14	1	19	5	14	0	408.67006	0.00003	0.0002
21	6	15	1	20	5	15	0	408.96661	0.00007	0.0002
22	6	16	1	21	5	16	0	409.26295	0.00015	0.0002
23	6	17	1	22	5	17	0	409.55897	0.00015	0.0002

24	6	18	1	23	5	18	0	409.85460	0.00001	0.0002
25	6	19	1	24	5	19	0	410.15031	0.00018	0.0002
26	6	20	1	25	5	20	0	410.44543	-0.00001	0.0002
27	6	21	1	26	5	21	0	410.74061	0.00012	0.0002
29	6	23	1	28	5	23	0	411.32992	0.00005	0.0002
30	6	24	1	29	5	24	0	411.62416	-0.00004	0.0002
32	6	26	1	31	5	26	0	412.21220	0.00006	0.0002
33	6	27	1	32	5	27	0	412.50579	0.00005	0.0002
34	6	28	1	33	5	28	0	412.79918	0.00008	0.0002
35	6	29	1	34	5	29	0	413.09219	-0.00002	0.0002
36	6	30	1	35	5	30	0	413.38492	-0.00017	0.0002
37	6	31	1	36	5	31	0	413.67749	-0.00022	0.0002
38	6	32	1	37	5	32	0	413.97012	0.00002	0.0002
39	6	33	1	38	5	33	0	414.26236	0.00013	0.0002
40	6	34	1	39	5	34	0	414.55405	-0.00008	0.0002
41	6	35	1	40	5	35	0	414.84570	-0.00008	0.0002
42	6	36	1	41	5	36	0	415.13733	0.00015	0.0002
44	6	38	1	43	5	38	0	415.71938	0.00014	0.0002
45	6	39	1	44	5	39	0	416.00983	-0.00007	0.0002
46	6	40	1	45	5	40	0	416.30056	0.00026	0.0002
47	6	41	1	46	5	41	0	416.59060	0.00013	0.0002
48	6	42	1	47	5	42	0	416.88035	-0.00002	0.0002
49	6	43	1	48	5	43	0	417.17006	0.00003	0.0002
51	6	45	1	50	5	45	0	417.74873	0.00014	0.0002
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11	7	4	1	10	6	4	0	405.98217	0.00001	0.0002
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14	7	7	1	13	6	7	0	406.87954	0.00012	0.0002
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20	7	13	1	19	6	13	0	408.66021	-0.00012	0.0002
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23	7	16	1	22	6	16	0	409.54712	-0.00008	0.0002
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25	7	18	1	24	6	18	0	410.13717	-0.00005	0.0002
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27	7	20	1	26	6	20	0	410.72634	0.00009	0.0002
28	7	21	1	27	6	21	0	411.02046	0.00005	0.0002
29	7	22	1	28	6	22	0	411.31418	-0.00013	0.0002
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36	7	29	1	35	6	29	0	413.36490	0.00004	0.0002
37	7	30	1	36	6	30	0	413.65666	-0.00015	0.0002
38	7	31	1	37	6	31	0	413.94855	0.00002	0.0002
39	7	32	1	38	6	32	0	414.24003	0.00004	0.0002
40	7	33	1	39	6	33	0	414.53125	0.00004	0.0002
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49	7	42	1	48	6	42	0	417.14116	0.00016	0.0002
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26	8	18	1	25	7	18	0	410.41890	0.00001	0.0002
27	8	19	1	26	7	19	0	410.71249	-0.00014	0.0002
28	8	20	1	27	7	20	0	411.00598	-0.00015	0.0002
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27	9	18	1	26	8	18	0	410.69936	-0.00024	0.0002
28	9	19	1	27	8	19	0	410.99237	-0.00010	0.0002
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43	9	34	1	42	8	34	0	415.35539	-0.00025	0.0002
44	9	35	1	43	8	35	0	415.64444	-0.00009	0.0002
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49	9	40	1	48	8	40	0	417.08536	0.00016	0.0002
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13	10	3	1	12	9	3	0	406.53752	-0.00002	0.0002
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17	10	7	1	16	9	7	0	407.74908	0.00006	0.0002
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26	10	16	1	25	9	16	0	410.39475	0.00009	0.0002
27	10	17	1	26	9	17	0	410.68721	0.00006	0.0002
28	10	18	1	27	9	18	0	410.97913	-0.00025	0.0002

29	10	19	1	28	9	19	0	411.27124	-0.00012	0.0002
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18	11	7	1	17	10	7	0	408.03664	0.00006	0.0002
19	11	8	1	18	10	8	0	408.33150	0.00005	0.0002
20	11	9	1	19	10	9	0	408.62574	0.00003	0.0002
21	11	10	1	20	10	10	0	408.91956	0.00006	0.0002
22	11	11	1	21	10	11	0	409.21287	-0.00003	0.0002
23	11	12	1	22	10	12	0	409.50610	0.00014	0.0002
24	11	13	1	23	10	13	0	409.79855	-0.00015	0.0002
25	11	14	1	24	10	14	0	410.09121	0.00006	0.0002
26	11	15	1	25	10	15	0	410.38337	0.00005	0.0002
27	11	16	1	26	10	16	0	410.67523	0.00001	0.0002
28	11	17	1	27	10	17	0	410.96678	-0.00006	0.0002
29	11	18	1	28	10	18	0	411.25822	0.00002	0.0002
30	11	19	1	29	10	19	0	411.54928	-0.00003	0.0002
31	11	20	1	30	10	20	0	411.84007	-0.00009	0.0002
32	11	21	1	31	10	21	0	412.13084	0.00009	0.0002
33	11	22	1	32	10	22	0	412.42107	-0.00002	0.0002
34	11	23	1	33	10	23	0	412.71122	0.00003	0.0002
35	11	24	1	34	10	24	0	413.00108	0.00006	0.0002
36	11	25	1	35	10	25	0	413.29068	0.00007	0.0002
37	11	26	1	36	10	26	0	413.57984	-0.00010	0.0002
38	11	27	1	37	10	27	0	413.86891	-0.00012	0.0002
39	11	28	1	38	10	28	0	414.15782	-0.00004	0.0002
40	11	29	1	39	10	29	0	414.44646	0.00001	0.0002
41	11	30	1	40	10	30	0	414.73480	0.00002	0.0002
42	11	31	1	41	10	31	0	415.02290	0.00004	0.0002
44	11	33	1	43	10	33	0	415.59848	0.00021	0.0002
45	11	34	1	44	10	34	0	415.88550	-0.00010	0.0002
46	11	35	1	45	10	35	0	416.17249	-0.00018	0.0002
47	11	36	1	46	10	36	0	416.45937	-0.00012	0.0002
48	11	37	1	47	10	37	0	416.74597	-0.00008	0.0002
49	11	38	1	48	10	38	0	417.03235	-0.00001	0.0002
50	11	39	1	49	10	39	0	417.31850	0.00008	0.0002
51	11	40	1	50	10	40	0	417.60420	-0.00002	0.0002
52	11	41	1	51	10	41	0	417.88989	0.00014	0.0002
53	11	42	1	52	10	42	0	418.17495	-0.00008	0.0002
55	11	44	1	54	10	44	0	418.74480	-0.00001	0.0002
13	12	1	1	12	11	1	0	406.59113	-0.00008	0.0002
14	12	2	1	13	11	2	0	406.83588	0.00032	0.0002
16	12	4	1	15	11	4	0	407.41628	0.00009	0.0002
17	12	5	1	16	11	5	0	407.72673	-0.00013	0.0002
18	12	6	1	17	11	6	0	408.02692	-0.00017	0.0002
19	12	7	1	18	11	7	0	408.32302	0.00008	0.0002
20	12	8	1	19	11	8	0	408.61730	0.00000	0.0002
21	12	9	1	20	11	9	0	408.91089	-0.00002	0.0002
22	12	10	1	21	11	10	0	409.20403	0.00006	0.0002
23	12	11	1	22	11	11	0	409.49648	-0.00013	0.0002
24	12	12	1	23	11	12	0	409.78888	0.00000	0.0002
25	12	13	1	24	11	13	0	410.08095	0.00014	0.0002
26	12	14	1	25	11	14	0	410.37230	-0.00014	0.0002
27	12	15	1	26	11	15	0	410.66381	0.00005	0.0002
28	12	16	1	27	11	16	0	410.95492	0.00012	0.0002
29	12	17	1	28	11	17	0	411.24561	0.00003	0.0002
30	12	18	1	29	11	18	0	411.53607	-0.00001	0.0002
31	12	19	1	30	11	19	0	411.82639	0.00008	0.0002
32	12	20	1	31	11	20	0	412.11612	-0.00017	0.0002
33	12	21	1	32	11	21	0	412.40595	-0.00006	0.0002
34	12	22	1	33	11	22	0	412.69554	0.00007	0.0002
35	12	23	1	34	11	23	0	412.98470	0.00002	0.0002
36	12	24	1	35	11	24	0	413.27359	-0.00005	0.0002
37	12	25	1	36	11	25	0	413.56238	0.00004	0.0002
38	12	26	1	37	11	26	0	413.85092	0.00013	0.0002
39	12	27	1	38	11	27	0	414.13909	0.00011	0.0002
40	12	28	1	39	11	28	0	414.42698	0.00006	0.0002
41	12	29	1	40	11	29	0	414.71452	-0.00009	0.0002
42	12	30	1	41	11	30	0	415.00218	0.00013	0.0002
43	12	31	1	42	11	31	0	415.28929	0.00005	0.0002
44	12	32	1	43	11	32	0	415.57609	-0.00008	0.0002
45	12	33	1	44	11	33	0	415.86286	0.00001	0.0002
46	12	34	1	45	11	34	0	416.14933	0.00006	0.0002
47	12	35	1	46	11	35	0	416.43553	0.00009	0.0002
48	12	36	1	47	11	36	0	416.72143	0.00007	0.0002
49	12	37	1	48	11	37	0	417.00702	0.00000	0.0002
50	12	38	1	49	11	38	0	417.29246	0.00004	0.0002
51	12	39	1	50	11	39	0	417.57751	-0.00006	0.0002
52	12	40	1	51	11	40	0	417.86243	-0.00003	0.0002
53	12	41	1	52	11	41	0	418.14697	-0.00011	0.0002
54	12	42	1	53	11	42	0	418.43152	0.00006	0.0002
55	12	43	1	54	11	43	0	418.71542	-0.00014	0.0002
57	12	45	1	56	11	45	0	419.28290	-0.00010	0.0002
58	12	46	1	57	11	46	0	419.56622	-0.00010	0.0002
59	12	47	1	58	11	47	0	419.84929	-0.00009	0.0002
61	12	49	1	60	11	49	0	420.41460	-0.00009	0.0002
62	12	50	1	61	11	50	0	420.69669	-0.00026	0.0002
63	12	51	1	62	11	51	0	420.97874	-0.00021	0.0002
18	13	5	1	17	12	5	0	408.01004	0.00022	0.0002
19	13	6	1	18	12	6	0	408.31209	0.00005	0.0002
20	13	7	1	19	12	7	0	408.60819	0.00014	0.0002
21	13	8	1	20	12	8	0	408.90202	0.00003	0.0002
22	13	9	1	21	12	9	0	409.19502	0.00002	0.0002
23	13	10	1	22	12	10	0	409.48746	0.00007	0.0002
24	13	11	1	23	12	11	0	409.77925	-0.00004	0.0002
25	13	12	1	24	12	12	0	410.07073	-0.00005	0.0002
26	13	13	1	25	12	13	0	410.36196	0.00004	0.0002
27	13	14	1	26	12	14	0	410.65257	-0.00015	0.0002
28	13	15	1	27	12	15	0	410.94322	0.00000	0.0002
29	13	16	1	28	12	16	0	411.23333	-0.00009	0.0002
30	13	17	1	29	12	17	0	411.52339	0.00005	0.0002
31	13	18	1	30	12	18	0	411.81295	-0.00005	0.0002
32	13	19	1	31	12	19	0	412.10223	-0.00014	0.0002
33	13	20	1	32	12	20	0	412.39150	0.00002	0.0002
34	13	21	1	33	12	21	0	412.68007	-0.00026	0.0002
35	13	22	1	34	12	22	0	412.96888	-0.00005	0.0002
36	13	23	1	35	12	23	0	413.25729	0.00004	0.0002
37	13	24	1	36	12	24	0	413.54535	0.00002	0.0002
38	13	25	1	37	12	25	0	413.83313	-0.00002	0.0002
39	13	26	1	38	12	26	0	414.12069	-0.00002	0.0002
40	13	27	1	39	12	27	0	414.40802	-0.00001	0.0002
41	13	28	1	40	12	28	0	414.69504	-0.00005	0.0002
42	13	29	1	41	12	29	0	414.98192	0.00003	0.0002
43	13	30	1	42	12	30	0	415.26829	-0.00015	0.0002
44	13	31	1	43	12	31	0	415.55478	0.00005	0.0002
45	13	32	1	44	12	32	0	415.84076	-0.00001	0.0002
46	13	33	1	45	12	33	0	416.12648	-0.00008	0.0002
47	13	34	1	46	12	34	0	416.41200	-0.00009	0.0002
48	13	35	1	47	12	35	0	416.69737	0.00001	0.0002
49	13	36	1	48	12	36	0	416.98228	-0.00010	0.0002
50	13	37	1	49	12	37	0	417.26690	-0.00023	0.0002
20	14	6	1	19	13	6	0	408.59553	0.00024	0.0002
21	14	7	1	20	13	7	0	408.89213	0.00028	0.0002
22	14	8	1	21	13	8	0	409.18562	0.00011	0.0002
23	14	9	1	22	13	9	0	409.47796	-0.00002	0.0002
24	14	10	1	23	13	10	0	409.76970	-0.00001	0.0002
25	14	11	1	24	13	11	0	410.06092	0.00001	0.0002
26	14	12	1	25	13	12	0	410.35158	-0.00007	0.0002
27	14	13	1	26	13	13	0	410.64219	0.00018	0.0002
28	14	14	1	27	13	14	0	410.93192	-0.00010	0.0002
29	14	15	1	28	13	15	0	411.22157	-0.00013	0.0002
30	14	16	1	29	13	16	0	411.51115	0.00007	0.0002
31	14	17	1	30	13	17	0	411.80015	0.00000	0.0002
32	14	18	1	31	13	18	0	412.08891	-0.00005	0.0002
33	14	19	1	32	13	19	0	412.37745	-0.00003	0.0002
34	14	20	1	33	13	20	0	412.66574	0.00000	0.0002

35	14	21	1	34	13	21	0	412.95359	-0.00014	0.0002
36	14	22	1	35	13	22	0	413.24145	0.00000	0.0002
37	14	23	1	36	13	23	0	413.52883	-0.00008	0.0002
39	14	25	1	38	13	25	0	414.10299	-0.00007	0.0002
40	14	26	1	39	13	26	0	414.38972	-0.00003	0.0002
41	14	27	1	40	13	27	0	414.67643	0.00025	0.0002
42	14	28	1	41	13	28	0	414.96240	0.00004	0.0002
43	14	29	1	42	13	29	0	415.24837	0.00009	0.0002
44	14	30	1	43	13	30	0	415.53403	0.00009	0.0002
45	14	31	1	44	13	31	0	415.81923	-0.00012	0.0002
46	14	32	1	45	13	32	0	416.10439	-0.00011	0.0002
47	14	33	1	46	13	33	0	416.38972	0.00033	0.0002
48	14	34	1	47	13	34	0	416.67409	0.00006	0.0002
49	14	35	1	48	13	35	0	416.95838	-0.00003	0.0002
50	14	36	1	49	13	36	0	417.24223	-0.00031	0.0002
51	14	37	1	50	13	37	0	417.52643	0.00003	0.0002
52	14	38	1	51	13	38	0	417.81007	0.00007	0.0002
53	14	39	1	52	13	39	0	418.09329	-0.00006	0.0002
54	14	40	1	53	13	40	0	418.37651	0.00007	0.0002
55	14	41	1	54	13	41	0	418.65933	0.00007	0.0002
56	14	42	1	55	13	42	0	418.94184	0.00002	0.0002
57	14	43	1	56	13	43	0	419.22424	0.00012	0.0002
58	14	44	1	57	13	44	0	419.50617	0.00001	0.0002
59	14	45	1	58	13	45	0	419.78809	0.00017	0.0002
60	14	46	1	59	13	46	0	420.06944	0.00001	0.0002
61	14	47	1	60	13	47	0	420.35081	0.00015	0.0002

Table S13: Line list of ν_{21} of THP. Transitions in the mmw range are in MHz and transitions in the far-infrared domain are in cm^{-1}.

J’	K_a’	K_c’	v	J”	K_a”	K_c”	v	Obs.	o – c	Exp. Error
Millimeter-wave transitions										
60	33	27	1	60	33	28	1	109355.4566	-0.0021	0.035
62	35	27	1	62	35	28	1	109255.0679	-0.0005	0.035
63	36	27	1	63	36	28	1	109201.7093	0.0556	0.035
64	37	27	1	64	37	28	1	109145.9569	-0.0384	0.035
30	4	26	1	30	4	27	1	106124.0367	0.0530	0.035
31	5	26	1	31	5	27	1	106112.4279	0.0047	0.035
32	6	26	1	32	6	27	1	106100.1677	0.0262	0.035
33	7	26	1	33	7	27	1	106087.0928	-0.0120	0.035
34	8	26	1	34	8	27	1	106073.2593	-0.0190	0.035
35	9	26	1	35	9	27	1	106058.6218	-0.0040	0.035
36	10	26	1	36	10	27	1	106043.0838	-0.0264	0.035
38	12	26	1	38	12	27	1	106009.2989	-0.0351	0.035
39	13	26	1	39	13	27	1	105990.9420	-0.0507	0.035
40	14	26	1	40	14	27	1	105971.5953	-0.0314	0.035
41	15	26	1	41	15	27	1	105951.1624	-0.0302	0.035
42	16	26	1	42	16	27	1	105929.5906	-0.0549	0.035
43	17	26	1	43	17	27	1	105906.9335	-0.0058	0.035
44	18	26	1	44	18	27	1	105883.0260	-0.0004	0.035
45	19	26	1	45	19	27	1	105857.8331	-0.0248	0.035
46	20	26	1	46	20	27	1	105831.4018	0.0183	0.035
47	21	26	1	47	21	27	1	105803.5811	0.0297	0.035
49	23	26	1	49	23	27	1	105743.6218	0.0222	0.035
50	24	26	1	50	24	27	1	105711.4092	0.0405	0.035
51	25	26	1	51	25	27	1	105677.6071	0.0492	0.035
52	26	26	1	52	26	27	1	105642.1435	0.0360	0.035
53	27	26	1	53	27	27	1	105605.0052	0.0490	0.035
55	29	26	1	55	29	27	1	105525.2944	-0.0026	0.035
56	30	26	1	56	30	27	1	105482.7011	0.0433	0.035
57	31	26	1	57	31	27	1	105438.0677	0.0131	0.035
58	32	26	1	58	32	27	1	105391.4365	0.0197	0.035
60	34	26	1	60	34	27	1	105291.7251	-0.0201	0.035
61	35	26	1	61	35	27	1	105238.5910	0.0312	0.035
62	36	26	1	62	36	27	1	105183.0431	0.0067	0.035
63	37	26	1	63	37	27	1	105125.0974	0.0041	0.035
64	38	26	1	64	38	27	1	105064.5801	-0.0664	0.035
65	39	26	1	65	39	27	1	105001.6353	0.0256	0.035
29	4	25	1	29	4	26	1	102120.7971	0.0323	0.035
30	5	25	1	30	5	26	1	102109.5843	0.0330	0.035
31	6	25	1	31	6	26	1	102097.6310	0.0349	0.035
32	7	25	1	32	7	26	1	102084.8685	0.0063	0.035
33	8	25	1	33	8	26	1	102071.2805	-0.0310	0.035
34	9	25	1	34	9	26	1	102056.9206	0.0159	0.035
35	10	25	1	35	10	26	1	102041.6047	0.0039	0.035
36	11	25	1	36	11	26	1	102025.3368	-0.0210	0.035
37	12	25	1	37	12	26	1	102008.1385	0.0062	0.035
38	13	25	1	38	13	26	1	101989.8793	0.0003	0.035
39	14	25	1	39	14	26	1	101970.5516	-0.0001	0.035
40	15	25	1	40	15	26	1	101950.1010	-0.0019	0.035
41	16	25	1	41	16	26	1	101928.4606	-0.0224	0.035
42	17	25	1	42	17	26	1	101905.6417	0.0003	0.035
43	18	25	1	43	18	26	1	101881.5147	-0.0107	0.035
44	19	25	1	44	19	26	1	101856.0796	-0.0021	0.035
45	20	25	1	45	20	26	1	101829.2717	0.0173	0.035
46	21	25	1	46	21	26	1	101800.9783	-0.0082	0.035
47	22	25	1	47	22	26	1	101771.2877	0.0685	0.035
48	23	25	1	48	23	26	1	101739.9129	0.0211	0.035
49	24	25	1	49	24	26	1	101706.9841	0.0420	0.035
50	25	25	1	50	25	26	1	101672.3185	0.0126	0.035
51	26	25	1	51	26	26	1	101635.9583	0.0411	0.035
52	27	25	1	52	27	26	1	101597.7584	0.0504	0.035
53	28	25	1	53	28	26	1	101557.6860	0.0775	0.035
54	29	25	1	54	29	26	1	101515.5743	0.0279	0.035
55	30	25	1	55	30	26	1	101471.4243	-0.0234	0.035
56	31	25	1	56	31	26	1	101425.2161	-0.0200	0.035
57	32	25	1	57	32	26	1	101376.8477	0.0147	0.035
58	33	25	1	58	33	26	1	101326.1656	0.0084	0.035
59	34	25	1	59	34	26	1	101273.1021	-0.0231	0.035
60	35	25	1	60	35	26	1	101217.6662	0.0151	0.035
62	37	25	1	62	37	26	1	101099.0104	-0.0085	0.035
63	38	25	1	63	38	26	1	101035.6687	-0.0062	0.035
64	39	25	1	64	39	26	1	100969.4568	-0.0600	0.035
65	40	25	1	65	40	26	1	100900.3578	-0.0864	0.035
66	41	25	1	66	41	26	1	100828.3213	-0.0317	0.035
67	42	25	1	67	42	26	1	100753.1279	-0.0080	0.035
70	45	25	1	70	45	26	1	100507.5575	-0.0435	0.035
74	49	25	1	74	49	26	1	100129.1896	-0.0778	0.035
26	2	24	1	26	2	25	1	98136.9808	0.0348	0.035
27	3	24	1	27	3	25	1	98127.5307	0.0603	0.035
28	4	24	1	28	4	25	1	98117.2869	-0.0189	0.035
29	5	24	1	29	5	25	1	98106.4138	-0.0010	0.035
30	6	24	1	30	6	25	1	98094.7134	-0.0452	0.035
31	7	24	1	31	7	25	1	98082.2579	-0.0388	0.035
32	8	24	1	32	8	25	1	98068.9802	-0.0073	0.035
33	9	24	1	33	9	25	1	98054.7556	-0.0322	0.035
34	10	24	1	34	10	25	1	98039.6213	-0.0313	0.035
35	11	24	1	35	11	25	1	98023.5033	-0.0325	0.035
36	12	24	1	36	12	25	1	98006.3593	-0.0302	0.035
37	13	24	1	37	13	25	1	97988.1312	-0.0330	0.035
38	14	24	1	38	14	25	1	97968.7771	-0.0318	0.035
39	15	24	1	39	15	25	1	97948.2142	-0.0567	0.035
40	16	24	1	40	16	25	1	97926.4418	-0.0540	0.035
41	17	24	1	41	17	25	1	97903.4011	-0.0265	0.035
42	18	24	1	42	18	25	1	97878.9741	-0.0342	0.035
43	19	24	1	43	19	25	1	97853.1626	-0.0158	0.035
44	20	24	1	44	20	25	1	97825.8704	-0.0060	0.035
45	21	24	1	45	21	25	1	97797.0448	0.0057	0.035
46	22	24	1	46	22	25	1	97766.6109	0.0098	0.035
47	23	24	1	47	23	25	1	97734.5005	0.0053	0.035
48	24	24	1	48	24	25	1	97700.6626	0.0103	0.035
50	26	24	1	50	26	25	1	97627.4917	0.0241	0.035
51	27	24	1	51	27	25	1	97588.0051	0.0285	0.035
52	28	24	1	52	28	25	1	97546.4633	0.0136	0.035
53	29	24	1	53	29	25	1	97502.8451	0.0383	0.035
54	30	24	1	54	30	25	1	97456.9449	-0.0198	0.035
55	31	24	1	55	31	25	1	97408.8835	0.0454	0.035
56	32	24	1	56	32	25	1	97358.2805	-0.0583	0.035
57	33	24	1	57	33	25	1	97305.4205	0.0445	0.035
58	34	24	1	58	34	25	1	97249.8702	0.0145	0.035
59	35	24	1	59	35	25	1	97191.6800	-0.0012	0.035
60	36	24	1	60	36	25	1	97130.7652	0.0125	0.035
61	37	24	1	61	37	25	1	97066.9537	-0.0129	0.035
62	38	24	1	62	38	25	1	97000.1878	-0.0290	0.035
65	41	24	1	65	41	25	1	96781.0200	-0.0414	0.035
66	42	24	1	66	42	25	1	96701.3063	-0.0080	0.035
68	44	24	1	68	44	25	1	96531.0260	0.0017	0.035
69	45	24	1	69	45	25	1	96440.2405	0.0263	0.035
70	46	24	1	70	46	25	1	96345.4474	0.0064	0.035
25	2	23	1	25	2	24	1	94132.6378	0.0449	0.035
26	3	23	1	26	3	24	1	94123.5171	0.0607	0.035
27	4	23	1	27	4	24	1	94113.6130	0.0015	0.035
28	5	23	1	28	5	24	1	94103.0506	0.0336	0.035
29	6	23	1	29	6	24	1	94091.6533	0.0227	0.035
31	8	23	1	31	8	24	1	94066.3105	0.0078	0.035
32	9	23	1	32	9	24	1	94052.2710	0.0030	0.035
33	10	23	1	33	10	24	1	94037.2543	0.0004	0.035
34	11	23	1	34	11	24	1	94021.1915	-0.0182	0.035
35	12	23	1	35	12	24	1	94004.0930	0.0104	0.035
36	13	23	1	36	13	24	1	93985.8217	0.0041	0.035
37	14	23	1	37	14	24	1	93966.3538	-0.0047	0.035
38	15	23	1	38	15	24	1	93945.6388	-0.0081	0.035
39	16	23	1	39	16	24	1	93923.6317	0.0090	0.035
41	18	23	1	41	18	24	1	93875.4362	0.0514	0.035
42	19	23	1	42	19	24	1	93849.0449	0.0040	0.035
43	20	23	1	43	20	24	1	93821.1860	0.0627	0.035
44	21	23	1	44	21	24	1	93791.5794	0.0182	0.035
45	22	23	1	45	22	24	1	93760.2540	-0.0282	0.035
46	23	23	1	46	23	24	1	93727.2458	0.0344	0.035
47	24	23	1	47	24	24	1	93692.3040	0.0328	0.035
48	25	23	1	48	25	24	1	93655.4127	0.0308	0.035
49	26	23	1	49	26	24	1	93616.4427	-0.0185	0.035
50	27	23	1	50	27	24	1	93575.4419	0.0175	0.035
51	28	23	1	51	28	24	1	93532.1763	-0.0076	0.035
52	29	23	1	52	29	24	1	93486.6575	0.0082	0.035
53	30	23	1	53	30	24	1	93438.7300	0.0026	0.035
54	31	23	1	54	31	24	1	93388.3568	0.0350	0.035
55	32	23	1	55	32	24	1	93335.3597	0.0262	0.035
56	33	23	1	56	33	24	1	93279.6618	0.0024	0.035
57	34	23	1	57	34	24	1	93221.1213	-0.0723	0.035
58	35	23	1	58	35	24	1	93159.8351	0.0084	0.035

60	37	23	1	60	37	24	1	93027.9123	-0.0188	0.035
62	39	23	1	62	39	24	1	92882.9671	-0.0501	0.035
63	40	23	1	63	40	24	1	92805.3858	0.0247	0.035
64	41	23	1	64	41	24	1	92724.0791	0.0189	0.035
65	42	23	1	65	42	24	1	92639.0140	0.0397	0.035
67	44	23	1	67	44	24	1	92456.8682	0.0086	0.035
68	45	23	1	68	45	24	1	92359.5711	0.0488	0.035
24	2	22	1	24	2	23	1	90128.0769	0.0234	0.035
25	3	22	1	25	3	23	1	90119.2565	0.0217	0.035
26	4	22	1	26	4	23	1	90109.6863	0.0010	0.035
27	5	22	1	27	5	23	1	90099.3465	-0.0134	0.035
28	6	22	1	28	6	23	1	90088.2037	-0.0083	0.035
29	7	22	1	29	7	23	1	90076.1633	-0.0292	0.035
30	8	22	1	30	8	23	1	90063.1799	-0.0710	0.035
31	9	22	1	31	9	23	1	90049.3083	-0.0262	0.035
32	10	22	1	32	10	23	1	90034.3504	-0.0383	0.035
35	13	22	1	35	13	23	1	89982.7856	-0.0139	0.035
36	14	22	1	36	14	23	1	89963.1287	-0.0215	0.035
37	15	22	1	37	15	23	1	89942.1620	-0.0061	0.035
38	16	22	1	38	16	23	1	89919.7755	-0.0106	0.035
39	17	22	1	39	17	23	1	89895.9250	-0.0098	0.035
40	18	22	1	40	18	23	1	89870.5604	0.0176	0.035
41	19	22	1	41	19	23	1	89843.5448	0.0091	0.035
42	20	22	1	42	20	23	1	89814.8595	0.0221	0.035
43	21	22	1	43	21	23	1	89784.4041	0.0353	0.035
44	22	22	1	44	22	23	1	89752.0575	0.0089	0.035
45	23	22	1	45	23	23	1	89717.8264	0.0338	0.035
46	24	22	1	46	24	23	1	89681.5303	0.0163	0.035
47	25	22	1	47	25	23	1	89643.1455	0.0224	0.035
48	26	22	1	48	26	23	1	89602.5076	-0.0196	0.035
49	27	22	1	49	27	23	1	89559.6435	0.0127	0.035
50	28	22	1	50	28	23	1	89514.3730	0.0381	0.035
52	30	22	1	52	30	23	1	89416.1565	0.0234	0.035
53	31	22	1	53	31	23	1	89363.0266	0.0142	0.035
54	32	22	1	54	32	23	1	89307.0792	0.0166	0.035
56	34	22	1	56	34	23	1	89186.2392	0.0344	0.035
57	35	22	1	57	35	23	1	89121.0638	0.0132	0.035
58	36	22	1	58	36	23	1	89052.5775	0.0028	0.035
59	37	22	1	59	37	23	1	88980.6646	0.0218	0.035
60	38	22	1	60	38	23	1	88905.1218	0.0065	0.035
61	39	22	1	61	39	23	1	88825.8451	-0.0021	0.035
63	41	22	1	63	41	23	1	88655.5165	0.0340	0.035
65	43	22	1	65	43	23	1	88468.3158	0.0439	0.035
66	44	22	1	66	44	23	1	88367.9493	0.0279	0.035
68	46	22	1	68	46	23	1	88152.8946	0.0844	0.035
23	2	21	1	23	2	22	1	86123.3510	0.0179	0.035
24	3	21	1	24	3	22	1	86114.8637	0.0535	0.035
25	4	21	1	25	4	22	1	86105.5285	-0.0024	0.035
26	5	21	1	26	5	22	1	86095.4569	0.0113	0.035
27	6	21	1	27	6	22	1	86084.5026	0.0003	0.035
28	7	21	1	28	7	22	1	86072.6363	-0.0106	0.035
29	8	21	1	29	8	22	1	86059.8309	0.0072	0.035
30	9	21	1	30	9	22	1	86045.9671	-0.0065	0.035
31	10	21	1	31	10	22	1	86031.0221	-0.0143	0.035
32	11	21	1	32	11	22	1	86014.9441	-0.0048	0.035
33	12	21	1	33	12	22	1	85997.6521	0.0060	0.035
34	13	21	1	34	13	22	1	85979.0468	-0.0131	0.035
35	14	21	1	35	14	22	1	85959.1580	0.0373	0.035
36	15	21	1	36	15	22	1	85937.7454	-0.0100	0.035
37	16	21	1	37	16	22	1	85914.8761	-0.0131	0.035
39	18	21	1	39	18	22	1	85864.3401	-0.0007	0.035
40	19	21	1	40	19	22	1	85836.4484	-0.0464	0.035
41	20	21	1	41	20	22	1	85806.8334	0.0123	0.035
42	21	21	1	42	21	22	1	85775.2195	-0.0107	0.035
43	22	21	1	43	22	22	1	85741.6210	-0.0097	0.035
44	23	21	1	44	23	22	1	85705.8741	-0.0535	0.035
45	24	21	1	45	24	22	1	85668.0406	0.0179	0.035
46	25	21	1	46	25	22	1	85627.8526	0.0382	0.035
47	26	21	1	47	26	22	1	85585.2270	0.0292	0.035
48	27	21	1	48	27	22	1	85540.0871	0.0228	0.035
49	28	21	1	49	28	22	1	85492.3271	0.0256	0.035
50	29	21	1	50	29	22	1	85441.8155	0.0222	0.035
51	30	21	1	51	30	22	1	85388.4372	0.0180	0.035
52	31	21	1	52	31	22	1	85332.0717	0.0173	0.035
54	33	21	1	54	33	22	1	85209.8505	0.0192	0.035
55	34	21	1	55	34	22	1	85143.6825	-0.0175	0.035
56	35	21	1	56	35	22	1	85074.0501	0.0182	0.035
57	36	21	1	57	36	22	1	85000.7361	0.0592	0.035

58	37	21	1	58	37	22	1	84923.4309	-0.0484	0.035
59	38	21	1	59	38	22	1	84842.2359	-0.0416	0.035
61	40	21	1	61	40	22	1	84667.1163	-0.0633	0.035
62	41	21	1	62	41	22	1	84572.9705	0.0454	0.035
63	42	21	1	63	42	22	1	84473.9121	-0.0362	0.035
22	2	20	1	22	2	21	1	82118.4295	-0.0078	0.035
24	4	20	1	24	4	21	1	82101.0792	-0.0720	0.035
25	5	20	1	25	5	21	1	82091.2092	-0.0650	0.035
26	6	20	1	26	6	21	1	82080.4789	-0.0197	0.035
27	7	20	1	27	7	21	1	82068.7418	-0.0224	0.035
28	8	20	1	28	8	21	1	82056.0018	-0.0067	0.035
29	9	20	1	29	9	21	1	82042.1550	-0.0112	0.035
30	10	20	1	30	10	21	1	82027.1751	0.0055	0.035
31	11	20	1	31	11	21	1	82010.9498	0.0018	0.035
32	12	20	1	32	12	21	1	81993.3968	-0.0316	0.035
33	13	20	1	33	13	21	1	81974.5381	0.0031	0.035
34	14	20	1	34	14	21	1	81954.1779	-0.0108	0.035
35	15	20	1	35	15	21	1	81932.3122	0.0039	0.035
36	16	20	1	36	16	21	1	81908.8133	0.0043	0.035
37	17	20	1	37	17	21	1	81883.6154	0.0122	0.035
38	18	20	1	38	18	21	1	81856.6104	0.0102	0.035
40	20	20	1	40	20	21	1	81796.8377	0.0141	0.035
41	21	20	1	41	21	21	1	81763.8731	0.0213	0.035
42	22	20	1	42	22	21	1	81728.7000	0.0131	0.035
43	23	20	1	43	23	21	1	81691.2194	-0.0010	0.035
44	24	20	1	44	24	21	1	81651.3609	0.0196	0.035
45	25	20	1	45	25	21	1	81608.9383	0.0052	0.035
46	26	20	1	46	26	21	1	81563.8878	0.0114	0.035
47	27	20	1	47	27	21	1	81516.0246	-0.0220	0.035
48	28	20	1	48	28	21	1	81465.3276	0.0122	0.035
50	30	20	1	50	30	21	1	81354.5213	-0.0869	0.035
51	31	20	1	51	31	21	1	81294.3124	-0.0377	0.035
52	32	20	1	52	32	21	1	81230.5928	-0.0322	0.035
54	34	20	1	54	34	21	1	81092.0979	-0.0491	0.035
55	35	20	1	55	35	21	1	81016.9925	-0.0721	0.035
57	37	20	1	57	37	21	1	80854.2636	-0.0745	0.035
58	38	20	1	58	38	21	1	80766.2544	-0.0671	0.035
60	40	20	1	60	40	21	1	80575.9840	-0.0039	0.035
61	41	20	1	61	41	21	1	80473.2217	-0.0246	0.035
63	43	20	1	63	43	21	1	80251.4448	-0.0303	0.035
64	44	20	1	64	44	21	1	80131.9837	0.0272	0.035
20	1	19	1	20	1	20	1	78120.6491	0.0372	0.035
21	2	19	1	21	2	20	1	78113.3872	0.0156	0.035
22	3	19	1	22	3	20	1	78105.3764	0.0064	0.035
23	4	19	1	23	4	20	1	78096.5593	0.0109	0.035
24	5	19	1	24	5	20	1	78086.8781	0.0328	0.035
25	6	19	1	25	6	20	1	78076.1952	-0.0010	0.035
26	7	19	1	26	7	20	1	78064.5383	0.0040	0.035
27	8	19	1	27	8	20	1	78051.7825	-0.0063	0.035
28	9	19	1	28	9	20	1	78037.9358	0.0489	0.035
29	10	19	1	29	10	20	1	78022.7299	-0.0222	0.035
30	11	19	1	30	11	20	1	78006.3144	0.0092	0.035
31	12	19	1	31	12	20	1	77988.4673	0.0036	0.035
32	13	19	1	32	13	20	1	77969.1899	0.0480	0.035
33	14	19	1	33	14	20	1	77948.2631	0.0125	0.035
34	15	19	1	34	15	20	1	77925.6463	-0.0513	0.035
35	16	19	1	35	16	20	1	77901.4034	0.0163	0.035
36	17	19	1	36	17	20	1	77875.2291	0.0098	0.035
37	18	19	1	37	18	20	1	77847.1332	0.0419	0.035
38	19	19	1	38	19	20	1	77816.9181	0.0221	0.035
39	20	19	1	39	20	20	1	77784.4735	-0.0490	0.035
40	21	19	1	40	21	20	1	77749.8520	-0.0039	0.035
41	22	19	1	41	22	20	1	77712.7662	-0.0108	0.035
42	23	19	1	42	23	20	1	77673.1754	0.0134	0.035
43	24	19	1	43	24	20	1	77630.8698	-0.0125	0.035
44	25	19	1	44	25	20	1	77585.7982	-0.0071	0.035
45	26	19	1	45	26	20	1	77537.7802	-0.0125	0.035
46	27	19	1	46	27	20	1	77486.6902	-0.0106	0.035
47	28	19	1	47	28	20	1	77432.3626	-0.0183	0.035
48	29	19	1	48	29	20	1	77374.6357	-0.0421	0.035
49	30	19	1	49	30	20	1	77313.3747	-0.0558	0.035
50	31	19	1	50	31	20	1	77248.4052	-0.0661	0.035
51	32	19	1	51	32	20	1	77179.5563	-0.0695	0.035
53	34	19	1	53	34	20	1	77029.4843	-0.0556	0.035
54	35	19	1	54	35	20	1	76947.8499	-0.0618	0.035
56	37	19	1	56	37	20	1	76770.4574	0.0081	0.035
57	38	19	1	57	38	20	1	76674.1120	-0.0597	0.035
59	40	19	1	59	40	20	1	76465.2899	-0.0449	0.035

