

Supporting Information

A. Statistical thermodynamics

Based on equation 7 in the text, expressions for the enthalpic and entropic contributions can be derived [see e.g. Cramer, C.J. *Essentials of Computational Chemistry: Theories and Models*. John Wiley & Sons].

Vibrational contributions

$$U_{vib} = R \sum_i \frac{h\nu_i}{k_B(\exp(h\nu_i/k_B T) - 1)} \quad (\text{S.1})$$

$$S_{vib} = R \sum_i \left[\frac{h\nu_i}{k_B T(\exp(h\nu_i/k_B T) - 1)} - \ln(1 - \exp(-h\nu_i/k_B T)) \right] \quad (\text{S.2})$$

In these expressions, R is the Universal Gas constant, h is the Planck constant, k_B is the Boltzmann factor, T is the temperature and ν_i represent the vibrational frequencies.

Rotational contributions

1. 3D free rotation

$$U_{rot} = \frac{3}{2} RT \quad (\text{S.3})$$

$$S_{rot} = R \left\{ \ln \left[\frac{\sqrt{\pi I_A I_B I_C}}{\sigma} \left(\frac{8\pi^2 k_B T}{h^2} \right)^{3/2} \right] + \frac{3}{2} \right\} \quad (\text{S.4})$$

2. 2D free rotation

$$U_{rot} = RT \quad (\text{S.5})$$

$$S_{rot} = R \left\{ \ln \left[\frac{\sqrt{\pi I_A I_B}}{\sigma} \left(\frac{8\pi^2 k_B T}{h^2} \right) \right] + 1 \right\} \quad (\text{S.6})$$

3. 1D free rotation

$$U_{rot} = \frac{1}{2} RT \quad (\text{S.7})$$

$$S_{rot} = R \left\{ \ln \left[\frac{\sqrt{\pi I_A}}{\sigma} \left(\frac{8\pi^2 k_B T}{h^2} \right)^{1/2} \right] + \frac{1}{2} \right\} \quad (\text{S.8})$$

In these expressions, R is the Universal Gas constant, h is the Planck constant, k_B is the Boltzmann factor, T is the temperature, I_A , I_B and I_C represent the principle moments of inertia and σ the external symmetry number.

Translational contributions

1. 3D free translation

$$U_{trans} = \frac{3}{2} RT \quad (\text{S.9})$$

$$S_{trans}^0 = R \left\{ \ln \left[\left(\frac{2\pi M k_B T}{h^2} \right)^{3/2} \frac{V^0}{N_A} \right] + \frac{5}{2} \right\} \quad (\text{S.10})$$

2. 2D free translation

$$U_{trans} = RT \quad (\text{S.11})$$

$$S_{trans}^0 = R \left\{ \ln \left[\left(\frac{2\pi M k_B T}{h^2} \right) \frac{A^0}{N_A} \right] + 2 \right\} \quad (\text{S.12})$$

In these expressions, R is the Universal Gas constant, h is the Planck constant, k_B is the Boltzmann factor, T is the temperature and M is the molecular mass. In case of a 3D free translation, i.e. for gas phase hydrocarbons, $\frac{V^0}{N_A}$ represent the molecular volume of an ideal gas and equals $\frac{k_B T}{P^0}$. In case a 2D free translation is assumed, more specifically when a hydrocarbon is physisorbed in the H-FAU zeolite, $\frac{A^0}{N_A}$ corresponds with the available surface of an acid site for the “free” translation of the hydrocarbon. In our calculation, this molecular surface area is assumed to amount to 800pm x 800pm, as indicated in Figure S1.

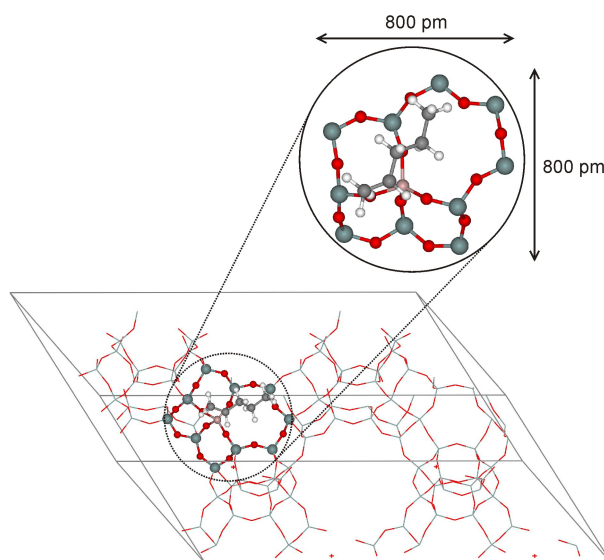


Figure S1: The available surface of an acid site for the “free” translation of the hydrocarbon.

B. Calculation of physisorption enthalpy and entropy of alkanes and alkenes

In the following sections the formulas used for calculating enthalpic and entropic contributions are discussed, both for immobile and mobile physisorption (see also paper). The calculated harmonic frequencies of the *n*-alkanes and the 1-alkenes are given in section D of Supporting Information.

B.1. gas phase alkanes and alkenes

Applied for both immobile and mobile physisorption.

- Vibrational contribution: equations S.1 and S.2
- Rotational contribution: equations S.3 and S.4
- Translation contribution: equations S.9 and S.10

B.2. unloaded zeolite

Applied for both immobile and mobile physisorption.

- only vibrational contributions are considered: equations S.1 and S.2

B.3. physisorption complexes

If *immobile physisorption* is assumed only vibrational contributions are taken into account (equations S.1 and S.2 for all modes) for the physisorption and chemisorption complexes. This method is most straightforward, but does not necessarily leads to the best results, as discussed in the paper.

If *mobile physisorption* is applied, some vibrational modes are removed from the vibrational partition function and replaced by an appropriate “free” rotational and “free” translational contribution. This is discussed below. Figure S2 shows the different “free” and hindered rotational and translational motions for the *n*-alkanes. For the alkenes, rotation (*e*) is also hindered because of the presence of a π -complex.

a) alkanes

- Vibrational contributions: equations S.1 and S.2 after removal of 4 frequencies, corresponding with respectively “free” rotation (2) and “free” translation (2)
 - n-butane: -6.54078 cm⁻¹ (trans), 17.86870 cm⁻¹ (rot), 20.99481 cm⁻¹ (trans), 78.65880 cm⁻¹ (rot).
 - n-pentane: -2.09273 cm⁻¹ (rot), 9.80125 cm⁻¹ (trans), 40.09333 cm⁻¹ (rot), 61.17573 cm⁻¹ (trans).
 - n-hexane: -5.21359 cm⁻¹ (rot), 12.59958 cm⁻¹ (trans), 48.72079 cm⁻¹ (trans), 58.51906 cm⁻¹ (rot).
 - n-heptane: -13.93894 cm⁻¹ (rot), 13.19965 cm⁻¹ (trans), 46.25395 cm⁻¹ (trans), 59.23262 cm⁻¹ (rot).
 - n-octane: 13.35520 cm⁻¹ (trans), 26.56837 cm⁻¹ (trans), 47.29629 cm⁻¹ (rot), 53.36399 cm⁻¹ (rot).
 - n-dodecane: -7.90895 cm⁻¹ (rot), 11.87294 cm⁻¹ (trans), 16.84661 cm⁻¹ (rot), 24.38720 cm⁻¹ (trans).
- Rotational contributions: equations S.5 and S.6
 - n-butane: $I_A = 77.12301$ amu bohr², $I_B = 533.66905$ amu bohr².
 - n-pentane: $I_A = 105.87566$ amu bohr², $I_B = 988.28282$ amu bohr².
 - n-hexane: $I_A = 123.70927$ amu bohr², $I_B = 1659.42989$ amu bohr².
 - n-heptane: $I_A = 149.75692$ amu bohr², $I_B = 2579.45491$ amu bohr².
 - n-octane: $I_A = 168.34519$ amu bohr², $I_B = 3797.51725$ amu bohr².
 - n-dodecane: $I_A = 256.09578$ amu bohr², $I_B = 12428.19437$ amu bohr².
- Translational contributions: equations S.11 and S.12 with $\frac{A^0}{N_A} = 800\text{pm} \times 800\text{pm}$.

b) alkenes

- Vibrational contributions: equations S.1 and S.2 after removal of 3 frequencies, corresponding with respectively “free” rotation (1) and “free” translation (2)
 - ethene: 4.57772 cm^{-1} (rot), 14.09013 cm^{-1} (trans), 45.01464 cm^{-1} (trans).
 - propene: 8.26634 cm^{-1} (trans), 24.55588 cm^{-1} (rot), 33.73988 cm^{-1} (trans).
 - 1-butene: -10.01985 cm^{-1} (rot), 10.85513 cm^{-1} (trans), 40.45608 cm^{-1} (trans).
 - 1-pentene: 17.94295 cm^{-1} (trans), 27.33308 cm^{-1} (rot), 35.14680 cm^{-1} (trans).
 - 1-hexene: 13.24349 cm^{-1} (rot), 18.65984 cm^{-1} (trans), 32.58662 cm^{-1} (trans).
 - 1-heptene: 8.32844 cm^{-1} (trans), 22.05252 cm^{-1} (rot), 31.14111 cm^{-1} (trans).
 - 1-octene: 21.35754 cm^{-1} (trans), 23.98500 cm^{-1} (rot), 30.94839 cm^{-1} (trans).
 - 2-butene: -8.35063 cm^{-1} (trans), 23.92654 cm^{-1} (rot), 34.05630 cm^{-1} (trans).
 - 2-Me-2-butene: 5.72624 cm^{-1} (trans), 35.43422 cm^{-1} (trans), 37.25592 cm^{-1} (rot).
 - 2,3-diMe-2-butene: 12.72043 cm^{-1} (trans), 34.25186 cm^{-1} (trans), 38.25440 cm^{-1} (rot).
 - 2-Me-2-hexene: 10.16624 cm^{-1} (trans), 11.02260 cm^{-1} (rot), 31.61904 cm^{-1} (trans).
 - 4-octene: 15.61465 cm^{-1} (trans), 18.50454 cm^{-1} (rot), 32.51140 cm^{-1} (trans).
 - 2-Me-2-heptene: 15.35195 cm^{-1} (trans), 34.88798 cm^{-1} (trans), 46.74502 cm^{-1} (rot).
- Rotational contributions: equations S.7 and S.8
 - ethene: $I_A = 72.55749\text{ amu bohr}^2$
 - propene: $I_A = 222.88804\text{ amu bohr}^2$
 - 1-butene: $I_A = 448.80984\text{ amu bohr}^2$
 - 1-pentene: $I_A = 873.74397\text{ amu bohr}^2$
 - 1-hexene: $I_A = 1487.53483\text{ amu bohr}^2$
 - 1-heptene: $I_A = 2360.64041\text{ amu bohr}^2$
 - 1-octene: $I_A = 3517.10013\text{ amu bohr}^2$
 - 2-butene: $I_A = 517.27588\text{ amu bohr}^2$
 - 2-Me-2-butene: $I_A = 707.6824\text{ amu bohr}^2$
 - 2,3-diMe-2-butene: $I_A = 971.40294\text{ amu bohr}^2$
 - 2-Me-2-hexene: $I_A = 1865.88438\text{ amu bohr}^2$
 - 4-octene: $I_A = 3518.99636\text{ amu bohr}^2$
 - 2-Me-2-heptene: $I_A = 2813.12302\text{ amu bohr}^2$

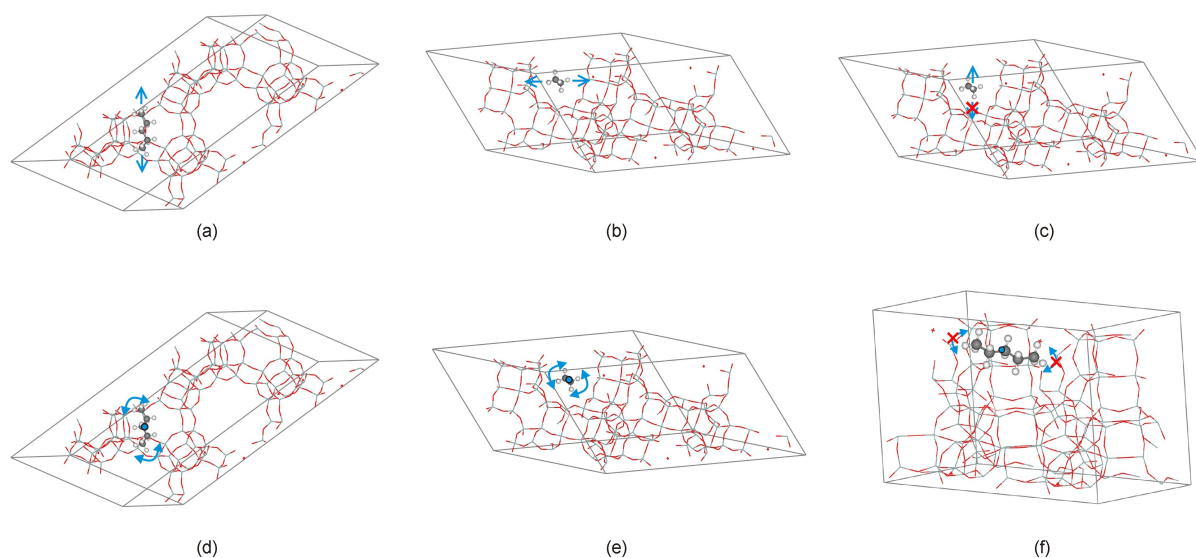


Figure S2: Translational (a, b and c) and rotational (d, e and f) motions of *n*-alkanes in H-FAU. Translation (c) and rotation (f) are, based on visualization of the frequencies assumed to be frustrated. For the alkenes, the rotation around the axis formed by the alkene carbon atoms (e), i.e. the axis with the lowest moment of inertia, is also hindered.

C. Tables

Table S1: Geometric parameters of the different alkane and alkene physisorption complexes in H-FAU.⁽¹⁾

H-FAU (unloaded)		H _d C _a	H ₃ C _b	C _a C _b ⁽²⁾	C _b O _b	H ₂ O _a	Si ₄ O _a	AlO _a	Si ₆ O _b	AlO _b	Si ₄ O _a Al	Si ₆ O _b Al
		-	-	-	-	97.5	172.4	190.2	160.8	171.5	124.7	133.7
<i>n</i>-alkanes												
n-butane		373.1	471.6	152.8	627.4	97.5	172.4	190.2	160.8	171.5	124.4	133.7
n-pentane		317.1	358.5	153.1	537.4	97.6	172.4	190.1	160.8	171.4	124.3	134.0
n-hexane		299.5	309.4	153.2	451.7	97.7	172.5	189.9	160.8	171.5	124.4	133.7
n-heptane		288.6	303.9	153.2	440.2	97.7	172.5	189.9	160.8	171.6	124.3	133.8
n-octane		282.7	293.8	153.2	441.6	97.7	172.5	189.9	160.8	171.6	124.3	133.9
n-dodecane		439.0	520.6	153.0	498.3	97.5	172.5	190.0	160.7	171.7	124.7	133.6
linear alkenes												
<i>1-alkenes</i>												
ethene	→ ethoxy	228.5	224.4	133.6	344.7	99.3	171.6	188.9	160.5	171.8	123.8	134.5
propene	→ 2-propoxy	212.5	231.7	134.1	331.3	99.9	171.5	188.5	160.5	172.0	123.6	135.0
1-butene	→ 2-butoxy	212.5	233.6	134.1	353.4	99.8	171.5	188.5	160.5	171.9	123.6	134.7
1-pentene	→ 2-pentoxy	209.8	248.3	134.1	358.1	99.8	171.8	188.4	160.4	171.7	123.6	135.1
1-hexene	→ 2-hexoxy	213.3	235.3	134.1	348.4	99.8	171.6	188.5	160.5	171.9	123.6	134.9
1-heptene	→ 2-heptoxy	211.8	241.9	134.1	351.0	99.8	171.6	188.5	160.4	171.8	123.5	135.0
1-octene	→ 2-octoxy	211.0	233.3	134.1	343.2	99.9	171.5	188.4	160.4	171.9	123.7	135.4
<i>2-alkenes</i>												
2-butene	→ 2-butoxy	219.0	217.8	134.3	339.3	100.1	171.3	188.6	160.5	171.9	123.4	135.0
2-pentene	→ 3-pentoxy	216.7	237.1	134.3	368.5	99.8	171.8	188.7	160.4	171.6	123.1	134.9
2-hexene	→ 3-hexoxy	214.6	217.2	134.3	372.6	100.2	171.3	188.5	160.5	171.9	123.8	134.6
2-heptene	→ 3-heptoxy	219.5	221.2	134.3	355.3	100.0	171.5	188.6	160.5	171.9	123.4	134.7
2-octene	→ 3-octoxy	218.4	229.6	134.4	356.5	99.9	171.6	188.7	160.4	171.7	123.2	135.2
<i>3/4-alkenes</i>												
3-hexene	→ 3-hexoxy	216.9	235.8	134.3	368.3	99.9	171.7	188.7	160.4	171.6	123.1	134.8
3-octene	→ 4-octoxy	227.2	234.6	134.3	371.5	99.6	171.8	189.0	160.4	171.7	122.8	134.9
4-octene	→ 4-octoxy	214.4	237.1	134.4	357.9	99.9	171.7	188.5	160.4	171.6	123.2	135.1