63	44	19	1	63	44	20	1	75975.1427	0.0613	0.035
64	45	19	1	64	45	20	1	75835.6756	0.0028	0.035
65	46	19	1	65	46	20	1	75688.9313	0.0650	0.035
11	5	7	1	10	5	6	1	74938.0178	0.0029	0.035
12	3	9	1	11	3	8	1	76100.2245	-0.0573	0.035
10	7	4	1	9	7	3	1	77731.9439	-0.0441	0.035
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11	5	6	1	10	5	5	1	78955.2873	-0.0027	0.035
15	0	15	1	14	0	14	1	79599.1774	-0.0001	0.035
12	5	8	1	11	5	7	1	80109.0280	-0.0120	0.035
10	8	3	1	9	8	2	1	80947.1283	0.0684	0.035
13	3	10	1	12	3	9	1	81272.6708	-0.0495	0.035
14	2	12	1	13	2	11	1	82438.6166	-0.0317	0.035
11	6	5	1	10	6	4	1	83008.8231	-0.0064	0.035
15	1	14	1	14	1	13	1	83605.2956	-0.0019	0.035
16	0	16	1	15	0	15	1	84772.1932	-0.0333	0.035
13	4	9	1	12	4	8	1	85280.6485	-0.0096	0.035
11	8	4	1	10	8	3	1	86865.9479	0.0301	0.035
15	2	13	1	14	2	12	1	87611.4436	0.0069	0.035
12	6	6	1	11	6	5	1	88146.4310	-0.0293	0.035
16	1	15	1	15	1	14	1	88778.2409	0.0103	0.035
13	6	8	1	12	6	7	1	89291.0883	-0.0713	0.035
17	0	17	1	16	0	16	1	89945.3115	0.0340	0.035
14	4	10	1	13	4	9	1	90452.5808	-0.0132	0.035
15	3	12	1	14	3	11	1	91617.7085	-0.0798	0.035
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16	2	14	1	15	2	13	1	92784.2029	-0.0208	0.035
13	7	7	1	12	7	6	1	93307.8373	0.0648	0.035
17	1	16	1	16	1	15	1	93951.1854	0.0249	0.035
14	6	9	1	13	6	8	1	94461.6766	-0.0349	0.035
18	0	18	1	17	0	17	1	95118.3358	0.0050	0.035
15	4	11	1	14	4	10	1	95624.6675	-0.0419	0.035
12	9	4	1	11	9	3	1	95970.3087	-0.0016	0.035
16	3	13	1	15	3	12	1	96790.3521	-0.0124	0.035
13	8	6	1	12	8	5	1	97337.9127	0.0117	0.035
13	7	6	1	12	7	5	1	97343.6208	-0.0040	0.035
17	2	15	1	16	2	14	1	97957.0014	-0.0059	0.035
14	7	8	1	13	7	7	1	98474.7329	-0.0145	0.035
18	1	17	1	17	1	16	1	99124.1197	0.0325	0.035
15	5	10	1	14	5	9	1	99632.9228	0.0346	0.035
19	0	19	1	18	0	18	1	100291.4211	0.0347	0.035
16	4	12	1	15	4	11	1	100796.9577	0.0282	0.035
13	9	5	1	12	9	4	1	101362.2462	-0.0430	0.035
13	8	5	1	12	8	4	1	101486.8822	-0.0091	0.035
12	9	3	1	11	9	2	1	101656.5616	-0.0862	0.035
17	3	14	1	16	3	13	1	101962.9617	0.0111	0.035
18	2	16	1	17	2	15	1	103129.8049	0.0193	0.035
15	7	9	1	14	7	8	1	103643.6410	-0.0843	0.035
19	1	18	1	18	1	17	1	104297.0650	0.0543	0.035
20	0	20	1	19	0	19	1	105464.5158	0.0710	0.035
17	4	13	1	16	4	12	1	105969.2013	-0.0094	0.035
14	9	6	1	13	9	5	1	106536.4809	0.0113	0.035
14	8	6	1	13	8	5	1	106549.0931	-0.0070	0.035
18	3	15	1	17	3	14	1	107135.5412	0.0025	0.035
15	8	8	1	14	8	7	1	107660.2935	0.0273	0.035
19	2	17	1	18	2	16	1	108302.5711	0.0137	0.035
16	7	10	1	15	7	9	1	108813.7903	-0.0157	0.035
69	43	26	1	69	43	27	1	104721.7382	0.0075	0.035
71	47	24	1	71	47	25	1	96246.6205	0.0624	0.035
24	1	23	1	24	1	24	1	94141.0861	0.0260	0.035
12	10	2	1	11	9	2	1	109340.8195	-0.0117	0.035
11	6	6	1	10	5	6	1	100931.0331	0.0141	0.035
11	7	5	1	10	6	5	1	100902.5820	-0.0584	0.035
11	8	4	1	10	7	4	1	100863.5605	-0.0037	0.035
11	9	2	1	10	8	2	1	100209.3914	0.0720	0.035
10	2	8	1	9	1	8	1	91788.0349	0.0248	0.035
10	4	7	1	9	3	7	1	91779.4174	0.0421	0.035
10	6	5	1	9	5	5	1	91744.6971	-0.0378	0.035
10	5	5	1	9	4	5	1	91744.0996	0.0056	0.035
10	6	4	1	9	5	4	1	91692.8099	-0.0114	0.035
10	8	2	1	9	7	2	1	91105.9030	0.0268	0.035
9	4	6	1	8	3	6	1	82598.4205	-0.0230	0.035
9	5	4	1	8	4	4	1	82547.6499	0.0186	0.035

Rovibrational Infrared transitions

5	0	5	1	6	0	6	0	428.92020	0.00005	0.0002
6	0	6	1	7	0	7	0	428.74143	-0.00003	0.0002
7	0	7	1	8	0	8	0	428.56161	-0.00018	0.0002
8	0	8	1	9	0	9	0	428.38119	0.00003	0.0002
9	0	9	1	10	0	10	0	428.19945	-0.00009	0.0002
10	0	10	1	11	0	11	0	428.01671	-0.00022	0.0002
11	0	11	1	12	0	12	0	427.83344	0.00007	0.0002
12	0	12	1	13	0	13	0	427.64889	0.00006	0.0002
13	0	13	1	14	0	14	0	427.46343	0.00013	0.0002
14	0	14	1	15	0	15	0	427.27671	-0.00012	0.0002
15	0	15	1	16	0	16	0	427.08935	-0.00003	0.0002
16	0	16	1	17	0	17	0	426.90094	-0.00003	0.0002
17	0	17	1	18	0	18	0	426.71161	0.00001	0.0002
18	0	18	1	19	0	19	0	426.52122	-0.00005	0.0002
19	0	19	1	20	0	20	0	426.32991	-0.00008	0.0002
20	0	20	1	21	0	21	0	426.13771	-0.00004	0.0002
21	0	21	1	22	0	22	0	425.94457	-0.00001	0.0002
22	0	22	1	23	0	23	0	425.75040	-0.00005	0.0002
23	0	23	1	24	0	24	0	425.55540	0.00002	0.0002
24	0	24	1	25	0	25	0	425.35935	-0.00002	0.0002
25	0	25	1	26	0	26	0	425.16237	-0.00007	0.0002
26	0	26	1	27	0	27	0	424.96453	-0.00003	0.0002
27	0	27	1	28	0	28	0	424.76579	0.00002	0.0002
28	0	28	1	29	0	29	0	424.56613	0.00008	0.0002
29	0	29	1	30	0	30	0	424.36532	-0.00010	0.0002
30	0	30	1	31	0	31	0	424.16386	-0.00001	0.0002
31	0	31	1	32	0	32	0	423.96142	0.00001	0.0002
32	0	32	1	33	0	33	0	423.75804	-0.00002	0.0002
33	0	33	1	34	0	34	0	423.55379	-0.00001	0.0002
34	0	34	1	35	0	35	0	423.34866	0.00002	0.0002
35	0	35	1	36	0	36	0	423.14261	0.00001	0.0002
36	0	36	1	37	0	37	0	422.93546	-0.00021	0.0002
37	0	37	1	38	0	38	0	422.72784	-0.00003	0.0002
38	0	38	1	39	0	39	0	422.51924	0.00005	0.0002
39	0	39	1	40	0	40	0	422.30966	0.00003	0.0002
40	0	40	1	41	0	41	0	422.09926	0.00004	0.0002
41	0	41	1	42	0	42	0	421.88792	-0.00004	0.0002
42	0	42	1	43	0	43	0	421.67593	0.00010	0.0002
43	0	43	1	44	0	44	0	421.46283	-0.00003	0.0002
44	0	44	1	45	0	45	0	421.24916	0.00011	0.0002
45	0	45	1	46	0	46	0	421.03445	0.00004	0.0002
46	0	46	1	47	0	47	0	420.81908	0.00015	0.0002
47	0	47	1	48	0	48	0	420.60267	0.00005	0.0002
48	0	48	1	49	0	49	0	420.38548	-0.00002	0.0002
49	0	49	1	50	0	50	0	420.16762	0.00006	0.0002
50	0	50	1	51	0	51	0	419.94870	-0.00012	0.0002
51	0	51	1	52	0	52	0	419.72959	0.00032	0.0002
52	0	52	1	53	0	53	0	419.50914	0.00021	0.0002
53	0	53	1	54	0	54	0	419.28796	0.00016	0.0002
54	0	54	1	55	0	55	0	419.06605	0.00017	0.0002
55	0	55	1	56	0	56	0	418.84347	0.00028	0.0002
56	0	56	1	57	0	57	0	418.62003	0.00032	0.0002
57	0	57	1	58	0	58	0	418.39564	0.00016	0.0002
5	1	4	1	6	1	5	0	428.79494	0.00018	0.0002
6	1	5	1	7	1	6	0	428.61769	0.00012	0.0002
7	1	6	1	8	1	7	0	428.43935	-0.00005	0.0002
8	1	7	1	9	1	8	0	428.26024	-0.00002	0.0002
9	1	8	1	10	1	9	0	428.08026	0.00013	0.0002
10	1	9	1	11	1	10	0	427.89902	-0.00001	0.0002
11	1	10	1	12	1	11	0	427.71692	-0.00002	0.0002
12	1	11	1	13	1	12	0	427.53390	0.00001	0.0002
13	1	12	1	14	1	13	0	427.34985	-0.00001	0.0002
14	1	13	1	15	1	14	0	427.16510	0.00023	0.0002
15	1	14	1	16	1	15	0	426.97895	0.00004	0.0002
16	1	15	1	17	1	16	0	426.79187	-0.00011	0.0002
17	1	16	1	18	1	17	0	426.60403	-0.00005	0.0002
18	1	17	1	19	1	18	0	426.41520	-0.00003	0.0002
19	1	18	1	20	1	19	0	426.22531	-0.00012	0.0002
20	1	19	1	21	1	20	0	426.03470	0.00004	0.0002
21	1	20	1	22	1	21	0	425.84295	0.00000	0.0002
22	1	21	1	23	1	22	0	425.65026	-0.00003	0.0002
23	1	22	1	24	1	23	0	425.45667	-0.00001	0.0002
24	1	23	1	25	1	24	0	425.26217	0.00003	0.0002
25	1	24	1	26	1	25	0	425.06666	0.00001	0.0002
26	1	25	1	27	1	26	0	424.87042	0.00019	0.0002
27	1	26	1	28	1	27	0	424.67282	-0.00007	0.0002
28	1	27	1	29	1	28	0	424.47461	0.00000	0.0002
30	1	29	1	31	1	30	0	424.07527	-0.00005	0.0002
31	1	30	1	32	1	31	0	423.87424	-0.00005	0.0002
32	1	31	1	33	1	32	0	423.67227	-0.00010	0.0002
33	1	32	1	34	1	33	0	423.46945	-0.00009	0.0002

34	1	33	1	35	1	34	0	423.26603	0.00023	0.0002
35	1	34	1	36	1	35	0	423.06117	-0.00001	0.0002
36	1	35	1	37	1	36	0	422.85566	-0.00001	0.0002
37	1	36	1	38	1	37	0	422.64932	0.00006	0.0002
38	1	37	1	39	1	38	0	422.44202	0.00003	0.0002
39	1	38	1	40	1	39	0	422.23376	-0.00009	0.0002
40	1	39	1	41	1	40	0	422.02487	0.00004	0.0002
41	1	40	1	42	1	41	0	421.81502	0.00007	0.0002
42	1	41	1	43	1	42	0	421.60427	0.00005	0.0002
43	1	42	1	44	1	43	0	421.39279	0.00016	0.0002
44	1	43	1	45	1	44	0	421.18013	-0.00006	0.0002
45	1	44	1	46	1	45	0	420.96714	0.00022	0.0002
46	1	45	1	47	1	46	0	420.75305	0.00024	0.0002
47	1	46	1	48	1	47	0	420.53794	0.00007	0.0002
48	1	47	1	49	1	48	0	420.32216	0.00005	0.0002
49	1	48	1	50	1	49	0	420.10558	0.00006	0.0002
50	1	49	1	51	1	50	0	419.88846	0.00032	0.0002
51	1	50	1	52	1	51	0	419.67024	0.00030	0.0002
52	1	51	1	53	1	52	0	419.45108	0.00014	0.0002
53	1	52	1	54	1	53	0	419.23114	-0.00001	0.0002
54	1	53	1	55	1	54	0	419.01083	0.00026	0.0002
55	1	54	1	56	1	55	0	418.78936	0.00016	0.0002
56	1	55	1	57	1	56	0	418.56732	0.00026	0.0002
6	2	4	1	7	2	5	0	428.49197	-0.00021	0.0002
7	2	5	1	8	2	6	0	428.31556	0.00002	0.0002
8	2	6	1	9	2	7	0	428.13790	0.00001	0.0002
9	2	7	1	10	2	8	0	427.95920	-0.00006	0.0002
10	2	8	1	11	2	9	0	427.77959	-0.00006	0.0002
11	2	9	1	12	2	10	0	427.59899	-0.00008	0.0002
12	2	10	1	13	2	11	0	427.41732	-0.00018	0.0002
13	2	11	1	14	2	12	0	427.23499	0.00003	0.0002
14	2	12	1	15	2	13	0	427.05136	-0.00009	0.0002
15	2	13	1	16	2	14	0	426.86694	-0.00004	0.0002
16	2	14	1	17	2	15	0	426.68160	0.00007	0.0002
17	2	15	1	18	2	16	0	426.49523	0.00012	0.0002
18	2	16	1	19	2	17	0	426.30772	-0.00002	0.0002
19	2	17	1	20	2	18	0	426.11942	0.00001	0.0002
20	2	18	1	21	2	19	0	425.93016	0.00004	0.0002
21	2	19	1	22	2	20	0	425.73987	-0.00001	0.0002
22	2	20	1	23	2	21	0	425.54883	0.00015	0.0002
23	2	21	1	24	2	22	0	425.35656	0.00002	0.0002
25	2	23	1	26	2	24	0	424.96947	0.00005	0.0002
26	2	24	1	27	2	25	0	424.77446	0.00000	0.0002
27	2	25	1	28	2	26	0	424.57862	0.00005	0.0002
28	2	26	1	29	2	27	0	424.38178	0.00004	0.0002
29	2	27	1	30	2	28	0	424.18402	0.00002	0.0002
30	2	28	1	31	2	29	0	423.98532	-0.00001	0.0002
31	2	29	1	32	2	30	0	423.78576	0.00002	0.0002
32	2	30	1	33	2	31	0	423.58522	-0.00002	0.0002
33	2	31	1	34	2	32	0	423.38391	0.00007	0.0002
34	2	32	1	35	2	33	0	423.18152	0.00000	0.0002
35	2	33	1	36	2	34	0	422.97832	0.00000	0.0002
36	2	34	1	37	2	35	0	422.77424	0.00002	0.0002
37	2	35	1	38	2	36	0	422.56925	0.00002	0.0002
38	2	36	1	39	2	37	0	422.36338	0.00001	0.0002
39	2	37	1	40	2	38	0	422.15665	0.00003	0.0002
40	2	38	1	41	2	39	0	421.94898	-0.00002	0.0002
41	2	39	1	42	2	40	0	421.74048	-0.00003	0.0002
42	2	40	1	43	2	41	0	421.53145	0.00028	0.0002
43	2	41	1	44	2	42	0	421.32085	-0.00011	0.0002
44	2	42	1	45	2	43	0	421.10989	-0.00001	0.0002
45	2	43	1	46	2	44	0	420.89805	0.00006	0.0002
46	2	44	1	47	2	45	0	420.68532	0.00006	0.0002
47	2	45	1	48	2	46	0	420.47161	-0.00007	0.0002
48	2	46	1	49	2	47	0	420.25742	0.00014	0.0002
49	2	47	1	50	2	48	0	420.04221	0.00016	0.0002
50	2	48	1	51	2	49	0	419.82618	0.00016	0.0002
51	2	49	1	52	2	50	0	419.60927	0.00010	0.0002
3	3	0	1	4	3	1	0	428.91426	-0.00022	0.0002
4	3	1	1	5	3	2	0	428.69808	-0.00005	0.0002
5	3	2	1	6	3	3	0	428.53416	0.00015	0.0002
7	3	4	1	8	3	5	0	428.18968	-0.00042	0.0002
8	3	5	1	9	3	6	0	428.01392	-0.00012	0.0002
10	3	7	1	11	3	8	0	427.65869	-0.00012	0.0002
11	3	8	1	12	3	9	0	427.47970	-0.00003	0.0002
12	3	9	1	13	3	10	0	427.29967	0.00002	0.0002
13	3	10	1	14	3	11	0	427.11855	-0.00006	0.0002
14	3	11	1	15	3	12	0	426.93648	-0.00011	0.0002
15	3	12	1	16	3	13	0	426.75366	0.00007	0.0002
16	3	13	1	17	3	14	0	426.56965	0.00002	0.0002
17	3	14	1	18	3	15	0	426.38466	-0.00004	0.0002
18	3	15	1	19	3	16	0	426.19876	-0.00004	0.0002
19	3	16	1	20	3	17	0	426.01186	-0.00009	0.0002
20	3	17	1	21	3	18	0	425.82409	-0.00004	0.0002
21	3	18	1	22	3	19	0	425.63541	0.00006	0.0002
22	3	19	1	23	3	20	0	425.44561	-0.00002	0.0002
23	3	20	1	24	3	21	0	425.25502	0.00006	0.0002
24	3	21	1	25	3	22	0	425.06333	0.00001	0.0002
25	3	22	1	26	3	23	0	424.87042	-0.00034	0.0002
26	3	23	1	27	3	24	0	424.67743	0.00018	0.0002
27	3	24	1	28	3	25	0	424.48282	0.00001	0.0002
28	3	25	1	29	3	26	0	424.28717	-0.00026	0.0002
29	3	26	1	30	3	27	0	424.09109	-0.00004	0.0002
30	3	27	1	31	3	28	0	423.89385	-0.00004	0.0002
31	3	28	1	32	3	29	0	423.69572	-0.00002	0.0002
32	3	29	1	33	3	30	0	423.49661	-0.00006	0.0002
33	3	30	1	34	3	31	0	423.29680	0.00010	0.0002
34	3	31	1	35	3	32	0	423.09585	0.00003	0.0002
35	3	32	1	36	3	33	0	422.89394	-0.00008	0.0002
36	3	33	1	37	3	34	0	422.69141	0.00006	0.0002
37	3	34	1	38	3	35	0	422.48780	0.00003	0.0002
38	3	35	1	39	3	36	0	422.28327	-0.00003	0.0002
39	3	36	1	40	3	37	0	422.07805	0.00009	0.0002
40	3	37	1	41	3	38	0	421.87167	-0.00006	0.0002
41	3	38	1	42	3	39	0	421.66464	0.00000	0.0002
42	3	39	1	43	3	40	0	421.45691	0.00023	0.0002
43	3	40	1	44	3	41	0	421.24771	-0.00015	0.0002
44	3	41	1	45	3	42	0	421.03815	-0.00003	0.0002
45	3	42	1	46	3	43	0	420.82763	-0.00002	0.0002
46	3	43	1	47	3	44	0	420.61633	0.00005	0.0002
47	3	44	1	48	3	45	0	420.40425	0.00017	0.0002
48	3	45	1	49	3	46	0	420.19110	0.00007	0.0002
49	3	46	1	50	3	47	0	419.97721	0.00005	0.0002
50	3	47	1	51	3	48	0	419.76250	0.00003	0.0002
52	3	49	1	53	3	50	0	419.33086	0.00022	0.0002
55	3	52	1	56	3	53	0	418.67708	0.00018	0.0002
9	4	5	1	10	4	6	0	427.71300	-0.00007	0.0002
10	4	6	1	11	4	7	0	427.53646	-0.00004	0.0002
11	4	7	1	12	4	8	0	427.35891	-0.00002	0.0002
12	4	8	1	13	4	9	0	427.18035	0.00000	0.0002
13	4	9	1	14	4	10	0	427.00092	0.00011	0.0002
14	4	10	1	15	4	11	0	426.82025	-0.00002	0.0002
15	4	11	1	16	4	12	0	426.63852	-0.00025	0.0002
16	4	12	1	17	4	13	0	426.45637	0.00008	0.0002
17	4	13	1	18	4	14	0	426.27296	0.00012	0.0002
18	4	14	1	19	4	15	0	426.08845	0.00003	0.0002
19	4	15	1	20	4	16	0	425.90303	-0.00001	0.0002
20	4	16	1	21	4	17	0	425.71653	-0.00017	0.0002
21	4	17	1	22	4	18	0	425.52930	-0.00010	0.0002
22	4	18	1	23	4	19	0	425.34130	0.00016	0.0002
23	4	19	1	24	4	20	0	425.15197	0.00005	0.0002
24	4	20	1	25	4	21	0	424.96178	0.00002	0.0002
25	4	21	1	26	4	22	0	424.77060	-0.00005	0.0002
26	4	22	1	27	4	23	0	424.57862	0.00002	0.0002
27	4	23	1	28	4	24	0	424.38554	-0.00007	0.0002
28	4	24	1	29	4	25	0	424.19168	0.00000	0.0002
29	4	25	1	30	4	26	0	423.99685	0.00003	0.0002
30	4	26	1	31	4	27	0	423.80109	0.00006	0.0002
31	4	27	1	32	4	28	0	423.60424	-0.00007	0.0002
32	4	28	1	33	4	29	0	423.40671	0.00003	0.0002
33	4	29	1	34	4	30	0	423.20805	-0.00009	0.0002
34	4	30	1	35	4	31	0	423.00871	0.00004	0.0002
35	4	31	1	36	4	32	0	422.80826	-0.00004	0.0002
36	4	32	1	37	4	33	0	422.60710	0.00006	0.0002
37	4	33	1	38	4	34	0	422.40490	0.00003	0.0002
38	4	34	1	39	4	35	0	422.20194	0.00012	0.0002
39	4	35	1	40	4	36	0	421.99790	0.00002	0.0002
40	4	36	1	41	4	37	0	421.79310	0.00005	0.0002
41	4	37	1	42	4	38	0	421.58709	-0.00026	0.0002
42	4	38	1	43	4	39	0	421.38082	0.00005	0.0002
43	4	39	1	44	4	40	0	421.17344	0.00010	0.0002
44	4	40	1	45	4	41	0	420.96512	0.00008	0.0002
46	4	42	1	47	4	43	0	420.54606	0.00017	0.0002
47	4	43	1	48	4	44	0	420.33514	0.00010	0.0002
48	4	44	1	49	4	45	0	420.12356	0.00021	0.0002
49	4	45	1	50	4	46	0	419.91075	-0.00008	0.0002

50	4	46	1	51	4	47	0	419.69745	-0.00004	0.0002
51	4	47	1	52	4	48	0	419.48340	0.00007	0.0002
52	4	48	1	53	4	49	0	419.26850	0.00014	0.0002
53	4	49	1	54	4	50	0	419.05269	0.00012	0.0002
54	4	50	1	55	4	51	0	418.83625	0.00027	0.0002
55	4	51	1	56	4	52	0	418.61876	0.00017	0.0002
57	4	53	1	58	4	54	0	418.18178	0.00032	0.0002
10	5	5	1	11	5	6	0	427.41277	0.00015	0.0002
11	5	6	1	12	5	7	0	427.23653	-0.00009	0.0002
12	5	7	1	13	5	8	0	427.05953	-0.00005	0.0002
13	5	8	1	14	5	9	0	426.88162	0.00008	0.0002
14	5	9	1	15	5	10	0	426.70250	0.00000	0.0002
15	5	10	1	16	5	11	0	426.52259	0.00010	0.0002
16	5	11	1	17	5	12	0	426.34160	0.00010	0.0002
17	5	12	1	18	5	13	0	426.15950	-0.00003	0.0002
18	5	13	1	19	5	14	0	425.97656	-0.00003	0.0002
19	5	14	1	20	5	15	0	425.79262	-0.00008	0.0002
20	5	15	1	21	5	16	0	425.60780	-0.00003	0.0002
21	5	16	1	22	5	17	0	425.42196	-0.00004	0.0002
22	5	17	1	23	5	18	0	425.23510	-0.00011	0.0002
23	5	18	1	24	5	19	0	425.04752	0.00006	0.0002
24	5	19	1	25	5	20	0	424.85876	-0.00001	0.0002
25	5	20	1	26	5	21	0	424.66924	0.00012	0.0002
26	5	21	1	27	5	22	0	424.47840	-0.00012	0.0002
27	5	22	1	28	5	23	0	424.28717	0.00019	0.0002
28	5	23	1	29	5	24	0	424.09452	0.00002	0.0002
29	5	24	1	30	5	25	0	423.90104	-0.00004	0.0002
30	5	25	1	31	5	26	0	423.70674	0.00001	0.0002
31	5	26	1	32	5	27	0	423.51150	0.00003	0.0002
32	5	27	1	33	5	28	0	423.31535	0.00009	0.0002
33	5	28	1	34	5	29	0	423.11811	-0.00003	0.0002
34	5	29	1	35	5	30	0	422.92006	-0.00005	0.0002
35	5	30	1	36	5	31	0	422.72122	0.00005	0.0002
36	5	31	1	37	5	32	0	422.52139	0.00008	0.0002
37	5	32	1	38	5	33	0	422.32058	0.00002	0.0002
38	5	33	1	39	5	34	0	422.11888	-0.00003	0.0002
39	5	34	1	40	5	35	0	421.91640	0.00003	0.0002
40	5	35	1	41	5	36	0	421.71297	0.00003	0.0002
41	5	36	1	42	5	37	0	421.50872	0.00009	0.0002
42	5	37	1	43	5	38	0	421.30349	0.00003	0.0002
43	5	38	1	44	5	39	0	421.09757	0.00017	0.0002
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45	5	40	1	46	5	41	0	420.68279	0.00009	0.0002
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47	5	42	1	48	5	43	0	420.26459	0.00001	0.0002
48	5	43	1	49	5	44	0	420.05433	0.00007	0.0002
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50	5	45	1	51	5	46	0	419.63135	0.00025	0.0002
51	5	46	1	52	5	47	0	419.41871	0.00043	0.0002
52	5	47	1	53	5	48	0	419.20491	0.00026	0.0002
53	5	48	1	54	5	49	0	418.99033	0.00013	0.0002
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19	6	13	1	20	6	14	0	425.68092	0.00001	0.0002
20	6	14	1	21	6	15	0	425.49742	-0.00011	0.0002
21	6	15	1	22	6	16	0	425.31307	-0.00009	0.0002
22	6	16	1	23	6	17	0	425.12783	-0.00001	0.0002
23	6	17	1	24	6	18	0	424.94151	-0.00006	0.0002
24	6	18	1	25	6	19	0	424.75430	-0.00003	0.0002
25	6	19	1	26	6	20	0	424.56613	-0.00001	0.0002
26	6	20	1	27	6	21	0	424.37699	-0.00001	0.0002
27	6	21	1	28	6	22	0	424.18692	0.00000	0.0002
29	6	23	1	30	6	24	0	423.80369	-0.00024	0.0002
30	6	24	1	31	6	25	0	423.61095	-0.00007	0.0002
31	6	25	1	32	6	26	0	423.41700	-0.00018	0.0002
32	6	26	1	33	6	27	0	423.22259	0.00017	0.0002
33	6	27	1	34	6	28	0	423.02691	0.00018	0.0002
34	6	28	1	35	6	29	0	422.83005	-0.00007	0.0002
35	6	29	1	36	6	30	0	422.63254	-0.00006	0.0002
36	6	30	1	37	6	31	0	422.43421	0.00004	0.0002
37	6	31	1	38	6	32	0	422.23495	0.00012	0.0002
38	6	32	1	39	6	33	0	422.03435	-0.00024	0.0002
42	6	36	1	43	6	37	0	421.22481	0.00009	0.0002
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25	7	18	1	26	7	19	0	424.46181	0.00005	0.0002
26	7	19	1	27	7	20	0	424.27398	-0.00009	0.0002
27	7	20	1	28	7	21	0	424.08548	0.00004	0.0002
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35	7	28	1	36	7	29	0	422.54267	0.00004	0.0002
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43	7	36	1	44	7	37	0	420.94144	0.00014	0.0002
44	7	37	1	45	7	38	0	420.73714	0.00001	0.0002
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49	7	42	1	50	7	43	0	419.70344	0.00005	0.0002
50	7	43	1	51	7	44	0	419.49424	0.00014	0.0002
51	7	44	1	52	7	45	0	419.28416	0.00020	0.0002
52	7	45	1	53	7	46	0	419.07318	0.00018	0.0002
53	7	46	1	54	7	47	0	418.86100	-0.00022	0.0002
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55	7	48	1	56	7	49	0	418.43543	0.00024	0.0002
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13	8	5	1	14	8	6	0	426.51428	0.00015	0.0002
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20	8	12	1	21	8	13	0	425.27260	-0.00004	0.0002
21	8	13	1	22	8	14	0	425.09112	-0.00012	0.0002
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37	8	29	1	38	8	30	0	422.05933	0.00019	0.0002
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16	9	7	1	17	9	8	0	425.86782	0.00005	0.0002
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31	9	22	1	32	9	23	0	423.12583	-0.00003	0.0002
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56	9	47	1	57	9	48	0	418.09470	0.00037	0.0002
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27	10	17	1	28	10	18	0	423.77259	0.00005	0.0002
28	10	18	1	29	10	19	0	423.58719	-0.00012	0.0002
30	10	20	1	31	10	21	0	423.21406	0.00005	0.0002
31	10	21	1	32	10	22	0	423.02584	-0.00010	0.0002
32	10	22	1	33	10	23	0	422.83693	0.00001	0.0002
33	10	23	1	34	10	24	0	422.64697	0.00001	0.0002
34	10	24	1	35	10	25	0	422.45589	-0.00019	0.0002
35	10	25	1	36	10	26	0	422.26417	-0.00009	0.0002
36	10	26	1	37	10	27	0	422.07152	0.00002	0.0002
37	10	27	1	38	10	28	0	421.87777	-0.00006	0.0002
38	10	28	1	39	10	29	0	421.68312	-0.00012	0.0002
39	10	29	1	40	10	30	0	421.48782	0.00010	0.0002
40	10	30	1	41	10	31	0	421.29132	0.00002	0.0002
41	10	31	1	42	10	32	0	421.09405	0.00008	0.0002
42	10	32	1	43	10	33	0	420.89580	0.00005	0.0002
43	10	33	1	44	10	34	0	420.69669	0.00006	0.0002
44	10	34	1	45	10	35	0	420.49678	0.00017	0.0002
45	10	35	1	46	10	36	0	420.29573	0.00002	0.0002
46	10	36	1	47	10	37	0	420.09403	0.00009	0.0002
47	10	37	1	48	10	38	0	419.89116	-0.00012	0.0002
48	10	38	1	49	10	39	0	419.68797	0.00022	0.0002
49	10	39	1	50	10	40	0	419.48340	0.00003	0.0002
50	10	40	1	51	10	41	0	419.27815	0.00003	0.0002
51	10	41	1	52	10	42	0	419.07192	-0.00010	0.0002
53	10	43	1	54	10	44	0	418.65730	0.00002	0.0002
54	10	44	1	55	10	45	0	418.44857	-0.00009	0.0002
55	10	45	1	56	10	46	0	418.23899	-0.00022	0.0002
56	10	46	1	57	10	47	0	418.02899	0.00006	0.0002
57	10	47	1	58	10	48	0	417.81804	0.00020	0.0002
58	10	48	1	59	10	49	0	417.60620	0.00027	0.0002
59	10	49	1	60	10	50	0	417.39329	0.00007	0.0002
60	10	50	1	61	10	51	0	417.17982	0.00011	0.0002
61	10	51	1	62	10	52	0	416.96586	0.00045	0.0002
5	0	5	1	4	0	4	0	430.96132	0.00009	0.0002
6	0	6	1	5	0	5	0	431.12952	-0.00009	0.0002
7	0	7	1	6	0	6	0	431.29667	-0.00035	0.0002
8	0	8	1	7	0	7	0	431.46356	0.00012	0.0002
9	0	9	1	8	0	8	0	431.62919	0.00031	0.0002
10	0	10	1	9	0	9	0	431.79341	0.00007	0.0002
11	0	11	1	10	0	10	0	431.95679	-0.00004	0.0002
12	0	12	1	11	0	11	0	432.11912	-0.00022	0.0002
13	0	13	1	12	0	12	0	432.28077	-0.00011	0.0002
14	0	14	1	13	0	13	0	432.44143	-0.00001	0.0002
15	0	15	1	14	0	14	0	432.60101	-0.00003	0.0002
16	0	16	1	15	0	15	0	432.75966	-0.00001	0.0002
17	0	17	1	16	0	16	0	432.91732	-0.00001	0.0002
18	0	18	1	17	0	17	0	433.07401	-0.00002	0.0002
19	0	19	1	18	0	18	0	433.22960	-0.00016	0.0002
20	0	20	1	19	0	19	0	433.38461	0.00006	0.0002
21	0	21	1	20	0	20	0	433.53832	-0.00006	0.0002
22	0	22	1	21	0	21	0	433.69122	-0.00003	0.0002
23	0	23	1	22	0	22	0	433.84317	0.00000	0.0002
24	0	24	1	23	0	23	0	433.99400	-0.00016	0.0002
25	0	25	1	24	0	24	0	434.14415	-0.00005	0.0002
26	0	26	1	25	0	25	0	434.29336	0.00005	0.0002
27	0	27	1	26	0	26	0	434.44148	0.00001	0.0002
28	0	28	1	27	0	27	0	434.58863	-0.00009	0.0002
29	0	29	1	28	0	28	0	434.73499	-0.00004	0.0002
30	0	30	1	29	0	29	0	434.88053	0.00010	0.0002
31	0	31	1	30	0	30	0	435.02487	-0.00004	0.0002
32	0	32	1	31	0	31	0	435.16854	0.00007	0.0002
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34	0	34	1	33	0	33	0	435.45272	-0.00016	0.0002
35	0	35	1	34	0	34	0	435.59373	0.00000	0.0002
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37	0	37	1	36	0	36	0	435.87265	-0.00011	0.0002
38	0	38	1	37	0	37	0	436.01097	0.00002	0.0002
39	0	39	1	38	0	38	0	436.14829	0.00003	0.0002
40	0	40	1	39	0	39	0	436.28460	-0.00009	0.0002
41	0	41	1	40	0	40	0	436.42014	-0.00011	0.0002
42	0	42	1	41	0	41	0	436.55486	-0.00009	0.0002

43	0	43	1	42	0	42	0	436.68880	0.00000	0.0002
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49	0	49	1	48	0	48	0	437.47393	-0.00020	0.0002
50	0	50	1	49	0	49	0	437.60190	-0.00021	0.0002
51	0	51	1	50	0	50	0	437.72920	-0.00009	0.0002
52	0	52	1	51	0	51	0	437.85546	-0.00020	0.0002
53	0	53	1	52	0	52	0	437.98100	-0.00022	0.0002
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57	0	57	1	56	0	56	0	438.47536	-0.00020	0.0002
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59	0	59	1	58	0	58	0	438.71785	-0.00021	0.0002
4	1	3	1	3	1	2	0	430.93009	-0.00032	0.0002
5	1	4	1	4	1	3	0	431.10005	-0.00022	0.0002
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17	1	16	1	16	1	15	0	433.07401	-0.00009	0.0002
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19	1	18	1	18	1	17	0	433.38926	-0.00022	0.0002
20	1	19	1	19	1	18	0	433.54575	0.00002	0.0002
21	1	20	1	20	1	19	0	433.70105	0.00003	0.0002
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11	4	7	1	10	4	6	0	432.53977	-0.00018	0.0002
12	4	8	1	11	4	7	0	432.70838	0.00006	0.0002
13	4	9	1	12	4	8	0	432.87572	-0.00001	0.0002
14	4	10	1	13	4	9	0	433.04218	0.00000	0.0002
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16	4	12	1	15	4	11	0	433.37220	0.00001	0.0002
17	4	13	1	16	4	12	0	433.53571	-0.00003	0.0002
18	4	14	1	17	4	13	0	433.69832	0.00000	0.0002
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21	4	17	1	20	4	16	0	434.18037	0.00011	0.0002
22	4	18	1	21	4	17	0	434.33888	-0.00010	0.0002
23	4	19	1	22	4	18	0	434.49704	0.00030	0.0002
24	4	20	1	23	4	19	0	434.65382	0.00028	0.0002
25	4	21	1	24	4	20	0	434.80973	0.00034	0.0002
26	4	22	1	25	4	21	0	434.96440	0.00011	0.0002
27	4	23	1	26	4	22	0	435.11832	0.00009	0.0002
28	4	24	1	27	4	23	0	435.27129	0.00006	0.0002
29	4	25	1	28	4	24	0	435.42329	0.00000	0.0002
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32	4	28	1	31	4	27	0	435.87386	-0.00002	0.0002
33	4	29	1	32	4	28	0	436.02219	-0.00002	0.0002
34	4	30	1	33	4	29	0	436.16964	0.00001	0.0002
35	4	31	1	34	4	30	0	436.31602	-0.00011	0.0002
36	4	32	1	35	4	31	0	436.46181	0.00010	0.0002
37	4	33	1	36	4	32	0	436.60642	0.00003	0.0002
38	4	34	1	37	4	33	0	436.75023	0.00006	0.0002
39	4	35	1	38	4	34	0	436.89300	-0.00005	0.0002
40	4	36	1	39	4	35	0	437.03506	0.00003	0.0002
41	4	37	1	40	4	36	0	437.17612	0.00000	0.0002
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47	4	43	1	46	4	42	0	438.00402	-0.00032	0.0002
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56	4	52	1	55	4	51	0	439.18948	-0.00015	0.0002
57	4	53	1	56	4	52	0	439.31725	-0.00001	0.0002
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27	5	22	1	26	5	21	0	435.28392	0.00011	0.0002
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47	8	39	1	46	8	38	0	438.77008	0.00011	0.0002
48	8	40	1	47	8	39	0	438.91051	0.00014	0.0002
49	8	41	1	48	8	40	0	439.04974	-0.00017	0.0002
51	8	43	1	50	8	42	0	439.32655	0.00013	0.0002
52	8	44	1	51	8	43	0	439.46345	0.00006	0.0002
53	8	45	1	52	8	44	0	439.59940	-0.00012	0.0002
54	8	46	1	53	8	45	0	439.73483	0.00003	0.0002
55	8	47	1	54	8	46	0	439.86923	-0.00003	0.0002
56	8	48	1	55	8	47	0	440.00275	-0.00013	0.0002
57	8	49	1	56	8	48	0	440.13590	0.00020	0.0002
58	8	50	1	57	8	49	0	440.26769	0.00001	0.0002
59	8	51	1	58	8	50	0	440.39912	0.00025	0.0002
60	8	52	1	59	8	51	0	440.52932	0.00008	0.0002
61	8	53	1	60	8	52	0	440.65884	0.00001	0.0002
62	8	54	1	61	8	53	0	440.78750	-0.00012	0.0002
63	8	55	1	62	8	54	0	440.91551	-0.00011	0.0002
64	8	56	1	63	8	55	0	441.04279	-0.00006	0.0002
65	8	57	1	64	8	56	0	441.16922	-0.00008	0.0002
66	8	58	1	65	8	57	0	441.29518	0.00019	0.0002
67	8	59	1	66	8	58	0	441.41981	-0.00011	0.0002

68	8	60	1	67	8	59	0	441.54399	-0.00010	0.0002
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17	9	8	1	16	9	7	0	434.27922	0.00012	0.0002
18	9	9	1	17	9	8	0	434.44832	0.00000	0.0002
19	9	10	1	18	9	9	0	434.61656	-0.00023	0.0002
20	9	11	1	19	9	10	0	434.78442	-0.00001	0.0002
21	9	12	1	20	9	11	0	434.95114	-0.00005	0.0002
22	9	13	1	21	9	12	0	435.11707	0.00005	0.0002
23	9	14	1	22	9	13	0	435.28208	0.00015	0.0002
24	9	15	1	23	9	14	0	435.44607	0.00017	0.0002
25	9	16	1	24	9	15	0	435.60894	0.00003	0.0002
26	9	17	1	25	9	16	0	435.77072	-0.00026	0.0002
27	9	18	1	26	9	17	0	435.93201	-0.00009	0.0002
28	9	19	1	27	9	18	0	436.09241	0.00014	0.0002
29	9	20	1	28	9	19	0	436.25187	0.00039	0.0002
30	9	21	1	29	9	20	0	436.40989	0.00015	0.0002
31	9	22	1	30	9	21	0	436.56753	0.00048	0.0002
32	9	23	1	31	9	22	0	436.72343	0.00001	0.0002
33	9	24	1	32	9	23	0	436.87889	0.00005	0.0002
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35	9	26	1	34	9	25	0	437.18708	0.00020	0.0002
36	9	27	1	35	9	26	0	437.33951	0.00002	0.0002
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38	9	29	1	37	9	28	0	437.64193	-0.00001	0.0002
39	9	30	1	38	9	29	0	437.79177	0.00000	0.0002
40	9	31	1	39	9	30	0	437.94051	-0.00018	0.0002
41	9	32	1	40	9	31	0	438.08875	0.00004	0.0002
42	9	33	1	41	9	32	0	438.23576	-0.00004	0.0002
43	9	34	1	42	9	33	0	438.38201	0.00001	0.0002
45	9	36	1	44	9	35	0	438.67137	-0.00032	0.0002
46	9	37	1	45	9	36	0	438.81511	-0.00010	0.0002
47	9	38	1	46	9	37	0	438.95742	-0.00042	0.0002
48	9	39	1	47	9	38	0	439.09951	-0.00008	0.0002
49	9	40	1	48	9	39	0	439.24036	-0.00010	0.0002
50	9	41	1	49	9	40	0	439.38053	0.00005	0.0002
51	9	42	1	50	9	41	0	439.51979	0.00016	0.0002
52	9	43	1	51	9	42	0	439.65789	-0.00003	0.0002
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19	10	9	1	18	10	8	0	434.76488	-0.00009	0.0002
21	10	11	1	20	10	10	0	435.10155	-0.00016	0.0002
22	10	12	1	21	10	11	0	435.26881	-0.00003	0.0002
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25	10	15	1	24	10	14	0	435.76487	0.00006	0.0002
26	10	16	1	25	10	15	0	435.92813	-0.00014	0.0002
27	10	17	1	26	10	16	0	436.09081	0.00002	0.0002
29	10	19	1	28	10	18	0	436.41284	-0.00013	0.0002
30	10	20	1	29	10	19	0	436.57295	0.00030	0.0002
31	10	21	1	30	10	20	0	436.73159	0.00021	0.0002
32	10	22	1	31	10	21	0	436.88927	0.00012	0.0002
33	10	23	1	32	10	22	0	437.04597	-0.00002	0.0002
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35	10	25	1	34	10	24	0	437.35707	0.00025	0.0002
36	10	26	1	35	10	25	0	437.51070	-0.00014	0.0002
37	10	27	1	36	10	26	0	437.66401	0.00009	0.0002
38	10	28	1	37	10	27	0	437.81625	0.00018	0.0002
40	10	30	1	39	10	29	0	438.11768	0.00008	0.0002
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43	10	33	1	42	10	32	0	438.56288	-0.00015	0.0002
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48	10	38	1	47	10	37	0	439.28768	0.00028	0.0002
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22	11	11	1	23	11	12	0	424.56980	0.00002	0.0002
23	11	12	1	24	11	13	0	424.39071	-0.00015	0.0002
24	11	13	1	25	11	14	0	424.21114	0.00017	0.0002
25	11	14	1	26	11	15	0	424.03005	-0.00003	0.0002
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28	11	17	1	29	11	18	0	423.48160	-0.00007	0.0002
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33	11	22	1	34	11	23	0	422.54855	0.00003	0.0002
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39	11	28	1	40	11	29	0	421.39784	0.00004	0.0002
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42	11	31	1	43	11	32	0	420.81022	0.00019	0.0002
43	11	32	1	44	11	33	0	420.61231	0.00002	0.0002
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47	11	36	1	48	11	37	0	419.81243	-0.00002	0.0002
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53	11	42	1	54	11	43	0	418.58652	-0.00002	0.0002
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59	11	48	1	60	11	49	0	417.33072	0.00036	0.0002
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62	11	51	1	63	11	52	0	416.69128	-0.00004	0.0002
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66	11	55	1	67	11	56	0	415.82861	0.00031	0.0002
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21	12	9	1	22	12	10	0	424.63029	0.00000	0.0002
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26	12	14	1	27	12	15	0	423.73826	-0.00004	0.0002
27	12	15	1	28	12	16	0	423.55692	-0.00003	0.0002
28	12	16	1	29	12	17	0	423.37461	-0.00002	0.0002
29	12	17	1	30	12	18	0	423.19130	-0.00006	0.0002

30	12	18	1	31	12	19	0	423.00713	0.00001	0.0002
31	12	19	1	32	12	20	0	422.82183	-0.00010	0.0002
32	12	20	1	33	12	21	0	422.63588	0.00010	0.0002
33	12	21	1	34	12	22	0	422.44870	0.00000	0.0002
34	12	22	1	35	12	23	0	422.26060	-0.00007	0.0002
35	12	23	1	36	12	24	0	422.07152	-0.00017	0.0002
36	12	24	1	37	12	25	0	421.88183	0.00004	0.0002
37	12	25	1	38	12	26	0	421.69103	0.00008	0.0002
38	12	26	1	39	12	27	0	421.49920	0.00002	0.0002
39	12	27	1	40	12	28	0	421.30647	-0.00002	0.0002
40	12	28	1	41	12	29	0	421.11293	0.00005	0.0002
41	12	29	1	42	12	30	0	420.91818	-0.00018	0.0002
42	12	30	1	43	12	31	0	420.72294	0.00002	0.0002
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49	12	37	1	50	12	38	0	419.32961	-0.00016	0.0002
50	12	38	1	51	12	39	0	419.12730	0.00008	0.0002
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53	12	41	1	54	12	42	0	418.51448	0.00005	0.0002
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56	12	44	1	57	12	45	0	417.89396	-0.00005	0.0002
57	12	45	1	58	12	46	0	417.68565	0.00011	0.0002
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26	13	13	1	27	13	14	0	423.62692	-0.00006	0.0002
27	13	14	1	28	13	15	0	423.44727	0.00019	0.0002
28	13	15	1	29	13	16	0	423.26603	-0.00020	0.0002
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47	14	33	1	48	14	34	0	419.56770	-0.00001	0.0002
48	14	34	1	49	14	35	0	419.36965	0.00001	0.0002
49	14	35	1	50	14	36	0	419.17064	-0.00005	0.0002
53	14	39	1	54	14	40	0	418.36613	0.00002	0.0002
54	14	40	1	55	14	41	0	418.16305	0.00024	0.0002
55	14	41	1	56	14	42	0	417.95872	0.00007	0.0002
56	14	42	1	57	14	43	0	417.75370	0.00005	0.0002
57	14	43	1	58	14	44	0	417.54826	0.00047	0.0002
58	14	44	1	59	14	45	0	417.34097	-0.00014	0.0002
59	14	45	1	60	14	46	0	417.13365	0.00006	0.0002
62	14	48	1	63	14	49	0	416.50630	0.00016	0.0002
66	14	52	1	67	14	53	0	415.65834	0.00005	0.0002
67	14	53	1	68	14	54	0	415.44437	0.00001	0.0002
24	15	9	1	25	15	10	0	423.75089	0.00007	0.0002
25	15	10	1	26	15	11	0	423.57601	-0.00003	0.0002
26	15	11	1	27	15	12	0	423.40006	-0.00010	0.0002
28	15	13	1	29	15	14	0	423.04522	-0.00009	0.0002
29	15	14	1	30	15	15	0	422.86645	0.00006	0.0002
30	15	15	1	31	15	16	0	422.68628	-0.00021	0.0002
31	15	16	1	32	15	17	0	422.50559	-0.00003	0.0002
32	15	17	1	33	15	18	0	422.32386	0.00007	0.0002
33	15	18	1	34	15	19	0	422.14115	0.00016	0.0002
34	15	19	1	35	15	20	0	421.95719	-0.00006	0.0002
35	15	20	1	36	15	21	0	421.77260	0.00004	0.0002
36	15	21	1	37	15	22	0	421.58709	0.00017	0.0002
37	15	22	1	38	15	23	0	421.40036	0.00003	0.0002
38	15	23	1	39	15	24	0	421.21256	-0.00024	0.0002
39	15	24	1	40	15	25	0	421.02436	0.00002	0.0002
40	15	25	1	41	15	26	0	420.83481	-0.00013	0.0002
41	15	26	1	42	15	27	0	420.64449	-0.00013	0.0002
42	15	27	1	43	15	28	0	420.45344	0.00007	0.0002
43	15	28	1	44	15	29	0	420.26087	-0.00033	0.0002
44	15	29	1	45	15	30	0	420.06806	-0.00006	0.0002
46	15	31	1	47	15	32	0	419.67895	-0.00026	0.0002
48	15	33	1	49	15	34	0	419.28668	-0.00003	0.0002
50	15	35	1	51	15	36	0	418.89035	-0.00028	0.0002
51	15	36	1	52	15	37	0	418.69108	-0.00019	0.0002
52	15	37	1	53	15	38	0	418.49089	-0.00015	0.0002
54	15	39	1	55	15	40	0	418.08798	0.00003	0.0002
55	15	40	1	56	15	41	0	417.88489	-0.00023	0.0002
56	15	41	1	57	15	42	0	417.68133	-0.00010	0.0002
58	15	43	1	59	15	44	0	417.27163	0.00011	0.0002
59	15	44	1	60	15	45	0	417.06524	-0.00006	0.0002
60	15	45	1	61	15	46	0	416.85821	-0.00005	0.0002
61	15	46	1	62	15	47	0	416.65025	-0.00015	0.0002
63	15	48	1	64	15	49	0	416.23242	0.00020	0.0002
27	16	11	1	28	16	12	0	423.10941	0.00019	0.0002
28	16	12	1	29	16	13	0	422.93271	-0.00009	0.0002
29	16	13	1	30	16	14	0	422.75531	-0.00004	0.0002
30	16	14	1	31	16	15	0	422.57704	0.00013	0.0002
31	16	15	1	32	16	16	0	422.39755	0.00007	0.0002
32	16	16	1	33	16	17	0	422.21697	-0.00011	0.0002
33	16	17	1	34	16	18	0	422.03582	0.00009	0.0002
34	16	18	1	35	16	19	0	421.85337	-0.00004	0.0002
35	16	19	1	36	16	20	0	421.67003	-0.00011	0.0002
36	16	20	1	37	16	21	0	421.48597	0.00006	0.0002
37	16	21	1	38	16	22	0	421.30088	0.00014	0.0002
38	16	22	1	39	16	23	0	421.11475	0.00012	0.0002
39	16	23	1	40	16	24	0	420.92758	0.00001	0.0002
40	16	24	1	41	16	25	0	420.73967	0.00010	0.0002
41	16	25	1	42	16	26	0	420.55063	-0.00002	0.0002
42	16	26	1	43	16	27	0	420.36092	0.00012	0.0002
43	16	27	1	44	16	28	0	420.17001	-0.00001	0.0002
45	16	29	1	46	16	30	0	419.78590	0.00019	0.0002
46	16	30	1	47	16	31	0	419.59211	-0.00007	0.0002
47	16	31	1	48	16	32	0	419.39761	-0.00014	0.0002
48	16	32	1	49	16	33	0	419.20221	-0.00021	0.0002
49	16	33	1	50	16	34	0	419.00617	-0.00001	0.0002
52	16	36	1	53	16	37	0	418.41190	-0.00026	0.0002
53	16	37	1	54	16	38	0	418.21215	-0.00023	0.0002
55	16	39	1	56	16	40	0	417.81007	-0.00017	0.0002
56	16	40	1	57	16	41	0	417.60771	-0.00016	0.0002
57	16	41	1	58	16	42	0	417.40461	-0.00004	0.0002
29	17	12	1	30	17	13	0	422.64293	-0.00002	0.0002
30	17	13	1	31	17	14	0	422.46608	0.00010	0.0002
31	17	14	1	32	17	15	0	422.28808	0.00007	0.0002

32	17	15	1	33	17	16	0	422.10921	0.00016	0.0002
33	17	16	1	34	17	17	0	421.92920	0.00007	0.0002
35	17	18	1	36	17	19	0	421.56629	-0.00009	0.0002
36	17	19	1	37	17	20	0	421.38349	-0.00009	0.0002
37	17	20	1	38	17	21	0	421.19991	0.00009	0.0002
38	17	21	1	39	17	22	0	421.01506	-0.00005	0.0002
40	17	23	1	41	17	24	0	420.64297	0.00010	0.0002
41	17	24	1	42	17	25	0	420.45513	-0.00022	0.0002
43	17	26	1	44	17	27	0	420.07759	0.00009	0.0002
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45	17	28	1	46	17	29	0	419.69596	0.00000	0.0002
46	17	29	1	47	17	30	0	419.50363	-0.00018	0.0002
49	17	32	1	50	17	33	0	418.92198	0.00006	0.0002
50	17	33	1	51	17	34	0	418.72616	0.00001	0.0002
51	17	34	1	52	17	35	0	418.52949	0.00000	0.0002
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28	18	10	1	29	18	11	0	422.70376	0.00030	0.0002
29	18	11	1	30	18	12	0	422.52907	-0.00006	0.0002
30	18	12	1	31	18	13	0	422.35360	-0.00009	0.0002
31	18	13	1	32	18	14	0	422.17731	0.00012	0.0002
32	18	14	1	33	18	15	0	422.00000	0.00030	0.0002
33	18	15	1	34	18	16	0	421.82104	-0.00016	0.0002
34	18	16	1	35	18	17	0	421.64169	-0.00006	0.0002
35	18	17	1	36	18	18	0	421.46140	0.00009	0.0002
36	18	18	1	37	18	19	0	421.27987	-0.00005	0.0002
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40	18	22	1	41	18	23	0	420.54480	-0.00004	0.0002
41	18	23	1	42	18	24	0	420.35862	-0.00009	0.0002
43	18	25	1	44	18	26	0	419.98375	0.00010	0.0002
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49	18	31	1	50	18	32	0	418.83625	-0.00006	0.0002
50	18	32	1	51	18	33	0	418.64197	0.00007	0.0002
51	18	33	1	52	18	34	0	418.44647	-0.00013	0.0002
53	18	35	1	54	18	36	0	418.05326	-0.00004	0.0002
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55	18	37	1	56	18	38	0	417.65628	-0.00020	0.0002
56	18	38	1	57	18	39	0	417.45657	-0.00019	0.0002
57	18	39	1	58	18	40	0	417.25610	-0.00007	0.0002
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59	18	41	1	60	18	42	0	416.85209	-0.00033	0.0002
60	18	42	1	61	18	43	0	416.64881	-0.00046	0.0002
61	18	43	1	62	18	44	0	416.44531	0.00004	0.0002
27	19	8	1	28	19	9	0	422.75740	0.00044	0.0002
28	19	9	1	29	19	10	0	422.58634	0.00007	0.0002
29	19	10	1	30	19	11	0	422.41355	-0.00022	0.0002
30	19	11	1	31	19	12	0	422.23992	-0.00005	0.0002
31	19	12	1	32	19	13	0	422.06499	-0.00003	0.0002
32	19	13	1	33	19	14	0	421.88908	0.00007	0.0002
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34	19	15	1	35	19	16	0	421.53393	-0.00001	0.0002
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41	19	22	1	42	19	23	0	420.26087	0.00011	0.0002
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43	19	24	1	44	19	25	0	419.88846	-0.00002	0.0002
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47	19	28	1	48	19	29	0	419.13264	-0.00011	0.0002
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30	20	10	1	31	20	11	0	422.12480	0.00011	0.0002
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47	11	36	1	46	11	35	0	439.32929	-0.00010	0.0002
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49	11	38	1	48	11	37	0	439.61728	-0.00010	0.0002
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22	12	10	1	21	12	9	0	435.56974	-0.00010	0.0002

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25	12	13	1	24	12	12	0	436.07313	0.00002	0.0002
26	12	14	1	25	12	13	0	436.23891	-0.00031	0.0002
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52	12	40	1	51	12	39	0	440.23321	0.00006	0.0002
53	12	41	1	52	12	40	0	440.37444	-0.00010	0.0002
54	12	42	1	53	12	41	0	440.51515	0.00008	0.0002
55	12	43	1	54	12	42	0	440.65497	0.00023	0.0002
56	12	44	1	55	12	43	0	440.79347	-0.00008	0.0002
57	12	45	1	56	12	44	0	440.93143	-0.00009	0.0002
59	12	47	1	58	12	46	0	441.20484	-0.00011	0.0002
60	12	48	1	59	12	47	0	441.34031	-0.00010	0.0002
61	12	49	1	60	12	48	0	441.47493	-0.00012	0.0002
63	12	51	1	62	12	50	0	441.74185	-0.00006	0.0002
65	12	53	1	64	12	52	0	442.00565	0.00011	0.0002
66	12	54	1	65	12	53	0	442.13615	-0.00002	0.0002
67	12	55	1	66	12	54	0	442.26586	-0.00015	0.0002
68	12	56	1	67	12	55	0	442.39514	0.00006	0.0002
69	12	57	1	68	12	56	0	442.52339	0.00002	0.0002
70	12	58	1	69	12	57	0	442.65087	-0.00003	0.0002
72	12	60	1	71	12	59	0	442.90398	0.00030	0.0002
73	12	61	1	72	12	60	0	443.02897	0.00002	0.0002
74	12	62	1	73	12	61	0	443.15339	-0.00008	0.0002
22	13	9	1	21	13	8	0	435.71995	0.00005	0.0002
23	13	10	1	22	13	9	0	435.88905	-0.00002	0.0002
24	13	11	1	23	13	10	0	436.05823	0.00046	0.0002
25	13	12	1	24	13	11	0	436.22608	0.00026	0.0002
26	13	13	1	25	13	12	0	436.39306	-0.00005	0.0002
28	13	15	1	27	13	14	0	436.72509	-0.00006	0.0002
30	13	17	1	29	13	16	0	437.05345	-0.00017	0.0002
32	13	19	1	31	13	18	0	437.37836	-0.00005	0.0002
35	13	22	1	34	13	21	0	437.85831	-0.00026	0.0002
38	13	25	1	37	13	24	0	438.32998	-0.00032	0.0002
39	13	26	1	38	13	25	0	438.48520	-0.00047	0.0002
40	13	27	1	39	13	26	0	438.64028	0.00017	0.0002
41	13	28	1	40	13	27	0	438.79388	0.00025	0.0002
42	13	29	1	41	13	28	0	438.94651	0.00030	0.0002
43	13	30	1	42	13	29	0	439.09789	0.00001	0.0002
44	13	31	1	43	13	30	0	439.24865	0.00001	0.0002
45	13	32	1	44	13	31	0	439.39855	0.00008	0.0002
46	13	33	1	45	13	32	0	439.54734	-0.00006	0.0002
47	13	34	1	46	13	33	0	439.69544	0.00002	0.0002
48	13	35	1	47	13	34	0	439.84269	0.00015	0.0002
51	13	38	1	50	13	37	0	440.27865	0.00007	0.0002
52	13	39	1	51	13	38	0	440.42230	0.00015	0.0002
53	13	40	1	52	13	39	0	440.56512	0.00027	0.0002
54	13	41	1	53	13	40	0	440.70691	0.00023	0.0002
55	13	42	1	54	13	41	0	440.84767	0.00002	0.0002
56	13	43	1	55	13	42	0	440.98771	-0.00005	0.0002
57	13	44	1	56	13	43	0	441.12735	0.00034	0.0002
23	14	9	1	22	14	8	0	436.03996	-0.00006	0.0002
24	14	10	1	23	14	9	0	436.20913	-0.00001	0.0002
25	14	11	1	24	14	10	0	436.37815	0.00018	0.0002
26	14	12	1	25	14	11	0	436.54626	0.00004	0.0002
27	14	13	1	26	14	12	0	436.71377	-0.00002	0.0002
28	14	14	1	27	14	13	0	436.88037	-0.00019	0.0002
33	14	19	1	32	14	18	0	437.70130	-0.00002	0.0002
34	14	20	1	33	14	19	0	437.86252	-0.00021	0.0002
35	14	21	1	34	14	20	0	438.02326	0.00004	0.0002
36	14	22	1	35	14	21	0	438.18277	0.00002	0.0002
37	14	23	1	36	14	22	0	438.34145	0.00008	0.0002
39	14	25	1	38	14	24	0	438.65592	0.00014	0.0002
41	14	27	1	40	14	26	0	438.96660	0.00013	0.0002
42	14	28	1	41	14	27	0	439.12044	0.00001	0.0002
43	14	29	1	42	14	28	0	439.27350	0.00005	0.0002
44	14	30	1	43	14	29	0	439.42558	0.00002	0.0002
45	14	31	1	44	14	30	0	439.57686	0.00011	0.0002
46	14	32	1	45	14	31	0	439.72674	-0.00029	0.0002
47	14	33	1	46	14	32	0	439.87638	-0.00002	0.0002
48	14	34	1	47	14	33	0	440.02486	0.00000	0.0002
49	14	35	1	48	14	34	0	440.17250	0.00007	0.0002
50	14	36	1	49	14	35	0	440.31909	0.00000	0.0002
51	14	37	1	50	14	36	0	440.46477	-0.00011	0.0002
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53	14	39	1	52	14	38	0	440.75388	0.00010	0.0002
55	14	41	1	54	14	40	0	441.03917	-0.00003	0.0002
56	14	42	1	55	14	41	0	441.18068	0.00007	0.0002
57	14	43	1	56	14	42	0	441.32113	-0.00002	0.0002
59	14	45	1	58	14	44	0	441.59974	0.00004	0.0002
61	14	47	1	60	14	46	0	441.87506	0.00018	0.0002
24	15	9	1	23	15	8	0	436.36118	0.00002	0.0002
25	15	10	1	24	15	9	0	436.53010	0.00002	0.0002
26	15	11	1	25	15	10	0	436.69883	-0.00012	0.0002
27	15	12	1	26	15	11	0	436.86743	0.00006	0.0002
28	15	13	1	27	15	12	0	437.03506	-0.00011	0.0002
29	15	14	1	28	15	13	0	437.20209	-0.00014	0.0002
31	15	16	1	30	15	15	0	437.53360	-0.00030	0.0002
32	15	17	1	31	15	16	0	437.69840	-0.00004	0.0002
35	15	20	1	34	15	19	0	438.18682	0.00019	0.0002
36	15	21	1	35	15	20	0	438.34750	-0.00001	0.0002
37	15	22	1	36	15	21	0	438.50751	0.00004	0.0002
38	15	23	1	37	15	22	0	438.66643	-0.00007	0.0002
39	15	24	1	38	15	23	0	438.82479	0.00019	0.0002
41	15	26	1	40	15	25	0	439.13800	-0.00001	0.0002
42	15	27	1	41	15	26	0	439.29343	0.00011	0.0002
43	15	28	1	42	15	27	0	439.44761	-0.00009	0.0002
44	15	29	1	43	15	28	0	439.60100	-0.00016	0.0002
45	15	30	1	44	15	29	0	439.75369	-0.00001	0.0002
47	15	32	1	46	15	31	0	440.05593	-0.00010	0.0002
48	15	33	1	47	15	32	0	440.20584	0.00000	0.0002
49	15	34	1	48	15	33	0	440.35472	-0.00001	0.0002
50	15	35	1	49	15	34	0	440.50270	-0.00003	0.0002
52	15	37	1	51	15	36	0	440.79577	-0.00028	0.0002
53	15	38	1	52	15	37	0	440.94137	0.00000	0.0002
54	15	39	1	53	15	38	0	441.08579	-0.00003	0.0002
56	15	41	1	55	15	40	0	441.37202	-0.00007	0.0002
57	15	42	1	56	15	41	0	441.51363	-0.00029	0.0002
58	15	43	1	57	15	42	0	441.65509	0.00019	0.0002
59	15	44	1	58	15	43	0	441.79474	-0.00029	0.0002
60	15	45	1	59	15	44	0	441.93423	-0.00008	0.0002
61	15	46	1	60	15	45	0	442.07264	-0.00011	0.0002
62	15	47	1	61	15	46	0	442.21030	-0.00004	0.0002
26	16	10	1	25	16	9	0	436.85214	0.00019	0.0002
31	16	15	1	30	16	14	0	437.69100	-0.00012	0.0002
32	16	16	1	31	16	15	0	437.85683	-0.00003	0.0002
33	16	17	1	32	16	16	0	438.02183	0.00008	0.0002
35	16	19	1	34	16	18	0	438.34891	0.00004	0.0002
38	16	22	1	37	16	21	0	438.83285	0.00014	0.0002
39	16	23	1	38	16	22	0	438.99192	-0.00023	0.0002
40	16	24	1	39	16	23	0	439.15062	-0.00005	0.0002
41	16	25	1	40	16	24	0	439.30820	-0.00005	0.0002
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48	16	32	1	47	16	31	0	440.38552	0.00004	0.0002
51	16	35	1	50	16	34	0	440.83322	-0.00023	0.0002
53	16	37	1	52	16	36	0	441.12735	-0.00026	0.0002
54	16	38	1	53	16	37	0	441.27305	-0.00032	0.0002
55	16	39	1	54	16	38	0	441.41826	0.00002	0.0002
56	16	40	1	55	16	39	0	441.56223	-0.00001	0.0002
57	16	41	1	56	16	40	0	441.70544	0.00007	0.0002
58	16	42	1	57	16	41	0	441.84718	-0.00044	0.0002
59	16	43	1	58	16	42	0	441.98904	0.00002	0.0002
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61	16	45	1	60	16	44	0	442.26923	-0.00004	0.0002
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31	17	14	1	30	17	13	0	437.84771	0.00011	0.0002
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33	17	16	1	32	17	15	0	438.18038	-0.00007	0.0002
40	17	23	1	39	17	22	0	439.31856	0.00023	0.0002
41	17	24	1	40	17	23	0	439.47729	0.00004	0.0002
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45	17	28	1	44	17	27	0	440.10358	-0.00008	0.0002
46	17	29	1	45	17	28	0	440.25800	0.00004	0.0002
47	17	30	1	46	17	29	0	440.41120	-0.00014	0.0002
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51	17	34	1	50	17	33	0	441.01568	-0.00007	0.0002
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57	17	40	1	56	17	39	0	441.89538	-0.00009	0.0002
59	17	42	1	58	17	41	0	442.18158	-0.00010	0.0002
60	17	43	1	59	17	42	0	442.32354	0.00005	0.0002
61	17	44	1	60	17	43	0	442.46418	-0.00027	0.0002
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29	18	11	1	28	18	10	0	437.66673	-0.00026	0.0002
30	18	12	1	29	18	11	0	437.83520	-0.00027	0.0002
31	18	13	1	30	18	12	0	438.00402	0.00035	0.0002
34	18	16	1	33	18	15	0	438.50472	0.00002	0.0002
36	18	18	1	35	18	17	0	438.83496	0.00007	0.0002
37	18	19	1	36	18	18	0	438.99879	0.00008	0.0002
38	18	20	1	37	18	19	0	439.16162	-0.00002	0.0002
40	18	22	1	39	18	21	0	439.48474	-0.00007	0.0002
41	18	23	1	40	18	22	0	439.64504	0.00001	0.0002
43	18	25	1	42	18	24	0	439.96274	0.00002	0.0002
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49	18	31	1	48	18	30	0	440.89365	-0.00007	0.0002
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61	18	43	1	60	18	42	0	442.65834	0.00002	0.0002
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27	9	18	1	27	9	19	0	432.43345	-0.00007	0.0002
28	9	19	1	28	9	20	0	432.55221	-0.00019	0.0002
29	9	20	1	29	9	21	0	432.67046	0.00012	0.0002
30	9	21	1	30	9	22	0	432.78726	-0.00004	0.0002
31	9	22	1	31	9	23	0	432.90340	0.00010	0.0002
32	9	23	1	32	9	24	0	433.01839	0.00003	0.0002
33	9	24	1	33	9	25	0	433.13258	0.00012	0.0002
34	9	25	1	34	9	26	0	433.24581	0.00020	0.0002
16	10	6	1	16	10	7	0	430.93554	-0.00010	0.0002
17	10	7	1	17	10	8	0	431.06797	-0.00002	0.0002
18	10	8	1	18	10	9	0	431.19863	-0.00021	0.0002
19	10	9	1	19	10	10	0	431.32849	0.00006	0.0002
20	10	10	1	20	10	11	0	431.45641	-0.00049	0.0002
21	10	11	1	21	10	12	0	431.58419	-0.00010	0.0002
22	10	12	1	22	10	13	0	431.71074	0.00011	0.0002
23	10	13	1	23	10	14	0	431.83629	0.00034	0.0002
24	10	14	1	24	10	15	0	431.96005	-0.00020	0.0002
26	10	16	1	26	10	17	0	432.20577	-0.00012	0.0002
27	10	17	1	27	10	18	0	432.32711	-0.00013	0.0002
28	10	18	1	28	10	19	0	432.44770	0.00011	0.0002
30	10	20	1	30	10	21	0	432.68522	-0.00018	0.0002
31	10	21	1	31	10	22	0	432.80272	-0.00013	0.0002
17	11	6	1	17	11	7	0	430.94320	0.00006	0.0002
18	11	7	1	18	11	8	0	431.07646	-0.00001	0.0002
19	11	8	1	19	11	9	0	431.20818	0.00014	0.0002
20	11	9	1	20	11	10	0	431.33804	-0.00023	0.0002
21	11	10	1	21	11	11	0	431.46715	-0.00017	0.0002
22	11	11	1	22	11	12	0	431.59528	0.00001	0.0002
23	11	12	1	23	11	13	0	431.72211	-0.00005	0.0002
24	11	13	1	24	11	14	0	431.84817	0.00017	0.0002

25	11	14	1	25	11	15	0	431.97322	0.00040	0.0002
26	11	15	1	26	11	16	0	432.09696	0.00031	0.0002
27	11	16	1	27	11	17	0	432.21938	-0.00010	0.0002
20	12	8	1	20	12	9	0	431.21790	0.00021	0.0002
21	12	9	1	21	12	10	0	431.34872	0.00013	0.0002
22	12	10	1	22	12	11	0	431.47823	-0.00001	0.0002
23	12	11	1	23	12	12	0	431.60678	0.00002	0.0002
25	12	13	1	25	12	14	0	431.86067	0.00011	0.0002
26	12	14	1	26	12	15	0	431.98569	-0.00021	0.0002
27	12	15	1	27	12	16	0	432.11033	0.00010	0.0002
28	12	16	1	28	12	17	0	432.23359	0.00003	0.0002
29	12	17	1	29	12	18	0	432.35590	0.00002	0.0002
30	12	18	1	30	12	19	0	432.47695	-0.00028	0.0002
31	12	19	1	31	12	20	0	432.59752	-0.00007	0.0002
32	12	20	1	32	12	21	0	432.71698	-0.00001	0.0002
33	12	21	1	33	12	22	0	432.83531	-0.00010	0.0002
37	12	25	1	37	12	26	0	433.29954	0.00005	0.0002
38	12	26	1	38	12	27	0	433.41339	0.00025	0.0002
20	13	7	1	20	13	8	0	431.09461	0.00005	0.0002
21	13	8	1	21	13	9	0	431.22783	0.00006	0.0002
22	13	9	1	22	13	10	0	431.35923	-0.00013	0.0002
23	13	10	1	23	13	11	0	431.48998	0.00033	0.0002
24	13	11	1	24	13	12	0	431.61864	-0.00009	0.0002
25	13	12	1	25	13	13	0	431.74689	0.00018	0.0002
26	13	13	1	26	13	14	0	431.87378	0.00017	0.0002
27	13	14	1	27	13	15	0	431.99961	0.00014	0.0002
28	13	15	1	28	13	16	0	432.12440	0.00010	0.0002
29	13	16	1	29	13	17	0	432.24805	-0.00008	0.0002
30	13	17	1	30	13	18	0	432.37075	-0.00021	0.0002
33	13	20	1	33	13	21	0	432.73349	-0.00002	0.0002
34	13	21	1	34	13	22	0	432.85227	-0.00014	0.0002
37	13	24	1	37	13	25	0	433.20330	-0.00003	0.0002
38	13	25	1	38	13	26	0	433.31820	-0.00019	0.0002
39	13	26	1	39	13	27	0	433.43229	-0.00022	0.0002
42	13	29	1	42	13	30	0	433.76909	-0.00012	0.0002
43	13	30	1	43	13	31	0	433.87969	0.00012	0.0002
44	13	31	1	44	13	32	0	433.98893	-0.00008	0.0002
22	14	8	1	22	14	9	0	431.23827	0.00000	0.0002
24	14	10	1	24	14	11	0	431.50157	0.00005	0.0002
25	14	11	1	25	14	12	0	431.63132	0.00013	0.0002
26	14	12	1	26	14	13	0	431.75980	0.00008	0.0002
27	14	13	1	27	14	14	0	431.88708	-0.00008	0.0002
28	14	14	1	28	14	15	0	432.01342	-0.00012	0.0002
29	14	15	1	29	14	16	0	432.13863	-0.00025	0.0002
30	14	16	1	30	14	17	0	432.26292	-0.00029	0.0002
31	14	17	1	31	14	18	0	432.38640	-0.00013	0.0002
32	14	18	1	32	14	19	0	432.50912	0.00027	0.0002
33	14	19	1	33	14	20	0	432.63037	0.00018	0.0002
34	14	20	1	34	14	21	0	432.75078	0.00025	0.0002
35	14	21	1	35	14	22	0	432.86968	-0.00023	0.0002
37	14	23	1	37	14	24	0	433.10594	0.00018	0.0002
38	14	24	1	38	14	25	0	433.22228	0.00004	0.0002
39	14	25	1	39	14	26	0	433.33767	-0.00010	0.0002
41	14	27	1	41	14	28	0	433.56598	0.00000	0.0002
43	14	29	1	43	14	30	0	433.79047	0.00004	0.0002
44	14	30	1	44	14	31	0	433.90117	-0.00008	0.0002
22	15	7	1	22	15	8	0	431.11426	0.00033	0.0002
23	15	8	1	23	15	9	0	431.24930	0.00011	0.0002
24	15	9	1	24	15	10	0	431.38246	0.00016	0.0002
25	15	10	1	25	15	11	0	431.51383	-0.00004	0.0002
28	15	13	1	28	15	14	0	431.90118	-0.00003	0.0002
30	15	15	1	30	15	16	0	432.15399	0.00003	0.0002
31	15	16	1	31	15	17	0	432.27895	0.00016	0.0002
32	15	17	1	32	15	18	0	432.40269	0.00010	0.0002
33	15	18	1	33	15	19	0	432.52516	-0.00024	0.0002
34	15	19	1	34	15	20	0	432.64724	0.00003	0.0002
35	15	20	1	35	15	21	0	432.76817	0.00013	0.0002
36	15	21	1	36	15	22	0	432.88806	0.00018	0.0002
37	15	22	1	37	15	23	0	433.00647	-0.00030	0.0002
38	15	23	1	38	15	24	0	433.12476	0.00009	0.0002
39	15	24	1	39	15	25	0	433.24157	-0.00005	0.0002
41	15	26	1	41	15	27	0	433.47261	-0.00004	0.0002
43	15	28	1	43	15	29	0	433.69973	-0.00016	0.0002
24	16	8	1	24	16	9	0	431.26087	0.00038	0.0002
25	16	9	1	25	16	10	0	431.39446	0.00003	0.0002
26	16	10	1	26	16	11	0	431.52678	0.00009	0.0002
27	16	11	1	27	16	12	0	431.65747	-0.00012	0.0002
28	16	12	1	28	16	13	0	431.78711	-0.00014	0.0002
29	16	13	1	29	16	14	0	431.91552	-0.00024	0.0002
30	16	14	1	30	16	15	0	432.04302	-0.00016	0.0002
31	16	15	1	31	16	16	0	432.16955	0.00001	0.0002
32	16	16	1	32	16	17	0	432.29488	0.00002	0.0002
33	16	17	1	33	16	18	0	432.41926	0.00011	0.0002
34	16	18	1	34	16	19	0	432.54271	0.00027	0.0002
26	17	9	1	26	17	10	0	431.40713	0.00013	0.0002
27	17	10	1	27	17	11	0	431.54036	0.00037	0.0002
28	17	11	1	28	17	12	0	431.67141	-0.00010	0.0002
30	17	13	1	30	17	14	0	431.93087	0.00006	0.0002
31	17	14	1	31	17	15	0	432.05871	-0.00004	0.0002
32	17	15	1	32	17	16	0	432.18570	0.00009	0.0002
33	17	16	1	33	17	17	0	432.31112	-0.00030	0.0002
34	17	17	1	34	17	18	0	432.43624	0.00003	0.0002
39	17	22	1	39	17	23	0	433.04482	-0.00027	0.0002
40	17	23	1	40	17	24	0	433.16368	-0.00025	0.0002
42	17	25	1	42	17	26	0	433.39880	0.00011	0.0002
43	17	26	1	43	17	27	0	433.51452	-0.00011	0.0002
28	18	10	1	28	18	11	0	431.55414	0.00039	0.0002
29	18	11	1	29	18	12	0	431.68598	0.00006	0.0002
30	18	12	1	30	18	13	0	431.81680	0.00005	0.0002
32	18	14	1	32	18	15	0	432.07492	0.00010	0.0002
33	18	15	1	33	18	16	0	432.20216	-0.00002	0.0002
34	18	16	1	34	18	17	0	432.32850	0.00000	0.0002
35	18	17	1	35	18	18	0	432.45364	-0.00012	0.0002
37	18	19	1	37	18	20	0	432.70117	-0.00006	0.0002
39	18	21	1	39	18	22	0	432.94444	-0.00026	0.0002
40	18	22	1	40	18	23	0	433.06497	0.00000	0.0002
41	18	23	1	41	18	24	0	433.18446	0.00021	0.0002
42	18	24	1	42	18	25	0	433.30229	-0.00028	0.0002
27	19	8	1	27	19	9	0	431.29667	0.00025	0.0002
28	19	9	1	28	19	10	0	431.43356	0.00014	0.0002
29	19	10	1	29	19	11	0	431.56806	0.00010	0.0002
30	19	11	1	30	19	12	0	431.70075	-0.00006	0.0002
31	19	12	1	31	19	13	0	431.83204	-0.00019	0.0002
32	19	13	1	32	19	14	0	431.96253	0.00013	0.0002
33	19	14	1	33	19	15	0	432.09170	0.00031	0.0002
34	19	15	1	34	19	16	0	432.21938	0.00012	0.0002
35	19	16	1	35	19	17	0	432.34634	0.00029	0.0002
36	19	17	1	36	19	18	0	432.47183	0.00003	0.0002
38	19	19	1	38	19	20	0	432.72044	0.00022	0.0002
42	19	23	1	42	19	24	0	433.20504	-0.00002	0.0002
43	19	24	1	43	19	25	0	433.32372	-0.00009	0.0002
44	19	25	1	44	19	26	0	433.44156	-0.00005	0.0002
30	20	10	1	30	20	11	0	431.58277	0.00014	0.0002
31	20	11	1	31	20	12	0	431.71609	-0.00007	0.0002
32	20	12	1	32	20	13	0	431.84817	-0.00003	0.0002
33	20	13	1	33	20	14	0	431.97869	-0.00024	0.0002
34	20	14	1	34	20	15	0	432.10852	0.00008	0.0002
36	20	16	1	36	20	17	0	432.36424	0.00013	0.0002
37	20	17	1	37	20	18	0	432.49039	0.00005	0.0002
38	20	18	1	38	20	19	0	432.61545	-0.00007	0.0002
39	20	19	1	39	20	20	0	432.73964	-0.00005	0.0002
40	20	20	1	40	20	21	0	432.86304	0.00020	0.0002
41	20	21	1	41	20	22	0	432.98500	0.00002	0.0002
42	20	22	1	42	20	23	0	433.10594	-0.00020	0.0002
29	21	8	1	29	21	9	0	431.32171	0.00022	0.0002
30	21	9	1	30	21	10	0	431.46148	0.00006	0.0002
31	21	10	1	31	21	11	0	431.59779	0.00005	0.0002
32	21	11	1	32	21	12	0	431.73214	0.00014	0.0002
33	21	12	1	33	21	13	0	431.86446	-0.00019	0.0002
34	21	13	1	34	21	14	0	431.99595	0.00000	0.0002
35	21	14	1	35	21	15	0	432.12601	0.00000	0.0002
36	21	15	1	36	21	16	0	432.25484	-0.00005	0.0002
37	21	16	1	37	21	17	0	432.38281	0.00015	0.0002
38	21	17	1	38	21	18	0	432.50912	-0.00024	0.0002
41	21	20	1	41	21	21	0	432.88336	0.00012	0.0002

Table S14: Line list of ν_{41} of THP. Frequencies are in MHz.