(1) distances in pm, angles in degrees

(2) the average C_aC_b bond lengths for gas phase alkanes and alkenes are 133.5 and 152.8 pm respectively

Table S1: Geometric parameters of the different alkane and alkene physisorption complexes in H-FAU.⁽¹⁾ (continued)

H-FAU (unloaded)		H ₂ C _a	H ₂ C _b	C _a C _b ⁽²⁾	C _b O _b	H ₂ O _a	Si ₂ O _a	AlO _a	Si ₂ O _b	AlO _b	Si ₂ O _a Al	Si ₂ O _b Al
		-	-	-	-	97.5	172.4	190.2	160.8	171.5	124.7	133.7
branched alkenes												
<i>2-Me-1-alkenes (di-substituted C=C)</i>												
i-butene	→ t-butoxy	208.7	246.1	134.7	357.7	100.2	171.7	188.4	160.4	172.1	122.9	134.8
i-butene	→ i-butoxy	253.9	214.0	134.4	335.0	99.6	171.4	189.3	160.5	171.7	123.1	135.2
2-Me-1-butene	→ 2-Me-2-butoxy	209.6	261.2	134.7	377.2	99.9	171.8	188.5	160.3	171.9	122.7	135.4
<i>2/3-Me-2-alkenes (tri-substituted C=C)</i>												
2-Me-2-butene	→ 2-Me-2-butoxy	222.7	240.7	135.1	365.3	99.9	171.9	189.0	160.5	171.9	122.2	135.0
2-Me-2-butene	→ 3-Me-2-butoxy	242.5	231.7	135.0	347.1	99.5	172.0	189.3	160.5	171.6	122.9	134.8
2-Me-2-pentene	→ 2-Me-2-pentoxy	223.2	243.0	135.1	368.4	99.8	171.9	189.0	160.5	172.0	122.3	134.8
2-Me-2-pentene	→ 2-Me-3-pentoxy	253.9	238.2	134.9	341.6	99.2	171.9	189.6	160.4	171.6	122.3	135.7
3-Me-2-pentene	→ 3-Me-3-pentoxy	220.0	250.3	135.2	386.4	99.8	171.9	189.0	160.4	171.8	122.2	135.3
2-Me-2-hexene	→ 2-Me-2-hexoxy	228.3	242.9	135.1	371.1	99.6	171.9	189.2	160.5	172.0	122.3	135.0
2-Me-2-hexene	→ 2-Me-3-hexoxy	262.7	249.9	134.9	353.7	99.0	172.1	189.6	160.4	171.6	122.2	135.7
2-Me-2-heptene	→ 2-Me-2-heptoxy	214.4	243.0	135.2	361.6	100.1	171.7	188.7	160.4	172.0	122.5	134.9
2-Me-2-heptene	→ 2-Me-3-heptoxy	245.2	222.0	135.0	330.9	99.7	171.7	189.2	160.3	171.7	122.5	136.2
<i>2/3-diMe-2-alkenes (tetra-substituted C=C)</i>												
2/3-diMe-2-butene	→ 2/3-diMe-2-butoxy	241.3	254.1	135.8	358.9	99.4	172.3	189.5	160.4	171.6	122.1	135.9
2/3-diMe-2-pentene	→ 2/3-diMe-3-pentoxy	262.2	260.1	135.8	369.7	99.0	172.3	189.9	160.5	171.7	121.8	135.7
2/3-diMe-2-pentene	→ 2/3-diMe-2-pentoxy	254.8	263.3	135.7	366.2	99.1	172.4	189.8	160.5	171.7	121.8	135.5

(1) distances in pm, angles in degrees

(2) the average C_aC_b bond lengths for gas phase alkanes and alkenes are 133.5 and 152.8 pm respectively

Table S2: Various contributions to QM-Pot alkane and alkene physisorption energies at QM-Pot(MP2//B3LYP) level of theory. Between brackets the van der Waals part of the total MM energy as obtained from the force field calculations is mentioned. All energies are reported in kJ mol⁻¹.

		$\Delta E(S)^{\text{Pot}}$		$\Delta E(C)^{\text{Pot}}$		ΔE^{LR}		$\Delta E(C)^{\text{MP2}}$	$\Delta E^{\text{QM-Pot}}$
		total	vdW	total	vdW	total	vdW		
<i>n</i>-alkanes									
n-butane		-39	(-38)	-2	(-4)	-37	(-34)	-4	-41
n-pentane		-49	(-47)	-9	(-10)	-40	(-36)	-11	-51
n-hexane		-57	(-52)	-15	(-15)	-41	(-37)	-20	-62
n-heptane		-65	(-60)	-17	(-16)	-49	(-44)	-21	-70
n-octane		-75	(-70)	-17	(-16)	-58	(-54)	-19	-78
n-dodecane		-105	(-106)	-5	(-9)	-	(-97)	-11	-111
linear alkenes									
<i>1-alkenes</i>									
Ethene	→ ethoxy	-38	(-21)	-20	(-9)	-18	(-13)	-26	-44
Propene	→ 2-propoxy	-44	(-28)	-22	(-11)	-22	(-16)	-35	-57
1-butene	→ 2-butoxy	-52	(-35)	-24	(-14)	-29	(-22)	-33	-62
1-pentene	→ 2-pentoxy	-57	(-47)	-18	(-14)	-39	(-33)	-32	-71
1-hexene	→ 2-hexoxy	-66	(-51)	-25	(-16)	-41	(-35)	-37	-79
1-heptene	→ 2-heptoxy	-74	(-63)	-23	(-16)	-51	(-47)	-35	-86
1-octene	→ 2-octoxy	-85	(-68)	-29	(-16)	-56	(-52)	-40	-96
<i>2-alkenes</i>									
2-butene	→ 2-butoxy	-55	(-35)	-27	(-13)	-28	(-21)	-39	-67
2-pentene	→ 3-pentoxy	-60	(-45)	-22	(-15)	-38	(-30)	-30	-69
2-hexene	→ 3-hexoxy	-78	(-57)	-32	(-18)	-46	(-39)	-43	-89
2-heptene	→ 3-heptoxy	-78	(-58)	-31	(-19)	-48	(-39)	-42	-90
2-octene	→ 3-octoxy	-86	(-70)	-31	(-20)	-56	(-50)	-41	-96
<i>3/4-alkenes</i>									
3-hexene	→ 3-hexoxy	-67	(-53)	-22	(-16)	-45	(-37)	-33	-78
3-octene	→ 4-octoxy	-81	(-68)	-24	(-20)	-57	(-48)	-37	-94
4-octene	→ 4-octoxy	-83	(-71)	-24	(-18)	-59	(-53)	-36	-96
branched alkenes									
<i>2-Me-1-alkenes (di-substituted C=C)</i>									
i-butene	→ t-butoxy	-49	(-35)	-18	(-13)	-31	(-22)	-38	-69
i-butene	→ i-butoxy	-52	(-38)	-20	(-12)	-32	(-26)	-29	-62
2-Me-1-butene	→ 2-Me-2-butoxy	-53	(-42)	-18	(-15)	-35	(-27)	-37	-72
<i>2/3-Me-2-alkenes (tri-substituted C=C)</i>									
2-Me-2-butene	→ 2-Me-2-butoxy	-60	(-46)	-22	(-16)	-38	(-29)	-38	-77
2-Me-2-butene	→ 3-Me-2-butoxy	-62	(-51)	-19	(-17)	-43	(-34)	-35	-78
2-Me-2-pentene	→ 2-Me-2-pentoxy	-67	(-54)	-21	(-17)	-46	(-37)	-39	-86
2-Me-2-pentene	→ 2-Me-3-pentoxy	-66	(-54)	-24	(-19)	-42	(-35)	-38	-81
3-Me-2-pentene	→ 3-Me-3-pentoxy	-65	(-50)	-24	(-19)	-41	(-31)	-38	-79
2-Me-2-hexene	→ 2-Me-2-hexoxy	-78	(-65)	-22	(-18)	-57	(-47)	-39	-96
2-Me-2-hexene	→ 2-Me-3-hexoxy	-76	(-67)	-21	(-19)	-55	(-48)	-36	-91
2-Me-2-heptene	→ 2-Me-2-heptoxy	-85	(-70)	-22	(-16)	-63	(-54)	-41	-104
2-Me-2-heptene	→ 2-Me-3-heptoxy	-84	(-71)	-28	(-20)	-57	(-51)	-46	-103
<i>23-diMe-2-alkenes (tetra-substituted C=C)</i>									
23-diMe-2-butene	→ 23-diMe-2-butoxy	-73	(-59)	-27	(-21)	-46	(-38)	-42	-88
23-diMe-2-pentene	→ 23-diMe-3-pentoxy	-73	(-63)	-22	(-20)	-51	(-43)	-35	-86
23-diMe-2-pentene	→ 23-diMe-2-pentoxy	-74	(-62)	-22	(-19)	-52	(-43)	-36	-88

Table S3: Different contributions to the QM-Pot(MP2//B3LYP) physisorption enthalpies and entropies of alkanes and linear and branched alkenes obtained by applying the immobile adsorbate approach (see also text). All energies are reported in kJ mol⁻¹, entropies in J mol⁻¹ K⁻¹.

π -complex	$\rightarrow$	σ -complex	ΔE_{phys}	ΔE_{ZPVE}	$\Delta E_{0 \rightarrow T}$			$\Delta H_{\text{phys}}(T)$			$\Delta S_{\text{phys}}(T)$		
					300K	500K	800K	300K	500K	800K	300K	500K	800K
<i>n</i> -alkanes													
n-butane			-41	2	3	6	11	-36	-33	-28	-132	-124	-116
n-pentane			-51	2	3	7	11	-46	-43	-38	-132	-124	-116
n-hexane			-62	2	3	6	11	-56	-53	-48	-143	-135	-127
n-heptane			-70	2	3	6	11	-64	-61	-56	-152	-144	-136
n-octane			-78	2	3	6	11	-72	-69	-64	-155	-146	-139
n-dodecane			-111	3	3	6	11	-105	-102	-97	-173	-164	-156
linear alkenes													
<i>l</i> -alkenes													
ethene	$\rightarrow$	ethoxy	-44	3	2	4	9	-39	-36	-31	-93	-87	-80
Propenepropene	$\rightarrow$	2-propoxy	-57	3	2	4	9	-52	-50	-45	-130	-123	-116
1-butene	$\rightarrow$	2-butoxy	-62	3	2	4	9	-57	-54	-50	-143	-137	-130
1-pentene	$\rightarrow$	2-pentoxy	-71	4	2	4	8	-66	-63	-59	-158	-152	-145
1-hexene	$\rightarrow$	2-hexoxy	-79	3	2	4	9	-73	-71	-66	-156	-150	-143
1-heptene	$\rightarrow$	2-heptoxy	-86	3	2	5	9	-81	-78	-74	-158	-151	-144
1-octene	$\rightarrow$	2-octoxy	-96	4	2	4	8	-91	-88	-84	-175	-169	-162
<i>2</i> -alkenes													
2-butene	$\rightarrow$	2-butoxy	-67	4	1	4	8	-61	-59	-55	-147	-141	-134
2-pentene	$\rightarrow$	3-pentoxy	-69	3	2	4	9	-64	-61	-57	-159	-152	-146
2-hexene	$\rightarrow$	3-hexoxy	-89	4	2	4	9	-83	-81	-76	-146	-140	-133
2-heptene	$\rightarrow$	3-heptoxy	-90	4	2	4	8	-84	-81	-77	-160	-154	-147
2-octene	$\rightarrow$	3-octoxy	-96	4	2	4	9	-91	-88	-84	-171	-164	-158
<i>3/4</i> -alkenes													
3-hexene	$\rightarrow$	3-hexoxy	-78	3	2	4	9	-72	-70	-65	-152	-146	-139
3-octene	$\rightarrow$	4-octoxy	-94	4	2	4	9	-88	-85	-81	-165	-158	-151
4-octene	$\rightarrow$	4-octoxy	-96	4	2	4	9	-90	-88	-83	-170	-164	-157

Table S3: Different contributions to the QM-Pot(MP2//B3LYP) physisorption enthalpies and entropies of alkanes and linear and branched alkenes obtained by applying the immobile adsorbate approach (see also text). All energies are reported in kJ mol⁻¹, entropies in J mol⁻¹ K⁻¹. (continued)

π -complex	$\rightarrow$ σ -complex	ΔE_{phys}	ΔE_{ZPVE}	$\Delta E_{0 \rightarrow T}$			$\Delta H_{\text{phys}}(T)$			$\Delta S_{\text{phys}}(T)$		
				300K	500K	800K	300K	500K	800K	300K	500K	800K
branched alkenes												
<i>2-Me-1-alkenes (di-substituted C=C)</i>												
i-butene	$\rightarrow$ t-butoxy	-69	3	2	4	9	-64	-62	-57	-136	-129	-122
i-butene	$\rightarrow$ i-butoxy	-62	3	2	4	9	-57	-54	-50	-151	-144	-137
2-Me-1-butene	$\rightarrow$ 2-Me-2-butoxy	-72	3	2	4	9	-67	-65	-60	-161	-154	-147
<i>2/3-Me-2-alkenes (tri-substituted C=C)</i>												
2-Me-2-butene	$\rightarrow$ 2-Me-2-butoxy	-77	4	2	4	9	-72	-69	-65	-150	-144	-137
2-Me-2-butene	$\rightarrow$ 3-Me-2-butoxy	-78	4	1	4	8	-72	-70	-65	-163	-157	-150
2-Me-2-pentene	$\rightarrow$ 2-Me-2-pentoxy	-86	4	2	4	9	-81	-78	-74	-162	-155	-148
2-Me-2-pentene	$\rightarrow$ 2-Me-3-pentoxy	-81	4	2	5	9	-75	-72	-68	-154	-147	-140
3-Me-2-pentene	$\rightarrow$ 3-Me-3-pentoxy	-79	3	2	5	9	-74	-71	-67	-151	-144	-137
2-Me-2-hexene	$\rightarrow$ 2-Me-2-hexoxy	-96	3	2	5	9	-90	-88	-83	-156	-150	-143
2-Me-2-hexene	$\rightarrow$ 2-Me-3-hexoxy	-91	4	2	5	9	-86	-83	-78	-147	-140	-132
2-Me-2-heptene	$\rightarrow$ 2-Me-2-heptoxy	-104	4	1	4	8	-99	-96	-92	-179	-173	-166
2-Me-2-heptene	$\rightarrow$ 2-Me-3-heptoxy	-103	4	2	4	9	-97	-95	-90	-177	-171	-164
<i>2,3-diMe-2-alkenes (tetra-substituted C=C)</i>												
2,3-diMe-2-butene	$\rightarrow$ 2,3-diMe-2-butoxy	-88	5	1	4	8	-82	-79	-75	-158	-152	-145
2,3-diMe-2-pentene	$\rightarrow$ 2,3-diMe-3-pentoxy	-86	4	2	4	9	-80	-78	-73	-174	-167	-160
2,3-diMe-2-pentene	$\rightarrow$ 2,3-diMe-2-pentoxy	-88	4	2	4	9	-82	-79	-74	-167	-161	-153

Table S4: Different contributions to the QM-Pot(MP2//B3LYP) physisorption enthalpies and entropies of alkanes and (a selection of) linear and branched alkenes obtained by applying the mobile adsorbate approach (see also text). All energies are reported in kJ mol⁻¹, entropies in J mol⁻¹ K⁻¹.