J′	K_a′	K_c′	v	J″	K_a″	K_c″	v	Obs.	o – c	Exp. Error
28	1	27	1	28	1	28	1	108500.6719	0.0266	0.035
30	3	27	1	30	3	28	1	108479.2575	-0.0175	0.035
31	4	27	1	31	4	28	1	108467.4457	-0.0037	0.035
33	6	27	1	33	6	28	1	108441.3026	-0.0142	0.035
34	7	27	1	34	7	28	1	108426.9291	0.0035	0.035
35	8	27	1	35	8	28	1	108411.5676	-0.0247	0.035
36	9	27	1	36	9	28	1	108395.2359	-0.0358	0.035
37	10	27	1	37	10	28	1	108377.8724	-0.0442	0.035
38	11	27	1	38	11	28	1	108359.4413	-0.0371	0.035
39	12	27	1	39	12	28	1	108339.8962	-0.0113	0.035
40	13	27	1	40	13	28	1	108319.1212	-0.0311	0.035
41	14	27	1	41	14	28	1	108297.1912	0.0311	0.035
42	15	27	1	42	15	28	1	108273.8154	-0.0608	0.035
43	16	27	1	43	16	28	1	108249.2087	-0.0363	0.035
45	18	27	1	45	18	28	1	108195.6635	-0.0455	0.035
46	19	27	1	46	19	28	1	108166.6330	-0.0512	0.035
49	22	27	1	49	22	28	1	108069.7799	-0.0504	0.035
50	23	27	1	50	23	28	1	108034.0047	-0.0617	0.035
53	26	27	1	53	26	28	1	107915.3288	-0.0359	0.035
55	28	27	1	55	28	28	1	107825.9738	-0.0114	0.035
56	29	27	1	56	29	28	1	107778.0173	0.0270	0.035
58	31	27	1	58	31	28	1	107675.0037	0.0215	0.035
59	32	27	1	59	32	28	1	107619.7338	-0.0655	0.035
60	33	27	1	60	33	28	1	107561.9870	-0.0598	0.035
61	34	27	1	61	34	28	1	107501.5915	-0.0419	0.035
62	35	27	1	62	35	28	1	107438.4470	-0.0188	0.035
63	36	27	1	63	36	28	1	107372.4296	-0.0178	0.035
64	37	27	1	64	37	28	1	107303.4626	-0.0166	0.035
65	38	27	1	65	38	28	1	107231.5127	0.0535	0.035
66	39	27	1	66	39	28	1	107156.2860	0.0039	0.035
67	40	27	1	67	40	28	1	107077.8649	0.0254	0.035
68	41	27	1	68	41	28	1	106995.9937	-0.0258	0.035
69	42	27	1	69	42	28	1	106910.6900	-0.0171	0.035
70	43	27	1	70	43	28	1	106821.7548	-0.0285	0.035
27	1	26	1	27	1	27	1	104554.2238	-0.0361	0.035
28	2	26	1	28	2	27	1	104544.1967	-0.0686	0.035
29	3	26	1	29	3	27	1	104533.5417	0.0230	0.035
30	4	26	1	30	4	27	1	104521.9866	0.0086	0.035
31	5	26	1	31	5	27	1	104509.6218	0.0220	0.035
32	6	26	1	32	6	27	1	104496.3434	0.0039	0.035
33	7	26	1	33	7	27	1	104482.1663	0.0159	0.035
35	9	26	1	35	9	27	1	104450.8084	0.0157	0.035
36	10	26	1	36	10	27	1	104433.4968	-0.0266	0.035
37	11	26	1	37	11	27	1	104415.1858	0.0616	0.035
38	12	26	1	38	12	27	1	104395.6228	0.0823	0.035
39	13	26	1	39	13	27	1	104374.7550	0.0385	0.035
41	15	26	1	41	15	27	1	104329.1290	0.0142	0.035
42	16	26	1	42	16	27	1	104304.2229	0.0061	0.035
43	17	26	1	43	17	27	1	104277.8261	-0.0112	0.035
47	21	26	1	47	21	27	1	104156.2510	0.0659	0.035
48	22	26	1	48	22	27	1	104121.4263	0.0347	0.035
49	23	26	1	49	23	27	1	104084.6941	-0.0062	0.035
50	24	26	1	50	24	27	1	104046.0339	-0.0010	0.035
51	25	26	1	51	25	27	1	104005.3136	-0.0034	0.035
52	26	26	1	52	26	27	1	103962.4926	0.0268	0.035
53	27	26	1	53	27	27	1	103917.4157	0.0174	0.035
55	29	26	1	55	29	27	1	103820.2878	0.0171	0.035
56	30	26	1	56	30	27	1	103768.0516	0.0190	0.035
57	31	26	1	57	31	27	1	103713.2050	-0.0170	0.035
58	32	26	1	58	32	27	1	103655.7139	-0.0294	0.035
59	33	26	1	59	33	27	1	103595.4940	-0.0042	0.035
60	34	26	1	60	34	27	1	103532.3833	-0.0021	0.035
61	35	26	1	61	35	27	1	103466.3333	0.0327	0.035
62	36	26	1	62	36	27	1	103397.1415	0.0054	0.035
63	37	26	1	63	37	27	1	103324.7818	0.0008	0.035
64	38	26	1	64	38	27	1	103249.1253	0.0044	0.035
66	40	26	1	66	40	27	1	103087.4068	-0.0036	0.035
67	41	26	1	67	41	27	1	103001.1270	0.0145	0.035
68	42	26	1	68	42	27	1	102910.9982	-0.0156	0.035
69	43	26	1	69	43	27	1	102816.9846	0.0043	0.035
70	44	26	1	70	44	27	1	102718.8943	0.0218	0.035
26	1	25	1	26	1	26	1	100608.0083	0.0492	0.035
28	3	25	1	28	3	26	1	100587.8218	0.0077	0.035
29	4	25	1	29	4	26	1	100576.5686	0.0303	0.035
30	5	25	1	30	5	26	1	100564.4495	0.0515	0.035
31	6	25	1	31	6	26	1	100551.4123	0.0677	0.035
32	7	25	1	32	7	26	1	100537.4039	0.0763	0.035
33	8	25	1	33	8	26	1	100522.3428	0.0482	0.035
34	9	25	1	34	9	26	1	100506.1612	-0.0306	0.035
35	10	25	1	35	10	26	1	100489.0050	0.0416	0.035
38	13	25	1	38	13	26	1	100429.9769	0.0372	0.035
41	16	25	1	41	16	26	1	100358.6263	0.0246	0.035
42	17	25	1	42	17	26	1	100331.7940	0.0166	0.035
43	18	25	1	43	18	26	1	100303.3407	0.0266	0.035
45	20	25	1	45	20	26	1	100241.1672	-0.0078	0.035
46	21	25	1	46	21	26	1	100207.3563	0.0096	0.035
47	22	25	1	47	22	26	1	100171.5764	0.0029	0.035
48	23	25	1	48	23	26	1	100133.7826	0.0092	0.035
50	25	25	1	50	25	26	1	100051.7469	-0.0053	0.035
51	26	25	1	51	26	26	1	100007.3642	0.0091	0.035
52	27	25	1	52	27	26	1	99960.5772	-0.0010	0.035
53	28	25	1	53	28	26	1	99911.3714	0.0445	0.035
54	29	25	1	54	29	26	1	99859.4975	-0.0059	0.035
55	30	25	1	55	30	26	1	99805.0240	0.0165	0.035
56	31	25	1	56	31	26	1	99747.7309	-0.0044	0.035
57	32	25	1	57	32	26	1	99687.6195	0.0389	0.035
58	33	25	1	58	33	26	1	99624.4484	0.0156	0.035
59	34	25	1	59	34	26	1	99558.1764	-0.0021	0.035
60	35	25	1	60	35	26	1	99488.7738	0.0729	0.035
61	36	25	1	61	36	26	1	99415.9095	0.0304	0.035
62	37	25	1	62	37	26	1	99339.6013	0.0132	0.035
63	38	25	1	63	38	26	1	99259.6692	-0.0296	0.035
64	39	25	1	64	39	26	1	99176.1260	0.0477	0.035
66	41	25	1	66	41	26	1	98997.1148	0.0285	0.035
67	42	25	1	67	42	26	1	98901.4596	0.0354	0.035
68	43	25	1	68	43	26	1	98801.4400	-0.0088	0.035
70	45	25	1	70	45	26	1	98587.9459	0.0297	0.035
71	46	25	1	71	46	26	1	98474.0162	-0.0062	0.035
72	47	25	1	72	47	26	1	98355.1551	0.0134	0.035
73	48	25	1	73	48	26	1	98231.0721	-0.0163	0.035
26	2	24	1	26	2	25	1	96652.3336	-0.0113	0.035
28	4	24	1	28	4	25	1	96631.0793	-0.0451	0.035
29	5	24	1	29	5	25	1	96619.2404	0.0428	0.035
30	6	24	1	30	6	25	1	96606.3373	0.0145	0.035
31	7	24	1	31	7	25	1	96592.4447	-0.0001	0.035
32	8	24	1	32	8	25	1	96577.5409	0.0342	0.035
33	9	24	1	33	9	25	1	96561.4358	-0.0135	0.035
34	10	24	1	34	10	25	1	96544.2180	0.0062	0.035
36	12	24	1	36	12	25	1	96505.9268	-0.0144	0.035
38	14	24	1	38	14	25	1	96462.1763	0.0111	0.035
41	17	24	1	41	17	25	1	96384.9597	0.0260	0.035
43	19	24	1	43	19	25	1	96324.8628	0.0169	0.035
44	20	24	1	44	20	25	1	96291.9852	0.0057	0.035
45	21	24	1	45	21	25	1	96257.1234	0.0057	0.035
47	23	24	1	47	23	25	1	96181.0526	0.0008	0.035
48	24	24	1	48	24	25	1	96139.6260	-0.0366	0.035
49	25	24	1	49	25	25	1	96095.8540	-0.0543	0.035
50	26	24	1	50	26	25	1	96049.7010	0.0120	0.035
51	27	24	1	51	27	25	1	96000.9118	0.0099	0.035
52	28	24	1	52	28	25	1	95949.4809	0.0395	0.035
53	29	24	1	53	29	25	1	95895.2148	0.0168	0.035
54	30	24	1	54	30	25	1	95838.0921	0.0327	0.035
55	31	24	1	55	31	25	1	95777.9856	0.0763	0.035
56	32	24	1	56	32	25	1	95714.6031	-0.0245	0.035
57	33	24	1	57	33	25	1	95648.0965	0.0059	0.035
58	34	24	1	58	34	25	1	95578.1630	-0.0071	0.035
59	35	24	1	59	35	25	1	95504.6623	-0.0717	0.035
61	37	24	1	61	37	25	1	95346.7527	-0.0101	0.035
63	39	24	1	63	39	25	1	95173.0190	-0.0045	0.035
64	40	24	1	64	40	25	1	95079.8524	-0.0049	0.035
65	41	24	1	65	41	25	1	94982.2160	-0.0616	0.035
66	42	24	1	66	42	25	1	94880.1198	0.0053	0.035
67	43	24	1	67	43	25	1	94773.2338	0.0421	0.035
69	45	24	1	69	45	25	1	94544.3501	0.0248	0.035
70	46	24	1	70	46	25	1	94421.9768	-0.0148	0.035
72	48	24	1	72	48	25	1	94160.5355	0.0507	0.035
75	51	24	1	75	51	25	1	93722.7375	0.0162	0.035
76	52	24	1	76	52	25	1	93563.6602	-0.0218	0.035
28	5	23	1	28	5	24	1	92673.9687	-0.0218	0.035
29	6	23	1	29	6	24	1	92661.2908	0.0273	0.035
30	7	23	1	30	7	24	1	92647.4430	-0.0455	0.035
31	8	23	1	31	8	24	1	92632.6214	0.0181	0.035
32	9	23	1	32	9	24	1	92616.5700	0.0273	0.035

33	10	23	1	33	10	24	1	92599.2520	0.0122	0.035
34	11	23	1	34	11	24	1	92580.6151	-0.0097	0.035
36	13	23	1	36	13	24	1	92539.1230	-0.0464	0.035
38	15	23	1	38	15	24	1	92491.5694	-0.0032	0.035
39	16	23	1	39	16	24	1	92465.2988	0.0272	0.035
40	17	23	1	40	17	24	1	92437.1970	0.0065	0.035
41	18	23	1	41	18	24	1	92407.2189	-0.0232	0.035
42	19	23	1	42	19	24	1	92375.3325	-0.0044	0.035
43	20	23	1	43	20	24	1	92341.3410	-0.0411	0.035
46	23	23	1	46	23	24	1	92226.2522	0.0026	0.035
47	24	23	1	47	24	24	1	92183.0642	-0.0460	0.035
48	25	23	1	48	25	24	1	92137.3822	-0.0303	0.035
49	26	23	1	49	26	24	1	92089.0401	-0.0046	0.035
50	27	23	1	50	27	24	1	92037.8468	-0.0446	0.035
51	28	23	1	51	28	24	1	91983.7810	-0.0527	0.035
52	29	23	1	52	29	24	1	91926.7233	-0.0255	0.035
53	30	23	1	53	30	24	1	91866.4840	-0.0253	0.035
54	31	23	1	54	31	24	1	91802.9604	-0.0236	0.035
57	34	23	1	57	34	24	1	91591.2415	-0.0707	0.035
58	35	23	1	58	35	24	1	91513.2246	-0.0130	0.035
59	36	23	1	59	36	24	1	91431.1837	0.0351	0.035
61	38	23	1	61	38	24	1	91254.2634	-0.0093	0.035
62	39	23	1	62	39	24	1	91159.1589	0.0159	0.035
63	40	23	1	63	40	24	1	91059.3450	0.0328	0.035
65	42	23	1	65	42	24	1	90844.7881	0.0052	0.035
66	43	23	1	66	43	24	1	90729.6693	-0.0128	0.035
68	45	23	1	68	45	24	1	90482.6617	-0.0752	0.035
69	46	23	1	69	46	24	1	90350.4351	0.0007	0.035
70	47	23	1	70	47	24	1	90211.9211	-0.0010	0.035
71	48	23	1	71	48	24	1	90066.9602	0.0172	0.035
73	50	23	1	73	50	24	1	89756.4572	-0.0340	0.035
74	51	23	1	74	51	24	1	89590.4064	-0.0300	0.035
25	3	22	1	25	3	23	1	88750.9920	0.0303	0.035
28	6	22	1	28	6	23	1	88716.1459	-0.0088	0.035
29	7	22	1	29	7	23	1	88702.4621	0.0190	0.035
30	8	22	1	30	8	23	1	88687.6130	0.0494	0.035
32	10	22	1	32	10	23	1	88653.9799	-0.0331	0.035
34	12	22	1	34	12	23	1	88614.9190	0.0205	0.035
36	14	22	1	36	14	23	1	88569.5525	-0.0196	0.035
38	16	22	1	38	16	23	1	88517.3258	-0.0153	0.035
39	17	22	1	39	17	23	1	88488.3930	-0.0138	0.035
41	19	22	1	41	19	23	1	88424.4086	-0.0068	0.035
42	20	22	1	42	20	23	1	88389.1367	-0.0175	0.035
43	21	22	1	43	21	23	1	88351.5363	-0.0381	0.035
44	22	22	1	44	22	23	1	88311.5605	-0.0050	0.035
45	23	22	1	45	23	23	1	88268.9949	-0.0185	0.035
46	24	22	1	46	24	23	1	88223.7570	-0.0430	0.035
47	25	22	1	47	25	23	1	88175.8001	-0.0034	0.035
48	26	22	1	48	26	23	1	88124.8360	-0.0618	0.035
49	27	22	1	49	27	23	1	88070.9968	0.0442	0.035
50	28	22	1	50	28	23	1	88013.7704	-0.0626	0.035
51	29	22	1	51	29	23	1	87953.3745	-0.0253	0.035
52	30	22	1	52	30	23	1	87889.4756	-0.0327	0.035
53	31	22	1	53	31	23	1	87822.0171	0.0080	0.035
54	32	22	1	54	32	23	1	87750.7781	0.0309	0.035
55	33	22	1	55	33	23	1	87675.5749	0.0133	0.035
56	34	22	1	56	34	23	1	87596.3201	0.0345	0.035
57	35	22	1	57	35	23	1	87512.7648	0.0189	0.035
58	36	22	1	58	36	23	1	87424.7877	0.0252	0.035
59	37	22	1	59	37	23	1	87332.1951	0.0471	0.035
60	38	22	1	60	38	23	1	87234.7279	0.0206	0.035
62	40	22	1	62	40	23	1	87024.5203	-0.0054	0.035
63	41	22	1	63	41	23	1	86911.3360	-0.0155	0.035
64	42	22	1	64	42	23	1	86792.5412	0.0578	0.035
65	43	22	1	65	43	23	1	86667.7001	0.0212	0.035
66	44	22	1	66	44	23	1	86536.6948	0.0103	0.035
67	45	22	1	67	45	23	1	86399.1625	-0.0714	0.035
68	46	22	1	68	46	23	1	86255.0541	0.0061	0.035
69	47	22	1	69	47	23	1	86103.7913	-0.0406	0.035
70	48	22	1	70	48	23	1	85945.2412	-0.0351	0.035
22	1	21	1	22	1	22	1	84823.5712	0.0461	0.035
23	2	21	1	23	2	22	1	84814.9533	0.0441	0.035
26	5	21	1	26	5	22	1	84783.5120	-0.0074	0.035
28	7	21	1	28	7	22	1	84757.2112	-0.0784	0.035
29	8	21	1	29	8	22	1	84742.3763	0.0130	0.035
30	9	21	1	30	9	22	1	84726.0825	-0.0418	0.035
31	10	21	1	31	10	22	1	84708.5093	0.0188	0.035
33	12	21	1	33	12	22	1	84668.6680	-0.0245	0.035
34	13	21	1	34	13	22	1	84646.3397	-0.0083	0.035
35	14	21	1	35	14	22	1	84622.2204	-0.0273	0.035
37	16	21	1	37	16	22	1	84568.4020	0.0203	0.035
38	17	21	1	38	17	22	1	84538.4174	0.0084	0.035
40	19	21	1	40	19	22	1	84471.8057	-0.0327	0.035
41	20	21	1	41	20	22	1	84434.9699	-0.0414	0.035
43	22	21	1	43	22	22	1	84353.6580	-0.0121	0.035
44	23	21	1	44	23	22	1	84308.8746	-0.0273	0.035
45	24	21	1	45	24	22	1	84261.1674	-0.0581	0.035
47	26	21	1	47	26	22	1	84156.5922	0.0033	0.035
48	27	21	1	48	27	22	1	84099.3478	0.0108	0.035
49	28	21	1	49	28	22	1	84038.6200	0.0273	0.035
50	29	21	1	50	29	22	1	83974.2223	0.0259	0.035
51	30	21	1	51	30	22	1	83906.0218	0.0392	0.035
52	31	21	1	52	31	22	1	83833.8279	0.0488	0.035
53	32	21	1	53	32	22	1	83757.4103	0.0029	0.035
54	33	21	1	54	33	22	1	83676.6577	-0.0239	0.035
55	34	21	1	55	34	22	1	83591.4232	0.0147	0.035
56	35	21	1	56	35	22	1	83501.3824	-0.0040	0.035
57	36	21	1	57	36	22	1	83406.4555	0.0497	0.035
58	37	21	1	58	37	22	1	83306.2841	0.0369	0.035
60	39	21	1	60	39	22	1	83089.5211	0.0515	0.035
62	41	21	1	62	41	22	1	82849.1335	0.0421	0.035
63	42	21	1	63	42	22	1	82719.3520	-0.0342	0.035
64	43	21	1	64	43	22	1	82582.9426	-0.0124	0.035
65	44	21	1	65	44	22	1	82439.4495	-0.0426	0.035
66	45	21	1	66	45	22	1	82288.6340	-0.0415	0.035
67	46	21	1	67	46	22	1	82130.1581	-0.0069	0.035
21	1	20	1	21	1	21	1	80877.5861	-0.0033	0.035
23	3	20	1	23	3	21	1	80859.8939	0.0040	0.035
25	5	20	1	25	5	21	1	80838.2250	-0.0085	0.035
26	6	20	1	26	6	21	1	80825.7317	-0.0002	0.035
27	7	20	1	27	7	21	1	80811.9779	-0.0288	0.035
28	8	20	1	28	8	21	1	80796.9537	-0.0193	0.035
29	9	20	1	29	9	21	1	80780.5277	-0.0144	0.035
30	10	20	1	30	10	21	1	80762.6550	0.0330	0.035
31	11	20	1	31	11	21	1	80743.1214	0.0044	0.035
34	14	20	1	34	14	21	1	80674.0041	-0.0770	0.035
35	15	20	1	35	15	21	1	80647.1423	-0.0639	0.035
36	16	20	1	36	16	21	1	80618.2106	-0.0011	0.035
37	17	20	1	37	17	21	1	80586.9942	0.0152	0.035
38	18	20	1	38	18	21	1	80553.3679	-0.0166	0.035
40	20	20	1	40	20	21	1	80478.6070	0.0111	0.035
41	21	20	1	41	21	21	1	80437.1495	0.0171	0.035
42	22	20	1	42	22	21	1	80392.7639	-0.0044	0.035
43	23	20	1	43	23	21	1	80345.3582	0.0017	0.035
45	25	20	1	45	25	21	1	80240.7903	0.0170	0.035
46	26	20	1	46	26	21	1	80183.2820	0.0028	0.035
47	27	20	1	47	27	21	1	80122.0817	-0.0094	0.035
48	28	20	1	48	28	21	1	80057.0217	-0.0102	0.035
49	29	20	1	49	29	21	1	79987.9445	0.0274	0.035
50	30	20	1	50	30	21	1	79914.5599	0.0050	0.035
51	31	20	1	51	31	21	1	79836.7685	0.0232	0.035
52	32	20	1	52	32	21	1	79754.3656	0.0854	0.035
53	33	20	1	53	33	21	1	79666.9470	0.0046	0.035
54	34	20	1	54	34	21	1	79574.5562	0.0512	0.035
55	35	20	1	55	35	21	1	79476.7527	0.0217	0.035
56	36	20	1	56	36	21	1	79373.3708	-0.0012	0.035
57	37	20	1	57	37	21	1	79264.1821	0.0137	0.035
59	39	20	1	59	39	21	1	79027.1952	0.0738	0.035
60	40	20	1	60	40	21	1	78898.7123	0.0223	0.035
61	41	20	1	61	41	21	1	78763.2734	0.0383	0.035
62	42	20	1	62	42	21	1	78620.4486	0.0273	0.035
63	43	20	1	63	43	21	1	78469.9159	0.0217	0.035
64	44	20	1	64	44	21	1	78311.2676	-0.0105	0.035
65	45	20	1	65	45	21	1	78144.1878	0.0131	0.035
66	46	20	1	66	46	21	1	77968.1389	-0.0209	0.035
20	1	19	1	20	1	20	1	76931.6905	-0.0244	0.035
21	2	19	1	21	2	20	1	76923.5216	-0.0071	0.035
22	3	19	1	22	3	20	1	76914.4085	0.0243	0.035
23	4	19	1	23	4	20	1	76904.2222	0.0207	0.035
24	5	19	1	24	5	20	1	76892.9031	0.0063	0.035
26	7	19	1	26	7	20	1	76866.5810	0.0128	0.035
27	8	19	1	27	8	20	1	76851.3843	0.0269	0.035
28	9	19	1	28	9	20	1	76834.6320	-0.0191	0.035
29	10	19	1	29	10	20	1	76816.3299	-0.0160	0.035
30	11	19	1	30	11	20	1	76796.3429	0.0088	0.035
31	12	19	1	31	12	20	1	76774.5155	0.0117	0.035
32	13	19	1	32	13	20	1	76750.7079	-0.0305	0.035
33	14	19	1	33	14	20	1	76724.9438	0.0263	0.035

34	15	19	1	34	15	20	1	76696.8998	-0.0155	0.035
35	16	19	1	35	16	20	1	76666.5940	-0.0078	0.035
36	17	19	1	36	17	20	1	76633.8484	0.0066	0.035
37	18	19	1	37	18	20	1	76598.4947	0.0000	0.035
39	20	19	1	39	20	20	1	76519.5082	0.0562	0.035
40	21	19	1	40	21	20	1	76475.3959	-0.0522	0.035
42	23	19	1	42	23	20	1	76377.6696	0.0091	0.035
43	24	19	1	43	24	20	1	76323.4637	-0.0674	0.035
44	25	19	1	44	25	20	1	76265.6244	-0.0453	0.035
45	26	19	1	45	26	20	1	76203.8423	-0.0437	0.035
46	27	19	1	46	27	20	1	76137.9438	-0.0377	0.035
48	29	19	1	48	29	20	1	75992.9431	-0.0317	0.035
52	33	19	1	52	33	20	1	75643.7992	0.0085	0.035
53	34	19	1	53	34	20	1	75542.7138	0.0005	0.035
54	35	19	1	54	35	20	1	75435.5740	-0.0018	0.035
55	36	19	1	55	36	20	1	75322.0784	-0.0022	0.035
56	37	19	1	56	37	20	1	75201.9247	0.0110	0.035
57	38	19	1	57	38	20	1	75074.7253	-0.0187	0.035
14	1	14	1	13	1	13	1	75094.5893	0.0019	0.035
11	5	7	1	10	5	6	1	75215.4744	0.0707	0.035
12	3	9	1	11	3	8	1	76487.2916	-0.0348	0.035
13	2	11	1	12	2	10	1	77763.2982	-0.0558	0.035
10	7	4	1	9	7	3	1	77796.8172	0.0512	0.035
10	6	4	1	9	6	3	1	78227.6848	0.0005	0.035
14	1	13	1	13	1	12	1	79040.1861	0.0250	0.035
11	6	6	1	10	6	5	1	79173.7547	-0.0720	0.035
11	5	6	1	10	5	5	1	79175.8282	0.0247	0.035
15	0	15	1	14	0	14	1	80316.8898	0.0208	0.035
12	5	8	1	11	5	7	1	80435.8921	0.0302	0.035
10	8	3	1	9	8	2	1	80743.1214	-0.0691	0.035
13	3	10	1	12	3	9	1	81709.5283	0.0316	0.035
14	2	12	1	13	2	11	1	82985.7712	0.0239	0.035
10	7	3	1	9	7	2	1	83066.0548	-0.0019	0.035
11	7	5	1	10	7	4	1	83136.1891	-0.0160	0.035
11	6	5	1	10	6	4	1	83192.5481	0.0213	0.035
15	1	14	1	14	1	13	1	84262.4008	-0.0691	0.035
12	6	7	1	11	6	6	1	84389.7033	-0.0214	0.035
16	0	16	1	15	0	15	1	85538.9987	-0.0040	0.035
13	5	9	1	12	5	8	1	85657.1053	0.0513	0.035
11	8	4	1	10	8	3	1	86889.5089	-0.0197	0.035
14	3	11	1	13	3	10	1	86931.6726	-0.0048	0.035
12	7	6	1	11	7	5	1	88355.8201	-0.0308	0.035
16	1	15	1	15	1	14	1	89484.6470	0.0099	0.035
13	6	8	1	12	6	7	1	89608.1014	0.0508	0.035
17	0	17	1	16	0	16	1	90760.9302	-0.0485	0.035
14	4	10	1	13	4	9	1	90878.6086	0.0080	0.035
15	3	12	1	14	3	11	1	92153.8160	0.0041	0.035
12	8	5	1	11	8	4	1	92316.1489	-0.0849	0.035
12	7	5	1	11	7	4	1	92432.6732	-0.0042	0.035
16	2	14	1	15	2	13	1	93430.1746	-0.0108	0.035
13	7	7	1	12	7	6	1	93567.2318	-0.0443	0.035
13	6	7	1	12	6	6	1	93567.7231	0.0649	0.035
17	1	16	1	16	1	15	1	94706.6384	-0.0131	0.035
14	6	9	1	13	6	8	1	94827.8595	0.0021	0.035
12	9	4	1	11	9	3	1	95938.6296	-0.0627	0.035
15	4	11	1	14	4	10	1	96100.3339	0.0317	0.035
16	3	13	1	15	3	12	1	97375.8184	-0.0444	0.035
13	8	6	1	12	8	5	1	97543.1715	0.0569	0.035
13	7	6	1	12	7	5	1	97555.3509	-0.0659	0.035
17	2	15	1	16	2	14	1	98652.1265	-0.0736	0.035
14	7	8	1	13	7	7	1	98782.4245	0.0233	0.035
18	1	17	1	17	1	16	1	99928.5231	0.0201	0.035
16	4	12	1	15	4	11	1	101322.0719	0.0256	0.035
13	9	5	1	12	9	4	1	101491.2908	0.0023	0.035
12	9	3	1	11	9	2	1	101654.9971	-0.0211	0.035
13	8	5	1	12	8	4	1	101713.9420	0.0360	0.035
17	3	14	1	16	3	13	1	102597.7955	-0.0085	0.035
14	8	7	1	13	8	6	1	102749.0193	0.0544	0.035
18	2	16	1	17	2	15	1	103874.0496	-0.0117	0.035
15	7	9	1	14	7	8	1	104000.1997	0.0611	0.035
13	10	4	1	12	10	3	1	104932.4605	0.0000	0.035
16	5	11	1	15	5	10	1	105269.4673	0.0445	0.035
17	4	13	1	16	4	12	1	106543.7849	0.0214	0.035
14	9	6	1	13	9	5	1	106735.8980	-0.0264	0.035
14	8	6	1	13	8	5	1	106762.9047	0.0118	0.035
16	7	10	1	15	7	9	1	109219.3304	0.0240	0.035

Table S15: Line list of ν_{20} of THP. Transitions in the mmw range are in MHz and transitions in the far-infrared domain are in cm^{-1}.

J′	K_a′	K_c′	v	J″	K_a″	K_c″	v	Obs.	o – c	Exp. Error
Millimeter-wave transitions										
30	3	27	1	30	3	28	1	108997.3996	0.0521	0.035
33	6	27	1	33	6	28	1	108961.8720	0.0300	0.035
34	7	27	1	34	7	28	1	108948.4465	0.0383	0.035
37	10	27	1	37	10	28	1	108902.7729	0.0240	0.035
39	12	27	1	39	12	28	1	108867.4188	0.0038	0.035
41	14	27	1	41	14	28	1	108827.7765	0.0365	0.035
42	15	27	1	42	15	28	1	108806.1905	0.0364	0.035
43	16	27	1	43	16	28	1	108783.3338	-0.0013	0.035
44	17	27	1	44	17	28	1	108759.2422	0.0106	0.035
45	18	27	1	45	18	28	1	108733.8090	0.0195	0.035
46	19	27	1	46	19	28	1	108706.9335	-0.0205	0.035
47	20	27	1	47	20	28	1	108678.6881	0.0192	0.035
48	21	27	1	48	21	28	1	108648.8694	-0.0063	0.035
49	22	27	1	49	22	28	1	108617.5163	0.0010	0.035
51	24	27	1	51	24	28	1	108549.8415	-0.0045	0.035
52	25	27	1	52	25	28	1	108513.4127	0.0026	0.035
53	26	27	1	53	26	28	1	108475.1774	0.0250	0.035
55	28	27	1	55	28	28	1	108392.8735	-0.0242	0.035
58	31	27	1	58	31	28	1	108254.1200	0.0259	0.035
61	34	27	1	61	34	28	1	108094.9819	0.0230	0.035
62	35	27	1	62	35	28	1	108036.9923	-0.0262	0.035
63	36	27	1	63	36	28	1	107976.4207	-0.0676	0.035
64	37	27	1	64	37	28	1	107913.3071	0.0278	0.035
65	38	27	1	65	38	28	1	107847.3495	0.0496	0.035
71	44	27	1	71	44	28	1	107387.7876	0.0203	0.035
29	3	26	1	29	3	27	1	105034.2262	0.0265	0.035
33	7	26	1	33	7	27	1	104986.2542	0.0049	0.035
34	8	26	1	34	8	27	1	104972.1107	-0.0168	0.035
38	12	26	1	38	12	27	1	104905.7745	0.0179	0.035
39	13	26	1	39	13	27	1	104886.4423	-0.0076	0.035
41	15	26	1	41	15	27	1	104844.2349	0.0154	0.035
43	17	26	1	43	17	27	1	104796.8088	0.0094	0.035
45	19	26	1	45	19	27	1	104743.7452	0.0177	0.035
48	22	26	1	48	22	27	1	104652.3894	-0.0566	0.035
49	23	26	1	49	23	27	1	104618.6543	0.0080	0.035
50	24	26	1	50	24	27	1	104583.0427	-0.0036	0.035
51	25	26	1	51	25	27	1	104545.5754	-0.0002	0.035
53	27	26	1	53	27	27	1	104464.7123	-0.0156	0.035
54	28	26	1	54	28	27	1	104421.2097	0.0108	0.035
55	29	26	1	55	29	27	1	104375.4653	-0.0297	0.035
58	32	26	1	58	32	27	1	104224.5254	0.0161	0.035
60	34	26	1	60	34	27	1	104111.4401	0.0167	0.035
61	35	26	1	61	35	27	1	104050.8166	-0.0620	0.035
66	40	26	1	66	40	27	1	103704.2298	0.0421	0.035
70	44	26	1	70	44	27	1	103367.6052	0.0216	0.035
71	45	26	1	71	45	27	1	103274.2629	0.0427	0.035
72	46	26	1	72	46	27	1	103176.9516	0.0376	0.035
73	47	26	1	73	47	27	1	103075.5392	0.0109	0.035
75	49	26	1	75	49	27	1	102859.9466	0.0009	0.035
76	50	26	1	76	50	27	1	102745.4654	0.0157	0.035
26	1	25	1	26	1	26	1	101089.7602	-0.0285	0.035
27	2	25	1	27	2	26	1	101080.7257	0.0029	0.035
28	3	25	1	28	3	26	1	101070.9413	-0.0052	0.035
29	4	25	1	29	4	26	1	101060.4336	0.0149	0.035
32	7	25	1	32	7	26	1	101023.9028	0.0122	0.035
34	9	25	1	34	9	26	1	100994.9553	-0.0010	0.035
35	10	25	1	35	10	26	1	100978.9406	-0.0272	0.035
36	11	25	1	36	11	26	1	100961.8686	-0.0272	0.035
37	12	25	1	37	12	26	1	100943.6779	-0.0085	0.035
38	13	25	1	38	13	26	1	100924.2661	-0.0182	0.035
39	14	25	1	39	14	26	1	100903.6368	0.0045	0.035
40	15	25	1	40	15	26	1	100881.6572	-0.0137	0.035
41	16	25	1	41	16	26	1	100858.3375	-0.0024	0.035
42	17	25	1	42	17	26	1	100833.5267	-0.0498	0.035
43	18	25	1	43	18	26	1	100807.2743	-0.0422	0.035
44	19	25	1	44	19	26	1	100779.5038	0.0102	0.035
45	20	25	1	45	20	26	1	100750.0615	0.0220	0.035
46	21	25	1	46	21	26	1	100718.8742	-0.0100	0.035
47	22	25	1	47	22	26	1	100685.9920	0.0364	0.035
48	23	25	1	48	23	26	1	100651.1821	0.0026	0.035
49	24	25	1	49	24	26	1	100614.4850	0.0054	0.035
50	25	25	1	50	25	26	1	100575.7859	0.0086	0.035
51	26	25	1	51	26	26	1	100535.0299	0.0379	0.035
52	27	25	1	52	27	26	1	100492.0462	0.0056	0.035
58	33	25	1	58	33	26	1	100183.8883	0.0102	0.035
60	35	25	1	60	35	26	1	100059.6580	0.0106	0.035
61	36	25	1	61	36	26	1	99992.9968	-0.0396	0.035
62	37	25	1	62	37	26	1	99923.2739	-0.0070	0.035
64	39	25	1	64	39	26	1	99773.8981	0.0268	0.035
66	41	25	1	66	41	26	1	99610.4595	0.0093	0.035
68	43	25	1	68	43	26	1	99432.0012	0.0172	0.035
70	45	25	1	70	45	26	1	99237.3986	0.0334	0.035
74	49	25	1	74	49	26	1	98794.8057	-0.0164	0.035
26	2	24	1	26	2	25	1	97117.1000	0.0006	0.035
27	3	24	1	27	3	25	1	97107.5789	-0.0109	0.035
28	4	24	1	28	4	25	1	97097.3218	0.0165	0.035
29	5	24	1	29	5	25	1	97086.1849	-0.0142	0.035
30	6	24	1	30	6	25	1	97074.2108	-0.0124	0.035
31	7	24	1	31	7	25	1	97061.3129	-0.0145	0.035
33	9	24	1	33	9	25	1	97032.5538	-0.0140	0.035
35	11	24	1	35	11	25	1	96999.4686	-0.0157	0.035
36	12	24	1	36	12	25	1	96981.1714	-0.0054	0.035
37	13	24	1	37	13	25	1	96961.6165	0.0049	0.035
38	14	24	1	38	14	25	1	96940.7202	-0.0052	0.035
39	15	24	1	39	15	25	1	96918.4300	-0.0236	0.035
40	16	24	1	40	16	25	1	96894.7149	-0.0142	0.035
42	18	24	1	42	18	25	1	96842.5932	-0.0512	0.035
43	19	24	1	43	19	25	1	96814.1819	0.0420	0.035
44	20	24	1	44	20	25	1	96783.8800	-0.0139	0.035
45	21	24	1	45	21	25	1	96751.8372	0.0077	0.035
46	22	24	1	46	22	25	1	96717.8658	-0.0001	0.035
48	24	24	1	48	24	25	1	96643.8586	-0.0524	0.035
49	25	24	1	49	25	25	1	96603.6850	-0.0624	0.035
52	28	24	1	52	28	25	1	96469.4444	0.0190	0.035
54	30	24	1	54	30	25	1	96367.4271	0.0373	0.035
55	31	24	1	55	31	25	1	96312.3359	0.0143	0.035
58	34	24	1	58	34	25	1	96129.5755	-0.0373	0.035
59	35	24	1	59	35	25	1	96062.4948	0.0018	0.035
60	36	24	1	60	36	25	1	95992.0503	-0.0134	0.035
61	37	24	1	61	37	25	1	95918.1593	-0.0398	0.035
62	38	24	1	62	38	25	1	95840.8025	0.0341	0.035
63	39	24	1	63	39	25	1	95759.6176	-0.0186	0.035
64	40	24	1	64	40	25	1	95674.6407	-0.0219	0.035
65	41	24	1	65	41	25	1	95585.7190	0.0162	0.035
66	42	24	1	66	42	25	1	95492.5659	-0.0404	0.035
68	44	24	1	68	44	25	1	95293.3719	-0.0019	0.035
70	46	24	1	70	46	25	1	95075.6407	-0.0038	0.035
71	47	24	1	71	47	25	1	94959.3160	-0.0857	0.035
26	3	23	1	26	3	24	1	93144.0995	-0.0319	0.035
27	4	23	1	27	4	24	1	93134.0949	0.0259	0.035
28	5	23	1	28	5	24	1	93123.1238	-0.0303	0.035
29	6	23	1	29	6	24	1	93111.3445	0.0104	0.035
30	7	23	1	30	7	24	1	93098.5412	-0.0127	0.035
31	8	23	1	31	8	24	1	93084.7453	-0.0117	0.035
32	9	23	1	32	9	24	1	93069.9084	0.0238	0.035
33	10	23	1	33	10	24	1	93053.8428	-0.0326	0.035
34	11	23	1	34	11	24	1	93036.6375	-0.0293	0.035
36	13	23	1	36	13	24	1	92998.3920	0.0041	0.035
37	14	23	1	37	14	24	1	92977.1824	0.0015	0.035
38	15	23	1	38	15	24	1	92954.4885	-0.0119	0.035
39	16	23	1	39	16	24	1	92930.2226	-0.0499	0.035
41	18	23	1	41	18	24	1	92876.8947	0.0282	0.035
42	19	23	1	42	19	24	1	92847.5271	-0.0010	0.035
43	20	23	1	43	20	24	1	92816.2618	-0.0602	0.035
44	21	23	1	44	21	24	1	92783.1543	-0.0075	0.035
45	22	23	1	45	22	24	1	92747.9530	-0.0054	0.035
46	23	23	1	46	23	24	1	92710.5823	-0.0375	0.035
47	24	23	1	47	24	24	1	92671.0220	-0.0297	0.035
48	25	23	1	48	25	24	1	92629.1782	0.0219	0.035
50	27	23	1	50	27	24	1	92537.9570	-0.0204	0.035
51	28	23	1	51	28	24	1	92488.4784	-0.0048	0.035
53	30	23	1	53	30	24	1	92381.1192	-0.0131	0.035
54	31	23	1	54	31	24	1	92322.9756	-0.0679	0.035
56	33	23	1	56	33	24	1	92197.3699	-0.0613	0.035
58	35	23	1	58	35	24	1	92058.3214	-0.0569	0.035
60	37	23	1	60	37	24	1	91904.8614	0.0720	0.035
61	38	23	1	61	38	24	1	91822.1145	-0.0653	0.035
64	41	23	1	64	41	24	1	91549.1793	-0.0324	0.035
65	42	23	1	65	42	24	1	91449.2382	-0.0470	0.035
67	44	23	1	67	44	24	1	91234.9203	-0.0316	0.035
68	45	23	1	68	45	24	1	91120.1634	0.0024	0.035

69	46	23	1	69	46	24	1	91000.0571	0.0400	0.035
71	48	23	1	71	48	24	1	90742.7464	-0.0598	0.035
73	50	23	1	73	50	24	1	90461.4435	-0.0455	0.035
74	51	23	1	74	51	24	1	90311.1742	0.0040	0.035
75	52	23	1	75	52	24	1	90154.0732	0.0177	0.035
23	1	22	1	23	1	23	1	89197.7793	-0.0772	0.035
28	6	22	1	28	6	23	1	89148.2567	-0.0067	0.035
29	7	22	1	29	7	23	1	89135.5598	-0.0020	0.035
32	10	22	1	32	10	23	1	89090.8021	0.0176	0.035
33	11	22	1	33	11	23	1	89073.4650	0.0548	0.035
35	13	22	1	35	13	23	1	89034.5791	0.0198	0.035
34	12	22	1	34	12	23	1	89054.7091	0.0157	0.035
38	16	22	1	38	16	23	1	88964.8865	0.0172	0.035
39	17	22	1	39	17	23	1	88938.2871	0.0185	0.035
40	18	22	1	40	18	23	1	88909.8587	0.0205	0.035
41	19	22	1	41	19	23	1	88879.5081	0.0205	0.035
42	20	22	1	42	20	23	1	88847.1383	0.0154	0.035
43	21	22	1	43	21	23	1	88812.6239	-0.0236	0.035
44	22	22	1	44	22	23	1	88775.9779	0.0163	0.035
45	23	22	1	45	23	23	1	88736.9415	-0.0206	0.035
46	24	22	1	46	24	23	1	88695.5201	-0.0224	0.035
47	25	22	1	47	25	23	1	88651.5807	-0.0125	0.035
49	27	22	1	49	27	23	1	88555.6008	-0.0465	0.035
52	30	22	1	52	30	23	1	88389.7666	-0.0256	0.035
55	33	22	1	55	33	23	1	88194.4945	0.0188	0.035
56	34	22	1	56	34	23	1	88122.1604	-0.0033	0.035
57	35	22	1	57	35	23	1	88046.0012	0.0049	0.035
58	36	22	1	58	36	23	1	87965.8035	-0.0093	0.035
59	37	22	1	59	37	23	1	87881.4538	0.0064	0.035
60	38	22	1	60	38	23	1	87792.7449	0.0179	0.035
61	39	22	1	61	39	23	1	87699.4698	-0.0022	0.035
62	40	22	1	62	40	23	1	87601.4993	0.0037	0.035
63	41	22	1	63	41	23	1	87498.6055	0.0026	0.035
64	42	22	1	64	42	23	1	87390.6719	0.0812	0.035
65	43	22	1	65	43	23	1	87277.2101	-0.0366	0.035
66	44	22	1	66	44	23	1	87158.3732	0.0235	0.035
67	45	22	1	67	45	23	1	87033.6455	-0.0221	0.035
68	46	22	1	68	46	23	1	86902.9206	-0.0369	0.035
71	49	22	1	71	49	23	1	86472.0134	-0.0349	0.035
72	50	22	1	72	50	23	1	86314.5802	0.0330	0.035
22	1	21	1	22	1	22	1	85233.7693	0.0194	0.035
23	2	21	1	23	2	22	1	85225.7513	0.0159	0.035
24	3	21	1	24	3	22	1	85216.9083	-0.0055	0.035
25	4	21	1	25	4	22	1	85207.2765	0.0501	0.035
26	5	21	1	26	5	22	1	85196.6543	0.0428	0.035
27	6	21	1	27	6	22	1	85185.0153	0.0102	0.035
29	8	21	1	29	8	22	1	85158.5812	0.0327	0.035
32	11	21	1	32	11	22	1	85109.7210	0.0477	0.035
33	12	21	1	33	12	22	1	85090.6398	0.0163	0.035
36	15	21	1	36	15	22	1	85024.0400	0.0061	0.035
37	16	21	1	37	16	22	1	84998.4374	0.0439	0.035
38	17	21	1	38	17	22	1	84970.8783	0.0036	0.035
39	18	21	1	39	18	22	1	84941.3730	-0.0059	0.035
40	19	21	1	40	19	22	1	84909.8432	0.0387	0.035
41	20	21	1	41	20	22	1	84876.0490	0.0034	0.035
43	22	21	1	43	22	22	1	84801.5261	-0.0095	0.035
44	23	21	1	44	23	22	1	84760.5554	0.0000	0.035
45	24	21	1	45	24	22	1	84716.9428	0.0103	0.035
46	25	21	1	46	25	22	1	84670.5396	-0.0026	0.035
47	26	21	1	47	26	22	1	84621.2403	-0.0155	0.035
49	28	21	1	49	28	22	1	84513.4343	-0.0223	0.035
50	29	21	1	50	29	22	1	84454.6518	-0.0108	0.035
51	30	21	1	51	30	22	1	84392.3560	-0.0539	0.035
52	31	21	1	52	31	22	1	84326.5638	0.0190	0.035
54	33	21	1	54	33	22	1	84183.3374	0.0043	0.035
55	34	21	1	55	34	22	1	84105.6502	0.0010	0.035
57	36	21	1	57	36	22	1	83937.3087	0.0777	0.035
59	38	21	1	59	38	22	1	83750.1561	0.0236	0.035
60	39	21	1	60	39	22	1	83649.1447	0.0771	0.035
63	42	21	1	63	42	22	1	83313.1498	0.0135	0.035
64	43	21	1	64	43	22	1	83189.4560	0.0132	0.035
65	44	21	1	65	44	22	1	83059.4855	0.0260	0.035
66	45	21	1	66	45	22	1	82922.8991	-0.0085	0.035
67	46	21	1	67	46	22	1	82779.4177	-0.0763	0.035
68	47	21	1	68	47	22	1	82628.8996	-0.0100	0.035
69	48	21	1	69	48	22	1	82470.7457	-0.0822	0.035
71	50	21	1	71	50	22	1	82130.7788	0.0072	0.035
72	51	21	1	72	51	22	1	81948.1044	0.0614	0.035
22	2	20	1	22	2	21	1	81261.7201	-0.0691	0.035
23	3	20	1	23	3	21	1	81253.1147	-0.0413	0.035
25	5	20	1	25	5	21	1	81233.0548	-0.0515	0.035
26	6	20	1	26	6	21	1	81221.5186	-0.0319	0.035
27	7	20	1	27	7	21	1	81208.9439	0.0673	0.035
31	11	20	1	31	11	21	1	81145.3840	-0.0204	0.035
32	12	20	1	32	12	21	1	81125.8944	-0.0225	0.035
34	14	20	1	34	14	21	1	81081.9114	-0.0452	0.035
35	15	20	1	35	15	21	1	81057.2406	-0.0462	0.035
36	16	20	1	36	16	21	1	81030.6330	-0.0536	0.035
40	20	20	1	40	20	21	1	80902.7226	-0.0503	0.035
42	22	20	1	42	22	21	1	80824.2697	0.0201	0.035
44	24	20	1	44	24	21	1	80734.6336	-0.0144	0.035
47	27	20	1	47	27	21	1	80577.0587	0.0555	0.035
49	29	20	1	49	29	21	1	80454.6462	0.0220	0.035
50	30	20	1	50	30	21	1	80387.8007	0.0459	0.035
52	32	20	1	52	32	21	1	80241.7839	0.0185	0.035
53	33	20	1	53	33	21	1	80162.2265	-0.0407	0.035
54	34	20	1	54	34	21	1	80078.1410	-0.0271	0.035
55	35	20	1	55	35	21	1	79989.2815	0.0229	0.035
56	36	20	1	56	36	21	1	79895.3436	0.0243	0.035
57	37	20	1	57	37	21	1	79796.1390	0.0175	0.035
58	38	20	1	58	38	21	1	79691.4391	0.0133	0.035
59	39	20	1	59	39	21	1	79581.0001	0.0188	0.035
60	40	20	1	60	40	21	1	79464.5443	0.0196	0.035
61	41	20	1	61	41	21	1	79341.7630	-0.0166	0.035
62	42	20	1	62	42	21	1	79212.4219	-0.0333	0.035
63	43	20	1	63	43	21	1	79076.2619	0.0168	0.035
64	44	20	1	64	44	21	1	78932.8254	-0.0004	0.035
66	46	20	1	66	46	21	1	78622.9787	0.0053	0.035
67	47	20	1	67	47	21	1	78455.8077	0.0135	0.035
68	48	20	1	68	48	21	1	78279.9196	0.0095	0.035
69	49	20	1	69	49	21	1	78094.9109	0.0248	0.035
70	50	20	1	70	50	21	1	77900.2861	0.0288	0.035
71	51	20	1	71	51	21	1	77695.5058	-0.0191	0.035
20	1	19	1	20	1	20	1	77305.2794	-0.0776	0.035
21	2	19	1	21	2	20	1	77297.7950	0.0282	0.035
25	6	19	1	25	6	20	1	77257.8914	0.0026	0.035
26	7	19	1	26	7	20	1	77245.1774	0.0255	0.035
27	8	19	1	27	8	20	1	77231.1324	-0.0078	0.035
28	9	19	1	28	9	20	1	77215.7050	-0.0587	0.035
29	10	19	1	29	10	20	1	77198.9016	-0.0271	0.035
30	11	19	1	30	11	20	1	77180.5269	-0.0106	0.035
32	13	19	1	32	13	20	1	77138.6865	0.0098	0.035
33	14	19	1	33	14	20	1	77114.9845	-0.0076	0.035
34	15	19	1	34	15	20	1	77089.4036	0.0817	0.035
35	16	19	1	35	16	20	1	77061.4777	-0.0699	0.035
36	17	19	1	36	17	20	1	77031.5771	0.0297	0.035
37	18	19	1	37	18	20	1	76999.2148	0.0205	0.035
38	19	19	1	38	19	20	1	76964.4064	0.0494	0.035
39	20	19	1	39	20	20	1	76926.9282	0.0291	0.035
40	21	19	1	40	21	20	1	76886.7317	0.0525	0.035
41	22	19	1	41	22	20	1	76843.5908	0.0404	0.035
42	23	19	1	42	23	20	1	76797.3972	0.0366	0.035
43	24	19	1	43	24	20	1	76747.9823	0.0309	0.035
44	25	19	1	44	25	20	1	76695.2149	0.0562	0.035
46	27	19	1	46	27	20	1	76578.7888	0.0551	0.035
47	28	19	1	47	28	20	1	76514.7672	0.0280	0.035
48	29	19	1	48	29	20	1	76446.6575	0.0212	0.035
49	30	19	1	49	30	20	1	76374.1675	-0.0572	0.035
51	32	19	1	51	32	20	1	76215.6122	-0.0189	0.035
52	33	19	1	52	33	20	1	76129.0459	0.0426	0.035
53	34	19	1	53	34	20	1	76037.1979	0.0241	0.035
54	35	19	1	54	35	20	1	75939.8473	-0.0457	0.035
55	36	19	1	55	36	20	1	75836.8928	-0.0069	0.035
56	37	19	1	56	37	20	1	75727.9466	0.0276	0.035
59	40	19	1	59	40	20	1	75362.0829	-0.0034	0.035
60	41	19	1	60	41	20	1	75226.0744	-0.0339	0.035
61	42	19	1	61	42	20	1	75082.5345	0.0024	0.035
62	43	19	1	62	43	20	1	74930.9902	0.0127	0.035
11	5	7	1	10	5	6	1	75017.1792	0.0003	0.035
12	3	9	1	11	3	8	1	76244.4282	-0.0451	0.035
9	7	2	1	8	7	1	1	76630.6935	-0.0259	0.035
13	2	11	1	12	2	10	1	77475.6046	-0.0604	0.035
10	7	4	1	9	7	3	1	77677.9307	0.0027	0.035
10	6	4	1	9	6	3	1	78056.3608	0.0355	0.035
14	1	13	1	13	1	12	1	78707.7957	0.0207	0.035
11	6	6	1	10	6	5	1	78993.8308	-0.0317	0.035
11	5	6	1	10	5	5	1	78995.4373	0.0250	0.035
15	0	15	1	14	0	14	1	79940.0113	-0.0342	0.035

12	5	8	1	11	5	7	1	80211.9927	-0.0190	0.035
13	3	10	1	12	3	9	1	81440.9326	-0.0067	0.035
10	9	2	1	9	9	1	1	81803.8884	-0.0056	0.035
14	2	12	1	13	2	11	1	82672.3897	-0.0419	0.035
10	7	3	1	9	7	2	1	82912.1280	0.0086	0.035
11	7	5	1	10	7	4	1	82975.8767	-0.0905	0.035
11	6	5	1	10	6	4	1	83022.6029	-0.0121	0.035
15	1	14	1	14	1	13	1	83904.6561	0.0723	0.035
12	6	7	1	11	6	6	1	84184.4945	0.0700	0.035
16	0	16	1	15	0	15	1	85136.7997	-0.0349	0.035
10	8	2	1	9	8	1	1	85335.7898	-0.0100	0.035
13	5	9	1	12	5	8	1	85407.5517	0.0098	0.035
14	3	11	1	13	3	10	1	86637.4181	-0.0362	0.035
15	2	13	1	14	2	12	1	87869.0981	-0.0494	0.035
16	1	15	1	15	1	14	1	89101.3142	-0.0095	0.035
11	9	3	1	10	9	2	1	89480.2539	-0.0206	0.035
17	0	17	1	16	0	16	1	90333.5390	-0.0118	0.035
14	4	10	1	13	4	9	1	90603.3874	-0.0403	0.035
15	3	12	1	14	3	11	1	91833.9250	-0.0467	0.035
12	8	5	1	11	8	4	1	92150.2647	-0.0631	0.035
12	7	5	1	11	7	4	1	92247.1160	0.0390	0.035
11	8	3	1	10	8	2	1	92284.1312	-0.0001	0.035
16	2	14	1	15	2	13	1	93065.7781	-0.0246	0.035
11	9	2	1	10	9	1	1	93864.2468	-0.0102	0.035
17	1	16	1	16	1	15	1	94298.0296	0.0395	0.035
14	6	9	1	13	6	8	1	94571.5104	-0.0527	0.035
18	0	18	1	17	0	17	1	95530.1644	-0.0253	0.035
12	9	4	1	11	9	3	1	95833.4875	0.0405	0.035
12	8	4	1	11	8	3	1	96880.3100	0.0241	0.035
16	3	13	1	15	3	12	1	97030.4387	-0.0236	0.035
13	8	6	1	12	8	5	1	97347.5563	0.0127	0.035
13	7	6	1	12	7	5	1	97357.1634	-0.0560	0.035
17	2	15	1	16	2	14	1	98262.3688	-0.0203	0.035
14	7	8	1	13	7	7	1	98544.5325	-0.0008	0.035
12	11	1	1	11	11	0	1	99477.5100	0.0236	0.035
18	1	17	1	17	1	16	1	99494.6211	0.0430	0.035
15	5	10	1	14	5	9	1	99766.5810	0.0226	0.035
19	0	19	1	18	0	18	1	100726.7950	0.0479	0.035
16	4	12	1	15	4	11	1	100995.6421	0.0021	0.035
13	8	5	1	12	8	4	1	101507.1860	0.0075	0.035
12	10	2	1	11	10	1	1	102210.8453	-0.0025	0.035
17	3	14	1	16	3	13	1	102226.9246	0.0180	0.035
14	8	7	1	13	8	6	1	102528.4612	-0.0287	0.035
14	7	7	1	13	7	6	1	102529.2084	-0.0435	0.035
18	2	16	1	17	2	15	1	103458.9236	0.0233	0.035
15	7	9	1	14	7	8	1	103736.9234	0.0244	0.035
19	1	18	1	18	1	17	1	104691.1171	0.0341	0.035
13	10	4	1	12	10	3	1	104842.0498	-0.0061	0.035
16	5	11	1	15	5	10	1	104961.9717	0.0165	0.035
20	0	20	1	19	0	19	1	105923.2419	0.0231	0.035
17	4	13	1	16	4	12	1	106191.7821	-0.0286	0.035
14	9	6	1	13	9	5	1	106532.1544	-0.0436	0.035
14	8	6	1	13	8	5	1	106553.4562	-0.0001	0.035
13	12	2	1	12	12	1	1	106678.7339	-0.0033	0.035
13	11	3	1	12	11	2	1	106766.8893	0.0015	0.035
18	3	15	1	17	3	14	1	107423.3270	0.0363	0.035
15	8	8	1	14	8	7	1	107714.3418	0.0579	0.035
16	7	10	1	15	7	9	1	108930.5986	0.0044	0.035

Rovibrational infrared transitions

3	0	3	1	4	0	4	0	561.13579	0.00003	0.0002
4	0	4	1	5	0	5	0	560.96167	0.00008	0.0002
5	0	5	1	6	0	6	0	560.78722	-0.00001	0.0002
6	0	6	1	7	0	7	0	560.61278	0.00008	0.0002
7	0	7	1	8	0	8	0	560.43790	-0.00010	0.0002
8	0	8	1	9	0	9	0	560.26301	-0.00011	0.0002
9	0	9	1	10	0	10	0	560.08816	0.00009	0.0002
10	0	10	1	11	0	11	0	559.91287	0.00001	0.0002
11	0	11	1	12	0	12	0	559.73747	0.00000	0.0002
12	0	12	1	13	0	13	0	559.56182	-0.00008	0.0002
13	0	13	1	14	0	14	0	559.38607	-0.00010	0.0002
14	0	14	1	15	0	15	0	559.21019	-0.00007	0.0002
15	0	15	1	16	0	16	0	559.03413	-0.00005	0.0002
16	0	16	1	17	0	17	0	558.85801	0.00007	0.0002
17	0	17	1	18	0	18	0	558.68151	-0.00001	0.0002
18	0	18	1	19	0	19	0	558.50495	0.00002	0.0002
19	0	19	1	20	0	20	0	558.32818	0.00001	0.0002
20	0	20	1	21	0	21	0	558.15130	0.00006	0.0002
21	0	21	1	22	0	22	0	557.97419	0.00005	0.0002
22	0	22	1	23	0	23	0	557.79682	-0.00005	0.0002
23	0	23	1	24	0	24	0	557.61946	0.00003	0.0002
24	0	24	1	25	0	25	0	557.44182	0.00000	0.0002
25	0	25	1	26	0	26	0	557.26398	-0.00005	0.0002
26	0	26	1	27	0	27	0	557.08609	0.00000	0.0002
27	0	27	1	28	0	28	0	556.90797	0.00001	0.0002
28	0	28	1	29	0	29	0	556.72958	-0.00009	0.0002
29	0	29	1	30	0	30	0	556.55125	0.00003	0.0002
30	0	30	1	31	0	31	0	556.37258	-0.00002	0.0002
31	0	31	1	32	0	32	0	556.19371	-0.00009	0.0002
32	0	32	1	33	0	33	0	556.01482	-0.00001	0.0002
33	0	33	1	34	0	34	0	555.83563	-0.00007	0.0002
34	0	34	1	35	0	35	0	555.65645	0.00005	0.0002
35	0	35	1	36	0	36	0	555.47704	0.00010	0.0002
36	0	36	1	37	0	37	0	555.29732	0.00002	0.0002
37	0	37	1	38	0	38	0	555.11744	-0.00005	0.0002
38	0	38	1	39	0	39	0	554.93755	0.00003	0.0002
39	0	39	1	40	0	40	0	554.75728	-0.00011	0.0002
40	0	40	1	41	0	41	0	554.57703	-0.00005	0.0002
41	0	41	1	42	0	42	0	554.39660	0.00000	0.0002
42	0	42	1	43	0	43	0	554.21586	-0.00011	0.0002
43	0	43	1	44	0	44	0	554.03517	0.00002	0.0002
44	0	44	1	45	0	45	0	553.85424	0.00005	0.0002
45	0	45	1	46	0	46	0	553.67306	0.00002	0.0002
46	0	46	1	47	0	47	0	553.49177	0.00003	0.0002
47	0	47	1	48	0	48	0	553.31038	0.00012	0.0002
48	0	48	1	49	0	49	0	553.12870	0.00008	0.0002
49	0	49	1	50	0	50	0	552.94689	0.00007	0.0002
50	0	50	1	51	0	51	0	552.76500	0.00015	0.0002
51	0	51	1	52	0	52	0	552.58283	0.00012	0.0002
52	0	52	1	53	0	53	0	552.40068	0.00028	0.0002
53	0	53	1	54	0	54	0	552.21820	0.00026	0.0002
54	0	54	1	55	0	55	0	552.03549	0.00019	0.0002
55	0	55	1	56	0	56	0	551.85268	0.00017	0.0002
56	0	56	1	57	0	57	0	551.66982	0.00027	0.0002
4	1	3	1	5	1	4	0	560.82973	0.00008	0.0002
5	1	4	1	6	1	5	0	560.65554	0.00006	0.0002
6	1	5	1	7	1	6	0	560.48110	0.00004	0.0002
7	1	6	1	8	1	7	0	560.30625	-0.00020	0.0002
8	1	7	1	9	1	8	0	560.13175	0.00008	0.0002
9	1	8	1	10	1	9	0	559.95669	-0.00004	0.0002
10	1	9	1	11	1	10	0	559.78161	0.00001	0.0002
11	1	10	1	12	1	11	0	559.60621	-0.00010	0.0002
12	1	11	1	13	1	12	0	559.43076	-0.00008	0.0002
13	1	12	1	14	1	13	0	559.25496	-0.00024	0.0002
14	1	13	1	15	1	14	0	559.07933	-0.00007	0.0002
15	1	14	1	16	1	15	0	558.90330	-0.00012	0.0002
16	1	15	1	17	1	16	0	558.72716	-0.00010	0.0002
17	1	16	1	18	1	17	0	558.55094	0.00000	0.0002
18	1	17	1	19	1	18	0	558.37449	0.00004	0.0002
19	1	18	1	20	1	19	0	558.19779	0.00001	0.0002
20	1	19	1	21	1	20	0	558.02098	0.00003	0.0002
21	1	20	1	22	1	21	0	557.84398	0.00003	0.0002
22	1	21	1	23	1	22	0	557.66674	-0.00003	0.0002
23	1	22	1	24	1	23	0	557.48940	-0.00003	0.0002
24	1	23	1	25	1	24	0	557.31192	0.00000	0.0002
25	1	24	1	26	1	25	0	557.13431	0.00007	0.0002
26	1	25	1	27	1	26	0	556.95645	0.00007	0.0002
27	1	26	1	28	1	27	0	556.77841	0.00005	0.0002
28	1	27	1	29	1	28	0	556.60019	0.00003	0.0002
29	1	28	1	30	1	29	0	556.42173	-0.00008	0.0002
30	1	29	1	31	1	30	0	556.24328	0.00000	0.0002
31	1	30	1	32	1	31	0	556.06464	0.00006	0.0002
32	1	31	1	33	1	32	0	555.88562	-0.00009	0.0002
33	1	32	1	34	1	33	0	555.70660	-0.00008	0.0002
34	1	33	1	35	1	34	0	555.52760	0.00012	0.0002
35	1	34	1	36	1	35	0	555.34807	-0.00004	0.0002
36	1	35	1	37	1	36	0	555.16867	0.00009	0.0002
37	1	36	1	38	1	37	0	554.98893	0.00007	0.0002
38	1	37	1	39	1	38	0	554.80891	-0.00008	0.0002
39	1	38	1	40	1	39	0	554.62888	-0.00007	0.0002
40	1	39	1	41	1	40	0	554.44878	0.00003	0.0002
41	1	40	1	42	1	41	0	554.26845	0.00007	0.0002
42	1	41	1	43	1	42	0	554.08783	-0.00001	0.0002
43	1	42	1	44	1	43	0	553.90711	-0.00002	0.0002
44	1	43	1	45	1	44	0	553.72626	0.00001	0.0002
45	1	44	1	46	1	45	0	553.54530	0.00009	0.0002
46	1	45	1	47	1	46	0	553.36406	0.00005	0.0002
47	1	46	1	48	1	47	0	553.18272	0.00009	0.0002

48	1	47	1	49	1	48	0	553.00132	0.00022	0.0002
49	1	48	1	50	1	49	0	552.81946	0.00007	0.0002
50	1	49	1	51	1	50	0	552.63765	0.00013	0.0002
51	1	50	1	52	1	51	0	552.45563	0.00015	0.0002
52	1	51	1	53	1	52	0	552.27337	0.00009	0.0002
53	1	52	1	54	1	53	0	552.09111	0.00020	0.0002
54	1	53	1	55	1	54	0	551.90852	0.00013	0.0002
55	1	54	1	56	1	55	0	551.72601	0.00032	0.0002
56	1	55	1	57	1	56	0	551.54316	0.00033	0.0002
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13	2	11	1	14	2	12	0	559.12427	0.00013	0.0002
14	2	12	1	15	2	13	0	558.94827	-0.00017	0.0002
15	2	13	1	16	2	14	0	558.77253	-0.00003	0.0002
16	2	14	1	17	2	15	0	558.59642	-0.00007	0.0002
17	2	15	1	18	2	16	0	558.42022	-0.00006	0.0002
18	2	16	1	19	2	17	0	558.24401	0.00013	0.0002
19	2	17	1	20	2	18	0	558.06740	0.00009	0.0002
20	2	18	1	21	2	19	0	557.89054	-0.00004	0.0002
21	2	19	1	22	2	20	0	557.71375	0.00008	0.0002
22	2	20	1	23	2	21	0	557.53653	-0.00006	0.0002
23	2	21	1	24	2	22	0	557.35931	-0.00003	0.0002
24	2	22	1	25	2	23	0	557.18196	0.00003	0.0002
25	2	23	1	26	2	24	0	557.00439	0.00005	0.0002
26	2	24	1	27	2	25	0	556.82654	-0.00005	0.0002
27	2	25	1	28	2	26	0	556.64857	-0.00009	0.0002
28	2	26	1	29	2	27	0	556.47059	0.00001	0.0002
29	2	27	1	30	2	28	0	556.29225	-0.00006	0.0002
30	2	28	1	31	2	29	0	556.11379	-0.00009	0.0002
31	2	29	1	32	2	30	0	555.93520	-0.00009	0.0002
32	2	30	1	33	2	31	0	555.75651	-0.00001	0.0002
33	2	31	1	34	2	32	0	555.57753	-0.00005	0.0002
34	2	32	1	35	2	33	0	555.39849	0.00001	0.0002
35	2	33	1	36	2	34	0	555.21912	-0.00009	0.0002
36	2	34	1	37	2	35	0	555.03980	0.00003	0.0002
37	2	35	1	38	2	36	0	554.86013	-0.00003	0.0002
38	2	36	1	39	2	37	0	554.68044	0.00005	0.0002
39	2	37	1	40	2	38	0	554.50039	-0.00006	0.0002
40	2	38	1	41	2	39	0	554.32037	0.00003	0.0002
41	2	39	1	42	2	40	0	554.14001	-0.00006	0.0002
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47	2	45	1	48	2	46	0	553.05505	0.00013	0.0002
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17	3	14	1	18	3	15	0	558.28960	0.00009	0.0002
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20	3	17	1	21	3	18	0	557.76012	0.00001	0.0002
21	3	18	1	22	3	19	0	557.58334	0.00005	0.0002
22	3	19	1	23	3	20	0	557.40624	-0.00008	0.0002
23	3	20	1	24	3	21	0	557.22913	-0.00004	0.0002
24	3	21	1	25	3	22	0	557.05181	-0.00004	0.0002
25	3	22	1	26	3	23	0	556.87444	0.00007	0.0002
26	3	23	1	27	3	24	0	556.69667	-0.00004	0.0002
27	3	24	1	28	3	25	0	556.51887	-0.00002	0.0002
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21	4	17	1	22	4	18	0	557.45280	-0.00003	0.0002
22	4	18	1	23	4	19	0	557.27601	0.00005	0.0002
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64	5	59	1	65	5	60	0	549.57007	0.00038	0.0002
65	5	60	1	66	5	61	0	549.38600	0.00022	0.0002
66	5	61	1	67	5	62	0	549.20209	0.00039	0.0002
67	5	62	1	68	5	63	0	549.01780	0.00034	0.0002
68	5	63	1	69	5	64	0	548.83348	0.00043	0.0002
14	6	8	1	15	6	9	0	558.42314	-0.00020	0.0002
17	6	11	1	18	6	12	0	557.89629	-0.00024	0.0002
18	6	12	1	19	6	13	0	557.72055	-0.00001	0.0002
19	6	13	1	20	6	14	0	557.54451	0.00010	0.0002
20	6	14	1	21	6	15	0	557.36802	-0.00006	0.0002
21	6	15	1	22	6	16	0	557.19149	-0.00010	0.0002
22	6	16	1	23	6	17	0	557.01517	0.00025	0.0002
23	6	17	1	24	6	18	0	556.83805	-0.00002	0.0002
24	6	18	1	25	6	19	0	556.66107	0.00002	0.0002
25	6	19	1	26	6	20	0	556.48386	-0.00001	0.0002
26	6	20	1	27	6	21	0	556.30652	0.00001	0.0002
27	6	21	1	28	6	22	0	556.12897	-0.00002	0.0002
28	6	22	1	29	6	23	0	555.95122	-0.00008	0.0002
29	6	23	1	30	6	24	0	555.77336	-0.00007	0.0002
30	6	24	1	31	6	25	0	555.59533	-0.00007	0.0002
31	6	25	1	32	6	26	0	555.41713	-0.00007	0.0002
32	6	26	1	33	6	27	0	555.23888	0.00005	0.0002
33	6	27	1	34	6	28	0	555.06028	-0.00002	0.0002
34	6	28	1	35	6	29	0	554.88154	-0.00005	0.0002
35	6	29	1	36	6	30	0	554.70270	-0.00002	0.0002
36	6	30	1	37	6	31	0	554.52366	-0.00002	0.0002
37	6	31	1	38	6	32	0	554.34454	0.00007	0.0002
38	6	32	1	39	6	33	0	554.16509	-0.00001	0.0002
39	6	33	1	40	6	34	0	553.98556	0.00000	0.0002
40	6	34	1	41	6	35	0	553.80583	-0.00003	0.0002
41	6	35	1	42	6	36	0	553.62593	-0.00005	0.0002
42	6	36	1	43	6	37	0	553.44598	0.00004	0.0002
43	6	37	1	44	6	38	0	553.26569	-0.00005	0.0002
44	6	38	1	45	6	39	0	553.08543	0.00006	0.0002
45	6	39	1	46	6	40	0	552.90470	-0.00013	0.0002
46	6	40	1	47	6	41	0	552.72428	0.00015	0.0002
47	6	41	1	48	6	42	0	552.54343	0.00016	0.0002
48	6	42	1	49	6	43	0	552.36235	0.00011	0.0002
49	6	43	1	50	6	44	0	552.18098	-0.00005	0.0002
50	6	44	1	51	6	45	0	551.99975	0.00008	0.0002
51	6	45	1	52	6	46	0	551.81816	0.00001	0.0002
52	6	46	1	53	6	47	0	551.63622	-0.00024	0.0002
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55	6	49	1	56	6	50	0	551.09042	0.00002	0.0002
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57	6	51	1	58	6	52	0	550.72577	0.00023	0.0002
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59	6	53	1	60	6	54	0	550.36014	0.00010	0.0002
60	6	54	1	61	6	55	0	550.17723	0.00019	0.0002
61	6	55	1	62	6	56	0	549.99422	0.00034	0.0002
62	6	56	1	63	6	57	0	549.81076	0.00021	0.0002
63	6	57	1	64	6	58	0	549.62717	0.00011	0.0002
64	6	58	1	65	6	59	0	549.44375	0.00034	0.0002
65	6	59	1	66	6	60	0	549.25993	0.00033	0.0002
66	6	60	1	67	6	61	0	549.07583	0.00021	0.0002
67	6	61	1	68	6	62	0	548.89203	0.00053	0.0002
14	7	7	1	15	7	8	0	558.29141	-0.00007	0.0002
15	7	8	1	16	7	9	0	558.11621	-0.00009	0.0002
16	7	9	1	17	7	10	0	557.94092	0.00004	0.0002
17	7	10	1	18	7	11	0	557.76511	-0.00013	0.0002
18	7	11	1	19	7	12	0	557.58925	-0.00015	0.0002
19	7	12	1	20	7	13	0	557.41337	-0.00001	0.0002
20	7	13	1	21	7	14	0	557.23714	-0.00003	0.0002
21	7	14	1	22	7	15	0	557.06088	0.00010	0.0002
22	7	15	1	23	7	16	0	556.88412	-0.00010	0.0002
23	7	16	1	24	7	17	0	556.70744	-0.00004	0.0002
24	7	17	1	25	7	18	0	556.53051	-0.00007	0.0002
25	7	18	1	26	7	19	0	556.35359	0.00009	0.0002
26	7	19	1	27	7	20	0	556.17623	-0.00001	0.0002
27	7	20	1	28	7	21	0	555.99873	-0.00009	0.0002
28	7	21	1	29	7	22	0	555.82122	-0.00001	0.0002
29	7	22	1	30	7	23	0	555.64350	0.00003	0.0002
30	7	23	1	31	7	24	0	555.46544	-0.00011	0.0002
31	7	24	1	32	7	25	0	555.28742	-0.00003	0.0002
32	7	25	1	33	7	26	0	555.10935	0.00017	0.0002
33	7	26	1	34	7	27	0	554.93087	0.00013	0.0002
34	7	27	1	35	7	28	0	554.75223	0.00009	0.0002
35	7	28	1	36	7	29	0	554.57347	0.00009	0.0002
36	7	29	1	37	7	30	0	554.39448	0.00005	0.0002
38	7	31	1	39	7	32	0	554.03605	-0.00001	0.0002
39	7	32	1	40	7	33	0	553.85674	0.00012	0.0002
40	7	33	1	41	7	34	0	553.67693	-0.00009	0.0002
41	7	34	1	42	7	35	0	553.49722	-0.00002	0.0002
42	7	35	1	43	7	36	0	553.31730	0.00000	0.0002

43	7	36	1	44	7	37	0	553.13724	0.00003	0.0002
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45	7	38	1	46	7	39	0	552.77659	0.00009	0.0002
47	7	40	1	48	7	41	0	552.41516	0.00002	0.0002
48	7	41	1	49	7	42	0	552.23443	0.00023	0.0002
50	7	43	1	51	7	44	0	551.87197	0.00012	0.0002
51	7	44	1	52	7	45	0	551.69050	0.00007	0.0002
52	7	45	1	53	7	46	0	551.50883	-0.00002	0.0002
53	7	46	1	54	7	47	0	551.32706	-0.00003	0.0002
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55	7	48	1	56	7	49	0	550.96326	0.00017	0.0002
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19	8	11	1	20	8	12	0	557.28206	-0.00011	0.0002
20	8	12	1	21	8	13	0	557.10609	-0.00001	0.0002
21	8	13	1	22	8	14	0	556.92971	-0.00013	0.0002
22	8	14	1	23	8	15	0	556.75312	-0.00028	0.0002
23	8	15	1	24	8	16	0	556.57679	0.00001	0.0002
24	8	16	1	25	8	17	0	556.40000	0.00001	0.0002
25	8	17	1	26	8	18	0	556.22293	-0.00008	0.0002
26	8	18	1	27	8	19	0	556.04588	0.00001	0.0002
27	8	19	1	28	8	20	0	555.86849	-0.00006	0.0002
28	8	20	1	29	8	21	0	555.69083	-0.00024	0.0002
29	8	21	1	30	8	22	0	555.51323	-0.00019	0.0002
30	8	22	1	31	8	23	0	555.33560	0.00001	0.0002
31	8	23	1	32	8	24	0	555.15765	0.00005	0.0002
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33	8	25	1	34	8	26	0	554.80112	0.00002	0.0002
34	8	26	1	35	8	27	0	554.62250	-0.00010	0.0002
35	8	27	1	36	8	28	0	554.44377	-0.00016	0.0002
36	8	28	1	37	8	29	0	554.26491	-0.00018	0.0002
37	8	29	1	38	8	30	0	554.08613	0.00003	0.0002
38	8	30	1	39	8	31	0	553.90711	0.00019	0.0002
39	8	31	1	40	8	32	0	553.72767	0.00008	0.0002
40	8	32	1	41	8	33	0	553.54808	-0.00001	0.0002
41	8	33	1	42	8	34	0	553.36838	-0.00003	0.0002
42	8	34	1	43	8	35	0	553.18855	-0.00003	0.0002
43	8	35	1	44	8	36	0	553.00861	0.00003	0.0002
44	8	36	1	45	8	37	0	552.82825	-0.00016	0.0002
45	8	37	1	46	8	38	0	552.64806	-0.00003	0.0002
46	8	38	1	47	8	39	0	552.46760	0.00002	0.0002
47	8	39	1	48	8	40	0	552.28718	0.00026	0.0002
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19	9	10	1	20	9	11	0	557.15068	-0.00003	0.0002
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22	9	13	1	23	9	14	0	556.62245	0.00003	0.0002
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27	9	18	1	28	9	19	0	555.73815	-0.00002	0.0002
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30	9	21	1	31	9	22	0	555.20548	-0.00005	0.0002
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46	9	37	1	47	9	38	0	552.33914	-0.00004	0.0002
47	9	38	1	48	9	39	0	552.15877	0.00014	0.0002
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19	10	9	1	20	10	10	0	557.01884	-0.00006	0.0002
20	10	10	1	21	10	11	0	556.84333	0.00007	0.0002
21	10	11	1	22	10	12	0	556.66720	-0.00016	0.0002
22	10	12	1	23	10	13	0	556.49125	0.00002	0.0002
23	10	13	1	24	10	14	0	556.31480	-0.00009	0.0002
24	10	14	1	25	10	15	0	556.13829	-0.00007	0.0002
25	10	15	1	26	10	16	0	555.96173	0.00008	0.0002
26	10	16	1	27	10	17	0	555.78471	-0.00003	0.0002
27	10	17	1	28	10	18	0	555.60773	0.00007	0.0002
28	10	18	1	29	10	19	0	555.43053	0.00013	0.0002
29	10	19	1	30	10	20	0	555.25297	0.00001	0.0002
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31	10	21	1	32	10	22	0	554.89765	0.00008	0.0002
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33	10	23	1	34	10	24	0	554.54148	-0.00003	0.0002
34	10	24	1	35	10	25	0	554.36314	-0.00008	0.0002
35	10	25	1	36	10	26	0	554.18478	0.00002	0.0002
36	10	26	1	37	10	27	0	554.00621	0.00008	0.0002
37	10	27	1	38	10	28	0	553.82740	0.00006	0.0002
38	10	28	1	39	10	29	0	553.64825	-0.00013	0.0002
41	10	31	1	42	10	32	0	553.11045	-0.00003	0.0002
42	10	32	1	43	10	33	0	552.93079	-0.00007	0.0002
43	10	33	1	44	10	34	0	552.75092	-0.00014	0.0002
44	10	34	1	45	10	35	0	552.57125	0.00015	0.0002
45	10	35	1	46	10	36	0	552.39093	-0.00005	0.0002
46	10	36	1	47	10	37	0	552.21067	-0.00002	0.0002
47	10	37	1	48	10	38	0	552.03025	0.00001	0.0002
48	10	38	1	49	10	39	0	551.84971	0.00010	0.0002
50	10	40	1	51	10	41	0	551.48811	0.00023	0.0002
51	10	41	1	52	10	42	0	551.30665	-0.00012	0.0002
52	10	42	1	53	10	43	0	551.12561	0.00012	0.0002

53	10	43	1	54	10	44	0	550.94436	0.00031	0.0002
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57	10	47	1	58	10	48	0	550.21650	-0.00016	0.0002
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62	10	52	1	63	10	53	0	549.30389	0.00014	0.0002
63	10	53	1	64	10	54	0	549.12088	0.00020	0.0002
64	10	54	1	65	10	55	0	548.93787	0.00042	0.0002
65	10	55	1	66	10	56	0	548.75411	0.00005	0.0002
66	10	56	1	67	10	57	0	548.57071	0.00019	0.0002
67	10	57	1	68	10	58	0	548.38699	0.00018	0.0002
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70	10	60	1	71	10	61	0	547.83503	0.00032	0.0002
71	10	61	1	72	10	62	0	547.65053	0.00017	0.0002
5	0	5	1	4	0	4	0	562.82840	0.00010	0.0002
7	0	7	1	6	0	6	0	563.17320	-0.00001	0.0002
8	0	8	1	7	0	7	0	563.34545	0.00004	0.0002
9	0	9	1	8	0	8	0	563.51750	0.00007	0.0002
10	0	10	1	9	0	9	0	563.68931	0.00004	0.0002
11	0	11	1	10	0	10	0	563.86102	0.00008	0.0002
12	0	12	1	11	0	11	0	564.03239	-0.00003	0.0002
13	0	13	1	12	0	12	0	564.20370	-0.00004	0.0002
14	0	14	1	13	0	13	0	564.37494	0.00006	0.0002
15	0	15	1	14	0	14	0	564.54582	-0.00002	0.0002
16	0	16	1	15	0	15	0	564.71661	-0.00003	0.0002
17	0	17	1	16	0	16	0	564.88716	-0.00009	0.0002
18	0	18	1	17	0	17	0	565.05773	0.00005	0.0002
19	0	19	1	18	0	18	0	565.22797	0.00002	0.0002
20	0	20	1	19	0	19	0	565.39805	0.00002	0.0002
21	0	21	1	20	0	20	0	565.56792	-0.00001	0.0002
22	0	22	1	21	0	21	0	565.73764	-0.00003	0.0002
23	0	23	1	22	0	22	0	565.90729	0.00006	0.0002
24	0	24	1	23	0	23	0	566.07659	-0.00001	0.0002
25	0	25	1	24	0	24	0	566.24576	-0.00004	0.0002
26	0	26	1	25	0	25	0	566.41476	-0.00007	0.0002
27	0	27	1	26	0	26	0	566.58367	0.00000	0.0002
28	0	28	1	27	0	27	0	566.75228	-0.00007	0.0002
29	0	29	1	28	0	28	0	566.92087	0.00003	0.0002
30	0	30	1	29	0	29	0	567.08911	-0.00004	0.0002
31	0	31	1	30	0	30	0	567.25734	0.00005	0.0002
32	0	32	1	31	0	31	0	567.42510	-0.00015	0.0002
33	0	33	1	32	0	32	0	567.59296	-0.00007	0.0002
34	0	34	1	33	0	33	0	567.76071	0.00007	0.0002
35	0	35	1	34	0	34	0	567.92795	-0.00012	0.0002
36	0	36	1	35	0	35	0	568.09529	-0.00002	0.0002
37	0	37	1	36	0	36	0	568.26239	0.00000	0.0002
38	0	38	1	37	0	37	0	568.42925	-0.00003	0.0002
39	0	39	1	38	0	38	0	568.59598	-0.00002	0.0002
40	0	40	1	39	0	39	0	568.76258	0.00004	0.0002
41	0	41	1	40	0	40	0	568.92886	-0.00004	0.0002
42	0	42	1	41	0	41	0	569.09503	-0.00005	0.0002
43	0	43	1	42	0	42	0	569.26107	-0.00002	0.0002
44	0	44	1	43	0	43	0	569.42678	-0.00013	0.0002
45	0	45	1	44	0	44	0	569.59253	-0.00003	0.0002
46	0	46	1	45	0	45	0	569.75789	-0.00015	0.0002
47	0	47	1	46	0	46	0	569.92322	-0.00011	0.0002
48	0	48	1	47	0	47	0	570.08842	-0.00003	0.0002
49	0	49	1	48	0	48	0	570.25329	-0.00010	0.0002
50	0	50	1	49	0	49	0	570.41810	-0.00004	0.0002
51	0	51	1	50	0	50	0	570.58265	-0.00007	0.0002
52	0	52	1	51	0	51	0	570.74711	-0.00002	0.0002
53	0	53	1	52	0	52	0	570.91114	-0.00022	0.0002
54	0	54	1	53	0	53	0	571.07520	-0.00021	0.0002
55	0	55	1	54	0	54	0	571.23904	-0.00025	0.0002
8	1	7	1	7	1	6	0	563.47813	-0.00015	0.0002
9	1	8	1	8	1	7	0	563.65038	-0.00001	0.0002
10	1	9	1	9	1	8	0	563.82214	-0.00019	0.0002
11	1	10	1	10	1	9	0	563.99400	-0.00008	0.0002
12	1	11	1	11	1	10	0	564.16558	-0.00008	0.0002
13	1	12	1	12	1	11	0	564.33709	0.00002	0.0002
14	1	13	1	13	1	12	0	564.50832	0.00001	0.0002
15	1	14	1	14	1	13	0	564.67946	0.00009	0.0002
16	1	15	1	15	1	14	0	564.85013	-0.00012	0.0002
17	1	16	1	16	1	15	0	565.02102	0.00006	0.0002
18	1	17	1	17	1	16	0	565.19150	0.00001	0.0002
19	1	18	1	18	1	17	0	565.36181	-0.00004	0.0002
20	1	19	1	19	1	18	0	565.53204	0.00002	0.0002
21	1	20	1	20	1	19	0	565.70198	-0.00004	0.0002
22	1	21	1	21	1	20	0	565.87188	0.00003	0.0002
23	1	22	1	22	1	21	0	566.04156	0.00006	0.0002
24	1	23	1	23	1	22	0	566.21087	-0.00009	0.0002
25	1	24	1	24	1	23	0	566.38032	0.00006	0.0002
26	1	25	1	25	1	24	0	566.54937	-0.00001	0.0002
27	1	26	1	26	1	25	0	566.71833	0.00002	0.0002
28	1	27	1	27	1	26	0	566.88705	-0.00002	0.0002
29	1	28	1	28	1	27	0	567.05571	0.00005	0.0002
30	1	29	1	29	1	28	0	567.22409	0.00002	0.0002
31	1	30	1	30	1	29	0	567.39231	0.00001	0.0002
32	1	31	1	31	1	30	0	567.56038	0.00003	0.0002
33	1	32	1	32	1	31	0	567.72825	0.00003	0.0002
34	1	33	1	33	1	32	0	567.89586	-0.00006	0.0002
35	1	34	1	34	1	33	0	568.06345	0.00001	0.0002
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37	1	36	1	36	1	35	0	568.39823	0.00028	0.0002
38	1	37	1	37	1	36	0	568.56487	-0.00007	0.0002
39	1	38	1	38	1	37	0	568.73157	-0.00017	0.0002
40	1	39	1	39	1	38	0	568.89834	-0.00003	0.0002
41	1	40	1	40	1	39	0	569.06484	0.00001	0.0002
42	1	41	1	41	1	40	0	569.23109	-0.00001	0.0002
43	1	42	1	42	1	41	0	569.39718	-0.00001	0.0002
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45	1	44	1	44	1	43	0	569.72879	-0.00006	0.0002
46	1	45	1	45	1	44	0	569.89434	-0.00008	0.0002
47	1	46	1	46	1	45	0	570.05976	-0.00004	0.0002
48	1	47	1	47	1	46	0	570.22499	-0.00002	0.0002
49	1	48	1	48	1	47	0	570.39002	-0.00002	0.0002
50	1	49	1	49	1	48	0	570.55494	0.00006	0.0002
51	1	50	1	50	1	49	0	570.71935	-0.00021	0.0002
52	1	51	1	51	1	50	0	570.88385	-0.00020	0.0002
53	1	52	1	52	1	51	0	571.04821	-0.00016	0.0002
54	1	53	1	53	1	52	0	571.21238	-0.00013	0.0002
55	1	54	1	54	1	53	0	571.37628	-0.00019	0.0002
56	1	55	1	55	1	54	0	571.54001	-0.00024	0.0002
8	2	6	1	7	2	5	0	563.61088	-0.00022	0.0002
9	2	7	1	8	2	6	0	563.78350	0.00021	0.0002
10	2	8	1	9	2	7	0	563.95535	0.00005	0.0002
11	2	9	1	10	2	8	0	564.12702	-0.00013	0.0002
12	2	10	1	11	2	9	0	564.29872	-0.00010	0.0002
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17	2	15	1	16	2	14	0	565.15461	0.00003	0.0002
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19	2	17	1	18	2	16	0	565.49556	-0.00008	0.0002
20	2	18	1	19	2	17	0	565.66591	0.00000	0.0002
21	2	19	1	20	2	18	0	565.83602	0.00001	0.0002
22	2	20	1	21	2	19	0	566.00584	-0.00008	0.0002
23	2	21	1	22	2	20	0	566.17573	0.00006	0.0002
24	2	22	1	23	2	21	0	566.34513	-0.00010	0.0002
25	2	23	1	24	2	22	0	566.51457	-0.00005	0.0002
26	2	24	1	25	2	23	0	566.68385	0.00003	0.0002
27	2	25	1	26	2	24	0	566.85291	0.00005	0.0002
28	2	26	1	27	2	25	0	567.02162	-0.00009	0.0002
29	2	27	1	28	2	26	0	567.19042	0.00004	0.0002
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32	2	30	1	31	2	29	0	567.69533	-0.00002	0.0002
33	2	31	1	32	2	30	0	567.86334	0.00002	0.0002
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35	2	33	1	34	2	32	0	568.19872	0.00000	0.0002
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37	3	34	1	36	3	33	0	568.66868	-0.00007	0.0002
38	3	35	1	37	3	34	0	568.83602	0.00009	0.0002
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40	3	37	1	39	3	36	0	569.16975	0.00003	0.0002
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47	3	44	1	46	3	43	0	570.33236	-0.00005	0.0002
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47	4	43	1	46	4	42	0	570.46852	-0.00005	0.0002
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55	4	51	1	54	4	50	0	571.78713	-0.00024	0.0002
56	4	52	1	55	4	51	0	571.95119	-0.00023	0.0002
57	4	53	1	56	4	52	0	572.11509	-0.00019	0.0002
58	4	54	1	57	4	53	0	572.27872	-0.00026	0.0002
61	4	57	1	60	4	56	0	572.76854	-0.00045	0.0002
62	4	58	1	61	4	57	0	572.93156	-0.00041	0.0002
63	4	59	1	62	4	58	0	573.09442	-0.00036	0.0002
64	4	60	1	63	4	59	0	573.25697	-0.00044	0.0002
65	4	61	1	64	4	60	0	573.41948	-0.00037	0.0002
10	5	5	1	9	5	4	0	564.35475	-0.00032	0.0002
11	5	6	1	10	5	5	0	564.52641	0.00001	0.0002
12	5	7	1	11	5	6	0	564.69817	0.00006	0.0002
13	5	8	1	12	5	7	0	564.86985	0.00010	0.0002
14	5	9	1	13	5	8	0	565.04130	0.00002	0.0002
15	5	10	1	14	5	9	0	565.21275	0.00010	0.0002
16	5	11	1	15	5	10	0	565.38373	-0.00014	0.0002
17	5	12	1	16	5	11	0	565.55488	-0.00004	0.0002
18	5	13	1	17	5	12	0	565.72581	0.00001	0.0002
19	5	14	1	18	5	13	0	565.89644	-0.00007	0.0002
20	5	15	1	19	5	14	0	566.06713	0.00009	0.0002
21	5	16	1	20	5	15	0	566.23742	0.00001	0.0002
22	5	17	1	21	5	16	0	566.40760	0.00001	0.0002
23	5	18	1	22	5	17	0	566.57761	0.00001	0.0002
24	5	19	1	23	5	18	0	566.74745	0.00001	0.0002
25	5	20	1	24	5	19	0	566.91711	0.00001	0.0002
26	5	21	1	25	5	20	0	567.08657	-0.00001	0.0002
27	5	22	1	26	5	21	0	567.25591	0.00003	0.0002
28	5	23	1	27	5	22	0	567.42510	0.00009	0.0002
29	5	24	1	28	5	23	0	567.59416	0.00020	0.0002
30	5	25	1	29	5	24	0	567.76275	0.00002	0.0002
31	5	26	1	30	5	25	0	567.93127	-0.00005	0.0002
32	5	27	1	31	5	26	0	568.09969	-0.00005	0.0002
33	5	28	1	32	5	27	0	568.26798	0.00000	0.0002
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35	5	30	1	34	5	29	0	568.60385	-0.00007	0.0002
36	5	31	1	35	5	30	0	568.77165	0.00002	0.0002
37	5	32	1	36	5	31	0	568.93917	0.00002	0.0002
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39	5	34	1	38	5	33	0	569.27351	-0.00016	0.0002
40	5	35	1	39	5	34	0	569.44063	-0.00004	0.0002
41	5	36	1	40	5	35	0	569.60742	-0.00006	0.0002
42	5	37	1	41	5	36	0	569.77412	0.00001	0.0002
43	5	38	1	42	5	37	0	569.94056	-0.00001	0.0002
44	5	39	1	43	5	38	0	570.10685	0.00000	0.0002
45	5	40	1	44	5	39	0	570.27296	0.00002	0.0002
46	5	41	1	45	5	40	0	570.43882	-0.00005	0.0002