	ΔE_{phys}	ΔE_{ZPVE}	$\Delta E_{0 \rightarrow T}$			$\Delta H_{\text{phys}}(\text{T})$			$\Delta S_{\text{phys}}(\text{T})$		
			300K	500K	800K	300K	500K	800K	300K	500K	800K
n-butane	-41	1	-1	-1	-1	-41	-41	-41	-78	-78	-78
n-pentane	-51	1	-1	-1	-1	-51	-51	-51	-74	-74	-74
n-hexane	-62	1	-1	-1	-1	-61	-62	-62	-78	-78	-78
n-heptane	-70	1	-1	-1	-1	-69	-70	-70	-82	-83	-83
n-octane	-78	2	-1	-1	-1	-77	-78	-78	-88	-88	-88
n-dodecane	-111	2	-2	-2	-2	-110	-110	-110	-107	-107	-107
ethene	-44	3	-2	-2	-1	-42	-42	-41	-86	-86	-87
propene	-57	3	-2	-2	-1	-56	-56	-55	-96	-95	-94
1-butene	-62	3	-1	-1	-1	-61	-61	-60	-94	-94	-93
1-pentene	-71	3	-2	-2	-1	-70	-70	-69	-107	-107	-106
1-hexene	-79	3	-2	-2	-1	-77	-77	-76	-107	-107	-106
1-heptene	-86	3	-1	-1	-1	-85	-84	-84	-109	-108	-107
1-octene	-96	4	-2	-2	-1	-95	-95	-94	-114	-115	-114
2-butene	-67	3	-2	-2	-1	-65	-65	-65	-98	-98	-97
2-Me-2-butene	-77	3	-2	-2	-1	-75	-75	-75	-103	-103	-101
2,3-diMe-2-butene	-88	4	-2	-2	-1	-85	-85	-85	-114	-114	-113
2-Me-2-hexene	-96	3	-2	-1	-1	-94	-94	-93	-112	-112	-110
4-octene	-96	3	-2	-2	-1	-94	-94	-93	-114	-114	-113
2-Me-2-heptene	-103	4	-2	-2	-1	-101	-101	-100	-114	-114	-113

Table S5: Geometric parameters of the different chemisorption complexes in H-FAU.⁽¹⁾

H-FAU (unloaded)		C _a C _b	R ₃ C _b	R ₄ C _b	C _b O _b	O _b C _b C _a	O _b C _b R ₃	O _b C _b R ₄	Si ₄ O _a	AlO _a	Si ₆ O _b	AlO _b	Si ₄ O _a Al	Si ₆ O _b Al
linear alkenes														
<i>1-alkenes</i>														
ethene	→ ethoxy	150.5	109.6	109.5	151.5	110.5	104.4	105.5	161.7	172.8	170.6	188.4	129.6	126.5
propene	→ 2-propoxy	151.0	151.2	109.4	155.8	107.4	109.2	102.3	161.6	172.9	170.7	188.6	130.5	124.5
1-butene	→ 2-butoxy	151.0	151.8	109.5	156.6	107.1	109.8	102.2	161.6	172.8	170.9	188.7	130.7	124.1
1-pentene	→ 2-pentoxy	151.1	151.7	109.4	156.7	107.0	109.9	102.1	161.6	172.8	170.9	188.7	130.7	124.2
1-hexene	→ 2-hexoxy	151.1	151.8	109.4	156.6	106.9	110.0	102.2	161.6	172.8	170.9	188.7	131.3	124.1
1-heptene	→ 2-heptoxy	151.1	151.9	109.4	156.7	106.9	110.3	102.1	161.6	172.8	170.9	188.7	131.0	124.1
1-octene	→ 2-octoxy	151.0	151.4	109.3	156.6	107.4	109.3	102.2	161.5	172.7	171.0	188.9	132.3	124.2
<i>2-alkenes</i>														
2-butene	→ 2-butoxy	151.7	151.2	109.4	156.6	109.2	108.3	102.0	161.5	172.8	171.0	189.1	131.4	123.7
2-pentene	→ 3-pentoxy	152.0	151.9	109.5	157.3	108.9	109.1	101.9	161.5	172.7	171.2	189.2	132.3	123.3
2-hexene	→ 3-hexoxy	152.0	151.8	109.5	157.4	108.8	109.2	101.8	161.5	172.7	171.2	189.1	132.0	123.3
2-heptene	→ 3-heptoxy	152.1	151.8	109.4	157.3	108.9	109.2	101.9	161.5	172.7	171.2	189.1	132.6	123.3
2-octene	→ 3-octoxy	152.1	152.0	109.4	157.3	108.8	109.5	101.9	161.5	172.7	171.1	189.1	132.2	123.2
<i>3/4-alkenes</i>														
3-hexene	→ 3-hexoxy	151.9	151.9	109.5	157.4	109.0	109.0	101.8	161.5	172.7	171.2	189.1	132.2	123.3
3-octene	→ 4-octoxy	152.0	151.9	109.4	157.4	108.8	109.3	101.9	161.5	172.7	171.2	189.1	132.5	123.3
4-octene	→ 4-octoxy	151.9	151.9	109.5	157.5	108.7	109.2	101.9	161.6	172.8	171.2	189.2	131.4	123.2

(1) distances in pm, angles in degrees

Table S5: Geometric parameters of the different chemisorption complexes in H-FAU.⁽¹⁾ (continued)

H-FAU (unloaded)		C _a C _b	R ₃ C _b	R ₄ C _b	C _b O _b	O _b C _b C _a	O _b C _b R ₃	O _b C _b R ₄	Si _a O _a	AlO _a	Si _b O _b	AlO _b	Si _a O _a Al	Si _b O _b Al
		-	-	-	-	-	-	-	172.4	190.2	160.8	171.5	124.7	133.7
branched alkenes														
<i>2-Me-1-alkenes (di-substituted C=C)</i>														
i-butene	→ t-butoxy	151.9	151.9	151.5	163.8	106.7	108.4	103.5	161.6	173.3	170.9	189.8	131.6	120.9
i-butene	→ i-butoxy	152.1	109.7	109.6	152.0	112.7	104.1	105.3	161.5	172.7	171.1	189.0	131.4	125.0
2-Me-1-butene	→ 2-Me-2-butoxy	151.7	152.8	151.4	166.9	106.9	107.9	103.1	161.4	173.1	170.9	189.6	132.5	120.4
<i>2/3-Me-2-alkenes (tri-substituted C=C)</i>														
2-Me-2-butene	→ 2-Me-2-butoxy	153.1	151.6	151.4	165.7	105.1	108.0	102.7	161.5	173.3	170.7	189.8	131.9	120.5
2-Me-2-butene	→ 3-Me-2-butoxy	153.0	151.3	109.5	156.6	109.2	107.4	102.1	161.5	172.7	171.0	189.2	131.6	123.6
2-Me-2-pentene	→ 2-Me-2-pentoxy	153.1	151.6	151.4	165.7	105.1	108.0	102.7	161.5	173.3	170.7	189.8	131.9	120.5
2-Me-2-pentene	→ 2-Me-3-pentoxy	153.7	152.0	109.5	156.8	109.9	108.1	101.9	161.5	172.6	171.2	189.1	132.0	123.5
2-Me-2-pentene	→ 3-Me-3-pentoxy	152.5	152.5	151.2	170.2	105.3	107.2	101.9	161.4	173.4	170.7	189.5	133.1	119.9
2-Me-2-hexene	→ 2-Me-2-hexoxy	152.7	151.4	151.3	167.7	105.0	107.1	102.4	161.3	173.4	170.7	189.5	133.8	120.2
2-Me-2-hexene	→ 2-Me-3-hexoxy	153.7	151.9	109.5	156.8	110.1	108.1	101.8	161.5	172.6	161.5	189.0	131.7	123.6
2-Me-2-heptene	→ 2-Me-2-heptoxy	152.8	151.6	151.3	166.8	104.8	107.8	102.4	161.5	173.4	170.5	189.5	132.5	120.5
2-Me-2-heptene	→ 2-Me-3-heptoxy	154.0	151.9	109.4	156.8	110.4	108.4	101.6	161.5	172.8	171.2	188.9	132.1	123.6
<i>23-diMe-2-alkenes (tetra-substituted C=C)</i>														
23-diMe-2-butene	→ 23-diMe-2-butoxy	151.3	154.3	151.7	168.7	104.9	109.0	101.4	161.6	173.3	170.3	189.6	131.6	120.3
23-diMe-2-pentene	→ 23-diMe-3-pentoxy	152.4	154.4	151.5	173.0	103.4	108.7	103.3	161.4	173.3	170.1	189.2	132.4	119.9
23-diMe-2-pentene	→ 23-diMe-2-pentoxy	151.1	154.3	151.6	171.0	104.7	108.5	100.8	161.5	173.3	170.0	189.2	132.0	120.2

(1) distances in pm, angles in degrees

Table S6: Various contributions to QM-Pot chemisorption energy for 1-, 2/3/4-, branched and cyclic alkenes at the QM-Pot(MP2//B3LYP) level of theory. Between brackets the van der Waals part of the total MM energy as obtained from the force field calculations is mentioned. All energies are reported in kJ mol⁻¹.

		$\Delta E(S)^{\text{Pot}}$		$\Delta E(C)^{\text{Pot}}$		ΔE^{LR}		$\Delta E(C)^{\text{MP2}}$	$\Delta E^{\text{QM-Pot}}$
		total	vdW	total	vdW	total	vdW		
linear alkenes									
<i>1-alkenes</i>									
ethene	→ ethoxy	345	(-19)	370	(-8)	-25	(-11)	-72	-97
propene	→ 2-propoxy	433	(-28)	475	(-12)	-42	(-16)	-65	-107
1-butene	→ 2-butoxy	455	(-40)	509	(-15)	-54	(-25)	-63	-117
1-pentene	→ 2-pentoxy	482	(-49)	543	(-16)	-62	(-32)	-65	-127
1-hexene	→ 2-hexoxy	506	(-57)	572	(-17)	-66	(-40)	-66	-132
1-heptene	→ 2-heptoxy	531	(-69)	610	(-17)	-79	(-52)	-64	-143
1-octene	→ 2-octoxy	556	(-76)	637	(-17)	-80	(-58)	-71	-151
<i>2-alkenes</i>									
2-butene	→ 2-butoxy	485	(-38)	534	(-16)	-49	(-22)	-51	-101
2-pentene	→ 3-pentoxy	500	(-49)	557	(-18)	-58	(-30)	-54	-111
2-hexene	→ 3-hexoxy	527	(-58)	594	(-20)	-67	(-38)	-54	-121
2-heptene	→ 3-heptoxy	552	(-66)	622	(-21)	-71	(-45)	-56	-126
2-octene	→ 3-octoxy	577	(-78)	660	(-21)	-83	(-57)	-53	-137
<i>3/4-alkenes</i>									
3-hexene	→ 3-hexoxy	529	(-54)	590	(-20)	-62	(-34)	-55	-117
3-octene	→ 4-octoxy	582	(-71)	656	(-22)	-75	(-49)	-56	-131
4-octene	→ 4-octoxy	588	(-68)	664	(-21)	-77	(-47)	-52	-129
branched alkenes									
<i>2-Me-1-alkenes (di-substituted C=C)</i>									
i-butene	→ t-butoxy	550	(-37)	612	(-14)	-62	(-24)	-30	-92
i-butene	→ i-butoxy	475	(-33)	510	(-13)	-35	(-20)	-51	-86
2-Me-1-butene	→ 2-Me-2-butoxy	577	(-47)	645	(-16)	-68	(-31)	-25	-93
<i>2/3-Me-2-alkenes (tri-substituted C=C)</i>									
2-Me-2-butene	→ 2-Me-2-butoxy	610	(-43)	678	(-15)	-68	(-27)	-18	-86
2-Me-2-butene	→ 3-Me-2-butoxy	561	(-43)	615	(-17)	-53	(-26)	-50	-104
2-Me-2-pentene	→ 2-Me-2-pentoxy	638	(-52)	711	(-17)	-73	(-34)	-21	-94
2-Me-2-pentene	→ 2-Me-3-pentoxy	572	(-55)	634	(-20)	-63	(-35)	-52	-115
3-Me-2-pentene	→ 3-Me-3-pentoxy	643	(-52)	718	(-17)	-75	(-35)	-13	-88
2-Me-2-hexene	→ 2-Me-2-hexoxy	670	(-63)	751	(-18)	-81	(-45)	-21	-102
2-Me-2-hexene	→ 2-Me-3-hexoxy	599	(-64)	670	(-22)	-71	(-43)	-53	-124
2-Me-2-heptene	→ 2-Me-2-heptoxy	694	(-66)	782	(-17)	-88	(-48)	-19	-107
2-Me-2-heptene	→ 2-Me-3-heptoxy	564	(-72)	639	(-23)	-74	(-50)	-54	-129
<i>2/3-diMe-2-alkenes (tetra-substituted C=C)</i>									
2/3-diMe-2-butene	→ 2/3-diMe-2-butoxy	674	(-52)	753	(-17)	-80	(-35)	-19	-99
2/3-diMe-2-pentene	→ 2/3-diMe-3-pentoxy	641	(-62)	727	(-21)	-86	(-41)	-7	-93
2/3-diMe-2-pentene	→ 2/3-diMe-2-pentoxy	700	(-65)	789	(-21)	-89	(-44)	-9	-98

Table S7: Different contributions to the QM-Pot(MP2//B3LYP) chemisorption enthalpies and entropies of linear and branched alkenes. The alkoxides type formed, i.e., primary (p), secondary (s) or tertiary (t) is indicated between brackets. All energies are reported in kJ mol⁻¹, entropies in J mol⁻¹ K⁻¹.

π -complex	$\rightarrow$	σ -complex	ΔE_{chem}	ΔE_{ZPVE}	$\Delta E_{0 \rightarrow T}$			$\Delta H_{\text{chem}} (\text{T})$			$\Delta S_{\text{chem}} (\text{T})$		
					300K	500K	800K	300K	500K	800K	300K	500K	800K
linear alkenes													
<i>1-alkenes</i>													
ethene	$\rightarrow$	ethoxy (p)	-97	16	-3	-3	-1	-85	-85	-82	-165	-164	-161
propene	$\rightarrow$	2-propoxy (s)	-107	13	-2	-2	1	-96	-95	-92	-188	-185	-181
1-butene	$\rightarrow$	2-butoxy (s)	-117	13	-2	-1	2	-107	-106	-103	-199	-196	-192
1-pentene	$\rightarrow$	2-pentoxy (s)	-127	13	-2	-1	2	-116	-115	-112	-207	-205	-201
1-hexene	$\rightarrow$	2-hexoxy (s)	-132	13	-2	-1	2	-122	-121	-118	-209	-206	-202
1-heptene	$\rightarrow$	2-heptoxy (s)	-143	13	-2	-1	2	-132	-131	-128	-216	-214	-209
1-octene	$\rightarrow$	2-octoxy (s)	-151	14	-2	-1	1	-139	-139	-136	-225	-223	-219
<i>2-alkenes</i>													
2-butene	$\rightarrow$	2-butoxy (s)	-101	14	-3	-2	1	-89	-88	-85	-185	-184	-179
2-pentene	$\rightarrow$	3-pentoxy (s)	-111	14	-2	-2	1	-100	-99	-96	-204	-202	-198
2-hexene	$\rightarrow$	3-hexoxy (s)	-121	15	-3	-2	1	-109	-108	-105	-208	-206	-202
2-heptene	$\rightarrow$	3-heptoxy (s)	-126	14	-2	-1	1	-114	-114	-111	-215	-213	-209
2-octene	$\rightarrow$	3-octoxy (s)	-137	14	-2	-1	1	-125	-124	-121	-220	-218	-214
<i>3/4-alkenes</i>													
3-hexene	$\rightarrow$	3-hexoxy (s)	-117	13	-2	-1	2	-105	-105	-102	-199	-197	-193
3-octene	$\rightarrow$	4-octoxy (s)	-131	14	-2	-1	2	-119	-119	-116	-215	-213	-209
4-octene	$\rightarrow$	4-octoxy (s)	-129	13	-2	-1	2	-118	-117	-114	-211	-210	-205