47	5	42	1	46	5	41	0	570.60456	-0.00005	0.0002
48	5	43	1	47	5	42	0	570.77015	-0.00002	0.0002
49	5	44	1	48	5	43	0	570.93557	0.00001	0.0002
50	5	45	1	49	5	44	0	571.10080	0.00003	0.0002
51	5	46	1	50	5	45	0	571.26572	-0.00007	0.0002
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53	5	48	1	52	5	47	0	571.59516	-0.00015	0.0002
54	5	49	1	53	5	48	0	571.75952	-0.00028	0.0002
55	5	50	1	54	5	49	0	571.92400	-0.00011	0.0002
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59	5	54	1	58	5	53	0	572.57969	0.00010	0.0002
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61	5	56	1	60	5	55	0	572.90576	-0.00050	0.0002
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64	5	59	1	63	5	58	0	573.39456	-0.00037	0.0002
65	5	60	1	64	5	59	0	573.55700	-0.00047	0.0002
66	5	61	1	65	5	60	0	573.71936	-0.00047	0.0002
67	5	62	1	66	5	61	0	573.88148	-0.00052	0.0002
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17	6	11	1	16	6	10	0	565.68828	0.00002	0.0002
18	6	12	1	17	6	11	0	565.85916	-0.00005	0.0002
19	6	13	1	18	6	12	0	566.03004	0.00005	0.0002
20	6	14	1	19	6	13	0	566.20077	0.00017	0.0002
21	6	15	1	20	6	14	0	566.37113	0.00008	0.0002
22	6	16	1	21	6	15	0	566.54128	-0.00004	0.0002
23	6	17	1	22	6	16	0	566.71134	-0.00007	0.0002
24	6	18	1	23	6	17	0	566.88144	0.00011	0.0002
25	6	19	1	24	6	18	0	567.05104	-0.00003	0.0002
26	6	20	1	25	6	19	0	567.22072	0.00007	0.0002
27	6	21	1	26	6	20	0	567.39009	0.00005	0.0002
28	6	22	1	27	6	21	0	567.55910	-0.00015	0.0002
29	6	23	1	28	6	22	0	567.72825	-0.00004	0.0002
30	6	24	1	29	6	23	0	567.89721	0.00006	0.0002
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32	6	26	1	31	6	25	0	568.23425	-0.00009	0.0002
33	6	27	1	32	6	26	0	568.40274	0.00007	0.0002
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35	6	29	1	34	6	28	0	568.73873	-0.00006	0.0002
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39	6	33	1	38	6	32	0	569.40888	-0.00002	0.0002
40	6	34	1	39	6	33	0	569.57641	0.00043	0.0002
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43	6	37	1	42	6	36	0	570.07613	-0.00002	0.0002
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17	7	10	1	16	7	9	0	565.82158	-0.00004	0.0002
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20	7	13	1	19	7	12	0	566.33410	-0.00001	0.0002
21	7	14	1	20	7	13	0	566.50460	-0.00003	0.0002
22	7	15	1	21	7	14	0	566.67505	0.00007	0.0002
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42	9	33	1	41	9	32	0	570.31547	-0.00001	0.0002
43	9	34	1	42	9	33	0	570.48241	0.00012	0.0002
44	9	35	1	43	9	34	0	570.64902	0.00011	0.0002
45	9	36	1	44	9	35	0	570.81544	0.00007	0.0002
46	9	37	1	45	9	36	0	570.98170	0.00006	0.0002
47	9	38	1	46	9	37	0	571.14768	-0.00005	0.0002
48	9	39	1	47	9	38	0	571.31363	-0.00002	0.0002
49	9	40	1	48	9	39	0	571.47938	0.00000	0.0002
50	9	41	1	49	9	40	0	571.64495	0.00001	0.0002
51	9	42	1	50	9	41	0	571.81039	0.00008	0.0002
52	9	43	1	51	9	42	0	571.97550	-0.00002	0.0002
53	9	44	1	52	9	43	0	572.14043	-0.00010	0.0002
54	9	45	1	53	9	44	0	572.30511	-0.00026	0.0002
55	9	46	1	54	9	45	0	572.46994	-0.00010	0.0002
56	9	47	1	55	9	46	0	572.63410	-0.00042	0.0002
57	9	48	1	56	9	47	0	572.79872	-0.00010	0.0002
58	9	49	1	57	9	48	0	572.96285	-0.00009	0.0002
59	9	50	1	58	9	49	0	573.12681	-0.00008	0.0002
60	9	51	1	59	9	50	0	573.29060	-0.00006	0.0002
61	9	52	1	60	9	51	0	573.45413	-0.00012	0.0002
62	9	53	1	61	9	52	0	573.61755	-0.00011	0.0002
63	9	54	1	62	9	53	0	573.78048	-0.00041	0.0002
64	9	55	1	63	9	54	0	573.94411	0.00017	0.0002
65	9	56	1	64	9	55	0	574.10667	-0.00015	0.0002
66	9	57	1	65	9	56	0	574.26916	-0.00035	0.0002
68	9	59	1	67	9	58	0	574.59406	-0.00032	0.0002
69	9	60	1	68	9	59	0	574.75609	-0.00045	0.0002

13	10	3	1	12	10	2	0	565.58266	0.00024	0.0002
14	10	4	1	13	10	3	0	565.75779	0.00028	0.0002
16	10	6	1	15	10	5	0	566.05577	-0.00016	0.0002
17	10	7	1	16	10	6	0	566.22376	-0.00015	0.0002
18	10	8	1	17	10	7	0	566.39394	0.00001	0.0002
19	10	9	1	18	10	8	0	566.56438	0.00000	0.0002
20	10	10	1	19	10	9	0	566.73490	-0.00002	0.0002
21	10	11	1	20	10	10	0	566.90540	-0.00003	0.0002
22	10	12	1	21	10	11	0	567.07586	0.00001	0.0002
23	10	13	1	22	10	12	0	567.24627	0.00011	0.0002
24	10	14	1	23	10	13	0	567.41626	-0.00007	0.0002
25	10	15	1	24	10	14	0	567.58633	-0.00002	0.0002
26	10	16	1	25	10	15	0	567.75620	-0.00001	0.0002
27	10	17	1	26	10	16	0	567.92589	-0.00002	0.0002
28	10	18	1	27	10	17	0	568.09529	-0.00015	0.0002
29	10	19	1	28	10	18	0	568.26489	0.00009	0.0002
30	10	20	1	29	10	19	0	568.43405	0.00006	0.0002
32	10	22	1	31	10	21	0	568.77165	-0.00020	0.0002
33	10	23	1	32	10	22	0	568.94055	0.00003	0.0002
34	10	24	1	33	10	23	0	569.10904	0.00003	0.0002
35	10	25	1	34	10	24	0	569.27734	0.00002	0.0002
36	10	26	1	35	10	25	0	569.44525	-0.00022	0.0002
37	10	27	1	36	10	26	0	569.61343	0.00000	0.0002
38	10	28	1	37	10	27	0	569.78137	0.00015	0.0002
39	10	29	1	38	10	28	0	569.94881	-0.00001	0.0002
40	10	30	1	39	10	29	0	570.11611	-0.00015	0.0002
41	10	31	1	40	10	30	0	570.28344	-0.00006	0.0002
42	10	32	1	41	10	31	0	570.45061	0.00003	0.0002
43	10	33	1	42	10	32	0	570.61748	0.00001	0.0002
44	10	34	1	43	10	33	0	570.78424	0.00005	0.0002
45	10	35	1	44	10	34	0	570.95086	0.00014	0.0002
46	10	36	1	45	10	35	0	571.11709	0.00001	0.0002
47	10	37	1	46	10	36	0	571.28327	0.00001	0.0002
48	10	38	1	47	10	37	0	571.44947	0.00020	0.0002
49	10	39	1	48	10	38	0	571.61513	0.00004	0.0002
50	10	40	1	49	10	39	0	571.78071	-0.00001	0.0002
51	10	41	1	50	10	40	0	571.94614	-0.00005	0.0002
52	10	42	1	51	10	41	0	572.11158	0.00011	0.0002
53	10	43	1	52	10	42	0	572.27624	-0.00034	0.0002
55	10	45	1	54	10	44	0	572.60594	-0.00031	0.0002
56	10	46	1	55	10	45	0	572.77084	0.00002	0.0002
57	10	47	1	56	10	46	0	572.93522	0.00001	0.0002
58	10	48	1	57	10	47	0	573.09933	-0.00009	0.0002
59	10	49	1	58	10	48	0	573.26348	0.00003	0.0002
60	10	50	1	59	10	49	0	573.42763	0.00032	0.0002
61	10	51	1	60	10	50	0	573.59083	-0.00014	0.0002
62	10	52	1	61	10	51	0	573.75431	-0.00016	0.0002
63	10	53	1	62	10	52	0	573.91763	-0.00016	0.0002
64	10	54	1	63	10	53	0	574.08083	-0.00009	0.0002
65	10	55	1	64	10	54	0	574.24370	-0.00019	0.0002
66	10	56	1	65	10	55	0	574.40637	-0.00029	0.0002
67	10	57	1	66	10	56	0	574.56894	-0.00033	0.0002
18	11	7	1	19	11	8	0	557.06088	-0.00028	0.0002
19	11	8	1	20	11	9	0	556.88637	-0.00012	0.0002
20	11	9	1	21	11	10	0	556.71133	0.00007	0.0002
21	11	10	1	22	11	11	0	556.53566	-0.00001	0.0002
22	11	11	1	23	11	12	0	556.35960	-0.00018	0.0002
23	11	12	1	24	11	13	0	556.18361	-0.00003	0.0002
24	11	13	1	25	11	14	0	556.00727	0.00000	0.0002
25	11	14	1	26	11	15	0	555.83087	0.00017	0.0002
26	11	15	1	27	11	16	0	555.65393	-0.00001	0.0002
27	11	16	1	28	11	17	0	555.47704	0.00004	0.0002
28	11	17	1	29	11	18	0	555.29989	0.00003	0.0002
29	11	18	1	30	11	19	0	555.12250	-0.00004	0.0002
30	11	19	1	31	11	20	0	554.94509	0.00003	0.0002
31	11	20	1	32	11	21	0	554.76743	0.00004	0.0002
32	11	21	1	33	11	22	0	554.58965	0.00009	0.0002
33	11	22	1	34	11	23	0	554.41162	0.00008	0.0002
34	11	23	1	35	11	24	0	554.23333	-0.00003	0.0002
35	11	24	1	36	11	25	0	554.05503	0.00002	0.0002
36	11	25	1	37	11	26	0	553.87643	-0.00006	0.0002
37	11	26	1	38	11	27	0	553.69788	0.00008	0.0002
38	11	27	1	39	11	28	0	553.51895	-0.00001	0.0002
39	11	28	1	40	11	29	0	553.33993	0.00000	0.0002
40	11	29	1	41	11	30	0	553.16105	0.00031	0.0002
41	11	30	1	42	11	31	0	552.98144	0.00006	0.0002
42	11	31	1	43	11	32	0	552.80192	0.00006	0.0002
43	11	32	1	44	11	33	0	552.62206	-0.00010	0.0002
44	11	33	1	45	11	34	0	552.44250	0.00019	0.0002

45	11	34	1	46	11	35	0	552.26239	0.00010	0.0002
46	11	35	1	47	11	36	0	552.08205	-0.00005	0.0002
47	11	36	1	48	11	37	0	551.90176	0.00000	0.0002
48	11	37	1	49	11	38	0	551.72128	0.00004	0.0002
49	11	38	1	50	11	39	0	551.54053	-0.00002	0.0002
50	11	39	1	51	11	40	0	551.35985	0.00014	0.0002
51	11	40	1	52	11	41	0	551.17892	0.00021	0.0002
52	11	41	1	53	11	42	0	550.99746	-0.00007	0.0002
53	11	42	1	54	11	43	0	550.81621	0.00002	0.0002
54	11	43	1	55	11	44	0	550.63482	0.00012	0.0002
56	11	45	1	57	11	46	0	550.27121	0.00001	0.0002
57	11	46	1	58	11	47	0	550.08930	0.00009	0.0002
58	11	47	1	59	11	48	0	549.90700	-0.00006	0.0002
59	11	48	1	60	11	49	0	549.72503	0.00027	0.0002
60	11	49	1	61	11	50	0	549.54247	0.00019	0.0002
61	11	50	1	62	11	51	0	549.35976	0.00012	0.0002
62	11	51	1	63	11	52	0	549.17692	0.00008	0.0002
63	11	52	1	64	11	53	0	548.99398	0.00010	0.0002
64	11	53	1	65	11	54	0	548.81089	0.00013	0.0002
65	11	54	1	66	11	55	0	548.62772	0.00024	0.0002
66	11	55	1	67	11	56	0	548.44428	0.00025	0.0002
67	11	56	1	68	11	57	0	548.26045	0.00002	0.0002
68	11	57	1	69	11	58	0	548.07693	0.00027	0.0002
69	11	58	1	70	11	59	0	547.89305	0.00032	0.0002
70	11	59	1	71	11	60	0	547.70905	0.00040	0.0002
71	11	60	1	72	11	61	0	547.52442	0.00002	0.0002
72	11	61	1	73	11	62	0	547.34033	0.00033	0.0002
73	11	62	1	74	11	63	0	547.15575	0.00031	0.0002
75	11	64	1	76	11	65	0	546.78580	-0.00003	0.0002
76	11	65	1	77	11	66	0	546.60092	0.00013	0.0002
77	11	66	1	78	11	67	0	546.41601	0.00041	0.0002
78	11	67	1	79	11	68	0	546.23075	0.00051	0.0002
18	12	6	1	19	12	7	0	556.92541	-0.00024	0.0002
19	12	7	1	20	12	8	0	556.75312	0.00023	0.0002
20	12	8	1	21	12	9	0	556.57837	-0.00014	0.0002
21	12	9	1	22	12	10	0	556.40357	0.00013	0.0002
22	12	10	1	23	12	11	0	556.22810	0.00018	0.0002
23	12	11	1	24	12	12	0	556.05207	0.00002	0.0002
24	12	12	1	25	12	13	0	555.87595	0.00003	0.0002
25	12	13	1	26	12	14	0	555.69974	0.00020	0.0002
26	12	14	1	27	12	15	0	555.52277	-0.00018	0.0002
27	12	15	1	28	12	16	0	555.34589	-0.00026	0.0002
28	12	16	1	29	12	17	0	555.16867	-0.00049	0.0002
29	12	17	1	30	12	18	0	554.99195	-0.00003	0.0002
30	12	18	1	31	12	19	0	554.81458	-0.00004	0.0002
31	12	19	1	32	12	20	0	554.63710	0.00003	0.0002
32	12	20	1	33	12	21	0	554.45929	-0.00006	0.0002
33	12	21	1	34	12	22	0	554.28142	-0.00003	0.0002
34	12	22	1	35	12	23	0	554.10353	0.00014	0.0002
35	12	23	1	36	12	24	0	553.92522	0.00006	0.0002
36	12	24	1	37	12	25	0	553.74677	0.00003	0.0002
37	12	25	1	38	12	26	0	553.56816	0.00000	0.0002
38	12	26	1	39	12	27	0	553.38939	-0.00003	0.0002
39	12	27	1	40	12	28	0	553.21066	0.00016	0.0002
40	12	28	1	41	12	29	0	553.03131	-0.00011	0.0002
41	12	29	1	42	12	30	0	552.85226	0.00008	0.0002
42	12	30	1	43	12	31	0	552.67285	0.00010	0.0002
43	12	31	1	44	12	32	0	552.49308	-0.00009	0.0002
44	12	32	1	45	12	33	0	552.31360	0.00017	0.0002
45	12	33	1	46	12	34	0	552.13350	-0.00001	0.0002
46	12	34	1	47	12	35	0	551.95336	-0.00007	0.0002
47	12	35	1	48	12	36	0	551.77328	0.00010	0.0002
48	12	36	1	49	12	37	0	551.59276	-0.00001	0.0002
49	12	37	1	50	12	38	0	551.41207	-0.00012	0.0002
50	12	38	1	51	12	39	0	551.23132	-0.00014	0.0002
51	12	39	1	52	12	40	0	551.05028	-0.00027	0.0002
53	12	41	1	54	12	42	0	550.68826	0.00000	0.0002
54	12	42	1	55	12	43	0	550.50690	0.00004	0.0002
55	12	43	1	56	12	44	0	550.32539	0.00009	0.0002
56	12	44	1	57	12	45	0	550.14368	0.00010	0.0002
57	12	45	1	58	12	46	0	549.96163	-0.00007	0.0002
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59	12	47	1	60	12	48	0	549.59768	0.00024	0.0002
60	12	48	1	61	12	49	0	549.41508	0.00001	0.0002
61	12	49	1	62	12	50	0	549.23258	0.00004	0.0002
62	12	50	1	63	12	51	0	549.04998	0.00014	0.0002
63	12	51	1	64	12	52	0	548.86740	0.00041	0.0002
64	12	52	1	65	12	53	0	548.68408	0.00011	0.0002
16	13	3	1	17	13	4	0	557.06801	0.00003	0.0002

22	13	9	1	23	13	10	0	556.09546	0.00005	0.0002
23	13	10	1	24	13	11	0	555.92002	0.00002	0.0002
24	13	11	1	25	13	12	0	555.74421	0.00001	0.0002
25	13	12	1	26	13	13	0	555.56804	-0.00004	0.0002
26	13	13	1	27	13	14	0	555.39178	0.00008	0.0002
27	13	14	1	28	13	15	0	555.21502	-0.00007	0.0002
28	13	15	1	29	13	16	0	555.03833	0.00007	0.0002
29	13	16	1	30	13	17	0	554.86123	-0.00001	0.0002
30	13	17	1	31	13	18	0	554.68400	-0.00002	0.0002
31	13	18	1	32	13	19	0	554.50653	-0.00007	0.0002
32	13	19	1	33	13	20	0	554.32891	-0.00011	0.0002
33	13	20	1	34	13	21	0	554.15114	-0.00010	0.0002
34	13	21	1	35	13	22	0	553.97309	-0.00021	0.0002
35	13	22	1	36	13	23	0	553.79520	0.00002	0.0002
36	13	23	1	37	13	24	0	553.61685	-0.00004	0.0002
37	13	24	1	38	13	25	0	553.43850	0.00008	0.0002
38	13	25	1	39	13	26	0	553.25974	-0.00004	0.0002
39	13	26	1	40	13	27	0	553.08113	0.00015	0.0002
40	13	27	1	41	13	28	0	552.90212	0.00012	0.0002
41	13	28	1	42	13	29	0	552.72294	0.00007	0.0002
42	13	29	1	43	13	30	0	552.54343	-0.00012	0.0002
43	13	30	1	44	13	31	0	552.36408	0.00000	0.0002
44	13	31	1	45	13	32	0	552.18456	0.00013	0.0002
45	13	32	1	46	13	33	0	552.00457	-0.00006	0.0002
46	13	33	1	47	13	34	0	551.82443	-0.00022	0.0002
47	13	34	1	48	13	35	0	551.64431	-0.00020	0.0002
48	13	35	1	49	13	36	0	551.46420	0.00000	0.0002
49	13	36	1	50	13	37	0	551.28371	-0.00003	0.0002
50	13	37	1	51	13	38	0	551.10308	-0.00002	0.0002
51	13	38	1	52	13	39	0	550.92216	-0.00015	0.0002
52	13	39	1	53	13	40	0	550.74125	-0.00010	0.0002
53	13	40	1	54	13	41	0	550.56018	-0.00004	0.0002
54	13	41	1	55	13	42	0	550.37893	0.00000	0.0002
55	13	42	1	56	13	43	0	550.19746	-0.00002	0.0002
56	13	43	1	57	13	44	0	550.01602	0.00015	0.0002
57	13	44	1	58	13	45	0	549.83404	-0.00005	0.0002
58	13	45	1	59	13	46	0	549.65207	-0.00008	0.0002
59	13	46	1	60	13	47	0	549.47010	0.00005	0.0002
60	13	47	1	61	13	48	0	549.28779	0.00001	0.0002
61	13	48	1	62	13	49	0	549.10534	-0.00002	0.0002
62	13	49	1	63	13	50	0	548.92270	-0.00007	0.0002
63	13	50	1	64	13	51	0	548.73986	-0.00016	0.0002
64	13	51	1	65	13	52	0	548.55740	0.00029	0.0002
65	13	52	1	66	13	53	0	548.37407	0.00003	0.0002
66	13	53	1	67	13	54	0	548.19100	0.00018	0.0002
67	13	54	1	68	13	55	0	548.00742	0.00000	0.0002
68	13	55	1	69	13	56	0	547.82367	-0.00020	0.0002
69	13	56	1	70	13	57	0	547.64021	0.00005	0.0002
19	14	5	1	20	14	6	0	556.46249	0.00000	0.0002
20	14	6	1	21	14	7	0	556.30495	-0.00006	0.0002
22	14	8	1	23	14	9	0	555.96173	-0.00004	0.0002
23	14	9	1	24	14	10	0	555.78719	0.00002	0.0002
24	14	10	1	25	14	11	0	555.61190	0.00000	0.0002
25	14	11	1	26	14	12	0	555.43618	0.00000	0.0002
26	14	12	1	27	14	13	0	555.26009	-0.00001	0.0002
27	14	13	1	28	14	14	0	555.08363	-0.00011	0.0002
28	14	14	1	29	14	15	0	554.90695	-0.00018	0.0002
29	14	15	1	30	14	16	0	554.73019	-0.00009	0.0002
30	14	16	1	31	14	17	0	554.55334	0.00012	0.0002
31	14	17	1	32	14	18	0	554.37599	0.00003	0.0002
32	14	18	1	33	14	19	0	554.19857	0.00006	0.0002
33	14	19	1	34	14	20	0	554.02096	0.00008	0.0002
34	14	20	1	35	14	21	0	553.84326	0.00020	0.0002
35	14	21	1	36	14	22	0	553.66495	-0.00011	0.0002
36	14	22	1	37	14	23	0	553.48694	0.00005	0.0002
37	14	23	1	38	14	24	0	553.30842	-0.00013	0.0002
38	14	24	1	39	14	25	0	553.13005	0.00003	0.0002
39	14	25	1	40	14	26	0	552.95113	-0.00020	0.0002
40	14	26	1	41	14	27	0	552.77252	0.00004	0.0002
41	14	27	1	42	14	28	0	552.59330	-0.00014	0.0002
42	14	28	1	43	14	29	0	552.41420	-0.00005	0.0002
44	14	30	1	45	14	31	0	552.05521	-0.00013	0.0002
45	14	31	1	46	14	32	0	551.87551	-0.00013	0.0002
46	14	32	1	47	14	33	0	551.69560	-0.00017	0.0002
47	14	33	1	48	14	34	0	551.51560	-0.00015	0.0002
48	14	34	1	49	14	35	0	551.33557	0.00002	0.0002
49	14	35	1	50	14	36	0	551.15518	-0.00001	0.0002
50	14	36	1	51	14	37	0	550.97454	-0.00012	0.0002
51	14	37	1	52	14	38	0	550.79397	0.00001	0.0002

53	14	39	1	54	14	40	0	550.43202	-0.00007	0.0002
54	14	40	1	55	14	41	0	550.25090	-0.00002	0.0002
55	14	41	1	56	14	42	0	550.06979	0.00022	0.0002
56	14	42	1	57	14	43	0	549.88808	0.00002	0.0002
59	14	45	1	60	14	46	0	549.34261	0.00005	0.0002
60	14	46	1	61	14	47	0	549.16039	-0.00001	0.0002
61	14	47	1	62	14	48	0	548.97813	0.00005	0.0002
62	14	48	1	63	14	49	0	548.79594	0.00034	0.0002
63	14	49	1	64	14	50	0	548.61294	-0.00002	0.0002
64	14	50	1	65	14	51	0	548.43000	-0.00016	0.0002
65	14	51	1	66	14	52	0	548.24727	0.00007	0.0002
66	14	52	1	67	14	53	0	548.06403	-0.00004	0.0002
67	14	53	1	68	14	54	0	547.88091	0.00012	0.0002
68	14	54	1	69	14	55	0	547.69745	0.00010	0.0002
69	14	55	1	70	14	56	0	547.51380	0.00005	0.0002
70	14	56	1	71	14	57	0	547.33030	0.00032	0.0002
72	14	58	1	73	14	59	0	546.96194	-0.00004	0.0002
73	14	59	1	74	14	60	0	546.77782	0.00008	0.0002
23	15	8	1	24	15	9	0	555.65279	-0.00012	0.0002
24	15	9	1	25	15	10	0	555.47858	-0.00009	0.0002
25	15	10	1	26	15	11	0	555.30361	0.00000	0.0002
26	15	11	1	27	15	12	0	555.12808	0.00008	0.0002
27	15	12	1	28	15	13	0	554.95186	-0.00012	0.0002
28	15	13	1	29	15	14	0	554.77573	0.00008	0.0002
29	15	14	1	30	15	15	0	554.59910	0.00005	0.0002
31	15	16	1	32	15	17	0	554.24510	-0.00001	0.0002
32	15	17	1	33	15	18	0	554.06794	0.00011	0.0002
33	15	18	1	34	15	19	0	553.89044	0.00010	0.0002
34	15	19	1	35	15	20	0	553.71288	0.00021	0.0002
35	15	20	1	36	15	21	0	553.53492	0.00011	0.0002
36	15	21	1	37	15	22	0	553.35696	0.00020	0.0002
37	15	22	1	38	15	23	0	553.17848	-0.00006	0.0002
39	15	24	1	40	15	25	0	552.82157	0.00000	0.0002
41	15	26	1	42	15	27	0	552.46392	0.00001	0.0002
42	15	27	1	43	15	28	0	552.28494	0.00012	0.0002
45	15	30	1	46	15	31	0	551.74651	-0.00005	0.0002
46	15	31	1	47	15	32	0	551.56656	-0.00024	0.0002
47	15	32	1	48	15	33	0	551.38694	0.00007	0.0002
48	15	33	1	49	15	34	0	551.20674	-0.00005	0.0002
49	15	34	1	50	15	35	0	551.02662	0.00009	0.0002
50	15	35	1	51	15	36	0	550.84608	-0.00004	0.0002
51	15	36	1	52	15	37	0	550.66563	0.00010	0.0002
52	15	37	1	53	15	38	0	550.48481	0.00002	0.0002
53	15	38	1	54	15	39	0	550.30384	-0.00004	0.0002
54	15	39	1	55	15	40	0	550.12276	-0.00004	0.0002
55	15	40	1	56	15	41	0	549.94168	0.00011	0.0002
56	15	41	1	57	15	42	0	549.76029	0.00013	0.0002
57	15	42	1	58	15	43	0	549.57846	-0.00014	0.0002
58	15	43	1	59	15	44	0	549.39703	0.00016	0.0002
59	15	44	1	60	15	45	0	549.21516	0.00018	0.0002
60	15	45	1	61	15	46	0	549.03279	-0.00014	0.0002
61	15	46	1	62	15	47	0	548.85083	0.00011	0.0002
63	15	48	1	64	15	49	0	548.48579	-0.00003	0.0002
64	15	49	1	65	15	50	0	548.30315	0.00003	0.0002
17	16	1	1	18	16	2	0	556.88412	0.00037	0.0002
18	16	2	1	19	16	3	0	556.49789	0.00009	0.0002
19	16	3	1	20	16	4	0	556.15980	-0.00015	0.0002
20	16	4	1	21	16	5	0	555.94897	-0.00012	0.0002
22	16	6	1	23	16	7	0	555.67904	-0.00010	0.0002
23	16	7	1	24	16	8	0	555.51519	0.00006	0.0002
24	16	8	1	25	16	9	0	555.34378	0.00010	0.0002
25	16	9	1	26	16	10	0	555.17011	0.00020	0.0002
26	16	10	1	27	16	11	0	554.99514	0.00004	0.0002
27	16	11	1	28	16	12	0	554.81961	-0.00003	0.0002
28	16	12	1	29	16	13	0	554.64373	0.00001	0.0002
29	16	13	1	30	16	14	0	554.46753	0.00009	0.0002
30	16	14	1	31	16	15	0	554.29072	-0.00013	0.0002
31	16	15	1	32	16	16	0	554.11417	0.00018	0.0002
32	16	16	1	33	16	17	0	553.93689	-0.00001	0.0002
33	16	17	1	34	16	18	0	553.75962	0.00003	0.0002
34	16	18	1	35	16	19	0	553.58208	0.00000	0.0002
35	16	19	1	36	16	20	0	553.40430	-0.00007	0.0002
36	16	20	1	37	16	21	0	553.22641	-0.00006	0.0002
37	16	21	1	38	16	22	0	553.04846	0.00008	0.0002
38	16	22	1	39	16	23	0	552.87014	0.00003	0.0002
40	16	24	1	41	16	25	0	552.51288	-0.00016	0.0002
41	16	25	1	42	16	26	0	552.33433	0.00008	0.0002
42	16	26	1	43	16	27	0	552.15547	0.00018	0.0002
43	16	27	1	44	16	28	0	551.97613	-0.00001	0.0002
44	16	28	1	45	16	29	0	551.79688	0.00004	0.0002
45	16	29	1	46	16	30	0	551.61724	-0.00012	0.0002
46	16	30	1	47	16	31	0	551.43766	-0.00005	0.0002
47	16	31	1	48	16	32	0	551.25801	0.00011	0.0002
48	16	32	1	49	16	33	0	551.07786	-0.00006	0.0002
49	16	33	1	50	16	34	0	550.89779	0.00001	0.0002
50	16	34	1	51	16	35	0	550.71737	-0.00011	0.0002
51	16	35	1	52	16	36	0	550.53708	0.00008	0.0002
52	16	36	1	53	16	37	0	550.35653	0.00017	0.0002
53	16	37	1	54	16	38	0	550.17560	0.00004	0.0002
55	16	39	1	56	16	40	0	549.81356	0.00010	0.0002
56	16	40	1	57	16	41	0	549.63234	0.00017	0.0002
57	16	41	1	58	16	42	0	549.45070	-0.00002	0.0002
58	16	42	1	59	16	43	0	549.26933	0.00024	0.0002
59	16	43	1	60	16	44	0	549.08744	0.00013	0.0002
60	16	44	1	61	16	45	0	548.90523	-0.00015	0.0002
61	16	45	1	62	16	46	0	548.72336	0.00009	0.0002
62	16	46	1	63	16	47	0	548.54112	0.00011	0.0002
63	16	47	1	64	16	48	0	548.35867	0.00009	0.0002
64	16	48	1	65	16	49	0	548.17573	-0.00026	0.0002
65	16	49	1	66	16	50	0	547.99309	-0.00016	0.0002
18	17	1	1	19	17	2	0	556.61895	-0.00003	0.0002
19	17	2	1	20	17	3	0	556.23455	0.00017	0.0002
22	17	5	1	23	17	6	0	555.49550	-0.00006	0.0002
23	17	6	1	24	17	7	0	555.36323	0.00001	0.0002
24	17	7	1	25	17	8	0	555.20389	-0.00005	0.0002
27	17	10	1	28	17	11	0	554.68634	-0.00003	0.0002
28	17	11	1	29	17	12	0	554.51116	0.00006	0.0002
29	17	12	1	30	17	13	0	554.33518	-0.00011	0.0002
30	17	13	1	31	17	14	0	554.15912	0.00005	0.0002
31	17	14	1	32	17	15	0	553.98239	-0.00013	0.0002
32	17	15	1	33	17	16	0	553.80583	0.00015	0.0002
33	17	16	1	34	17	17	0	553.62871	0.00012	0.0002
34	17	17	1	35	17	18	0	553.45123	-0.00004	0.0002
35	17	18	1	36	17	19	0	553.27356	-0.00017	0.0002
36	17	19	1	37	17	20	0	553.09581	-0.00018	0.0002
37	17	20	1	38	17	21	0	552.91802	-0.00003	0.0002
38	17	21	1	39	17	22	0	552.73980	-0.00013	0.0002
39	17	22	1	40	17	23	0	552.56162	0.00001	0.0002
41	17	24	1	42	17	25	0	552.20446	0.00000	0.0002
42	17	25	1	43	17	26	0	552.02561	0.00000	0.0002
43	17	26	1	44	17	27	0	551.84660	0.00001	0.0002
44	17	27	1	45	17	28	0	551.66733	-0.00008	0.0002
45	17	28	1	46	17	29	0	551.48811	0.00006	0.0002
46	17	29	1	47	17	30	0	551.30857	0.00005	0.0002
47	17	30	1	48	17	31	0	551.12887	0.00005	0.0002
48	17	31	1	49	17	32	0	550.94889	-0.00007	0.0002
49	17	32	1	50	17	33	0	550.76879	-0.00013	0.0002
50	17	33	1	51	17	34	0	550.58882	0.00010	0.0002
51	17	34	1	52	17	35	0	550.40835	-0.00001	0.0002
52	17	35	1	53	17	36	0	550.22783	-0.00001	0.0002
53	17	36	1	54	17	37	0	550.04713	-0.00002	0.0002
56	17	39	1	57	17	40	0	549.50426	0.00018	0.0002
57	17	40	1	58	17	41	0	549.32272	-0.00002	0.0002
58	17	41	1	59	17	42	0	549.14099	-0.00023	0.0002
59	17	42	1	60	17	43	0	548.95944	-0.00012	0.0002
60	17	43	1	61	17	44	0	548.77765	-0.00007	0.0002
61	17	44	1	62	17	45	0	548.59576	0.00003	0.0002
25	18	7	1	26	18	8	0	554.89153	-0.00012	0.0002
27	18	9	1	28	18	10	0	554.55169	0.00022	0.0002
28	18	10	1	29	18	11	0	554.37744	0.00005	0.0002
29	18	11	1	30	18	12	0	554.20224	-0.00012	0.0002
30	18	12	1	31	18	13	0	554.02673	0.00003	0.0002
31	18	13	1	32	18	14	0	553.85048	-0.00009	0.0002
33	18	15	1	34	18	16	0	553.49722	-0.00003	0.0002
34	18	16	1	35	18	17	0	553.32020	0.00003	0.0002
35	18	17	1	36	18	18	0	553.14280	-0.00005	0.0002
36	18	18	1	37	18	19	0	552.96517	-0.00012	0.0002
37	18	19	1	38	18	20	0	552.78747	-0.00006	0.0002
38	18	20	1	39	18	21	0	552.60955	-0.00001	0.0002
39	18	21	1	40	18	22	0	552.43154	0.00014	0.0002
40	18	22	1	41	18	23	0	552.25306	0.00001	0.0002
41	18	23	1	42	18	24	0	552.07457	0.00005	0.0002
42	18	24	1	43	18	25	0	551.89575	-0.00005	0.0002
43	18	25	1	44	18	26	0	551.71681	-0.00010	0.0002
44	18	26	1	45	18	27	0	551.53779	-0.00005	0.0002
45	18	27	1	46	18	28	0	551.35847	-0.00014	0.0002
47	18	29	1	48	18	30	0	550.99962	0.00000	0.0002
48	18	30	1	49	18	31	0	550.81986	-0.00001	0.0002