Table S7: Different contributions to the QM-Pot(MP2//B3LYP) chemisorption enthalpies and entropies of linear and branched alkenes. The alkoxides type formed, i.e., primary (p), secondary (s) or tertiary (t) is indicated between brackets. All energies are reported in kJ mol⁻¹, entropies in J mol⁻¹ K⁻¹. (continued)

π -complex	$\rightarrow$ σ -complex	ΔE_{chem}	ΔE_{ZPVE}	$\Delta F_{0 \rightarrow T}$			$\Delta H_{\text{chem}}(T)$			$\Delta S_{\text{chem}}(T)$		
				300K	500K	800K	300K	500K	800K	300K	500K	800K
branched alkenes												
<i>2-Me-1-alkenes (di-substituted C=C)</i>												
i-butene	$\rightarrow$ t-butoxy (t)	-92	11	-2	-1	3	-82	-81	-77	-196	-192	-187
i-butene	$\rightarrow$ i-butoxy (p)	-86	15	-2	-2	1	-73	-73	-71	-176	-175	-172
2-Me-1-butene	$\rightarrow$ 2-Me-2-butoxy (t)	-93	11	-2	-1	3	-85	-83	-79	-216	-212	-207
<i>2/3-Me-2-alkenes (tri-substituted C=C)</i>												
2-Me-2-butene	$\rightarrow$ 2-Me-2-butoxy (t)	-86	13	-3	-1	2	-76	-75	-71	-208	-205	-199
2-Me-2-butene	$\rightarrow$ 3-Me-2-butoxy (s)	-104	15	-3	-2	1	-92	-91	-88	-201	-200	-195
2-Me-2-pentene	$\rightarrow$ 2-Me-2-pentoxy (t)	-94	12	-2	0	3	-84	-83	-79	-206	-202	-197
2-Me-2-pentene	$\rightarrow$ 2-Me-3-pentoxy (s)	-115	14	-2	-2	1	-103	-102	-99	-206	-204	-199
3-Me-2-pentene	$\rightarrow$ 3-Me-3-pentoxy (t)	-88	13	-3	-1	2	-78	-77	-73	-224	-221	-215
2-Me-2-hexene	$\rightarrow$ 2-Me-2-hexoxy (t)	-102	11	-2	0	4	-93	-91	-88	-206	-202	-197
2-Me-2-hexene	$\rightarrow$ 2-Me-3-hexoxy (s)	-124	14	-2	-2	1	-112	-112	-109	-218	-217	-212
2-Me-2-heptene	$\rightarrow$ 2-Me-2-heptoxy (t)	-107	12	-2	0	3	-97	-96	-92	-214	-210	-205
2-Me-2-heptene	$\rightarrow$ 2-Me-3-heptoxy (s)	-129	14	-2	-1	2	-117	-116	-113	-218	-216	-212
<i>2,3-diMe-2-alkenes (tetra-substituted C=C)</i>												
2,3-diMe-2-butene	$\rightarrow$ 2,3-diMe-2-butoxy (t)	-99	14	-4	-3	1	-89	-88	-84	-220	-217	-212
2,3-diMe-2-pentene	$\rightarrow$ 2,3-diMe-3-pentoxy (t)	-93	13	-3	-2	2	-83	-81	-78	-230	-226	-221
2,3-diMe-2-pentene	$\rightarrow$ 2,3-diMe-2-pentoxy (t)	-98	13	-3	-2	2	-89	-87	-84	-229	-225	-220

D. Harmonic frequencies for *n*-alkanes and 1-alkenes obtained by hessian calculation with QM-Pot applying B3LYP/T(O)DZP level of theory for the embedded cluster calculation**n-butane**

-6.54078	0.00000	0.00000	0.00000	17.86870	20.99481
27.83536	28.21283	37.67827	40.04294	40.35218	41.46888
42.50715	48.80577	50.83217	51.14480	51.44392	51.60178
53.49061	55.07173	56.02116	59.63462	61.40280	61.90460
62.93413	63.39856	63.75069	63.98894	64.47403	65.02767
65.68413	66.17376	66.63011	67.80737	68.05116	68.52965
69.73994	70.15381	71.88394	72.36660	72.97198	73.58136
77.26930	78.65880	81.04730	81.59174	82.45625	82.87190
83.21186	83.67127	84.53812	85.33588	86.23025	87.19585
89.36485	90.04343	90.75352	91.15293	91.39313	91.97094
92.78236	93.17167	93.29118	95.43653	95.97107	99.03383
99.39306	99.92474	100.06608	101.26017	102.30357	102.55489
103.56795	104.79139	105.23195	105.50938	105.67872	106.29654
107.24056	107.51728	109.60544	110.10526	110.60710	110.85433
111.07075	111.51801	111.98443	112.61194	112.65544	113.23379
113.40149	113.68163	113.91385	114.23483	115.00552	115.72764
116.32291	117.08139	117.80259	118.78849	119.06996	119.29355
120.16572	122.21257	122.54629	123.29160	123.65745	124.91100
125.52455	126.46838	127.51317	128.22689	130.60793	131.58670
133.85075	134.10652	134.40967	134.77932	135.47836	135.88715
136.24214	136.54666	136.68443	138.13000	139.30503	140.56238
141.95920	142.67424	143.72054	144.37044	145.38448	145.57462
145.98010	146.38059	149.32221	151.81897	152.89956	153.44951
153.99585	154.33301	154.55151	154.69371	155.22751	155.29981
155.91868	158.35055	159.71953	160.15575	160.43425	160.78721
161.11829	161.30358	161.93327	162.16710	162.58010	163.44479
163.84276	164.86459	165.14011	165.33398	165.62833	166.07440
169.36730	169.51544	170.75843	172.49052	172.87080	173.06838
173.12884	174.68481	175.38695	175.73634	176.77986	176.85732
176.97343	179.87732	183.69652	184.49434	185.14376	189.36888
189.70657	190.23554	191.24907	192.27324	194.92427	196.68830
197.40404	197.49026	198.41560	198.96444	205.13071	209.46728
212.52253	213.89951	214.25935	214.73915	214.97603	215.32059
216.81256	219.86961	223.16760	224.32950	224.66856	225.00349
228.03663	229.20366	231.95753	234.08902	234.44658	235.14923
235.49593	236.74380	237.01521	237.93870	238.12001	239.84930
241.46236	241.88938	242.70205	242.99523	243.48524	243.94213
244.21871	244.47284	245.38200	245.56332	246.94879	247.74890
248.56716	249.25652	249.98572	250.34426	250.85700	251.19280
251.26029	251.81377	252.83014	253.34987	254.08792	254.61137
255.52772	256.54132	256.87943	257.02977	258.12747	258.80068
259.75607	260.19146	260.44812	260.61888	260.70763	261.41827
262.29913	262.58354	263.08815	265.86852	266.41514	267.13809
267.59263	267.90421	268.47462	268.66914	269.14093	269.46532
269.94419	271.34977	271.86037	273.73241	274.39861	275.47667
276.97383	277.32552	278.31813	280.34372	281.20016	281.84337
282.03332	283.49171	285.23101	286.78153	289.06746	290.11391
292.20088	292.71100	293.23873	293.95060	294.94841	295.61985
296.27364	297.45247	297.87394	298.30281	299.16053	300.56031
300.86603	301.40251	302.34410	302.67841	303.73799	304.59805
306.28978	306.87679	309.61453	310.54640	311.59380	312.53745
312.74949	313.65722	314.56214	315.49478	315.84741	316.33882
316.98884	317.11844	317.51340	317.56065	317.88052	318.44823
318.74652	319.13558	319.90828	320.61342	321.04106	321.76438
322.00514	323.15826	323.75950	324.41361	324.92195	326.00528
326.43248	326.77664	327.34640	327.71708	328.15897	328.91317
329.63510	330.36280	330.66793	331.19794	331.68573	332.47408
333.03972	333.12455	333.66618	333.93377	334.15952	335.13244
337.68979	337.92918	339.49369	341.78782	343.18037	344.35583
345.79017	346.25825	346.40661	346.46724	347.46643	347.69544
349.29969	349.86631	350.71708	351.46115	353.46339	353.80590

354.06419	355.41619	356.38086	357.19120	358.13979	358.92736
360.70063	362.83190	363.50346	365.05721	365.26417	365.80996
366.74763	367.76354	369.34439	371.31106	380.97570	381.88964
382.46904	384.28303	385.12298	388.00285	391.05594	392.62776
393.54062	393.61342	393.94311	396.11816	396.67371	397.05404
397.16310	397.37582	398.39978	399.74609	400.04796	401.06821
401.83456	402.38266	402.96355	403.55736	403.66631	403.83665
405.01105	406.34995	406.58421	406.74715	408.87107	409.32735
410.21628	410.87303	415.11225	416.57948	418.60620	420.07922
421.00743	421.25334	422.63629	430.04665	432.50771	436.24925
438.31431	439.64212	440.55563	440.77376	441.63837	442.75745
442.96674	449.43429	452.04766	458.11360	460.96660	461.64153
462.34912	465.63345	466.64932	467.25507	467.67444	472.18303
472.95766	474.15399	476.33270	478.45562	479.47817	481.71994
482.89595	483.10165	484.55308	486.81486	487.72291	488.57471
488.83996	489.32837	489.86169	490.11731	490.98729	491.41513
492.55322	493.46809	495.18961	495.22100	495.47225	495.86831
496.08824	496.35566	496.46617	496.78340	496.82868	497.42764
497.71784	497.88799	498.33463	498.50852	498.58127	499.12563
499.27402	499.94505	500.86011	501.34961	502.01219	503.01692
504.59918	506.01088	508.37100	509.84575	510.95173	511.96088
513.88178	517.58605	518.92306	519.08720	519.21454	519.69428
521.26173	522.99805	523.45615	524.49304	527.74496	529.07093
540.04230	541.56369	543.47071	546.97079	548.02024	550.14627
552.06386	558.19865	561.30502	580.12565	582.66945	583.26107
584.84641	588.05897	597.96290	604.50165	606.66330	620.29230
627.89032	629.72007	632.17986	633.27898	639.38863	642.49411
643.76056	654.22631	657.07484	660.70396	664.35309	664.92864
665.46016	666.33051	666.69903	667.17523	667.66030	668.11281
670.02169	675.77360	685.19268	687.35564	688.47130	688.75894
693.64175	696.70947	697.83346	698.34042	699.75380	700.33559
702.10482	704.22585	708.33943	714.30162	717.01230	718.54834
720.66556	722.42634	723.04675	723.91956	730.83133	733.14430
737.06030	738.07977	742.97855	743.98535	748.68539	754.75470
760.28714	762.59684	764.80805	770.09228	775.55889	779.55801
785.32491	788.23580	790.25929	792.66710	793.24966	794.94152
795.95595	799.79819	812.92652	816.88278	819.05466	820.73482
821.71036	824.52913	831.90765	840.90027	842.68459	845.21635
850.96036	855.55295	857.34147	867.41290	867.81433	868.33603
869.11563	870.11819	870.25587	870.44734	870.72490	871.01596
871.23059	871.74881	873.75639	873.96665	875.58052	876.04797
876.45437	877.50042	878.21933	879.82581	880.18284	880.61724
880.93821	882.19638	882.67742	883.20863	883.63517	884.97540
885.18400	885.68096	886.48567	886.96356	888.09621	888.66171
889.38264	889.96363	892.10362	892.42744	893.17435	893.54116
893.71511	894.40680	895.63958	896.12565	896.82463	897.33591
897.91182	898.89527	899.13522	900.15057	900.46545	900.57719
901.19220	901.60827	902.29082	903.21953	904.00377	905.13992
906.44950	907.90483	908.58152	909.37430	911.11435	911.54027
912.23150	913.55457	913.89539	914.53944	915.05095	915.26882
915.66374	916.30127	917.29687	917.89450	918.97688	920.63129
921.50533	921.86886	922.80553	923.07975	924.76292	925.33714
927.10143	929.28497	929.62439	931.29018	936.79899	938.72295
949.59600	955.33781	956.57751	968.48418	977.06549	987.27472
1024.19460	1037.17829	1039.15930	1044.81167	1051.13010	1051.77064
1052.90769	1053.38726	1053.47929	1054.06803	1054.28270	1054.80656
1055.77643	1056.40443	1056.70267	1056.99845	1057.30400	1057.69492
1058.15630	1058.60136	1059.06933	1059.25144	1059.53396	1059.87040
1060.55628	1060.89949	1061.15020	1061.31490	1061.46613	1062.18355
1063.13120	1063.57267	1063.68079	1064.50415	1064.62673	1064.99057
1065.31089	1065.46359	1065.63265	1065.70363	1066.00967	1066.06518
1066.29596	1066.47000	1066.76782	1066.81315	1066.83923	1067.26872
1067.53359	1067.96431	1068.44204	1068.75118	1069.22142	1069.46785
1070.23350	1070.37777	1070.79190	1070.91011	1071.08037	1071.43754
1071.71459	1071.97041	1072.09610	1072.27324	1072.45235	1072.50768
1072.83594	1073.24412	1073.70462	1073.90092	1074.08859	1074.26049
1074.57380	1074.74106	1075.20839	1075.48665	1075.87059	1076.04940

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1076.16317	1076.69234	1076.93709	1077.27223	1077.56318	1077.79528
1077.85105	1078.32088	1078.68234	1078.92026	1078.99301	1079.13075
1079.40032	1079.81279	1080.02915	1080.14790	1080.64610	1081.00865
1082.16850	1097.06027	1114.04928	1121.65937	1130.47140	1131.48747
1134.11602	1141.86166	1145.20311	1147.51945	1148.95089	1149.97998
1150.29517	1150.71312	1151.36253	1151.60345	1154.98498	1156.30713
1158.49061	1159.17114	1164.13833	1164.74143	1165.06460	1166.62567
1166.82642	1167.72414	1169.80571	1171.54057	1172.75381	1173.49112
1175.46603	1178.58319	1180.08484	1182.03884	1182.41983	1182.62870
1182.95393	1183.66943	1184.31780	1184.57697	1185.54236	1186.04588
1186.62873	1187.10794	1189.24489	1190.04975	1190.52440	1191.38246
1191.79558	1192.24130	1192.57370	1193.33749	1194.15476	1194.88939
1195.83335	1196.19523	1197.09463	1197.88948	1198.27040	1198.92923
1199.21065	1199.39960	1200.00404	1200.54202	1202.33628	1203.64483
1204.51364	1205.32502	1205.75689	1206.13859	1207.28369	1207.55696
1208.28684	1208.75591	1208.85987	1209.34149	1209.47991	1209.71501
1209.83692	1210.16948	1210.52482	1210.74722	1210.99953	1211.43398
1212.15480	1212.48763	1212.77072	1213.36873	1213.92827	1214.95971
1216.06343	1216.27169	1216.90868	1217.81417	1218.30469	1218.79399
1219.24594	1223.86450	1228.77220	1240.70005	1279.82250	1308.32828
1319.91086	1387.01004	1403.12125	1404.42335	1470.62209	1472.73612
1475.60327	1479.74426	1486.15867	1493.51448	2992.86918	3004.12513
3018.56056	3024.59590	3025.51185	3045.88785	3087.98773	3094.94402
3096.65082	3100.37851	3687.66988			