50	18	32	1	51	18	33	0	550.45992	0.00004	0.0002
51	18	33	1	52	18	34	0	550.27963	0.00001	0.0002
52	18	34	1	53	18	35	0	550.09901	-0.00019	0.0002
54	18	36	1	55	18	37	0	549.73796	0.00008	0.0002
57	18	39	1	58	18	40	0	549.19466	0.00000	0.0002
58	18	40	1	59	18	41	0	549.01326	0.00000	0.0002
59	18	41	1	60	18	42	0	548.83175	0.00005	0.0002
60	18	42	1	61	18	43	0	548.64994	-0.00003	0.0002
61	18	43	1	62	18	44	0	548.46811	0.00002	0.0002
63	18	45	1	64	18	46	0	548.10388	0.00004	0.0002
64	18	46	1	65	18	47	0	547.92129	-0.00017	0.0002
65	18	47	1	66	18	48	0	547.73910	0.00016	0.0002
66	18	48	1	67	18	49	0	547.55648	0.00023	0.0002
67	18	49	1	68	18	50	0	547.37339	-0.00001	0.0002
28	19	9	1	29	19	10	0	554.24177	0.00005	0.0002
30	19	11	1	31	19	12	0	553.89336	-0.00003	0.0002
31	19	12	1	32	19	13	0	553.71779	-0.00013	0.0002
32	19	13	1	33	19	14	0	553.54202	0.00011	0.0002
35	19	16	1	36	19	17	0	553.01159	-0.00006	0.0002
36	19	17	1	37	19	18	0	552.83404	-0.00028	0.0002
37	19	18	1	38	19	19	0	552.65679	0.00003	0.0002
38	19	19	1	39	19	20	0	552.47905	0.00007	0.0002
39	19	20	1	40	19	21	0	552.30107	0.00009	0.0002
40	19	21	1	41	19	22	0	552.12270	-0.00009	0.0002
41	19	22	1	42	19	23	0	551.94445	0.00004	0.0002
42	19	23	1	43	19	24	0	551.76567	-0.00016	0.0002
43	19	24	1	44	19	25	0	551.58702	-0.00006	0.0002
44	19	25	1	45	19	26	0	551.40815	0.00001	0.0002
45	19	26	1	46	19	27	0	551.22892	-0.00012	0.0002
47	19	28	1	48	19	29	0	550.87016	-0.00014	0.0002
48	19	29	1	49	19	30	0	550.69055	-0.00012	0.0002
49	19	30	1	50	19	31	0	550.51094	0.00007	0.0002
50	19	31	1	51	19	32	0	550.33092	0.00002	0.0002
51	19	32	1	52	19	33	0	550.15081	0.00004	0.0002
52	19	33	1	53	19	34	0	549.97034	-0.00013	0.0002
53	19	34	1	54	19	35	0	549.79006	0.00006	0.0002
54	19	35	1	55	19	36	0	549.60922	-0.00015	0.0002
55	19	36	1	56	19	37	0	549.42870	0.00013	0.0002
56	19	37	1	57	19	38	0	549.24741	-0.00020	0.0002
59	19	40	1	60	19	41	0	548.70387	0.00012	0.0002
60	19	41	1	61	19	42	0	548.52211	-0.00002	0.0002
61	19	42	1	62	19	43	0	548.34034	-0.00002	0.0002
62	19	43	1	63	19	44	0	548.15822	-0.00020	0.0002
29	20	9	1	30	20	10	0	553.93174	0.00020	0.0002
31	20	11	1	32	20	12	0	553.58431	0.00012	0.0002
32	20	12	1	33	20	13	0	553.40900	0.00006	0.0002
33	20	13	1	34	20	14	0	553.23332	0.00024	0.0002
34	20	14	1	35	20	15	0	553.05660	-0.00014	0.0002
35	20	15	1	36	20	16	0	552.87997	-0.00006	0.0002
36	20	16	1	37	20	17	0	552.70300	0.00000	0.0002
37	20	17	1	38	20	18	0	552.52551	-0.00018	0.0002
38	20	18	1	39	20	19	0	552.34802	-0.00011	0.0002
39	20	19	1	40	20	20	0	552.17048	0.00015	0.0002
40	20	20	1	41	20	21	0	551.99248	0.00016	0.0002
41	20	21	1	42	20	22	0	551.81411	0.00001	0.0002
42	20	22	1	43	20	23	0	551.63622	0.00053	0.0002
43	20	23	1	44	20	24	0	551.45703	-0.00006	0.0002
44	20	24	1	45	20	25	0	551.27824	-0.00005	0.0002
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46	20	26	1	47	20	27	0	550.92019	0.00003	0.0002
48	20	28	1	49	20	29	0	550.56143	0.00010	0.0002
49	20	29	1	50	20	30	0	550.38163	-0.00003	0.0002
50	20	30	1	51	20	31	0	550.20172	-0.00009	0.0002
51	20	31	1	52	20	32	0	550.02181	0.00001	0.0002
52	20	32	1	53	20	33	0	549.84162	0.00001	0.0002
53	20	33	1	54	20	34	0	549.66118	-0.00008	0.0002
54	20	34	1	55	20	35	0	549.48071	-0.00003	0.0002
55	20	35	1	56	20	36	0	549.30031	0.00025	0.0002
56	20	36	1	57	20	37	0	549.11908	-0.00014	0.0002
57	20	37	1	58	20	38	0	548.93787	-0.00033	0.0002
59	20	39	1	60	20	40	0	548.57577	0.00007	0.0002
60	20	40	1	61	20	41	0	548.39377	-0.00042	0.0002
61	20	41	1	62	20	42	0	548.21268	0.00015	0.0002
62	20	42	1	63	20	43	0	548.03075	0.00005	0.0002
63	20	43	1	64	20	44	0	547.84861	-0.00010	0.0002
64	20	44	1	65	20	45	0	547.66634	-0.00022	0.0002
65	20	45	1	66	20	46	0	547.48399	-0.00027	0.0002
66	20	46	1	67	20	47	0	547.30200	0.00021	0.0002
67	20	47	1	68	20	48	0	547.11906	-0.00010	0.0002
68	20	48	1	69	20	49	0	546.93625	-0.00012	0.0002
69	20	49	1	70	20	50	0	546.75345	0.00002	0.0002
70	20	50	1	71	20	51	0	546.57021	-0.00011	0.0002
19	11	8	1	18	11	7	0	566.69895	-0.00006	0.0002
20	11	9	1	19	11	8	0	566.86908	0.00000	0.0002
21	11	10	1	20	11	9	0	567.03936	0.00000	0.0002
22	11	11	1	21	11	10	0	567.20959	-0.00008	0.0002
23	11	12	1	22	11	11	0	567.37991	-0.00002	0.0002
24	11	13	1	23	11	12	0	567.55015	0.00006	0.0002
25	11	14	1	24	11	13	0	567.72004	-0.00008	0.0002
26	11	15	1	25	11	14	0	567.88999	-0.00003	0.0002
27	11	16	1	26	11	15	0	568.05974	-0.00002	0.0002
28	11	17	1	27	11	16	0	568.22938	0.00003	0.0002
30	11	19	1	29	11	18	0	568.56813	0.00010	0.0002
31	11	20	1	30	11	19	0	568.73725	0.00013	0.0002
32	11	21	1	31	11	20	0	568.90635	0.00031	0.0002
33	11	22	1	32	11	21	0	569.07445	-0.00034	0.0002
34	11	23	1	33	11	22	0	569.24329	-0.00006	0.0002
35	11	24	1	34	11	23	0	569.41179	0.00003	0.0002
36	11	25	1	35	11	24	0	569.58001	0.00003	0.0002
37	11	26	1	36	11	25	0	569.74809	0.00007	0.0002
38	11	27	1	37	11	26	0	569.91584	-0.00004	0.0002
39	11	28	1	38	11	27	0	570.08351	-0.00007	0.0002
40	11	29	1	39	11	28	0	570.25112	0.00003	0.0002
41	11	30	1	40	11	29	0	570.41810	-0.00032	0.0002
42	11	31	1	41	11	30	0	570.58551	-0.00007	0.0002
43	11	32	1	42	11	31	0	570.75264	0.00008	0.0002
44	11	33	1	43	11	32	0	570.91934	-0.00002	0.0002
45	11	34	1	44	11	33	0	571.08591	-0.00008	0.0002
46	11	35	1	45	11	34	0	571.25234	-0.00008	0.0002
47	11	36	1	46	11	35	0	571.41865	-0.00004	0.0002
48	11	37	1	47	11	36	0	571.58486	0.00008	0.0002
49	11	38	1	48	11	37	0	571.75056	-0.00013	0.0002
50	11	39	1	49	11	38	0	571.91632	-0.00009	0.0002
51	11	40	1	50	11	39	0	572.08201	0.00005	0.0002
52	11	41	1	51	11	40	0	572.24725	-0.00008	0.0002
53	11	42	1	52	11	41	0	572.41243	-0.00009	0.0002
54	11	43	1	53	11	42	0	572.57743	-0.00011	0.0002
56	11	45	1	55	11	44	0	572.90690	-0.00012	0.0002
57	11	46	1	56	11	45	0	573.07159	0.00009	0.0002
58	11	47	1	57	11	46	0	573.23560	-0.00018	0.0002
59	11	48	1	58	11	47	0	573.39977	-0.00014	0.0002
60	11	49	1	59	11	48	0	573.56387	0.00003	0.0002
61	11	50	1	60	11	49	0	573.72774	0.00014	0.0002
62	11	51	1	61	11	50	0	573.89112	-0.00006	0.0002
63	11	52	1	62	11	51	0	574.05441	-0.00017	0.0002
64	11	53	1	63	11	52	0	574.21766	-0.00015	0.0002
65	11	54	1	64	11	53	0	574.38083	-0.00001	0.0002
66	11	55	1	65	11	54	0	574.54342	-0.00030	0.0002
67	11	56	1	66	11	55	0	574.70591	-0.00049	0.0002
68	11	57	1	67	11	56	0	574.86863	-0.00027	0.0002
15	12	3	1	14	12	2	0	566.17112	0.00013	0.0002
16	12	4	1	15	12	3	0	566.39105	0.00016	0.0002
17	12	5	1	16	12	4	0	566.52855	0.00006	0.0002
20	12	8	1	19	12	7	0	567.00411	-0.00015	0.0002
21	12	9	1	20	12	8	0	567.17374	-0.00013	0.0002
22	12	10	1	21	12	9	0	567.34392	0.00009	0.0002
23	12	11	1	22	12	10	0	567.51387	-0.00004	0.0002
24	12	12	1	23	12	11	0	567.68390	-0.00007	0.0002
25	12	13	1	24	12	12	0	567.85399	0.00002	0.0002
26	12	14	1	25	12	13	0	568.02392	0.00006	0.0002
27	12	15	1	26	12	14	0	568.19356	-0.00007	0.0002
28	12	16	1	27	12	15	0	568.36335	0.00010	0.0002
29	12	17	1	28	12	16	0	568.53318	0.00045	0.0002
30	12	18	1	29	12	17	0	568.70201	-0.00003	0.0002
31	12	19	1	30	12	18	0	568.87121	0.00003	0.0002
32	12	20	1	31	12	19	0	569.04015	-0.00002	0.0002
33	12	21	1	32	12	20	0	569.20905	0.00006	0.0002
35	12	23	1	34	12	22	0	569.54620	0.00009	0.0002
36	12	24	1	35	12	23	0	569.71443	0.00003	0.0002
37	12	25	1	36	12	24	0	569.88259	0.00007	0.0002
38	12	26	1	37	12	25	0	570.05042	-0.00005	0.0002
39	12	27	1	38	12	26	0	570.21785	-0.00040	0.0002
40	12	28	1	39	12	27	0	570.38593	0.00009	0.0002
41	12	29	1	40	12	28	0	570.55301	-0.00025	0.0002
42	12	30	1	41	12	29	0	570.72071	0.00021	0.0002
43	12	31	1	42	12	30	0	570.88752	-0.00004	0.0002
44	12	32	1	43	12	31	0	571.05442	-0.00003	0.0002
45	12	33	1	44	12	32	0	571.22109	-0.00006	0.0002

46	12	34	1	45	12	33	0	571.38776	0.00008	0.0002
47	12	35	1	46	12	34	0	571.55406	0.00003	0.0002
48	12	36	1	47	12	35	0	571.72024	0.00003	0.0002
49	12	37	1	48	12	36	0	571.88617	-0.00002	0.0002
50	12	38	1	49	12	37	0	572.05214	0.00013	0.0002
52	12	40	1	51	12	39	0	572.38310	0.00000	0.0002
53	12	41	1	52	12	40	0	572.54842	0.00005	0.0002
54	12	42	1	53	12	41	0	572.71352	0.00006	0.0002
55	12	43	1	54	12	42	0	572.87837	-0.00002	0.0002
56	12	44	1	55	12	43	0	573.04321	0.00009	0.0002
57	12	45	1	56	12	44	0	573.20782	0.00014	0.0002
58	12	46	1	57	12	45	0	573.37181	-0.00024	0.0002
59	12	47	1	58	12	46	0	573.53636	0.00010	0.0002
60	12	48	1	59	12	47	0	573.70026	-0.00002	0.0002
61	12	49	1	60	12	48	0	573.86403	-0.00009	0.0002
62	12	50	1	61	12	49	0	574.02761	-0.00017	0.0002
63	12	51	1	62	12	50	0	574.19120	-0.00007	0.0002
64	12	52	1	63	12	51	0	574.35455	-0.00003	0.0002
65	12	53	1	64	12	52	0	574.51723	-0.00048	0.0002
66	12	54	1	65	12	53	0	574.68070	0.00005	0.0002
67	12	55	1	66	12	54	0	574.84324	-0.00017	0.0002
68	12	56	1	67	12	55	0	575.00589	-0.00012	0.0002
69	12	57	1	68	12	56	0	575.16830	-0.00012	0.0002
70	12	58	1	69	12	57	0	575.33022	-0.00044	0.0002
16	13	3	1	15	13	2	0	566.45526	0.00013	0.0002
17	13	4	1	16	13	3	0	566.70286	0.00006	0.0002
18	13	5	1	17	13	4	0	566.84798	0.00001	0.0002
19	13	6	1	18	13	5	0	566.98421	0.00010	0.0002
21	13	8	1	20	13	7	0	567.30966	-0.00009	0.0002
22	13	9	1	21	13	8	0	567.47874	-0.00002	0.0002
23	13	10	1	22	13	9	0	567.64840	0.00003	0.0002
25	13	12	1	24	13	11	0	567.98808	0.00006	0.0002
26	13	13	1	25	13	12	0	568.15780	-0.00003	0.0002
27	13	14	1	26	13	13	0	568.32754	-0.00002	0.0002
28	13	15	1	27	13	14	0	568.49722	0.00003	0.0002
29	13	16	1	28	13	15	0	568.66660	-0.00009	0.0002
30	13	17	1	29	13	16	0	568.83602	-0.00002	0.0002
31	13	18	1	30	13	17	0	569.00542	0.00019	0.0002
32	13	19	1	31	13	18	0	569.17420	-0.00007	0.0002
33	13	20	1	32	13	19	0	569.34304	-0.00010	0.0002
34	13	21	1	33	13	20	0	569.51175	-0.00011	0.0002
35	13	22	1	34	13	21	0	569.68038	-0.00002	0.0002
36	13	23	1	35	13	22	0	569.84889	0.00012	0.0002
37	13	24	1	36	13	23	0	570.01693	-0.00003	0.0002
38	13	25	1	37	13	24	0	570.18498	-0.00001	0.0002
39	13	26	1	38	13	25	0	570.35294	0.00010	0.0002
40	13	27	1	39	13	26	0	570.52047	-0.00005	0.0002
41	13	28	1	40	13	27	0	570.68793	-0.00008	0.0002
42	13	29	1	41	13	28	0	570.85530	-0.00003	0.0002
43	13	30	1	42	13	29	0	571.02250	0.00002	0.0002
44	13	31	1	43	13	30	0	571.18958	0.00013	0.0002
45	13	32	1	44	13	31	0	571.35633	0.00010	0.0002
46	13	33	1	45	13	32	0	571.52297	0.00013	0.0002
47	13	34	1	46	13	33	0	571.68936	0.00009	0.0002
48	13	35	1	47	13	34	0	571.85552	-0.00001	0.0002
49	13	36	1	48	13	35	0	572.02159	-0.00002	0.0002
50	13	37	1	49	13	36	0	572.18751	0.00002	0.0002
51	13	38	1	50	13	37	0	572.35329	0.00007	0.0002
52	13	39	1	51	13	38	0	572.51878	0.00003	0.0002
53	13	40	1	52	13	39	0	572.68402	-0.00009	0.0002
54	13	41	1	53	13	40	0	572.84931	0.00001	0.0002
55	13	42	1	54	13	41	0	573.01434	0.00004	0.0002
58	13	45	1	57	13	44	0	573.50818	-0.00004	0.0002
59	13	46	1	58	13	45	0	573.67266	0.00015	0.0002
61	13	48	1	60	13	47	0	574.00054	0.00000	0.0002
62	13	49	1	61	13	48	0	574.16421	-0.00007	0.0002
63	13	50	1	62	13	49	0	574.32787	0.00002	0.0002
64	13	51	1	63	13	50	0	574.49104	-0.00020	0.0002
65	13	52	1	64	13	51	0	574.65439	-0.00006	0.0002
66	13	53	1	65	13	52	0	574.81738	-0.00010	0.0002
67	13	54	1	66	13	53	0	574.97999	-0.00034	0.0002
68	13	55	1	67	13	54	0	575.14282	-0.00019	0.0002
69	13	56	1	68	13	55	0	575.30539	-0.00012	0.0002
70	13	57	1	69	13	56	0	575.46764	-0.00018	0.0002
71	13	58	1	70	13	57	0	575.63000	0.00003	0.0002
21	14	7	1	20	14	6	0	567.45043	-0.00002	0.0002
22	14	8	1	21	14	7	0	567.61571	0.00017	0.0002
23	14	9	1	22	14	8	0	567.78374	-0.00006	0.0002
24	14	10	1	23	14	9	0	567.95276	-0.00020	0.0002
25	14	11	1	24	14	10	0	568.12238	-0.00007	0.0002
26	14	12	1	25	14	11	0	568.29218	0.00012	0.0002
27	14	13	1	26	14	12	0	568.46166	-0.00002	0.0002
28	14	14	1	27	14	13	0	568.63127	0.00003	0.0002
29	14	15	1	28	14	14	0	568.80073	0.00002	0.0002
30	14	16	1	29	14	15	0	568.96997	-0.00009	0.0002
32	14	18	1	31	14	17	0	569.30831	-0.00004	0.0002
33	14	19	1	32	14	18	0	569.47737	0.00009	0.0002
34	14	20	1	33	14	19	0	569.64633	0.00028	0.0002
36	14	22	1	35	14	21	0	569.98299	-0.00009	0.0002
37	14	23	1	36	14	22	0	570.15132	-0.00003	0.0002
38	14	24	1	37	14	23	0	570.31941	-0.00003	0.0002
39	14	25	1	38	14	24	0	570.48745	0.00009	0.0002
40	14	26	1	39	14	25	0	570.65498	-0.00013	0.0002
42	14	28	1	41	14	27	0	570.99023	0.00014	0.0002
43	14	29	1	42	14	28	0	571.15732	0.00001	0.0002
44	14	30	1	43	14	29	0	571.32439	0.00004	0.0002
45	14	31	1	44	14	30	0	571.49135	0.00012	0.0002
46	14	32	1	45	14	31	0	571.65783	-0.00009	0.0002
47	14	33	1	46	14	32	0	571.82426	-0.00017	0.0002
48	14	34	1	47	14	33	0	571.99057	-0.00020	0.0002
49	14	35	1	48	14	34	0	572.15686	-0.00007	0.0002
50	14	36	1	49	14	35	0	572.32293	0.00003	0.0002
52	14	38	1	51	14	37	0	572.65435	0.00002	0.0002
54	14	40	1	53	14	39	0	572.98518	0.00015	0.0002
55	14	41	1	54	14	40	0	573.15016	0.00005	0.0002
56	14	42	1	55	14	41	0	573.31485	-0.00017	0.0002
57	14	43	1	56	14	42	0	573.47948	-0.00026	0.0002
59	14	45	1	58	14	44	0	573.80851	-0.00015	0.0002
60	14	46	1	59	14	45	0	573.97272	-0.00013	0.0002
61	14	47	1	60	14	46	0	574.13697	0.00011	0.0002
62	14	48	1	61	14	47	0	574.30077	0.00009	0.0002
63	14	49	1	62	14	48	0	574.46431	-0.00002	0.0002
64	14	50	1	63	14	49	0	574.62766	-0.00015	0.0002
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66	14	52	1	65	14	51	0	574.95409	-0.00012	0.0002
67	14	53	1	66	14	52	0	575.11720	0.00005	0.0002
68	14	54	1	67	14	53	0	575.27967	-0.00023	0.0002
69	14	55	1	68	14	54	0	575.44240	-0.00008	0.0002
70	14	56	1	69	14	55	0	575.60456	-0.00032	0.0002
71	14	57	1	70	14	56	0	575.76701	-0.00009	0.0002
18	15	3	1	17	15	2	0	567.00266	0.00006	0.0002
19	15	4	1	18	15	3	0	567.30966	0.00014	0.0002
20	15	5	1	19	15	4	0	567.49024	0.00009	0.0002
22	15	7	1	21	15	6	0	567.75933	0.00005	0.0002
23	15	8	1	22	15	7	0	567.92197	0.00024	0.0002
24	15	9	1	23	15	8	0	568.08893	-0.00009	0.0002
25	15	10	1	24	15	9	0	568.25761	-0.00004	0.0002
26	15	11	1	25	15	10	0	568.42691	0.00013	0.0002
27	15	12	1	26	15	11	0	568.59598	-0.00013	0.0002
28	15	13	1	27	15	12	0	568.76549	-0.00002	0.0002
29	15	14	1	28	15	13	0	568.93493	0.00005	0.0002
30	15	15	1	29	15	14	0	569.10409	-0.00009	0.0002
31	15	16	1	30	15	15	0	569.27351	0.00012	0.0002
32	15	17	1	31	15	16	0	569.44236	-0.00011	0.0002
33	15	18	1	32	15	17	0	569.61151	0.00009	0.0002
34	15	19	1	33	15	18	0	569.78011	-0.00011	0.0002
35	15	20	1	34	15	19	0	569.94881	-0.00005	0.0002
36	15	21	1	35	15	20	0	570.11719	-0.00016	0.0002
39	15	24	1	38	15	23	0	570.62166	-0.00017	0.0002
40	15	25	1	39	15	24	0	570.78961	-0.00004	0.0002
41	15	26	1	40	15	25	0	570.95747	0.00017	0.0002
42	15	27	1	41	15	26	0	571.12465	-0.00012	0.0002
43	15	28	1	42	15	27	0	571.29193	-0.00013	0.0002
46	15	31	1	45	15	30	0	571.79305	0.00014	0.0002
47	15	32	1	46	15	31	0	571.95964	0.00014	0.0002
48	15	33	1	47	15	32	0	572.12584	-0.00008	0.0002
49	15	34	1	48	15	33	0	572.29206	-0.00009	0.0002
50	15	35	1	49	15	34	0	572.45827	0.00006	0.0002
51	15	36	1	50	15	35	0	572.62419	0.00010	0.0002
52	15	37	1	51	15	36	0	572.78984	0.00004	0.0002
53	15	38	1	52	15	37	0	572.95532	0.00000	0.0002
54	15	39	1	53	15	38	0	573.12071	0.00004	0.0002
55	15	40	1	54	15	39	0	573.28570	-0.00014	0.0002
56	15	41	1	55	15	40	0	573.45116	0.00034	0.0002
57	15	42	1	56	15	41	0	573.61573	0.00011	0.0002
58	15	43	1	57	15	42	0	573.78048	0.00022	0.0002
62	15	47	1	61	15	46	0	574.43689	-0.00009	0.0002
63	15	48	1	62	15	47	0	574.60071	0.00000	0.0002

64	15	49	1	63	15	48	0	574.76428	0.00002	0.0002
65	15	50	1	64	15	49	0	574.92784	0.00020	0.0002
66	15	51	1	65	15	50	0	575.09111	0.00027	0.0002
19	16	3	1	18	16	2	0	567.26728	0.00011	0.0002
20	16	4	1	19	16	3	0	567.60259	0.00022	0.0002
37	16	21	1	36	16	20	0	570.42009	0.00009	0.0002
38	16	22	1	37	16	21	0	570.58849	0.00028	0.0002
39	16	23	1	38	16	22	0	570.75640	0.00015	0.0002
40	16	24	1	39	16	23	0	570.92423	0.00010	0.0002
41	16	25	1	40	16	24	0	571.09158	-0.00027	0.0002
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51	16	35	1	50	16	34	0	572.75928	-0.00012	0.0002
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22	17	5	1	21	17	4	0	568.12489	-0.00005	0.0002
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24	17	7	1	23	17	6	0	568.38209	0.00006	0.0002
25	17	8	1	24	17	7	0	568.53587	-0.00004	0.0002
26	17	9	1	25	17	8	0	568.70045	0.00025	0.0002
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28	17	11	1	27	17	10	0	569.03567	0.00002	0.0002
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30	17	13	1	29	17	12	0	569.37307	-0.00011	0.0002
31	17	14	1	30	17	13	0	569.54210	-0.00001	0.0002
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33	17	16	1	32	17	15	0	569.87997	0.00005	0.0002
34	17	17	1	33	17	16	0	570.04886	0.00016	0.0002
36	17	19	1	35	17	18	0	570.38593	0.00002	0.0002
39	17	22	1	38	17	21	0	570.89068	0.00003	0.0002
40	17	23	1	39	17	22	0	571.05869	0.00011	0.0002
41	17	24	1	40	17	23	0	571.22635	0.00000	0.0002
42	17	25	1	41	17	24	0	571.39408	0.00012	0.0002
43	17	26	1	42	17	25	0	571.56153	0.00014	0.0002
45	17	28	1	44	17	27	0	571.89589	0.00014	0.0002
46	17	29	1	45	17	28	0	572.06267	0.00000	0.0002
47	17	30	1	46	17	29	0	572.22952	0.00011	0.0002
48	17	31	1	47	17	30	0	572.39602	0.00004	0.0002
49	17	32	1	48	17	31	0	572.56243	0.00006	0.0002
50	17	33	1	49	17	32	0	572.72848	-0.00011	0.0002
51	17	34	1	50	17	33	0	572.89455	-0.00008	0.0002
52	17	35	1	51	17	34	0	573.06041	-0.00008	0.0002
53	17	36	1	52	17	35	0	573.22605	-0.00012	0.0002
54	17	37	1	53	17	36	0	573.39163	-0.00005	0.0002
55	17	38	1	54	17	37	0	573.55700	-0.00001	0.0002
56	17	39	1	55	17	38	0	573.72221	0.00006	0.0002
57	17	40	1	56	17	39	0	573.88712	0.00000	0.0002
58	17	41	1	57	17	40	0	574.05178	-0.00014	0.0002
59	17	42	1	58	17	41	0	574.21633	-0.00019	0.0002
60	17	43	1	59	17	42	0	574.38083	-0.00012	0.0002
61	17	44	1	60	17	43	0	574.54516	-0.00005	0.0002
62	17	45	1	61	17	44	0	574.70954	0.00026	0.0002
63	17	46	1	62	17	45	0	574.87321	0.00003	0.0002
64	17	47	1	63	17	46	0	575.03699	0.00010	0.0002
65	17	48	1	64	17	47	0	575.20028	-0.00015	0.0002
67	17	50	1	66	17	49	0	575.52722	0.00026	0.0002
68	17	51	1	67	17	50	0	575.68999	0.00002	0.0002
69	17	52	1	68	17	51	0	575.85266	-0.00013	0.0002
25	18	7	1	24	18	6	0	568.69672	-0.00024	0.0002
26	18	8	1	25	18	7	0	568.84412	-0.00019	0.0002
28	18	10	1	27	18	9	0	569.17250	-0.00006	0.0002
29	18	11	1	28	18	10	0	569.34024	0.00002	0.0002
30	18	12	1	29	18	11	0	569.50854	0.00005	0.0002
31	18	13	1	30	18	12	0	569.67693	-0.00011	0.0002
34	18	16	1	33	18	15	0	570.18310	-0.00003	0.0002
39	18	21	1	38	18	20	0	571.02504	0.00000	0.0002
40	18	22	1	39	18	21	0	571.19301	-0.00001	0.0002
41	18	23	1	40	18	22	0	571.36085	0.00001	0.0002
42	18	24	1	41	18	23	0	571.52856	0.00007	0.0002
43	18	25	1	42	18	24	0	571.69603	0.00005	0.0002
44	18	26	1	43	18	25	0	571.86332	0.00001	0.0002
45	18	27	1	44	18	26	0	572.03025	-0.00021	0.0002
46	18	28	1	45	18	27	0	572.19732	-0.00013	0.0002
47	18	29	1	46	18	28	0	572.36434	0.00008	0.0002
48	18	30	1	47	18	29	0	572.53088	-0.00002	0.0002
49	18	31	1	48	18	30	0	572.69741	0.00004	0.0002
50	18	32	1	49	18	31	0	572.86386	0.00020	0.0002
51	18	33	1	50	18	32	0	573.02960	-0.00017	0.0002
53	18	35	1	52	18	34	0	573.36152	0.00005	0.0002
54	18	36	1	53	18	35	0	573.52720	0.00015	0.0002
55	18	37	1	54	18	36	0	573.69246	0.00001	0.0002
56	18	38	1	55	18	37	0	573.85744	-0.00023	0.0002
57	18	39	1	56	18	38	0	574.02291	0.00018	0.0002
58	18	40	1	57	18	39	0	574.18768	0.00008	0.0002
59	18	41	1	58	18	40	0	574.35241	0.00012	0.0002
62	18	44	1	61	18	43	0	574.84529	0.00001	0.0002
63	18	45	1	62	18	44	0	575.00928	0.00001	0.0002
65	18	47	1	64	18	46	0	575.33639	-0.00029	0.0002
66	18	48	1	65	18	47	0	575.50006	-0.00005	0.0002
67	18	49	1	66	18	48	0	575.66347	0.00010	0.0002
68	18	50	1	67	18	49	0	575.82636	-0.00010	0.0002
25	19	6	1	24	19	5	0	568.90310	-0.00006	0.0002
26	19	7	1	25	19	6	0	569.01478	-0.00011	0.0002
28	19	9	1	27	19	8	0	569.31300	0.00010	0.0002
30	19	11	1	29	19	10	0	569.64488	-0.00004	0.0002
31	19	12	1	30	19	11	0	569.81270	-0.00003	0.0002
34	19	15	1	33	19	14	0	570.31776	-0.00007	0.0002
35	19	16	1	34	19	15	0	570.48618	-0.00013	0.0002
37	19	18	1	36	19	17	0	570.82308	-0.00002	0.0002
39	19	20	1	38	19	19	0	571.15943	-0.00005	0.0002
40	19	21	1	39	19	20	0	571.32742	-0.00005	0.0002
41	19	22	1	40	19	21	0	571.49534	0.00003	0.0002
42	19	23	1	41	19	22	0	571.66298	-0.00003	0.0002
43	19	24	1	42	19	23	0	571.83056	0.00002	0.0002
44	19	25	1	43	19	24	0	571.99796	0.00004	0.0002
45	19	26	1	44	19	25	0	572.16527	0.00014	0.0002
46	19	27	1	45	19	26	0	572.33220	0.00002	0.0002
48	19	29	1	47	19	28	0	572.66576	0.00000	0.0002
49	19	30	1	48	19	29	0	572.83222	-0.00008	0.0002
50	19	31	1	49	19	30	0	572.99875	0.00009	0.0002
51	19	32	1	50	19	31	0	573.16477	-0.00007	0.0002
52	19	33	1	51	19	32	0	573.33084	-0.00001	0.0002
53	19	34	1	52	19	33	0	573.49677	0.00009	0.0002
54	19	35	1	53	19	34	0	573.66245	0.00011	0.0002
55	19	36	1	54	19	35	0	573.82787	0.00004	0.0002
56	19	37	1	55	19	36	0	573.99317	0.00004	0.0002
58	19	39	1	57	19	38	0	574.32341	0.00021	0.0002
59	19	40	1	58	19	39	0	574.48818	0.00021	0.0002
60	19	41	1	59	19	40	0	574.65255	-0.00001	0.0002
32	20	12	1	31	20	11	0	570.11719	0.00014	0.0002
34	20	14	1	33	20	13	0	570.45302	0.00004	0.0002
38	20	18	1	37	20	17	0	571.12623	0.00034	0.0002
39	20	19	1	38	20	18	0	571.29403	0.00004	0.0002
40	20	20	1	39	20	19	0	571.46219	0.00022	0.0002
41	20	21	1	40	20	20	0	571.62991	0.00009	0.0002
42	20	22	1	41	20	21	0	571.79759	0.00006	0.0002
43	20	23	1	42	20	22	0	571.96511	0.00001	0.0002
44	20	24	1	43	20	23	0	572.13261	0.00009	0.0002
45	20	25	1	44	20	24	0	572.29978	0.00000	0.0002
46	20	26	1	45	20	25	0	572.46681	-0.00006	0.0002
47	20	27	1	46	20	26	0	572.63410	0.00029	0.0002
48	20	28	1	47	20	27	0	572.80071	0.00013	0.0002
49	20	29	1	48	20	28	0	572.96716	-0.00001	0.0002
50	20	30	1	49	20	29	0	573.13354	-0.00006	0.0002
51	20	31	1	50	20	30	0	573.29996	0.00011	0.0002
52	20	32	1	51	20	31	0	573.46606	0.00014	0.0002
53	20	33	1	52	20	32	0	573.63182	-0.00001	0.0002
54	20	34	1	53	20	33	0	573.79758	0.00001	0.0002
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56	20	36	1	55	20	35	0	574.12855	0.00005	0.0002
57	20	37	1	56	20	36	0	574.29404	0.00034	0.0002
58	20	38	1	57	20	37	0	574.45877	0.00006	0.0002
59	20	39	1	58	20	38	0	574.62373	0.00017	0.0002
60	20	40	1	59	20	39	0	574.78819	-0.00004	0.0002
61	20	41	1	60	20	40	0	574.95263	-0.00008	0.0002
62	20	42	1	61	20	41	0	575.11720	0.00017	0.0002
63	20	43	1	62	20	42	0	575.28125	0.00009	0.0002
64	20	44	1	63	20	43	0	575.44507	-0.00004	0.0002
65	20	45	1	64	20	44	0	575.60887	-0.00002	0.0002
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13	6	7	1	13	6	8	0	562.87598	-0.00002	0.0002
14	6	8	1	14	6	9	0	563.00648	-0.00014	0.0002
15	6	9	1	15	6	10	0	563.13700	0.00003	0.0002
16	6	10	1	16	6	11	0	563.26694	-0.00016	0.0002

17	6	11	1	17	6	12	0	563.39680	-0.00020	0.0002
18	6	12	1	18	6	13	0	563.52687	0.00016	0.0002
19	6	13	1	19	6	14	0	563.65641	0.00018	0.0002
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16	7	9	1	16	7	10	0	563.13501	-0.00002	0.0002
17	7	10	1	17	7	11	0	563.26522	0.00008	0.0002
18	7	11	1	18	7	12	0	563.39489	-0.00014	0.0002
19	7	12	1	19	7	13	0	563.52478	0.00008	0.0002
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21	7	14	1	21	7	15	0	563.78350	0.00007	0.0002
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23	7	16	1	23	7	17	0	564.04141	0.00003	0.0002
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25	7	18	1	25	7	19	0	564.29872	0.00013	0.0002
26	7	19	1	26	7	20	0	564.42688	-0.00004	0.0002
27	7	20	1	27	7	21	0	564.55491	-0.00016	0.0002
28	7	21	1	28	7	22	0	564.68296	-0.00008	0.0002
30	7	23	1	30	7	24	0	564.93829	-0.00014	0.0002
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21	9	12	1	21	9	13	0	563.52006	-0.00011	0.0002
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25	9	16	1	25	9	17	0	564.03657	0.00008	0.0002
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28	9	19	1	28	9	20	0	564.42152	-0.00012	0.0002
29	9	20	1	29	9	21	0	564.54981	0.00017	0.0002
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31	9	22	1	31	9	23	0	564.80521	0.00012	0.0002
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19	10	9	1	19	10	10	0	563.12783	-0.00001	0.0002
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29	10	19	1	29	10	20	0	564.41865	-0.00015	0.0002
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33	10	23	1	33	10	24	0	564.92927	-0.00014	0.0002
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20	11	9	1	20	11	10	0	563.12505	0.00012	0.0002
21	11	10	1	21	11	11	0	563.25546	0.00017	0.0002
23	11	12	1	23	11	13	0	563.51519	0.00027	0.0002
24	11	13	1	24	11	14	0	563.64441	0.00010	0.0002
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29	11	18	1	29	11	19	0	564.28756	-0.00021	0.0002
30	11	19	1	30	11	20	0	564.41562	-0.00021	0.0002
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32	11	21	1	32	11	22	0	564.67137	-0.00002	0.0002
33	11	22	1	33	11	23	0	564.79856	-0.00031	0.0002
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38	11	27	1	38	11	28	0	565.43352	0.00000	0.0002
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25	12	13	1	25	12	14	0	563.64143	0.00002	0.0002
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34	12	22	1	34	12	23	0	564.79567	0.00008	0.0002
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36	12	24	1	36	12	25	0	565.04987	0.00001	0.0002
37	12	25	1	37	12	26	0	565.17712	0.00041	0.0002
38	12	26	1	38	12	27	0	565.30332	-0.00005	0.0002
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42	12	30	1	42	12	31	0	565.80835	0.00016	0.0002
43	12	31	1	43	12	32	0	565.93362	-0.00030	0.0002
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17	13	4	1	17	13	5	0	562.39049	-0.00008	0.0002
18	13	5	1	18	13	6	0	562.57184	-0.00002	0.0002
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21	13	8	1	21	13	9	0	562.98686	0.00008	0.0002
22	13	9	1	22	13	10	0	563.11829	0.00006	0.0002
23	13	10	1	23	13	11	0	563.24883	-0.00010	0.0002
24	13	11	1	24	13	12	0	563.37897	-0.00015	0.0002
25	13	12	1	25	13	13	0	563.50874	-0.00016	0.0002
27	13	14	1	27	13	15	0	563.76770	0.00023	0.0002
28	13	15	1	28	13	16	0	563.89625	-0.00010	0.0002
29	13	16	1	29	13	17	0	564.02501	0.00003	0.0002
30	13	17	1	30	13	18	0	564.15342	0.00005	0.0002
31	13	18	1	31	13	19	0	564.28139	-0.00016	0.0002
32	13	19	1	32	13	20	0	564.40927	-0.00024	0.0002
33	13	20	1	33	13	21	0	564.53731	0.00004	0.0002
34	13	21	1	34	13	22	0	564.66495	0.00012	0.0002
35	13	22	1	35	13	23	0	564.79234	0.00015	0.0002
36	13	23	1	36	13	24	0	564.91936	0.00002	0.0002
37	13	24	1	37	13	25	0	565.04619	-0.00012	0.0002
40	13	27	1	40	13	28	0	565.42599	-0.00009	0.0002
41	13	28	1	41	13	29	0	565.55229	-0.00001	0.0002
42	13	29	1	42	13	30	0	565.67855	0.00022	0.0002
43	13	30	1	43	13	31	0	565.80408	-0.00009	0.0002
44	13	31	1	44	13	32	0	565.92998	0.00016	0.0002
17	14	3	1	17	14	4	0	562.13634	0.00013	0.0002
18	14	4	1	18	14	5	0	562.35994	0.00006	0.0002
19	14	5	1	19	14	6	0	562.55719	0.00013	0.0002
20	14	6	1	20	14	7	0	562.71095	-0.00019	0.0002
21	14	7	1	21	14	8	0	562.84867	-0.00035	0.0002
22	14	8	1	22	14	9	0	562.98254	0.00003	0.0002
23	14	9	1	23	14	10	0	563.11437	0.00000	0.0002
24	14	10	1	24	14	11	0	563.24522	-0.00012	0.0002