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n-pentane

-2.09273	0.00000	0.00000	0.00000	9.80125	24.72427
27.97951	28.54221	37.46789	39.89838	40.09333	40.38754
41.64689	42.41235	48.43423	50.77796	51.06757	51.42984
52.61201	53.28295	55.10961	55.58934	60.19835	61.17573
62.58600	63.15208	63.30961	63.60064	63.89789	64.25534
64.60558	65.55316	65.87799	66.16483	67.44803	67.86283
68.57605	69.97770	70.92356	71.68794	72.18108	72.77582
76.17690	79.40939	81.14685	81.65282	82.55553	82.69252
83.01928	83.88446	84.48178	85.88864	86.32566	87.35329
88.82365	90.21527	90.78389	91.16384	91.27660	92.05479
92.72605	93.12027	93.29754	95.46777	95.90485	98.82543
99.25074	99.81382	100.22697	101.21295	102.28578	102.56196
103.48783	104.65765	105.22965	105.39220	105.54090	106.21705
107.20248	107.51438	109.60160	109.98791	110.54162	110.81269
110.97567	111.37526	111.98835	112.43586	112.66876	113.22180
113.35129	113.45952	113.76187	114.22395	114.83636	115.62316
116.37306	116.94867	117.67505	118.62646	118.86875	119.27342
119.87301	120.80437	122.02677	122.56568	123.32444	123.59819
124.89827	125.48420	126.25590	127.44433	128.26525	130.44050
130.80727	131.70456	133.81558	134.18011	134.42506	134.80228
135.50521	135.83608	136.07627	136.52165	136.64136	138.31078
139.25714	140.31988	141.98903	142.80281	143.79646	144.36148
145.11413	146.04900	146.32702	149.40732	151.89216	152.86911
153.46525	153.94743	154.21465	154.40554	154.53009	155.19899
155.26724	155.87624	158.28729	159.66457	159.98623	160.40059
160.68341	161.11671	161.21614	161.88885	162.19223	162.59389
163.49612	163.78886	164.87679	165.14410	165.32882	165.63665
166.13842	169.40273	169.47350	170.80543	172.37182	172.79789
173.06876	173.12167	174.77363	175.44383	175.64512	176.73338
176.80391	176.98492	179.86479	183.53800	184.61507	185.10733
187.86725	189.43074	189.70561	190.38439	191.39801	192.31777
194.94544	196.79359	197.40820	197.59761	198.40258	199.01228
205.18861	209.90379	212.53460	213.80676	214.29574	214.64680
214.97682	215.31543	217.32437	220.05550	223.09089	224.37618
224.75767	225.10499	228.06268	229.27530	232.22953	234.14770
235.04143	235.47801	236.73551	237.03686	237.71880	238.12524
239.95192	241.36577	241.86317	242.71188	242.83022	243.39097
243.85332	244.26430	244.39527	245.39307	245.51849	246.88400
247.76931	248.48781	249.38390	249.53385	249.94247	250.43309
250.84030	251.19642	251.22621	251.80662	252.87702	253.39943
254.01127	254.66489	255.72035	256.53174	256.95949	257.06874
258.03811	258.54547	259.77026	260.01242	260.44782	260.62454
260.70666	261.38197	262.39555	262.95300	265.93990	266.41092
267.13890	267.51232	267.88120	268.43272	268.64556	269.06513
269.47798	269.91718	271.29084	271.66835	273.56762	273.89317
274.54077	275.49541	276.87115	277.28845	278.26694	280.44867
281.11881	282.05197	283.47770	285.16368	286.72401	289.08737
290.15574	292.01466	292.68414	293.26187	293.89512	294.75418
295.56829	296.28248	297.52192	297.93640	298.27597	299.12884
300.55595	300.76197	301.31153	302.35803	302.58269	303.64870
304.59609	306.34244	306.73540	309.57921	310.50216	311.58795
312.59435	312.69135	313.65842	314.51573	315.55740	315.85064
316.32256	316.95389	317.10598	317.51849	317.65006	317.88887
318.33295	318.76547	318.95702	319.89917	320.57809	321.02026
321.88624	321.92363	323.13052	323.74130	324.45658	324.89273
325.94262	326.41001	326.80127	327.31497	327.76710	328.17506
328.83775	329.62571	330.34114	330.68042	331.21419	331.62632
332.48556	332.97767	332.99769	333.58341	333.82110	334.15412
335.08572	337.62626	337.97917	339.47694	341.59572	343.22138
344.32566	345.73915	346.25491	346.35216	346.43893	347.30395
347.72086	349.23147	349.83186	350.69943	351.50533	353.37487
353.75000	354.10601	355.47312	356.23646	357.11079	358.15748
358.89498	360.69510	362.72865	363.44531	365.07084	365.30746
365.78396	366.73219	367.72136	369.37050	371.22765	380.83010
381.82495	382.41673	384.21106	385.07575	388.08446	390.95401
392.61873	393.49708	393.59622	393.91766	396.10395	396.65239

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397.09535	397.16137	397.37950	398.54225	399.62602	399.79782
400.06259	400.70511	401.19502	401.78966	402.34227	402.97948
403.54070	403.64153	403.83270	405.02913	406.29473	406.54241
406.75413	408.89494	409.32545	410.25276	410.79027	415.13192
416.48929	418.56006	420.08160	421.00148	421.23434	422.66121
432.51384	436.33203	438.30049	439.56020	440.52851	440.76453
441.66210	442.63630	442.94394	449.41201	452.07662	458.33470
460.99024	461.79571	462.24011	465.50658	466.66970	467.21612
467.63702	472.21145	472.95786	474.11705	476.35504	478.36018
479.48655	481.71746	482.79787	483.04672	484.61518	486.81916
487.71178	488.48093	488.96607	489.30434	489.87524	490.09808
490.98077	491.52991	492.40375	493.75117	495.06326	495.20922
495.49360	495.88344	496.06136	496.33632	496.46419	496.77268
496.82166	497.45190	497.69792	497.88082	498.32226	498.45755
498.55871	499.10648	499.27565	499.91780	500.68994	501.36030
501.99027	503.04791	504.56392	505.99252	508.38100	509.87834
510.91143	511.93073	513.84199	517.51878	518.90056	519.08348
519.22005	519.66857	521.34600	522.99183	523.43563	524.49307
527.65650	529.12561	539.86789	541.56630	543.54663	546.99283
548.01466	550.17498	552.05094	558.25229	561.32740	579.88765
582.61863	583.29212	584.80130	587.96940	598.06443	604.47821
606.58026	620.27351	627.91829	629.73557	632.10270	633.14722
639.40572	642.49428	643.66477	654.00291	657.22638	660.88060
664.37868	664.87169	665.54505	666.33092	666.63879	667.23079
667.62205	668.02869	670.01672	675.88470	685.04495	687.38634
688.48152	688.73902	693.58183	696.64159	697.89099	698.25564
699.74708	700.18799	702.11091	704.05097	708.41330	714.43828
717.06117	718.55645	720.56024	722.49749	723.10341	723.88620
731.03318	733.34538	736.52552	737.48699	738.08151	742.99388
743.99729	754.43297	760.40541	762.65480	764.25775	764.89307
770.01181	775.73494	779.48181	785.27639	788.31804	790.25912
792.60416	793.20402	794.95054	795.99359	800.09517	816.82563
819.11809	820.74716	821.69947	824.53288	831.92373	840.66256
845.13344	851.21246	855.58743	857.45299	864.03651	867.38500
867.81065	868.22470	869.17594	870.16074	870.18803	870.43688
870.63481	870.93766	871.21138	871.77668	873.71551	873.88649
875.16450	875.78937	875.98732	876.58495	877.44861	878.28665
879.58950	880.18063	880.63497	880.93858	882.04839	882.68607
883.09452	883.72638	884.95734	885.22088	885.69444	886.67777
887.01156	888.00217	888.59139	889.39510	889.94426	892.11164
892.33585	893.16150	893.56752	893.73142	894.27982	895.69695
896.13105	896.81679	897.30021	897.95908	898.86360	899.06758
900.30704	900.48333	900.57780	901.15387	901.60915	902.31857
903.14615	903.96694	904.88765	906.45890	907.85889	908.54605
909.41728	911.07373	911.53545	912.22752	913.53587	913.92858
914.53225	915.04944	915.24370	915.76980	916.35284	917.29688
917.92437	918.98043	920.53239	921.45679	921.85160	922.88240
923.06808	924.70508	925.37005	927.01422	929.28055	929.52018
931.14532	931.27574	936.77748	938.76605	949.60121	956.56118
968.50665	984.06661	987.26829	1038.22906	1039.46016	1040.05649
1046.55159	1051.11281	1051.68664	1052.94799	1053.37805	1053.47049
1054.08893	1054.28664	1054.88289	1055.01399	1055.77615	1056.54652
1056.65379	1057.11777	1057.42650	1057.72967	1058.21121	1058.66262
1059.11472	1059.28189	1059.54860	1059.90343	1060.63590	1061.13571
1061.20656	1061.48379	1061.67604	1062.33992	1063.28205	1063.54239
1064.32045	1064.50089	1064.74627	1065.06985	1065.36660	1065.48908
1065.68036	1065.81124	1066.02629	1066.17831	1066.28016	1066.53798
1066.78016	1066.82243	1066.84655	1067.32939	1067.42807	1067.91081
1068.49140	1068.66028	1069.15272	1069.42083	1070.34406	1070.45145
1070.75077	1070.83470	1071.06087	1071.44998	1071.75253	1071.90129
1072.31816	1072.46895	1072.60545	1072.86459	1073.30482	1073.66038
1073.89257	1074.10471	1074.23009	1074.57957	1074.73614	1075.25156
1075.46569	1075.83227	1076.04205	1076.11934	1076.70637	1076.99775
1077.31917	1077.56066	1077.66735	1077.79825	1078.28644	1078.70486
1078.77700	1078.89614	1078.95927	1079.11822	1079.39085	1079.80867
1080.11113	1080.39774	1080.81612	1081.37912	1082.26672	1097.38373
1114.12438	1121.78830	1130.48403	1132.01883	1134.11472	1142.04906

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1145.22500	1147.52556	1148.94488	1149.94663	1150.30487	1150.71478
1151.38750	1151.57771	1155.05932	1156.34049	1158.02589	1158.83050
1159.43943	1164.68503	1165.03645	1166.57854	1166.88491	1167.73462
1169.80525	1171.56647	1172.85354	1173.48584	1175.53365	1178.56030
1180.21662	1182.03307	1182.39229	1182.63704	1183.07681	1183.71651
1184.28508	1184.51720	1185.59071	1186.02518	1186.70150	1187.22198
1189.31695	1190.10824	1190.48840	1191.34927	1191.79971	1192.23538
1192.52692	1193.34428	1194.12024	1194.87917	1195.67563	1195.89949
1196.44986	1197.15843	1197.90553	1198.32252	1199.00842	1199.46881
1199.51366	1200.02967	1200.63559	1203.61687	1204.45847	1205.32895
1205.75143	1206.09690	1207.26102	1207.71123	1208.21767	1208.76131
1208.88271	1209.37355	1209.47926	1209.71785	1209.83618	1210.31035
1210.55812	1210.79061	1211.02829	1211.45517	1212.17402	1212.66205
1212.91335	1213.28720	1213.97743	1214.94621	1216.01563	1216.23753
1216.87334	1217.91174	1218.35750	1218.79520	1219.21765	1223.86249
1228.71285	1239.84542	1255.99083	1279.61124	1313.20845	1323.65414
1362.52401	1401.82359	1405.06887	1409.69223	1466.16060	1469.63545
1475.72919	1478.12145	1478.77283	1489.46111	1494.52172	2986.84112
2996.64701	3012.40104	3017.00916	3017.46826	3018.92639	3039.29287
3060.88997	3084.72832	3086.71044	3093.67038	3097.40500	3668.22941

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n-hexane

-5.21359	0.00000	0.00000	0.00000	12.59958	21.30192
27.96660	28.17312	37.01626	39.91346	40.34708	41.40010
42.20685	47.42111	48.72079	50.78272	51.03885	51.56655
53.04349	53.39935	55.02719	55.60606	58.51906	60.09342
60.82553	62.71431	63.29192	63.65843	63.95653	64.11296
64.63494	65.02788	65.86994	66.33327	66.93357	67.81880
68.58779	68.78515	70.16318	70.51798	71.93446	72.44473
73.10053	77.19556	81.02414	81.61394	82.21215	82.78874
83.06583	83.54427	84.43999	85.35055	85.94549	87.09799
88.96507	90.09210	90.37723	90.98102	91.30718	91.96015
92.06499	93.09712	93.15714	94.01480	95.62352	95.98632
99.31883	99.58575	99.92207	99.99016	101.43311	102.26997
102.52022	103.64449	104.66695	105.18326	105.46148	105.91655
106.18357	107.24109	107.52973	109.64073	109.99230	110.54959
110.77272	111.00255	111.31930	112.08237	112.45777	112.70283
113.32026	113.51843	113.57265	113.75853	114.21620	114.98868
115.74925	116.40436	116.92772	117.83044	118.71634	118.94987
119.11357	119.37958	121.25706	122.23092	122.68627	123.32590
123.69560	124.96326	125.52504	126.44999	127.54539	128.31887
130.66299	131.40628	133.80781	134.08664	134.53169	134.77810
135.37325	135.71455	135.86004	136.49281	136.61590	137.88589
138.70247	140.27588	141.00588	142.22113	142.97897	143.81493
144.75509	145.28321	146.01521	146.42531	149.29994	152.15682
152.98674	153.51555	153.85182	154.34900	154.43322	154.89129
155.26931	155.32678	155.92994	158.38705	159.71561	160.10164
160.36872	160.68241	161.00009	161.16840	161.79366	162.10610
162.28337	162.80706	163.41501	164.16443	164.74118	165.22732
165.35937	165.75913	166.12009	169.42597	169.56171	170.70680
172.39803	172.81764	173.09825	173.17344	174.85262	175.43829
175.74075	176.79381	176.92246	177.09992	179.97170	183.77380
184.85424	185.14498	189.55983	189.84775	190.52476	191.39830
192.35953	194.92077	196.82955	197.45428	197.83580	198.40090
199.13269	205.46154	209.82064	212.97942	214.18875	214.42517
214.89138	215.01193	215.41065	219.79417	221.82914	224.00891
224.56701	224.90904	226.24489	228.28175	229.96081	233.90179
234.26264	235.25552	235.51371	236.76711	237.01112	237.85778
238.12572	240.32091	241.80386	242.45268	242.73879	243.47616
243.79294	244.13439	244.35102	244.71181	245.45063	246.23862
247.07288	247.81551	248.69043	249.48094	249.98230	250.35030
251.01525	251.19683	251.28054	252.02758	252.88586	253.48476
254.06269	254.75699	255.87816	256.61369	256.97707	257.10789
258.18833	259.17315	259.25212	259.92909	260.45067	260.62624
260.89441	261.14782	262.15656	262.67392	264.81778	265.97603
266.53604	267.13774	267.74839	268.26416	268.60009	268.88429
269.15639	269.55967	270.15268	271.62262	272.15961	273.86582
274.49288	275.44346	277.35471	277.68072	279.49251	280.31929
280.73342	281.19173	282.30576	283.87695	285.31821	287.32989
289.36128	290.17923	292.48226	292.82291	293.30606	294.49590
294.85117	295.61284	296.35025	297.61130	297.99217	298.43491
299.14965	300.72472	300.97833	301.63182	302.25565	302.39963
302.61530	304.43398	305.40435	306.16676	307.34487	309.72867
310.49878	311.70340	312.47592	312.76128	313.71168	314.77761
315.60901	315.91680	316.31885	317.05652	317.11248	317.53047
317.61469	317.85803	318.49408	318.78078	319.40319	319.86202
320.91899	321.09512	321.88598	321.97102	322.91232	323.98634
324.44115	325.10177	325.93042	326.56406	326.73513	327.45421
327.73733	328.22988	329.36626	329.77332	330.40885	330.75716
331.37860	331.72307	332.44129	332.97504	333.45354	333.69926
333.82120	334.39121	335.29639	337.64108	338.05858	339.44240
341.80983	343.07993	344.39768	345.79473	346.24098	346.38443
346.45176	347.34370	347.77767	349.20539	349.68593	350.66653
351.51492	353.41735	353.76949	354.11287	355.38442	356.27486
357.17345	358.13546	358.99281	360.77628	362.69287	363.49375
365.08183	365.28804	365.79012	366.68444	367.68877	369.18844
369.50131	371.19460	380.93313	381.93011	382.40526	384.23532
385.04212	387.94718	390.95934	392.66136	393.47480	393.59228

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393.92898	396.19118	396.66776	397.02958	397.13964	397.39638
398.59778	399.81284	400.21027	401.06436	401.86730	402.37429
402.96608	403.35763	403.62053	403.81998	405.15048	406.28172
406.50652	406.72073	408.89830	409.30027	410.19831	410.77139
415.11197	416.17532	418.57922	420.06590	420.99629	421.21210
422.40071	432.53503	436.28815	438.31249	439.56149	440.54271
440.75928	441.67379	442.62389	443.04927	449.60318	452.03097
458.47331	461.00327	461.75531	462.33102	465.58783	466.69621
467.26644	467.97235	468.89742	472.20591	472.95838	474.40807
476.38797	478.52036	479.69246	481.63508	482.81911	483.06518
484.63325	486.83929	487.70654	488.38810	488.97452	489.29965
489.94633	490.14344	490.96038	491.44639	492.46199	493.63538
495.07541	495.22916	495.47017	495.91553	496.10612	496.34964
496.46698	496.77426	496.81446	497.47471	497.66463	497.91220
498.34823	498.50708	498.56989	499.16783	499.31006	500.07117
500.66021	501.36964	502.05768	503.06095	504.55860	506.05807
508.38661	509.95419	511.11880	511.97710	513.95050	517.55342
518.95720	519.08032	519.21494	519.82770	521.38318	523.02238
523.42917	524.56106	527.59889	529.03340	539.91621	541.69360
543.54704	547.12377	548.00312	550.89582	552.34724	558.71470
561.31237	580.32621	582.74714	583.42883	584.80799	588.64390
597.98893	604.41212	606.69252	620.34733	627.79156	629.95423
632.13882	633.08951	639.43295	642.52321	643.55604	654.29018
656.85060	660.62901	664.39835	664.92365	665.54385	666.32839
666.71596	667.31069	667.64163	668.18284	670.02162	675.92294
685.14982	687.33109	688.51089	688.73014	693.69253	696.71175
697.87134	698.23523	699.69098	700.35338	702.10527	704.15837
708.38131	714.43564	717.07293	718.44561	720.67169	722.43561
723.13268	723.84932	730.90790	733.34420	736.69384	738.11394
739.74019	742.98801	744.03896	748.63897	754.65513	760.37672
762.65706	764.90237	769.96391	775.42032	779.47478	785.13844
788.23817	790.34224	792.24640	793.18093	794.85903	796.01460
800.05008	806.77580	816.62441	818.97988	820.75943	821.62099
824.69974	831.77744	840.16431	845.42700	851.07870	855.50093
857.35773	867.45503	867.91555	868.27151	869.12203	870.12376
870.37218	870.47569	870.67285	870.99765	871.16732	871.71436
873.67772	873.89140	875.46303	875.89433	876.31000	877.41955
878.27215	879.56542	880.18914	880.57408	880.91818	882.13913
882.67799	883.12654	883.62075	884.91962	885.21660	885.63051
886.62401	886.96796	888.01119	888.48042	889.37483	889.86123
891.91184	892.13266	892.28753	893.10651	893.54573	893.75465
894.29899	895.62688	896.08763	896.69635	897.38963	898.02370
898.82779	899.12205	900.09708	900.47407	900.54491	901.15274
901.57549	902.26134	903.10285	903.82031	904.57367	905.24756
906.43318	907.85482	908.55118	909.36595	909.58742	911.13901
911.53700	912.30442	913.51765	913.92563	914.49942	915.03112
915.29347	915.65923	916.34451	917.30362	917.88860	918.97227
920.54852	921.45427	921.86130	922.78775	923.04609	924.62474
925.43851	926.93254	929.29435	929.57134	931.26262	936.71655
938.72151	949.57770	956.61757	968.47748	987.27152	1006.68846
1020.31192	1039.73902	1040.64036	1047.44125	1051.10879	1051.71123
1052.93130	1053.37437	1053.42500	1054.08005	1054.22632	1055.04060
1055.75289	1056.51477	1056.63518	1057.09499	1057.32658	1057.59354
1057.72479	1058.11130	1058.58009	1059.11342	1059.27580	1059.52249
1059.89371	1060.57094	1060.97416	1061.29348	1061.47090	1061.77225
1062.28672	1063.39934	1063.48881	1064.40759	1064.61713	1064.91999
1065.10357	1065.37714	1065.48570	1065.69166	1065.80840	1066.04891
1066.07268	1066.26291	1066.51932	1066.78235	1066.81167	1066.84431
1067.33810	1067.49820	1067.91236	1068.56038	1068.87456	1069.44487
1069.61752	1070.27190	1070.45725	1070.78672	1071.03260	1071.07395
1071.49062	1071.91312	1071.94744	1072.42987	1072.50579	1072.67127
1072.83067	1073.31636	1073.65179	1073.94175	1074.05143	1074.23222
1074.61118	1074.69017	1074.73788	1075.25746	1075.46495	1075.74002
1076.06703	1076.17193	1076.67939	1077.04163	1077.27407	1077.53561
1077.65746	1077.71297	1077.77654	1078.29045	1078.67122	1078.86848
1078.93512	1079.10024	1079.36933	1079.75461	1080.02056	1080.25952
1080.55075	1080.87589	1082.37072	1097.11455	1114.07955	1121.74591

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1130.46467	1131.84452	1134.55856	1142.20756	1145.17923	1147.57622
1148.95611	1149.89658	1150.28077	1150.69411	1151.38368	1151.53571
1155.09239	1156.33768	1156.96933	1158.69267	1159.10768	1164.75481
1165.13010	1166.64640	1166.87453	1167.63842	1169.79770	1171.52859
1172.86056	1173.49381	1175.47072	1178.52119	1180.10779	1182.05667
1182.40865	1182.67545	1182.99879	1183.71359	1184.29450	1184.45926
1185.56590	1185.98402	1186.74738	1187.19975	1189.19003	1190.01723
1190.43982	1191.32441	1191.79809	1192.23900	1192.47841	1193.26178
1194.07882	1194.88129	1195.76405	1196.16738	1196.72526	1197.11706
1197.90930	1198.25381	1198.96373	1199.39548	1199.53689	1200.01274
1200.51594	1203.63530	1204.35490	1205.36458	1205.71338	1206.07520
1207.25795	1207.57245	1208.42648	1208.73313	1208.86484	1209.36041
1209.42393	1209.72730	1209.82959	1210.27619	1210.53086	1210.74449
1211.09239	1211.46307	1212.20701	1212.66250	1212.86905	1213.23543
1213.85215	1214.95794	1216.02161	1216.29164	1216.85681	1217.81996
1218.35478	1218.76564	1219.27298	1223.83132	1228.85718	1239.81926
1243.10011	1263.58882	1298.63749	1318.43140	1328.93553	1333.56019
1383.80522	1403.77099	1406.08476	1409.88684	1466.70109	1471.20840
1473.08437	1476.98578	1479.41412	1485.43303	1492.02043	1496.96786
2982.63345	2989.13213	2990.21980	2997.48483	3010.51644	3013.55480
3019.10921	3027.49617	3036.09284	3064.69153	3076.70081	3085.96049
3094.88962	3113.07362	3660.22878			

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n-heptane

-13.93894	0.00000	0.00000	0.00000	13.19965	25.70609
27.90789	29.04754	36.48430	39.88840	40.15536	41.41718
42.16682	46.16340	46.25395	50.65842	51.20404	51.37437
52.18786	52.91992	53.57589	55.33681	55.75257	59.23262
60.80948	62.79019	63.24510	63.55804	63.93299	63.99153
64.48116	65.07041	65.91603	66.04254	66.68984	67.61927
68.10011	68.56770	70.02518	70.51818	71.92389	72.44756
73.01339	77.19126	81.00607	81.53503	82.26927	82.88073
83.07349	83.46764	83.64719	85.26038	85.80496	86.25586
87.68635	89.20134	90.01496	90.77409	91.16999	91.24388
92.20126	92.83257	93.12891	93.27417	95.55218	96.02786
98.89297	99.34529	99.83846	99.97059	101.34286	102.25431
102.45046	103.11578	103.68119	104.93117	105.15356	105.41056
105.89205	106.30786	107.26540	107.52379	109.40922	110.11918
110.48254	110.82177	110.85640	111.16868	112.05698	112.35041
112.59448	113.10074	113.36146	113.42299	113.58747	114.13561
114.30960	115.05136	115.80758	116.57016	117.11379	117.76990
118.78762	119.05936	119.52074	120.88275	122.36704	122.76496
123.26893	123.70920	124.99006	125.55220	126.40907	127.57564
128.35513	130.70236	131.35495	133.89746	134.34618	134.61847
134.72564	135.44478	135.93258	136.14729	136.52218	137.02838
138.42558	139.28193	140.37704	142.17820	142.86227	143.86394
144.62404	145.16430	145.98420	146.26389	149.30709	150.84694
152.17034	153.04620	153.45159	153.86028	154.31105	154.45348
154.90853	155.21952	155.34232	155.86143	158.33952	159.71553
159.90424	160.24318	160.69636	160.93874	161.17532	161.65003
161.90776	162.22090	162.67628	163.60157	164.22442	164.84569
165.20149	165.37772	165.74555	166.15257	169.47850	169.55299
170.69877	172.33939	173.00615	173.13737	173.19805	174.83990
175.58446	175.75460	176.84048	176.93206	177.11163	179.96182
183.79945	184.85356	185.21387	189.57812	189.79968	190.52631
191.38250	192.40954	194.95225	196.81889	197.45668	197.87645
198.42601	199.22389	205.45870	209.89353	213.02883	214.15961
214.41096	214.85912	215.02555	215.39456	219.75920	221.97192
224.00600	224.58568	224.88203	226.42347	228.27760	230.02865
234.04621	234.31144	235.35417	235.44635	236.74167	236.97886
237.87591	238.07189	240.34450	241.82949	242.45770	242.69652
243.48415	243.80498	244.16277	244.36983	244.76109	245.50167
246.54710	247.03066	247.84308	248.46847	248.86235	249.54575
249.93316	250.30636	251.02435	251.14113	251.30834	252.05607
252.90852	253.44908	254.07091	254.78965	256.05574	256.60610
256.93780	257.03484	258.19812	259.18905	259.32570	259.83499
260.40190	260.53246	260.73983	261.13372	262.16692	262.65557
265.00250	266.19126	266.54165	267.11244	267.69441	268.26473
268.60135	269.03948	269.25480	269.49673	270.09039	271.57079
272.26106	273.81737	274.44316	275.48347	277.34082	277.68765
280.23906	280.64584	281.14791	282.27378	283.63527	285.15702
285.66059	287.30767	289.35766	290.22762	292.50486	292.88368
293.27738	294.49092	294.89680	295.58316	296.33313	297.61686
298.05841	298.42285	299.13161	300.66349	301.00620	301.68716
302.35961	302.59837	304.44587	304.68504	305.99858	306.12809
307.52527	309.80086	310.62756	311.69587	312.59899	312.73747
313.67916	314.79229	315.55618	315.91049	316.38987	316.95298
317.08941	317.54874	317.65101	317.97067	318.50067	318.76784
319.47039	319.88958	320.89011	321.13616	321.73917	322.01659
322.97319	324.06293	324.64791	325.08461	326.06156	326.57175
326.91065	327.57601	327.72735	328.29389	329.36550	329.55922
330.39973	330.76886	331.33274	331.70646	332.69044	332.95604
333.43844	333.64387	333.96532	334.38381	335.24346	337.70737
338.00826	339.48152	341.77104	343.11995	344.37263	345.73755
346.18725	346.39987	346.47809	347.47731	347.71280	349.29417
349.63958	350.69910	351.51224	353.38264	353.75322	354.14245
355.44400	356.17813	357.22177	358.30949	358.85091	360.78368
362.67814	363.49339	365.07243	365.23561	365.73418	366.68252
367.69328	369.35411	371.19297	380.87260	381.90176	382.27924
384.28538	385.12637	387.84897	390.88083	392.70919	393.49826

393.62492	393.97932	396.20506	396.63729	396.99712	397.13648
397.37841	398.68799	399.84043	400.14132	401.00589	401.73412
402.41859	403.01189	403.49558	403.65169	403.88159	405.14605
406.21076	406.43330	406.73917	408.91700	409.26714	410.17082
410.82555	415.21697	416.34410	418.65838	419.57975	420.05024
421.03171	421.21817	422.59658	432.65923	436.30435	438.36886
439.55095	440.57419	440.68979	441.65865	442.59234	443.02597
449.57085	452.04060	458.60003	461.08610	461.72076	462.22164
465.55425	466.70477	467.21695	468.06306	472.10625	472.98556
474.42397	476.45935	478.42944	479.72294	481.70513	482.74459
483.11444	484.46688	484.79455	486.92604	487.69168	488.45434
488.98212	489.32922	489.90426	490.15974	490.86295	491.56822
492.41634	493.59469	495.08123	495.16638	495.42091	495.85246
496.14905	496.34840	496.47626	496.77106	496.90315	497.48669
497.62429	497.95784	498.33095	498.45088	498.54576	499.20011
499.42438	500.00986	500.61384	501.38659	502.20309	503.08230
504.50241	506.04272	508.42788	509.96753	511.01375	511.89322
513.96800	517.45357	518.92372	519.09934	519.25816	519.71836
521.34669	522.99289	523.41827	524.56483	527.54330	529.01735
539.86981	541.59792	543.59191	547.12426	548.00981	550.97796
552.26173	558.71305	561.25486	580.28185	582.69717	583.36357
584.73742	588.68323	598.14225	604.54257	606.61961	620.37403
627.84708	629.99746	631.99184	632.96339	639.46289	642.58094
643.59683	654.24392	656.89901	660.64384	664.37038	665.09358
665.61026	666.10950	666.78888	667.30975	667.46739	668.34099
670.11641	675.95512	685.13442	687.31070	688.53174	688.72014
693.66168	696.71246	697.81130	698.08565	699.66726	700.35628
702.09692	704.06090	708.31595	714.27935	717.04504	718.45074
720.34748	722.43667	723.27041	723.91741	730.93788	733.28571
736.73295	738.09831	739.64968	742.61078	743.08611	744.01920
754.56662	760.28078	762.71005	764.92196	770.01800	774.21428
775.63719	779.37571	784.97966	788.31898	790.44649	792.09375
793.15141	794.82477	796.01855	800.18404	816.82399	818.93484
820.83713	821.67173	824.63085	831.83589	840.02590	845.39880
845.78927	850.98666	855.43262	857.32285	867.37331	867.80060
868.26016	869.16060	870.06815	870.41960	870.52892	870.64369
870.96628	871.15083	871.81282	873.60309	873.86633	875.41863
875.77104	876.31647	877.28649	878.38112	879.58784	880.00691
880.44669	880.89055	882.08137	882.73085	883.09028	883.20819
883.60682	884.88122	885.32336	885.65006	886.60865	887.00626
887.98424	888.46144	889.44619	889.93175	892.02288	892.29156
893.09804	893.59107	893.80967	894.28322	895.75487	896.10640
896.67984	897.49951	897.90422	898.83929	899.09611	900.27402
900.50062	900.57484	901.20565	901.61412	902.39634	903.07524
903.82589	904.93721	906.46493	907.83410	908.52743	909.30287
911.05156	911.49096	912.17612	913.45690	913.90381	914.44076
915.00304	915.33137	915.68969	916.21520	917.30214	917.70811
918.58070	918.98093	920.52727	921.50782	921.88532	922.83324
922.99944	924.60295	925.40011	926.95960	929.30991	929.57195
931.32660	934.21983	936.70476	938.71987	949.57275	956.56121
968.48140	987.26100	1000.82465	1017.98961	1039.71256	1040.56498
1044.81996	1048.86222	1051.14585	1051.75766	1052.99847	1053.39640
1053.47396	1054.06499	1054.24792	1055.17143	1055.81617	1056.55752
1056.68932	1057.13795	1057.48408	1057.71062	1058.25341	1058.71260
1059.10822	1059.23865	1059.52482	1059.87362	1060.75892	1061.02013
1061.35973	1061.63307	1061.82316	1062.36381	1063.40046	1063.82642
1064.39316	1064.63015	1064.87099	1065.15964	1065.40435	1065.51608
1065.68470	1065.79447	1066.00967	1066.14022	1066.28391	1066.50324
1066.74927	1066.78493	1066.85062	1067.21195	1067.44416	1067.91387
1068.52336	1068.53734	1068.92538	1069.32250	1069.70408	1070.21791
1070.39600	1070.77341	1070.97958	1071.05644	1071.39860	1071.57979
1071.81026	1071.99909	1072.40604	1072.50717	1072.74226	1073.02320
1073.38715	1073.69031	1073.97573	1074.02764	1074.29649	1074.61976
1074.81139	1075.22313	1075.53243	1075.85256	1076.07673	1076.26021
1076.71511	1077.15262	1077.26236	1077.53470	1077.66506	1077.73887
1078.34128	1078.72539	1078.89050	1079.04506	1079.13782	1079.46389
1079.73416	1080.02723	1080.23155	1080.47251	1080.81982	1082.26077