25	14	11	1	25	14	12	0	563.37551	-0.00018	0.0002
26	14	12	1	26	14	13	0	563.50591	0.00036	0.0002
27	14	13	1	27	14	14	0	563.63486	-0.00019	0.0002
28	14	14	1	28	14	15	0	563.76427	0.00006	0.0002
29	14	15	1	29	14	16	0	563.89312	0.00003	0.0002
30	14	16	1	30	14	17	0	564.02174	0.00004	0.0002
31	14	17	1	31	14	18	0	564.15021	0.00014	0.0002
32	14	18	1	32	14	19	0	564.27821	0.00000	0.0002
33	14	19	1	33	14	20	0	564.40592	-0.00021	0.0002
34	14	20	1	34	14	21	0	564.53384	0.00000	0.0002
35	14	21	1	35	14	22	0	564.66128	-0.00006	0.0002
36	14	22	1	36	14	23	0	564.78890	0.00025	0.0002
37	14	23	1	37	14	24	0	564.91580	0.00005	0.0002
38	14	24	1	38	14	25	0	565.04274	0.00009	0.0002
39	14	25	1	39	14	26	0	565.16924	-0.00012	0.0002
40	14	26	1	40	14	27	0	565.29592	0.00005	0.0002
20	15	5	1	20	15	6	0	562.53808	0.00021	0.0002
21	15	6	1	21	15	7	0	562.70200	-0.00014	0.0002
22	15	7	1	22	15	8	0	562.84328	0.00011	0.0002
23	15	8	1	23	15	9	0	562.97775	-0.00001	0.0002
25	15	10	1	25	15	11	0	563.24143	-0.00001	0.0002
26	15	11	1	26	15	12	0	563.37175	-0.00024	0.0002
27	15	12	1	27	15	13	0	563.50213	0.00014	0.0002
28	15	13	1	28	15	14	0	563.63150	-0.00006	0.0002
29	15	14	1	29	15	15	0	563.76061	-0.00016	0.0002
30	15	15	1	30	15	16	0	563.88979	0.00013	0.0002
31	15	16	1	31	15	17	0	564.01823	-0.00004	0.0002
32	15	17	1	32	15	18	0	564.14640	-0.00023	0.0002
33	15	18	1	33	15	19	0	564.27480	0.00006	0.0002
34	15	19	1	34	15	20	0	564.40252	-0.00010	0.0002
35	15	20	1	35	15	21	0	564.53021	-0.00008	0.0002
36	15	21	1	36	15	22	0	564.65768	-0.00005	0.0002
37	15	22	1	37	15	23	0	564.78512	0.00014	0.0002
38	15	23	1	38	15	24	0	564.91198	-0.00004	0.0002
39	15	24	1	39	15	25	0	565.03874	-0.00012	0.0002
40	15	25	1	40	15	26	0	565.16573	0.00023	0.0002
41	15	26	1	41	15	27	0	565.29190	-0.00004	0.0002
42	15	27	1	42	15	28	0	565.41808	-0.00012	0.0002
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45	15	30	1	45	15	31	0	565.79569	-0.00012	0.0002
22	16	6	1	22	16	7	0	562.69096	0.00007	0.0002
23	16	7	1	23	16	8	0	562.83620	-0.00022	0.0002
24	16	8	1	24	16	9	0	562.97260	0.00013	0.0002
25	16	9	1	25	16	10	0	563.10561	0.00008	0.0002
26	16	10	1	26	16	11	0	563.23706	-0.00015	0.0002
27	16	11	1	27	16	12	0	563.36816	0.00015	0.0002
28	16	12	1	28	16	13	0	563.49804	-0.00013	0.0002
29	16	13	1	29	16	14	0	563.62762	-0.00023	0.0002
30	16	14	1	30	16	15	0	563.75701	-0.00011	0.0002
31	16	15	1	31	16	16	0	563.88623	0.00018	0.0002
32	16	16	1	32	16	17	0	564.01469	0.00002	0.0002
33	16	17	1	33	16	18	0	564.14316	0.00014	0.0002
34	16	18	1	34	16	19	0	564.27126	0.00015	0.0002
35	16	19	1	35	16	20	0	564.39870	-0.00026	0.0002
36	16	20	1	36	16	21	0	564.52641	-0.00018	0.0002
37	16	21	1	37	16	22	0	564.65415	0.00016	0.0002
38	16	22	1	38	16	23	0	564.78139	0.00020	0.0002
39	16	23	1	39	16	24	0	564.90810	-0.00006	0.0002
40	16	24	1	40	16	25	0	565.03483	-0.00010	0.0002
41	16	25	1	41	16	26	0	565.16157	0.00005	0.0002
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43	16	27	1	43	16	28	0	565.41419	0.00012	0.0002
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45	16	29	1	45	16	30	0	565.66591	0.00004	0.0002
46	16	30	1	46	16	31	0	565.79139	-0.00008	0.0002
24	17	7	1	24	17	8	0	562.82840	-0.00012	0.0002
25	17	8	1	25	17	9	0	562.96664	0.00008	0.0002
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27	17	10	1	27	17	11	0	563.23253	-0.00010	0.0002
28	17	11	1	28	17	12	0	563.36371	-0.00003	0.0002
29	17	12	1	29	17	13	0	563.49375	-0.00036	0.0002
30	17	13	1	30	17	14	0	563.62388	-0.00003	0.0002
31	17	14	1	31	17	15	0	563.75325	-0.00001	0.0002
32	17	15	1	32	17	16	0	563.88227	0.00003	0.0002
33	17	16	1	33	17	17	0	564.01087	-0.00002	0.0002
34	17	17	1	34	17	18	0	564.13925	0.00001	0.0002
35	17	18	1	35	17	19	0	564.26734	0.00002	0.0002
36	17	19	1	36	17	20	0	564.39522	0.00007	0.0002
37	17	20	1	37	17	21	0	564.52247	-0.00027	0.0002
38	17	21	1	38	17	22	0	564.64999	-0.00012	0.0002
39	17	22	1	39	17	23	0	564.77744	0.00019	0.0002
40	17	23	1	40	17	24	0	564.90405	-0.00012	0.0002
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31	18	13	1	31	18	14	0	563.61987	0.00014	0.0002
32	18	14	1	32	18	15	0	563.74924	0.00004	0.0002
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34	18	16	1	34	18	17	0	564.00689	-0.00004	0.0002
35	18	17	1	35	18	18	0	564.13523	-0.00006	0.0002
36	18	18	1	36	18	19	0	564.26313	-0.00024	0.0002
37	18	19	1	37	18	20	0	564.39104	-0.00015	0.0002
38	18	20	1	38	18	21	0	564.51880	0.00005	0.0002
39	18	21	1	39	18	22	0	564.64597	-0.00011	0.0002
40	18	22	1	40	18	23	0	564.77333	0.00015	0.0002
41	18	23	1	41	18	24	0	564.89990	-0.00016	0.0002
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38	19	19	1	38	19	20	0	564.38692	-0.00014	0.0002
39	19	20	1	39	19	21	0	564.51471	0.00010	0.0002
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41	19	22	1	41	19	23	0	564.76908	0.00011	0.0002
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47	19	28	1	47	19	29	0	565.52666	-0.00012	0.0002
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35	20	15	1	35	20	16	0	563.86923	-0.00037	0.0002
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38	20	18	1	38	20	19	0	564.25498	0.00002	0.0002
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35	22	13	1	35	22	14	0	563.60020	-0.00014	0.0002
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34	22	12	1	35	22	13	0	552.79040	0.00004	0.0002
35	22	13	1	36	22	14	0	552.61479	-0.00010	0.0002
36	22	14	1	37	22	15	0	552.43926	0.00044	0.0002
37	22	15	1	38	22	16	0	552.26239	0.00011	0.0002
38	22	16	1	39	22	17	0	552.08532	-0.00003	0.0002
39	22	17	1	40	22	18	0	551.90852	0.00042	0.0002
40	22	18	1	41	22	19	0	551.73066	0.00010	0.0002
41	22	19	1	42	22	20	0	551.55270	-0.00007	0.0002
42	22	20	1	43	22	21	0	551.37479	0.00006	0.0002
43	22	21	1	44	22	22	0	551.19656	0.00007	0.0002
44	22	22	1	45	22	23	0	551.01794	-0.00009	0.0002
45	22	23	1	46	22	24	0	550.83929	-0.00007	0.0002
46	22	24	1	47	22	25	0	550.66076	0.00026	0.0002
48	22	26	1	49	22	27	0	550.30237	0.00014	0.0002
49	22	27	1	50	22	28	0	550.12276	-0.00006	0.0002
50	22	28	1	51	22	29	0	549.94316	-0.00007	0.0002
52	22	30	1	53	22	31	0	549.58346	-0.00007	0.0002
53	22	31	1	54	22	32	0	549.40352	0.00009	0.0002
54	22	32	1	55	22	33	0	549.22345	0.00030	0.0002
55	22	33	1	56	22	34	0	549.04280	0.00009	0.0002
56	22	34	1	57	22	35	0	548.86195	-0.00015	0.0002
57	22	35	1	58	22	36	0	548.68129	-0.00002	0.0002
58	22	36	1	59	22	37	0	548.50040	0.00003	0.0002
61	22	39	1	62	22	40	0	547.95641	-0.00014	0.0002
62	22	40	1	63	22	41	0	547.77485	-0.00011	0.0002
34	23	11	1	35	23	12	0	552.65505	0.00006	0.0002
35	23	12	1	36	23	13	0	552.48069	-0.00003	0.0002
36	23	13	1	37	23	14	0	552.30544	-0.00007	0.0002
37	23	14	1	38	23	15	0	552.12965	0.00004	0.0002
38	23	15	1	39	23	16	0	551.95336	0.00018	0.0002
39	23	16	1	40	23	17	0	551.77631	-0.00002	0.0002
40	23	17	1	41	23	18	0	551.59902	-0.00011	0.0002
41	23	18	1	42	23	19	0	551.42158	-0.00004	0.0002
42	23	19	1	43	23	20	0	551.24370	-0.00014	0.0002
43	23	20	1	44	23	21	0	551.06582	0.00001	0.0002
44	23	21	1	45	23	22	0	550.88748	-0.00007	0.0002
46	23	23	1	47	23	24	0	550.53040	0.00001	0.0002
47	23	24	1	48	23	25	0	550.35150	0.00000	0.0002
48	23	25	1	49	23	26	0	550.17241	-0.00002	0.0002
50	23	27	1	51	23	28	0	549.81356	-0.00016	0.0002
51	23	28	1	52	23	29	0	549.63386	-0.00023	0.0002
52	23	29	1	53	23	30	0	549.45429	0.00000	0.0002
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54	23	31	1	55	23	32	0	549.09429	0.00012	0.0002
55	23	32	1	56	23	33	0	548.91367	-0.00018	0.0002
56	23	33	1	57	23	34	0	548.73316	-0.00020	0.0002
57	23	34	1	58	23	35	0	548.55251	-0.00019	0.0002
58	23	35	1	59	23	36	0	548.37162	-0.00026	0.0002
60	23	37	1	61	23	38	0	548.00955	-0.00018	0.0002
61	23	38	1	62	23	39	0	547.82822	-0.00019	0.0002
62	23	39	1	63	23	40	0	547.64698	0.00005	0.0002
29	24	5	1	30	24	6	0	553.26156	-0.00023	0.0002
31	24	7	1	32	24	8	0	552.97269	-0.00025	0.0002
32	24	8	1	33	24	9	0	552.84320	0.00013	0.0002
33	24	9	1	34	24	10	0	552.68517	0.00015	0.0002
34	24	10	1	35	24	11	0	552.51670	0.00003	0.0002
35	24	11	1	36	24	12	0	552.34453	-0.00011	0.0002
37	24	13	1	38	24	14	0	551.99597	0.00006	0.0002
38	24	14	1	39	24	15	0	551.82045	0.00024	0.0002
39	24	15	1	40	24	16	0	551.64431	0.00038	0.0002
42	24	18	1	43	24	19	0	551.11255	-0.00002	0.0002
43	24	19	1	44	24	20	0	550.93479	-0.00003	0.0002
44	24	20	1	45	24	21	0	550.75669	-0.00011	0.0002
45	24	21	1	46	24	22	0	550.57846	-0.00007	0.0002
46	24	22	1	47	24	23	0	550.39989	-0.00015	0.0002
47	24	23	1	48	24	24	0	550.22129	-0.00005	0.0002
48	24	24	1	49	24	25	0	550.04238	-0.00006	0.0002
49	24	25	1	50	24	26	0	549.86326	-0.00007	0.0002
50	24	26	1	51	24	27	0	549.68414	0.00010	0.0002
52	24	28	1	53	24	29	0	549.32469	-0.00021	0.0002
53	24	29	1	54	24	30	0	549.14499	-0.00007	0.0002
55	24	31	1	56	24	32	0	548.78480	-0.00005	0.0002
56	24	32	1	57	24	33	0	548.60438	-0.00011	0.0002
57	24	33	1	58	24	34	0	548.42392	-0.00003	0.0002
58	24	34	1	59	24	35	0	548.24309	-0.00017	0.0002
61	24	37	1	62	24	38	0	547.70003	-0.00012	0.0002
62	24	38	1	63	24	39	0	547.51861	-0.00018	0.0002
28	25	3	1	29	25	4	0	553.75615	0.00004	0.0002
29	25	4	1	30	25	5	0	553.33833	0.00007	0.0002
30	25	5	1	31	25	6	0	552.96881	-0.00002	0.0002
33	25	8	1	34	25	9	0	552.52361	0.00000	0.0002
34	25	9	1	35	25	10	0	552.37124	-0.00006	0.0002

36	25	11	1	37	25	12	0	552.03403	0.00009	0.0002
37	25	12	1	38	25	13	0	551.86054	-0.00012	0.0002
38	25	13	1	39	25	14	0	551.68629	0.00019	0.0002
41	25	16	1	42	25	17	0	551.15790	0.00002	0.0002
42	25	17	1	43	25	18	0	550.98100	0.00017	0.0002
43	25	18	1	44	25	19	0	550.80347	0.00006	0.0002
44	25	19	1	45	25	20	0	550.62578	0.00010	0.0002
45	25	20	1	46	25	21	0	550.44770	0.00002	0.0002
46	25	21	1	47	25	22	0	550.26969	0.00026	0.0002
47	25	22	1	48	25	23	0	550.09089	-0.00004	0.0002
48	25	23	1	49	25	24	0	549.91216	-0.00005	0.0002
49	25	24	1	50	25	25	0	549.73330	0.00001	0.0002
50	25	25	1	51	25	26	0	549.55428	0.00011	0.0002
53	25	28	1	54	25	29	0	549.01565	0.00001	0.0002
54	25	29	1	55	25	30	0	548.83579	0.00002	0.0002
55	25	30	1	56	25	31	0	548.65577	0.00006	0.0002
57	25	32	1	58	25	33	0	548.29496	-0.00012	0.0002
58	25	33	1	59	25	34	0	548.11428	-0.00023	0.0002
59	25	34	1	60	25	35	0	547.93390	0.00013	0.0002
60	25	35	1	61	25	36	0	547.75265	-0.00021	0.0002
37	21	16	1	36	21	15	0	571.09253	-0.00007	0.0002
38	21	17	1	37	21	16	0	571.26071	0.00006	0.0002
39	21	18	1	38	21	17	0	571.42852	-0.00013	0.0002
40	21	19	1	39	21	18	0	571.59650	-0.00007	0.0002
41	21	20	1	40	21	19	0	571.76432	-0.00007	0.0002
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43	21	22	1	42	21	21	0	572.09969	0.00000	0.0002
44	21	23	1	43	21	22	0	572.26715	0.00003	0.0002
45	21	24	1	44	21	23	0	572.43446	0.00005	0.0002
46	21	25	1	45	21	24	0	572.60151	-0.00004	0.0002
47	21	26	1	46	21	25	0	572.76854	0.00001	0.0002
48	21	27	1	47	21	26	0	572.93522	-0.00013	0.0002
49	21	28	1	48	21	27	0	573.10210	0.00011	0.0002
50	21	29	1	49	21	28	0	573.26858	0.00010	0.0002
51	21	30	1	50	21	29	0	573.43478	-0.00002	0.0002
52	21	31	1	51	21	30	0	573.60105	0.00010	0.0002
54	21	33	1	53	21	32	0	573.93258	-0.00013	0.0002
55	21	34	1	54	21	33	0	574.09832	-0.00002	0.0002
56	21	35	1	55	21	34	0	574.26368	-0.00010	0.0002
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61	21	40	1	60	21	39	0	575.08845	0.00007	0.0002
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28	22	6	1	27	22	5	0	569.85809	-0.00004	0.0002
29	22	7	1	28	22	6	0	569.98678	0.00012	0.0002
30	22	8	1	29	22	7	0	570.09528	0.00018	0.0002
31	22	9	1	30	22	8	0	570.23714	-0.00003	0.0002
33	22	11	1	32	22	10	0	570.55994	-0.00013	0.0002
34	22	12	1	33	22	11	0	570.72615	0.00010	0.0002
35	22	13	1	34	22	12	0	570.89297	0.00003	0.0002
36	22	14	1	35	22	13	0	571.06021	-0.00011	0.0002
37	22	15	1	36	22	14	0	571.22781	-0.00016	0.0002
38	22	16	1	37	22	15	0	571.39570	-0.00005	0.0002
39	22	17	1	38	22	16	0	571.56363	0.00007	0.0002
40	22	18	1	39	22	17	0	571.73151	0.00015	0.0002
41	22	19	1	40	22	18	0	571.89910	-0.00001	0.0002
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43	22	21	1	42	22	20	0	572.23429	-0.00004	0.0002
44	22	22	1	43	22	21	0	572.40166	-0.00010	0.0002
47	22	25	1	46	22	24	0	572.90327	0.00003	0.0002
48	22	26	1	47	22	25	0	573.07008	-0.00001	0.0002
49	22	27	1	48	22	26	0	573.23686	0.00006	0.0002
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51	22	29	1	50	22	28	0	573.56979	0.00009	0.0002
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24	23	1	1	23	23	0	0	568.41941	0.00036	0.0002
25	23	2	1	24	23	1	0	568.73725	0.00040	0.0002
27	23	4	1	26	23	3	0	569.46238	0.00005	0.0002
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29	23	6	1	28	23	5	0	570.16404	-0.00002	0.0002
31	23	8	1	30	23	7	0	570.41451	0.00003	0.0002
33	23	10	1	32	23	9	0	570.70269	-0.00024	0.0002
34	23	11	1	33	23	10	0	570.86558	-0.00001	0.0002
35	23	12	1	34	23	11	0	571.03065	-0.00012	0.0002
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37	23	14	1	36	23	13	0	571.36436	0.00029	0.0002
38	23	15	1	37	23	14	0	571.53137	0.00000	0.0002
39	23	16	1	38	23	15	0	571.69881	-0.00005	0.0002
40	23	17	1	39	23	16	0	571.86668	0.00023	0.0002
41	23	18	1	40	23	17	0	572.03416	0.00012	0.0002
42	23	19	1	41	23	18	0	572.20174	0.00013	0.0002
43	23	20	1	42	23	19	0	572.36919	0.00009	0.0002
44	23	21	1	43	23	20	0	572.53640	-0.00009	0.0002
45	23	22	1	44	23	21	0	572.70391	0.00013	0.0002
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47	23	24	1	46	23	23	0	573.03797	0.00000	0.0002
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49	23	26	1	48	23	25	0	573.37181	0.00023	0.0002
50	23	27	1	49	23	26	0	573.53827	0.00011	0.0002
51	23	28	1	50	23	27	0	573.70442	-0.00015	0.0002
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54	23	31	1	53	23	30	0	574.20283	-0.00001	0.0002
55	23	32	1	54	23	31	0	574.36844	-0.00015	0.0002
56	23	33	1	55	23	32	0	574.53418	0.00001	0.0002
57	23	34	1	56	23	33	0	574.69962	0.00004	0.0002
58	23	35	1	57	23	34	0	574.86488	0.00007	0.0002
59	23	36	1	58	23	35	0	575.02995	0.00007	0.0002
61	23	38	1	60	23	37	0	575.35928	-0.00019	0.0002
62	23	39	1	61	23	38	0	575.52391	-0.00009	0.0002
63	23	40	1	62	23	39	0	575.68836	0.00001	0.0002
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33	24	9	1	32	24	8	0	570.85970	-0.00013	0.0002
34	24	10	1	33	24	9	0	571.01033	-0.00023	0.0002
35	24	11	1	34	24	10	0	571.17139	-0.00002	0.0002
36	24	12	1	35	24	11	0	571.33565	-0.00001	0.0002
37	24	13	1	36	24	12	0	571.50131	-0.00006	0.0002
38	24	14	1	37	24	13	0	571.66785	-0.00002	0.0002
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43	24	19	1	42	24	18	0	572.50415	0.00009	0.0002
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51	24	27	1	50	24	26	0	573.83949	0.00005	0.0002
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31	25	6	1	30	25	5	0	570.74946	-0.00024	0.0002
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33	25	8	1	32	25	7	0	571.06347	0.00006	0.0002
34	25	9	1	33	25	8	0	571.17440	0.00008	0.0002
35	25	10	1	34	25	9	0	571.31913	0.00006	0.0002
37	25	12	1	36	25	11	0	571.64109	0.00032	0.0002
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41	25	16	1	40	25	15	0	572.30511	-0.00004	0.0002
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44	25	19	1	43	25	18	0	572.80654	0.00007	0.0002
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46	25	21	1	45	25	20	0	573.14087	0.00021	0.0002
47	25	22	1	46	25	21	0	573.30753	-0.00009	0.0002

48	25	23	1	47	25	22	0	573.47468	0.00019	0.0002
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61	25	36	1	60	25	35	0	575.63000	-0.00027	0.0002
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23	5	19	1	23	5	18	0	559.41460	0.00000	0.0002
24	5	20	1	24	5	19	0	559.27868	-0.00005	0.0002
25	5	21	1	25	5	20	0	559.14268	-0.00002	0.0002
20	6	15	1	20	6	14	0	559.95526	0.00003	0.0002
21	6	16	1	21	6	15	0	559.81984	-0.00011	0.0002
22	6	17	1	22	6	16	0	559.68437	-0.00012	0.0002
23	6	18	1	23	6	17	0	559.54873	-0.00015	0.0002
24	6	19	1	24	6	18	0	559.41304	-0.00006	0.0002
25	6	20	1	25	6	19	0	559.27717	0.00001	0.0002
26	6	21	1	26	6	20	0	559.14091	-0.00014	0.0002
27	6	22	1	27	6	21	0	559.00477	-0.00001	0.0002
28	6	23	1	28	6	22	0	558.86826	-0.00007	0.0002
29	6	24	1	29	6	23	0	558.73155	-0.00017	0.0002
30	6	25	1	30	6	24	0	558.59489	-0.00006	0.0002
33	6	28	1	33	6	27	0	558.18369	0.00007	0.0002
36	6	31	1	36	6	30	0	557.77074	-0.00005	0.0002
37	6	32	1	37	6	31	0	557.63281	-0.00003	0.0002
39	6	34	1	39	6	33	0	557.35634	-0.00011	0.0002
41	6	36	1	41	6	35	0	557.07934	-0.00005	0.0002
42	6	37	1	42	6	36	0	556.94065	0.00004	0.0002
43	6	38	1	43	6	37	0	556.80174	0.00007	0.0002
21	7	15	1	21	7	14	0	559.95419	0.00013	0.0002
22	7	16	1	22	7	15	0	559.81861	-0.00007	0.0002
23	7	17	1	23	7	16	0	559.68309	-0.00004	0.0002
24	7	18	1	24	7	17	0	559.54744	0.00001	0.0002
26	7	20	1	26	7	19	0	559.27558	0.00003	0.0002
27	7	21	1	27	7	20	0	559.13934	-0.00002	0.0002
29	7	23	1	29	7	22	0	558.86651	0.00003	0.0002
32	7	26	1	32	7	25	0	558.45598	0.00005	0.0002
33	7	27	1	33	7	26	0	558.31878	0.00003	0.0002
36	7	30	1	36	7	29	0	557.90638	0.00017	0.0002
37	7	31	1	37	7	30	0	557.76823	-0.00013	0.0002
21	8	14	1	21	8	13	0	560.08816	-0.00005	0.0002
22	8	15	1	22	8	14	0	559.95291	0.00003	0.0002
23	8	16	1	23	8	15	0	559.81737	-0.00002	0.0002
24	8	17	1	24	8	16	0	559.68177	0.00002	0.0002
25	8	18	1	25	8	17	0	559.54593	-0.00002	0.0002
26	8	19	1	26	8	18	0	559.41004	0.00003	0.0002
27	8	20	1	27	8	19	0	559.27377	-0.00012	0.0002
28	8	21	1	28	8	20	0	559.13770	0.00008	0.0002
29	8	22	1	29	8	21	0	559.00131	0.00012	0.0002
33	8	26	1	33	8	25	0	558.45388	0.00006	0.0002
23	9	15	1	23	9	14	0	559.95176	0.00007	0.0002
24	9	16	1	24	9	15	0	559.81605	-0.00003	0.0002
25	9	17	1	25	9	16	0	559.68045	0.00010	0.0002
26	9	18	1	26	9	17	0	559.54453	0.00007	0.0002
27	9	19	1	27	9	18	0	559.40856	0.00015	0.0002
28	9	20	1	28	9	19	0	559.27225	0.00004	0.0002
29	9	21	1	29	9	20	0	559.13578	-0.00008	0.0002
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35	9	27	1	35	9	26	0	558.31431	-0.00001	0.0002
36	9	28	1	36	9	27	0	558.17698	0.00016	0.0002
24	10	15	1	24	10	14	0	559.95060	0.00010	0.0002
25	10	16	1	25	10	15	0	559.81480	0.00002	0.0002
26	10	17	1	26	10	16	0	559.67902	0.00010	0.0002
28	10	19	1	28	10	18	0	559.40676	-0.00003	0.0002
29	10	20	1	29	10	19	0	559.27063	0.00013	0.0002
31	10	22	1	31	10	21	0	558.99755	0.00010	0.0002
33	10	24	1	33	10	23	0	558.72388	0.00011	0.0002
35	10	26	1	35	10	25	0	558.44947	0.00003	0.0002
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37	10	28	1	37	10	27	0	558.17439	-0.00008	0.0002
38	10	29	1	38	10	28	0	558.03681	0.00007	0.0002
39	10	30	1	39	10	29	0	557.89889	0.00005	0.0002
41	10	32	1	41	10	31	0	557.62244	-0.00013	0.0002
43	10	34	1	43	10	33	0	557.34558	-0.00006	0.0002
13	11	3	1	13	11	2	0	561.73101	-0.00001	0.0002
14	11	4	1	14	11	3	0	561.53521	-0.00007	0.0002
15	11	5	1	15	11	4	0	561.33746	0.00001	0.0002
16	11	6	1	16	11	5	0	561.17786	-0.00002	0.0002
25	11	15	1	25	11	14	0	559.94934	0.00003	0.0002
26	11	16	1	26	11	15	0	559.81348	0.00001	0.0002
27	11	17	1	27	11	16	0	559.67739	-0.00011	0.0002
28	11	18	1	28	11	17	0	559.54132	-0.00008	0.0002
31	11	21	1	31	11	20	0	559.13215	-0.00007	0.0002
35	11	25	1	35	11	24	0	558.58453	0.00002	0.0002
36	11	26	1	36	11	25	0	558.44713	-0.00006	0.0002
27	12	16	1	27	12	15	0	559.81205	-0.00012	0.0002
28	12	17	1	28	12	16	0	559.67597	-0.00010	0.0002
29	12	18	1	29	12	17	0	559.53992	0.00006	0.0002
30	12	19	1	30	12	18	0	559.40363	0.00013	0.0002
32	12	21	1	32	12	20	0	559.13049	0.00012	0.0002
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37	12	26	1	37	12	25	0	558.44505	0.00014	0.0002
38	12	27	1	38	12	26	0	558.30730	-0.00004	0.0002
39	12	28	1	39	12	27	0	558.16956	-0.00006	0.0002
42	12	31	1	42	12	30	0	557.75551	0.00001	0.0002
43	12	32	1	43	12	31	0	557.61699	-0.00015	0.0002
27	13	15	1	27	13	14	0	559.94696	-0.00003	0.0002
28	13	16	1	28	13	15	0	559.81081	-0.00006	0.0002
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30	13	18	1	30	13	17	0	559.53834	0.00004	0.0002
31	13	19	1	31	13	18	0	559.40190	0.00007	0.0002
32	13	20	1	32	13	19	0	559.26525	0.00002	0.0002
33	13	21	1	33	13	20	0	559.12847	-0.00003	0.0002
34	13	22	1	34	13	21	0	558.99161	0.00000	0.0002
35	13	23	1	35	13	22	0	558.85442	-0.00016	0.0002
36	13	24	1	36	13	23	0	558.71741	0.00001	0.0002
37	13	25	1	37	13	24	0	558.58005	-0.00002	0.0002
39	13	27	1	39	13	26	0	558.30500	0.00006	0.0002
40	13	28	1	40	13	27	0	558.16711	-0.00003	0.0002
27	14	14	1	27	14	13	0	560.08210	-0.00001	0.0002
29	14	16	1	29	14	15	0	559.80954	-0.00005	0.0002
30	14	17	1	30	14	16	0	559.67334	0.00012	0.0002
31	14	18	1	31	14	17	0	559.53673	-0.00002	0.0002
33	14	20	1	33	14	19	0	559.26342	-0.00002	0.0002
34	14	21	1	34	14	20	0	559.12645	-0.00014	0.0002
36	14	23	1	36	14	22	0	558.85243	-0.00006	0.0002
37	14	24	1	37	14	23	0	558.71518	-0.00004	0.0002
38	14	25	1	38	14	24	0	558.57774	-0.00005	0.0002
39	14	26	1	39	14	25	0	558.44022	0.00000	0.0002
40	14	27	1	40	14	26	0	558.30246	-0.00003	0.0002
41	14	28	1	41	14	27	0	558.16463	0.00001	0.0002
43	14	30	1	43	14	29	0	557.88835	-0.00003	0.0002
44	14	31	1	44	14	30	0	557.74993	-0.00011	0.0002
19	15	5	1	19	15	4	0	561.43866	0.00002	0.0002
20	15	6	1	20	15	5	0	561.22058	-0.00008	0.0002
21	15	7	1	21	15	6	0	561.05172	0.00000	0.0002
30	15	16	1	30	15	15	0	559.80834	0.00001	0.0002
31	15	17	1	31	15	16	0	559.67185	0.00004	0.0002
34	15	20	1	34	15	19	0	559.26185	0.00021	0.0002
38	15	24	1	38	15	23	0	558.71314	0.00014	0.0002
39	15	25	1	39	15	24	0	558.57549	0.00000	0.0002
40	15	26	1	40	15	25	0	558.43789	0.00006	0.0002
41	15	27	1	41	15	26	0	558.29998	-0.00003	0.0002
42	15	28	1	42	15	27	0	558.16205	-0.00001	0.0002
43	15	29	1	43	15	28	0	558.02411	0.00017	0.0002
44	15	30	1	44	15	29	0	557.88565	-0.00002	0.0002
45	15	31	1	45	15	30	0	557.74724	0.00000	0.0002
31	16	16	1	31	16	15	0	559.80695	-0.00016	0.0002
32	16	17	1	32	16	16	0	559.67037	-0.00005	0.0002
33	16	18	1	33	16	17	0	559.53355	-0.00010	0.0002
34	16	19	1	34	16	18	0	559.39670	-0.00009	0.0002
35	16	20	1	35	16	19	0	559.25973	-0.00011	0.0002
36	16	21	1	36	16	20	0	559.12272	-0.00005	0.0002
39	16	24	1	39	16	23	0	558.71081	0.00005	0.0002
40	16	25	1	40	16	24	0	558.57317	0.00002	0.0002
41	16	26	1	41	16	25	0	558.43537	-0.00004	0.0002
42	16	27	1	42	16	26	0	558.29745	-0.00005	0.0002

49	16	34	1	49	16	33	0	557.32796	0.00000	0.0002
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33	17	17	1	33	17	16	0	559.66910	0.00005	0.0002
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35	17	19	1	35	17	18	0	559.39516	0.00004	0.0002
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39	17	23	1	39	17	22	0	558.84605	-0.00002	0.0002
40	17	24	1	40	17	23	0	558.70838	-0.00013	0.0002
41	17	25	1	41	17	24	0	558.57078	-0.00002	0.0002
42	17	26	1	42	17	25	0	558.43301	0.00006	0.0002
43	17	27	1	43	17	26	0	558.29486	-0.00010	0.0002
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27	19	9	1	27	19	8	0	560.77561	0.00002	0.0002
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41	19	23	1	41	19	22	0	558.84179	0.00007	0.0002
43	19	25	1	43	19	24	0	558.56612	0.00011	0.0002
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49	19	31	1	49	19	30	0	557.73583	0.00016	0.0002
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37	20	18	1	37	20	17	0	559.52770	0.00001	0.0002
38	20	19	1	38	20	18	0	559.39014	-0.00004	0.0002
39	20	20	1	39	20	19	0	559.25267	0.00003	0.0002
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41	20	22	1	41	20	21	0	558.97717	-0.00016	0.0002
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41	22	20	1	41	22	19	0	559.24918	0.00006	0.0002
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45	22	24	1	45	22	23	0	558.69695	-0.00003	0.0002
46	22	25	1	46	22	24	0	558.55879	0.00008	0.0002
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55	22	34	1	55	22	33	0	557.30888	0.00013	0.0002
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58	22	37	1	58	22	36	0	556.88958	0.00000	0.0002
28	23	6	1	28	23	5	0	561.52812	-0.00003	0.0002
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32	23	10	1	32	23	9	0	560.64529	-0.00014	0.0002
33	23	11	1	33	23	10	0	560.49990	-0.00001	0.0002
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46	23	24	1	46	23	23	0	558.69463	-0.00001	0.0002
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49	23	27	1	49	23	26	0	558.27904	-0.00014	0.0002
50	23	28	1	50	23	27	0	558.14032	-0.00014	0.0002
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29	24	6	1	29	24	5	0	561.57706	0.00005	0.0002
30	24	7	1	30	24	6	0	561.28730	-0.00003	0.0002
31	24	8	1	31	24	7	0	561.01357	0.00016	0.0002
42	24	19	1	42	24	18	0	559.38392	-0.00009	0.0002
43	24	20	1	43	24	19	0	559.24566	-0.00005	0.0002
44	24	21	1	44	24	20	0	559.10755	0.00013	0.0002
46	24	23	1	46	24	22	0	558.83055	-0.00019	0.0002
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49	24	26	1	49	24	25	0	558.41535	0.00016	0.0002
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48	25	24	1	48	25	23	0	558.69008	0.00010	0.0002
50	25	26	1	50	25	25	0	558.41254	-0.00006	0.0002
52	25	28	1	52	25	27	0	558.13493	0.00010	0.0002

Table S16: Line list of ($\nu_{23} + \nu_{42}$) of THP. Frequencies are in MHz.

J'	K_a'	K_c'	v	J"	K_a"	K_c"	v	Obs.	o – c	Exp. Error
Millimeter-wave transitions										
14	0	14	1	13	0	13	1	74900.4381	-0.0293	0.040
11	5	7	1	10	5	6	1	75046.2647	-0.0193	0.040
12	3	9	1	11	3	8	1	76309.3397	-0.0359	0.040
13	2	11	1	12	2	10	1	77575.7329	-0.0118	0.040
14	1	13	1	13	1	12	1	78842.3553	0.0127	0.040
11	6	6	1	10	6	5	1	78999.0071	0.0075	0.040
11	5	6	1	10	5	5	1	79000.5182	0.0150	0.040
15	0	15	1	14	0	14	1	80108.3330	0.0214	0.040
12	5	8	1	11	5	7	1	80253.3213	0.0046	0.040
13	3	10	1	12	3	9	1	81517.7522	0.0021	0.040
14	2	12	1	13	2	11	1	82784.0834	-0.0072	0.040
11	7	5	1	10	7	4	1	82957.0690	-0.0491	0.040
11	6	5	1	10	6	4	1	83002.6313	0.0108	0.040
15	1	14	1	14	1	13	1	84050.3768	0.0268	0.040
16	0	16	1	15	0	15	1	85315.8918	0.0248	0.040
13	4	9	1	12	4	8	1	85460.9375	0.0270	0.040
14	3	11	1	13	3	10	1	86726.0228	0.0049	0.040
15	2	13	1	14	2	12	1	87992.1377	-0.0665	0.040
12	7	6	1	11	7	5	1	88161.6999	0.0140	0.040
12	6	6	1	11	6	5	1	88165.6262	-0.0052	0.040
16	1	15	1	15	1	14	1	89258.1037	0.0221	0.040
13	6	8	1	12	6	7	1	89407.0763	0.0336	0.040
11	9	3	1	10	9	2	1	89433.3729	-0.0032	0.040
17	0	17	1	16	0	16	1	90523.1204	0.0013	0.040
14	4	10	1	13	4	9	1	90668.7300	0.0162	0.040
16	2	14	1	15	2	13	1	93200.0681	0.0049	0.040
17	1	16	1	16	1	15	1	94465.4868	-0.0344	0.040
14	6	9	1	13	6	8	1	94613.3830	-0.0021	0.040
15	4	11	1	14	4	10	1	95876.5883	0.0485	0.040
13	8	6	1	12	8	5	1	97329.1975	-0.0333	0.040
13	7	6	1	12	7	5	1	97338.6271	-0.0028	0.040
17	2	15	1	16	2	14	1	98407.6535	0.0056	0.040
14	6	8	1	13	6	7	1	98562.6728	-0.0206	0.040
18	1	17	1	17	1	16	1	99672.6636	0.0093	0.040
15	5	10	1	14	5	9	1	99820.3504	0.0374	0.040
16	4	12	1	15	4	11	1	101084.2758	-0.0029	0.040
17	3	14	1	16	3	13	1	102349.6510	-0.0174	0.040
14	8	7	1	13	8	6	1	102522.6409	-0.0216	0.040
14	7	7	1	13	7	6	1	102523.3986	-0.0009	0.040
18	2	16	1	17	2	15	1	103614.9464	0.0056	0.040
15	7	9	1	14	7	8	1	103767.1896	0.0324	0.040
19	1	18	1	18	1	17	1	104879.4584	-0.0082	0.040
16	5	11	1	15	5	10	1	105027.4790	-0.0033	0.040
20	0	20	1	19	0	19	1	106142.9062	-0.0151	0.040
17	4	13	1	16	4	12	1	106291.8647	0.0039	0.040
14	9	6	1	13	9	5	1	106502.0747	-0.0062	0.040
14	8	6	1	13	8	5	1	106522.6990	-0.0459	0.040
18	3	15	1	17	3	14	1	107557.0915	0.0325	0.040
15	8	8	1	14	8	7	1	107720.8441	0.0470	0.040
19	2	17	1	18	2	16	1	108821.8956	-0.0306	0.040
16	6	10	1	15	6	9	1	108972.7975	-0.0092	0.040
24	5	19	1	24	5	20	1	76820.2600	0.0099	0.040
22	3	19	1	22	3	20	1	76839.7946	0.0152	0.040
21	2	19	1	21	2	20	1	76848.0878	-0.0036	0.040
25	6	19	1	25	6	20	1	76808.8899	0.0137	0.040
27	8	19	1	27	8	20	1	76782.5036	0.0132	0.040
28	9	19	1	28	9	20	1	76767.3331	0.0339	0.040
30	11	19	1	30	11	20	1	76732.4594	0.0169	0.040
31	12	19	1	31	12	20	1	76712.6131	0.0394	0.040
29	10	19	1	29	10	20	1	76750.7079	0.0582	0.040
33	14	19	1	33	14	20	1	76667.4386	0.0229	0.040
34	15	19	1	34	15	20	1	76641.9346	0.0375	0.040
35	16	19	1	35	16	20	1	76614.3112	0.0526	0.040
36	17	19	1	36	17	20	1	76584.4098	0.0362	0.040
37	18	19	1	37	18	20	1	76552.1369	0.0262	0.040
38	19	19	1	38	19	20	1	76517.3496	0.0162	0.040
39	20	19	1	39	20	20	1	76479.8422	-0.0574	0.040
26	7	19	1	26	7	20	1	76796.3429	0.0239	0.040
40	21	19	1	40	21	20	1	76439.5963	-0.0653	0.040
41	22	19	1	41	22	20	1	76396.3595	-0.1064	0.040
22	2	20	1	22	2	21	1	80791.0770	-0.0561	0.040
23	3	20	1	23	3	21	1	80782.6074	-0.0429	0.040
24	4	20	1	24	4	21	1	80773.2219	-0.0461	0.040
26	6	20	1	26	6	21	1	80751.5156	-0.0101	0.040
27	7	20	1	27	7	21	1	80739.0356	0.0169	0.040
28	8	20	1	28	8	21	1	80725.2784	-0.0387	0.040
29	9	20	1	29	9	21	1	80710.3542	0.0148	0.040
30	10	20	1	30	10	21	1	80694.0297	0.0294	0.040
31	11	20	1	31	11	21	1	80676.2315	0.0205	0.040
32	12	20	1	32	12	21	1	80656.8451	-0.0340	0.040
33	13	20	1	33	13	21	1	80635.9426	0.0336	0.040
35	15	20	1	35	15	21	1	80588.6743	0.0234	0.040
36	16	20	1	36	16	21	1	80562.1273	-0.0245	0.040
37	17	20	1	37	17	21	1	80533.5861	-0.0058	0.040
38	18	20	1	38	18	21	1	80502.8323	-0.0232	0.040
39	19	20	1	39	19	21	1	80469.7738	-0.0482	0.040
40	20	20	1	40	20	21	1	80434.3216	-0.0452	0.040
41	21	20	1	41	21	21	1	80396.3203	-0.0398	0.040
42	22	20	1	42	22	21	1	80355.6253	-0.0419	0.040
43	23	20	1	43	23	21	1	80312.1504	0.0017	0.040
44	24	20	1	44	24	21	1	80265.6374	-0.0215	0.040
45	25	20	1	45	25	21	1	80216.0817	0.0346	0.040
46	26	20	1	46	26	21	1	80163.1798	0.0235	0.040
47	27	20	1	47	27	21	1	80106.8903	0.0669	0.040
48	28	20	1	48	28	21	1	80046.9440	0.0657	0.040
49	29	20	1	49	29	21	1	79983.2124	0.0681	0.040
50	30	20	1	50	30	21	1	79915.4889	0.0519	0.040
51	31	20	1	51	31	21	1	79843.5638	-0.0003	0.040
52	32	20	1	52	32	21	1	79767.2168	-0.1084	0.040
23	2	21	1	23	2	22	1	84734.3046	-0.0808	0.040
25	4	21	1	25	4	22	1	84716.1842	0.0174	0.040
26	5	21	1	26	5	22	1	84705.6923	-0.0094	0.040
28	7	21	1	28	7	22	1	84681.7101	-0.0248	0.040
31	10	21	1	31	10	22	1	84637.0877	-0.0430	0.040
29	8	21	1	29	8	22	1	84668.0955	0.0011	0.040
27	5	22	1	27	5	23	1	88648.7539	0.1370	0.040
26	4	22	1	26	4	23	1	88659.3257	0.0954	0.040
24	2	22	1	24	2	23	1	88677.7701	-0.0844	0.040
25	3	22	1	25	3	23	1	88669.1018	0.1445	0.040
26	3	23	1	26	3	24	1	92612.3907	-0.0160	0.040
25	2	23	1	25	2	24	1	92621.4723	-0.0733	0.040
27	4	23	1	27	4	24	1	92602.5207	0.0544	0.040
31	8	23	1	31	8	24	1	92553.5134	-0.1075	0.040
30	7	23	1	30	7	24	1	92567.2359	-0.0714	0.040
29	5	24	1	29	5	25	1	96534.9776	0.1002	0.040
28	4	24	1	28	4	25	1	96545.9215	0.0405	0.040
30	6	24	1	30	6	25	1	96523.1044	0.1046	0.040
26	2	24	1	26	2	25	1	96565.3704	-0.0924	0.040
33	9	24	1	33	9	25	1	96481.4917	-0.1077	0.040
32	8	24	1	32	8	25	1	96496.3486	-0.0667	0.040
27	2	25	1	27	2	26	1	100509.5524	-0.0563	0.040
31	6	25	1	31	6	26	1	100466.2764	0.1260	0.040
32	7	25	1	32	7	26	1	100453.1555	-0.0162	0.040
28	2	26	1	28	2	27	1	104453.9226	-0.0626	0.040
29	3	26	1	29	3	27	1	104444.0382	0.0466	0.040
32	6	26	1	32	6	27	1	104409.4218	-0.0072	0.040
29	2	27	1	29	2	28	1	108398.5384	-0.0542	0.040
30	3	27	1	30	3	28	1	108388.3735	0.1012	0.040
32	5	27	1	32	5	28	1	108365.4085	-0.0257	0.040