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1085.21891	1097.22775	1114.07590	1121.73218	1130.49226	1131.97145
1134.40651	1142.16231	1145.16880	1147.55243	1148.95517	1149.89588
1150.31370	1150.65615	1151.38756	1151.49916	1153.74804	1155.12635
1156.35453	1158.68702	1159.12615	1164.66339	1165.14096	1166.53072
1167.00188	1167.68322	1169.80481	1171.52522	1172.86607	1173.53678
1175.42720	1178.55619	1180.04995	1182.05071	1182.40164	1182.72517
1183.02344	1183.71786	1184.28884	1184.49139	1185.55816	1186.04825
1186.76035	1187.20353	1189.28112	1190.02891	1190.53376	1191.33441
1191.78406	1192.24794	1192.55916	1193.28020	1194.04665	1194.91475
1195.42010	1196.13749	1196.77058	1196.98592	1197.87297	1198.21101
1199.01432	1199.50887	1199.63441	1200.01777	1200.50689	1203.74349
1204.32470	1205.36308	1205.72548	1206.07740	1207.26901	1207.60246
1208.26939	1208.72808	1208.89048	1209.29859	1209.38114	1209.68391
1209.83224	1210.25590	1210.50686	1210.72395	1211.06483	1211.42249
1212.20644	1212.60063	1212.93825	1213.27239	1213.79653	1214.93383
1216.00696	1216.24305	1216.85456	1217.77676	1218.34471	1218.77704
1219.26831	1223.90306	1228.80693	1232.25823	1239.34950	1248.40969
1281.07288	1305.34133	1312.98174	1325.67008	1327.07760	1363.73677
1394.40769	1405.72500	1407.05828	1410.85351	1465.98438	1470.38683
1471.35757	1476.93310	1477.84686	1480.54069	1487.38912	1492.86121
1497.42341	2978.06040	2984.07323	2986.87914	2997.12214	3002.66670
3009.56165	3010.23268	3019.13095	3020.66156	3035.61527	3056.79163
3070.25235	3079.98962	3085.56357	3091.73634	3096.78254	3651.79481

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n-octane

0.00000	0.00000	0.00000	13.35520	26.56837	27.49276
28.41878	31.39641	37.55950	39.33988	40.24692	41.16653
41.49031	43.14497	47.29629	50.29531	51.13320	51.41714
52.51607	53.36399	53.49361	54.62822	55.76906	57.30361
60.66707	62.73355	63.43179	63.59656	63.75266	63.86994
64.21397	64.69718	65.76712	66.15121	66.33526	67.33797
68.15492	68.78649	70.07988	70.38361	71.58314	72.08393
72.82625	77.37073	78.96894	81.01779	81.95685	82.51087
82.84548	83.20480	83.42400	85.19631	85.22605	85.86999
87.22178	88.46025	89.15052	90.16512	90.90598	90.98513
91.38375	92.46993	92.91575	93.17950	93.22689	95.55808
96.03437	97.53907	99.24340	99.47230	99.90733	100.78717
101.65232	102.45921	102.63976	103.85875	104.81106	105.21143
105.45193	105.72220	106.32039	107.22351	107.43823	109.89311
110.25943	110.54356	110.80568	110.94285	111.52042	111.96889
112.44890	112.60986	113.11520	113.42296	113.45631	113.75716
114.22860	115.00156	115.79066	116.37152	117.00110	117.61260
118.71206	119.00072	119.31124	120.18620	120.51292	122.45143
122.85575	123.28400	123.75620	124.95527	125.59625	126.38115
127.70128	128.39745	130.75099	131.42782	133.91969	134.29374
134.46670	134.79939	135.49961	135.87895	136.18628	136.51324
136.69912	138.46058	139.17858	140.41668	142.11453	142.81791
143.83396	144.59234	145.17822	146.07338	146.52942	149.33002
150.08850	152.13291	153.15872	153.53127	154.05413	154.39353
154.60974	154.83501	155.23854	155.38750	155.98611	158.47138
159.78215	160.16290	160.41158	160.77207	161.04387	161.39440
161.88077	162.28075	162.69184	163.48122	163.87541	164.71810
164.79039	165.20796	165.41264	165.83815	166.30255	169.47300
169.53702	170.71024	172.39536	172.94358	173.12598	173.22048
174.81829	175.56146	175.69640	176.75975	176.86913	177.10789
179.95495	183.69310	184.83892	185.17799	189.58891	189.73193
190.48002	191.37958	192.43341	194.94872	196.85018	197.53374
197.78844	198.43053	199.12957	199.74391	205.63290	210.03299
212.95781	214.07771	214.40015	214.82625	215.02721	215.36005
219.73448	222.06972	223.96161	224.61757	224.93523	226.44223
228.17826	230.08247	234.11307	234.28903	235.32646	235.53578
236.78606	237.07211	237.88574	238.08335	240.45715	241.77733
242.45385	242.78130	243.45684	243.86165	244.20803	244.37744
244.81454	245.47286	246.45992	247.07026	247.86800	248.68572
249.49439	249.97592	250.37184	250.98887	251.20545	251.31747
251.99097	252.86900	253.51687	254.06786	254.71800	255.80743
256.58569	256.90371	257.09809	258.18364	259.20419	259.55546
259.97683	260.33567	260.65359	260.79095	261.28076	262.07289
262.62244	264.85169	266.22352	266.51641	267.11672	267.79192
268.16866	268.58368	268.81264	269.19364	269.46874	269.87662
271.01771	271.63755	272.11964	273.85919	274.43364	275.45267
277.19776	277.73548	279.37184	280.28302	280.61944	281.11484
282.35654	283.86516	285.44100	287.00994	289.16931	290.23157
292.44438	292.77862	293.26438	294.31399	294.89811	295.61747
296.32384	297.66799	297.95669	298.40830	299.17091	300.60806
300.96905	301.65221	302.39293	302.59640	304.40331	305.38056
306.15940	307.33170	309.72159	310.67835	311.62726	312.60902
312.71899	313.72775	314.73529	315.47878	315.97223	316.47931
316.97775	317.09426	317.59325	317.62971	318.04611	318.57585
318.71271	319.27923	319.95610	320.76228	321.06859	321.76778
322.07129	323.42043	323.96507	324.42718	324.91511	325.93157
326.44731	326.87509	327.36681	327.65851	328.24205	329.27872
329.36689	330.26506	330.66467	331.26229	331.71637	332.60864
333.04535	333.31171	333.59207	333.89678	334.33779	335.10417
337.63719	338.01622	339.60282	341.45080	342.22983	343.14182
344.45782	345.79981	346.18725	346.36462	346.53448	347.44885
347.64126	349.19035	349.71509	350.73257	351.41059	353.39455
353.79077	354.11498	355.42246	356.17489	357.17450	358.23755
358.78671	360.68238	362.75559	363.48935	365.01922	365.26834
365.78658	366.65413	367.72139	369.26233	371.21620	380.86478
381.80236	382.33160	384.21231	385.08412	387.86550	390.84888

392.71916	393.47416	393.60504	393.93192	396.15910	396.59886
397.04475	397.11508	397.46500	398.71143	399.78931	400.09528
401.12902	401.78397	402.38228	402.97961	403.53530	403.73353
403.78811	405.04930	406.18619	406.52514	406.75554	408.92304
409.22940	410.16248	410.85499	415.10950	416.40026	418.66604
420.04150	421.02284	421.25429	422.64098	432.63429	436.28076
438.35743	439.54556	440.53517	440.74456	441.65480	442.61547
442.88942	449.53981	452.04761	458.59013	460.97242	461.80859
462.26183	465.54412	466.68082	467.19309	467.90996	472.08076
472.47785	472.96594	473.89289	474.27033	476.41097	478.47039
479.56911	481.71193	482.88476	483.09925	484.70140	486.80068
487.72304	488.41639	488.85768	489.35873	489.86749	490.12488
490.91080	491.54833	492.44510	493.64623	495.11244	495.24494
495.50339	495.91065	496.08970	496.32738	496.43459	496.72246
496.83512	497.40277	497.65425	497.82038	498.27765	498.38610
498.63859	499.18827	499.39665	499.84139	500.52500	501.39752
502.00921	502.93415	504.48931	505.93134	508.36857	509.88133
510.91662	511.90020	513.77674	517.47239	518.91810	519.10017
519.24480	519.67730	521.36218	522.96916	523.33053	524.55209
527.55162	528.96988	539.93460	541.70548	543.49932	547.10036
547.97467	551.07311	552.35577	558.86311	561.24006	580.40346
582.73121	583.29828	584.71175	588.99615	598.08564	604.46976
606.68789	620.36899	627.89593	629.86391	631.97925	632.98406
639.49275	642.49665	643.58388	654.19309	657.01238	660.74061
664.43674	665.06564	665.44670	666.15392	666.73084	667.32300
667.41650	668.06033	670.08403	676.02462	685.11903	687.34461
688.48209	688.76210	693.57514	696.42615	697.96136	698.11027
699.65716	700.30822	702.08489	703.94631	708.36558	714.25776
717.04986	718.48651	720.43208	722.39862	723.27002	723.84034
730.99365	733.29390	736.79380	738.04972	739.74262	742.36773
743.07031	744.46727	754.48672	758.40877	760.53757	762.80068
764.88443	770.01723	775.96436	779.45126	784.90529	788.34085
790.36105	792.11309	793.19163	794.83386	795.98824	800.47964
805.29876	816.84795	818.99415	820.82352	821.72962	824.63645
831.78017	840.12417	845.32901	850.75826	855.41576	857.35111
867.43798	867.81278	868.25884	869.12672	870.12304	870.17236
870.48659	870.71793	870.87765	871.21443	871.69135	873.70632
873.77254	875.41572	875.92266	876.28525	876.60237	877.56498
878.34186	879.55206	880.07865	880.62583	881.00560	882.07920
882.64562	883.04517	883.67103	884.84414	885.18027	885.59912
886.58002	887.08178	887.86766	888.55411	889.31767	889.88228
891.26298	892.11424	892.40450	893.13392	893.53692	893.72022
894.26547	895.70217	896.12696	896.71342	897.43417	897.89323
898.87249	899.10412	900.20541	900.53407	900.60604	901.18737
901.66937	902.37994	903.07793	903.90262	905.03369	906.44218
907.81614	908.18847	908.81758	909.42227	911.05530	911.55879
912.26252	913.47290	913.96210	914.45959	915.09790	915.26841
915.73193	916.26295	917.31059	917.96213	918.98154	920.52857
921.54272	921.86616	922.88242	923.00674	924.59279	925.31207
926.93514	929.26400	929.56044	931.31062	936.70243	938.73773
949.58488	956.38633	957.09438	968.45455	987.23648	1007.48533
1020.42119	1028.44172	1039.69065	1041.23915	1050.29835	1051.13787
1051.76255	1053.02674	1053.38489	1053.45193	1053.97030	1054.31088
1055.14353	1055.83055	1056.55944	1056.68008	1057.16012	1057.53066
1057.64682	1058.17020	1058.64667	1059.12197	1059.21033	1059.61910
1059.90315	1060.61371	1060.90426	1061.11258	1061.33632	1061.70956
1061.98568	1062.45450	1063.48551	1063.89937	1064.46589	1064.68940
1065.00427	1065.32769	1065.50993	1065.63060	1065.75275	1065.99928
1066.08910	1066.25895	1066.39355	1066.59342	1066.75865	1066.90982
1066.91820	1067.20369	1067.44064	1067.93564	1068.74507	1068.87785
1069.25381	1069.53207	1070.39741	1070.51213	1070.74284	1070.83177
1071.04961	1071.12733	1071.49327	1071.86956	1072.00121	1072.38783
1072.55957	1072.89712	1073.01814	1073.55688	1073.76859	1074.08070
1074.20098	1074.47249	1074.64715	1074.76831	1075.16256	1075.26010
1075.73250	1075.86253	1076.09114	1076.26948	1076.95212	1077.11335
1077.30345	1077.62285	1077.67357	1077.81658	1078.30494	1078.78943
1078.99436	1079.08717	1079.10032	1079.57713	1079.82600	1080.06218

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1080.38496	1080.73777	1081.47900	1082.20127	1096.11723	1098.92426
1114.12218	1121.81386	1130.56519	1132.28314	1134.56321	1142.09641
1145.30500	1147.49599	1148.96974	1149.90381	1150.41143	1150.68661
1151.38134	1151.52970	1152.80705	1155.14097	1156.42826	1158.74000
1159.10985	1164.71046	1165.13499	1166.52366	1167.01530	1167.75380
1169.86889	1171.58314	1172.84094	1173.55582	1175.52501	1178.56550
1180.05236	1182.09424	1182.44103	1182.71836	1183.03138	1183.76924
1184.29766	1184.58130	1185.56811	1186.08222	1186.76518	1187.19390
1189.32398	1190.12633	1190.57125	1191.45111	1191.75632	1192.30053
1192.60787	1193.32188	1194.09662	1194.93596	1195.54242	1196.05918
1196.39884	1196.99802	1197.89158	1198.36136	1198.99928	1199.46004
1199.62446	1200.01777	1200.49462	1203.70337	1204.38242	1205.33948
1205.82265	1205.99806	1207.36369	1207.62240	1208.23474	1208.74711
1208.95396	1209.31386	1209.41423	1209.65854	1209.86079	1210.23422
1210.59306	1210.73973	1211.07238	1211.45066	1212.25538	1212.69451
1213.00506	1213.30881	1213.88697	1214.99192	1215.97381	1216.26984
1216.90626	1217.86490	1218.38354	1218.83826	1219.29313	1223.86284
1225.96501	1228.86975	1238.84585	1241.94098	1267.89996	1290.11599
1307.11898	1313.46805	1325.94700	1330.65871	1342.15733	1379.76148
1399.41492	1404.19675	1406.64495	1411.55387	1466.65410	1467.99689
1471.69664	1473.86906	1476.90933	1479.03197	1480.95141	1487.73355
1492.63322	1498.63230	2976.59175	2982.23399	2985.09615	2990.19113
2994.36724	2997.37702	3010.03066	3020.09608	3020.25137	3023.85158
3027.11867	3035.46917	3056.16863	3070.14152	3086.86710	3094.06764
3099.97151	3115.07985	3645.61776			

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n-dodecane

-7.90895	0.00000	0.00000	0.00000	11.87294	16.84661
24.38720	27.69808	29.72113	36.10516	38.84919	40.26120
40.38368	41.49761	42.68078	47.35749	48.68225	50.82382
51.43382	51.85158	52.75325	53.88687	55.26609	55.89276
57.31760	60.44942	62.23736	62.68347	63.36204	63.74735
63.95918	64.38448	64.60391	65.58763	66.10518	66.17498
66.62075	67.65330	68.08434	69.53943	70.14088	70.25891
71.40316	72.07972	72.97031	74.45560	77.34533	79.36085
81.16970	81.86016	82.72557	83.04065	83.25221	83.69624
84.79696	85.71737	86.17225	87.04878	89.26310	90.19984
90.83296	91.37319	91.58003	92.18832	92.76967	93.36925
93.51704	95.43888	96.00034	98.77116	99.43565	100.05935
100.07753	100.31952	101.61776	102.47454	102.74824	103.74950
105.03146	105.23811	105.39851	105.99197	106.30616	107.54400
107.86191	109.01025	109.89938	110.56855	110.66736	110.72981
111.16793	111.24368	112.19090	112.56813	113.13272	113.35099
113.51589	113.75785	114.07640	114.39534	115.10222	115.89803
116.58948	116.94525	117.62290	118.20743	119.11169	119.28115
119.56824	120.43622	122.38531	122.75262	123.36175	124.01825
125.15962	125.66349	126.43348	127.51106	128.52583	130.66876
131.70178	133.95209	134.33487	134.58610	135.30128	135.51337
136.03336	136.43126	136.54762	136.64422	138.44053	139.05286
140.25309	140.84443	142.18659	142.77318	143.97459	144.24657
145.31014	145.92853	146.41762	149.36839	151.81188	152.05799
153.31356	153.91025	154.07521	154.46502	154.62681	155.16924
155.29621	155.31971	156.31548	158.30811	159.97049	160.10805
160.60631	160.85806	161.00247	161.58702	161.94494	162.31981
162.47301	163.33871	163.92374	165.02522	165.10829	165.25859
165.69216	166.16693	168.44222	169.32448	169.73210	170.66563
172.34976	172.77890	172.97999	173.16252	174.16920	175.26653
175.75405	175.78456	176.80106	176.91351	177.06402	179.97555
183.53532	184.55215	184.89830	185.68091	189.43746	189.80303
190.31246	191.30642	191.61318	192.53262	194.93974	196.64807
197.62348	197.68485	198.30369	199.12911	205.25471	209.43272
212.69186	214.19397	214.50855	214.82908	215.03537	215.40149
218.21508	220.09502	223.13462	224.35227	224.68335	225.03519
228.16769	228.87071	232.21885	234.16389	235.04695	235.44516
236.88728	237.13109	238.09569	238.15112	240.04467	241.46262
241.95348	242.74081	243.17060	243.58855	243.96137	244.19215
244.57161	245.45347	245.90425	246.93789	247.85794	248.67478
249.52808	249.89186	250.27113	251.03999	251.16724	251.23456
252.00491	252.78650	253.35224	254.12668	254.75382	254.91441
255.72528	256.52685	256.99967	257.12273	258.22630	258.91420
259.77740	260.40773	260.55903	260.68713	260.93822	261.60980
262.80557	263.28772	265.89082	266.33537	267.14465	267.65410
268.03856	268.51125	268.63235	269.28086	269.61098	270.18511
271.38817	271.62280	273.60418	274.47357	275.12232	275.54604
277.14530	277.58368	278.43169	280.60406	281.50610	282.02121
283.53194	285.23436	286.90440	289.34441	290.18219	292.23121
292.59791	292.76134	293.30905	294.34154	294.93679	295.75598
296.47746	297.28314	297.82590	298.26710	299.15709	300.63452
301.08264	301.55552	302.31744	302.70074	304.02758	305.07804
306.26753	306.99568	309.87949	310.50052	311.72252	312.56479
312.60308	313.60091	314.61993	315.52481	315.85522	316.32085
316.87403	316.99408	317.40859	317.67348	317.93681	318.12776
319.10364	319.27174	320.11928	320.57632	321.15723	321.87733
322.18280	323.37526	323.79569	324.55810	324.94581	325.97187
326.66636	326.80112	327.48605	327.68443	328.07571	329.08265
329.64687	330.36287	330.60066	331.30956	331.65327	332.38692
333.02189	333.30926	333.64815	333.82407	334.33105	335.15596
337.58728	338.11296	339.51986	341.84822	343.02537	344.40372
345.72625	346.38478	346.41546	346.54161	347.55528	347.98227
348.21871	349.27275	349.73693	350.78890	351.36136	353.42474
353.72072	354.17024	355.46668	356.49489	357.13800	358.18398
359.06052	360.73914	362.82529	363.50146	365.07137	365.21474
365.86812	366.63714	367.62656	369.35321	371.32225	380.99344

381.97503	382.50505	384.29905	385.23060	386.78927	388.23354
390.79223	392.74476	393.46167	393.80034	393.91244	396.17783
396.61556	397.13848	397.18460	397.43816	398.90361	399.75952
400.05027	401.07419	401.89998	402.44370	402.98541	403.60027
403.68803	403.93004	405.11791	406.28176	406.58434	406.71233
409.03689	409.32251	410.16557	410.84061	415.17370	416.48172
418.62191	420.10445	421.04234	421.25186	422.52178	432.43428
436.32416	438.30014	439.62339	440.61805	440.84825	441.66664
442.56770	442.97194	449.51578	449.61661	452.01854	458.27902
460.89718	461.69439	462.46374	465.68178	466.69781	467.21185
467.78737	472.09864	472.92885	474.03746	476.41447	478.32508
479.50370	481.87859	482.77131	483.10898	484.66521	486.81026
487.60727	488.41557	489.06476	489.47021	489.97262	490.16286
491.04243	491.37713	492.54073	493.55467	494.95026	495.08783
495.28113	495.67967	495.99994	496.11161	496.23012	496.50209
496.76549	496.88936	497.48998	497.75451	497.89703	498.38661
498.47084	498.57963	499.11673	499.29817	500.13378	500.88381
501.26678	502.21687	503.05152	504.63123	506.08097	508.49354
509.87085	510.87178	512.06899	513.88686	515.86562	517.67996
518.99572	519.06321	519.19461	519.77605	521.30864	523.13648
523.47010	524.49425	527.80173	529.18510	539.96637	541.71001
543.49428	547.04950	548.07179	550.31569	552.09866	558.30966
561.31378	580.37348	582.62852	583.29008	584.82857	588.64256
597.91995	604.45017	606.70528	620.22913	627.53406	629.91207
632.22405	633.05650	639.34400	642.40977	643.67803	654.09348
657.16449	661.08607	664.38248	664.70290	665.45999	666.27335
666.72310	666.92183	667.63660	668.23853	670.00284	675.99504
684.90461	687.15274	688.48774	688.71084	693.75074	696.72465
697.75204	698.26334	699.61050	700.36571	702.06203	704.14235
708.12753	713.78583	717.20992	718.58588	720.63018	722.22985
723.22573	723.78604	730.36520	733.35303	736.76217	737.21047
737.82976	738.98636	742.31073	742.93169	744.14913	748.29887
755.16590	760.13118	762.34900	764.94937	769.45487	771.34876
774.83009	779.43617	785.66789	788.16322	790.22866	792.27663
793.19011	794.75253	795.93441	799.41815	803.60173	817.02064
818.81287	820.67492	821.50517	824.59699	831.66852	841.08039
844.96020	849.63848	851.17089	855.27042	857.48109	867.40306
867.87852	868.15875	868.97143	870.00678	870.28290	870.48257
870.63211	871.03948	871.13856	871.86072	873.64561	874.03616
875.33460	876.05720	876.65643	877.54838	878.33352	879.57253
880.39518	880.56122	880.88772	882.20089	882.68534	883.09219
883.58688	884.93609	885.25888	885.71893	886.50202	887.01767
888.30779	888.73628	889.41615	889.99944	891.94801	892.31819
893.25207	893.53698	893.60101	894.35714	895.59427	896.08116
896.80516	897.31862	897.85349	898.63345	898.95271	899.40766
900.20310	900.41680	900.56012	901.16700	901.61767	902.15635
902.56105	903.20682	903.78714	904.95680	906.12242	906.54847
908.02241	908.57906	909.43107	911.21522	911.76841	912.31305
913.49066	913.88693	914.49850	914.94609	915.28054	915.79514
916.25740	917.29369	917.93306	919.20997	920.56174	921.41622
921.82558	922.79400	923.35138	924.81313	925.45018	927.12051
929.30576	929.61000	931.24653	936.90532	938.73291	949.60061
956.56078	957.36924	968.57367	987.25901	992.59455	1003.14518
1007.01927	1023.07623	1037.17138	1040.15431	1043.96735	1045.31524
1049.57202	1051.07796	1051.68672	1052.81502	1053.30500	1053.48828
1053.92974	1054.07373	1055.14169	1055.72903	1056.36791	1056.49340
1057.19466	1057.46629	1057.70417	1058.04128	1058.23657	1058.74797
1059.10328	1059.22468	1059.67202	1059.92956	1060.68866	1060.84030
1061.13048	1061.36913	1061.70677	1062.16491	1063.24157	1063.58740
1063.77444	1064.37069	1064.71014	1064.90231	1065.20140	1065.35415
1065.52272	1065.59189	1065.92515	1066.15092	1066.21521	1066.37838
1066.67556	1066.70670	1066.81999	1066.94563	1067.71024	1067.97991
1068.51876	1068.70869	1068.82242	1069.06609	1069.40818	1070.12403
1070.39306	1070.68517	1070.78831	1071.13443	1071.32162	1071.68029
1071.81098	1072.24364	1072.34361	1072.64192	1072.96053	1073.20713
1073.51423	1073.55119	1073.82924	1074.04308	1074.29264	1074.58046
1074.92632	1075.33887	1075.45854	1075.73426	1075.94641	1076.09074

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1076.53715	1076.79459	1077.10143	1077.32191	1077.57736	1077.72082
1077.87172	1078.32430	1078.51944	1078.65471	1078.78796	1078.89098
1079.10252	1079.36895	1079.67080	1079.79933	1080.07598	1080.59096
1080.92652	1082.35349	1096.99158	1114.04525	1118.75677	1121.64628
1130.40804	1131.32389	1134.60676	1142.13699	1145.12087	1147.53869
1148.91906	1149.88594	1150.44925	1150.68592	1151.36975	1151.41021
1151.54071	1154.99939	1156.30662	1158.51039	1159.14141	1164.68786
1165.00752	1166.52574	1167.01233	1167.73807	1169.86023	1171.49454
1172.91835	1173.49028	1175.53551	1178.51604	1180.09149	1181.98446
1182.43857	1182.68160	1183.06567	1183.66303	1184.38822	1184.62641
1185.45755	1185.95965	1186.58900	1187.23405	1189.18358	1190.09959
1190.50189	1191.40734	1191.77471	1192.26614	1192.50884	1193.28883
1194.08413	1194.67025	1195.79358	1196.05875	1196.80672	1197.47893
1197.94315	1198.25740	1198.76028	1199.37503	1199.63117	1199.97836
1200.41423	1203.60325	1204.41423	1205.21584	1205.59365	1205.81122
1206.52934	1207.49840	1207.88893	1208.50747	1208.66720	1209.04131
1209.10641	1209.62952	1209.77773	1210.16985	1210.36557	1210.61380
1211.12959	1211.21334	1211.40655	1211.91812	1212.18979	1212.62928
1213.10883	1213.71405	1214.06681	1214.98364	1216.31791	1216.33500
1216.91598	1218.03989	1218.55115	1219.02213	1220.38141	1223.85955
1229.39419	1238.51253	1240.95650	1249.43406	1266.71204	1281.58149
1295.03373	1307.07663	1312.87650	1315.79931	1317.45495	1323.29580
1327.36613	1331.86549	1345.98517	1372.02770	1392.36296	1401.77669
1402.71946	1403.75125	1407.01371	1410.45576	1461.95829	1463.90155
1466.01308	1466.25739	1469.86068	1470.43810	1474.40041	1476.38142
1478.97303	1482.90917	1485.47094	1488.81555	1492.30135	1494.06294
2983.97377	2987.12573	2987.53943	2991.23797	2992.79829	2995.24313
2998.07307	3002.27000	3004.46565	3007.88611	3013.33514	3014.08503
3018.89947	3021.53569	3028.06458	3029.60395	3031.56905	3037.37546
3047.81220	3054.81783	3057.87443	3067.54433	3084.94924	3089.87523
3091.93995	3093.92982	3690.85605			

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0.00000	0.00000	0.00000	4.57772	14.09013	27.96824
28.11747	36.94560	39.93763	40.35135	41.35943	42.44517
45.01464	50.10194	51.11225	51.57561	52.27620	52.81668
53.40956	55.10498	55.70994	60.14491	62.84590	63.22088
63.33397	63.69874	63.80936	64.07761	64.60691	65.57165
65.82737	66.12420	67.32564	67.67164	68.67949	69.98675
70.46563	71.77277	71.95539	72.98244	77.75935	80.99066
81.57517	82.01227	82.39018	83.11047	83.40701	84.39314
85.01706	85.70514	87.13260	88.36022	89.17893	90.18716
90.79138	91.12015	91.99385	92.18252	93.05802	93.16453
93.60793	95.66133	95.97431	98.98843	99.41670	100.04732
100.50459	101.37536	102.20590	102.70799	103.01619	104.43019
104.68859	105.29187	105.70880	106.29302	107.23430	107.51671
108.57457	109.66436	110.06204	110.57193	110.83894	111.08809
111.61859	112.01353	112.70314	112.77668	113.29711	113.50478
113.53849	113.85762	114.20496	115.16585	115.86895	116.34035
117.05842	117.84639	118.61856	118.98821	119.26733	120.55542
122.38088	122.73943	123.20203	123.67337	124.92274	125.42725
126.41813	127.60175	128.48687	130.74815	131.35139	133.85476
134.25872	134.65375	134.84344	135.44800	135.83787	135.89885
136.50125	136.63363	138.33052	139.39355	140.58584	142.28700
142.84394	143.76250	144.06672	145.06987	146.25523	146.65939
149.65989	151.96970	152.75578	153.64169	153.84642	154.07390
154.44394	154.59335	155.20328	155.35637	156.19286	158.28704
159.67855	160.05580	160.30030	160.46843	160.81305	161.10194
161.85114	162.05949	162.64532	163.33941	163.70350	163.82196
165.01407	165.27570	165.43322	165.79170	166.74559	169.60034
169.82222	170.92893	172.37238	173.02988	173.19294	173.23665
175.07739	175.64989	175.88154	176.82060	176.85864	177.24190
179.97586	183.91892	185.08645	185.28498	189.67089	189.80364
190.71057	191.65249	192.55075	194.94929	196.94146	197.52356
198.00284	198.53357	199.26691	205.72636	210.60234	213.18173
214.07174	214.44609	214.89111	214.98013	215.41606	219.92637
222.42451	224.23598	224.67052	224.99306	227.44413	228.69599
230.71575	234.16516	234.86506	235.46503	236.75976	236.88704
237.09015	238.11733	238.22268	240.55569	241.83145	242.65745
242.72299	243.63623	243.88203	244.19171	244.50080	245.33697
245.57938	246.90980	247.70132	248.59417	249.34452	249.76030
250.18731	250.57911	251.14407	251.26867	252.04405	252.21726
253.24204	253.52000	254.19153	254.79047	255.94974	256.63663
256.96237	257.14438	258.24131	259.48224	259.89564	260.25048
260.52495	260.73014	261.04013	262.27740	262.79458	265.83069
266.49971	267.10132	267.22536	267.62106	268.40559	268.63312
269.14114	269.42303	269.59839	270.65698	271.59959	273.71855
274.04329	275.13843	275.46332	277.32934	277.91100	280.49144
281.17270	282.14123	283.61502	285.21445	286.66400	289.01902
290.17741	290.54758	292.71026	293.21466	293.48292	294.68237
295.72673	296.41920	297.45920	297.87579	298.08981	299.03265
299.55291	300.60164	300.94741	302.00084	302.54371	302.65591
304.53619	306.11153	306.45079	309.49725	310.35820	311.62518
312.45426	312.72018	313.69751	314.11352	315.36019	315.80343
316.59866	316.82199	317.06403	317.51663	317.59626	317.89237
318.20768	318.33460	318.74286	319.95167	320.15976	321.12139
321.81337	321.99166	323.21704	323.51218	324.56857	324.77913
325.76845	326.27545	326.66186	327.39040	327.70618	327.92464
328.32702	329.65619	330.31900	330.70806	331.06434	331.62881
332.45959	332.65966	333.03352	333.55098	333.87367	334.22724
335.09575	337.73026	338.26215	339.50388	341.61002	342.95677
344.21237	345.76693	346.27538	346.36160	346.44108	347.27510
347.71274	349.04193	349.69318	350.53071	351.33776	353.33441
353.72179	354.13500	355.39687	356.34097	357.16498	358.14209
358.88968	360.68408	362.75278	363.39340	365.03772	365.19223
365.78981	366.58546	367.68600	369.24340	371.14727	380.72472
381.73292	382.37831	384.18379	385.11826	387.88671	390.82647
392.63440	393.40324	393.55230	393.93729	396.10009	396.62798
397.10005	397.13358	397.38146	398.66956	399.72762	400.11891

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401.07109	401.91603	402.38585	402.97950	403.45105	403.63274
403.78779	405.06850	406.33519	406.58733	406.71738	408.86686
409.29930	410.30723	410.83923	415.14358	416.42436	418.50559
420.06035	421.00059	421.23397	422.45456	432.63392	436.33485
438.23152	439.62622	440.51883	440.77237	441.64967	442.56982
442.93831	449.48363	452.04481	459.21728	460.61169	461.73432
462.31684	465.58597	466.64724	467.13798	468.13123	472.23354
472.95849	474.07284	476.46072	478.15477	479.62019	481.59248
482.43390	483.14026	484.54704	486.82343	487.76818	488.33642
488.80717	489.04973	489.82095	490.17142	490.93236	491.42621
492.54281	493.54924	495.12265	495.25382	495.51543	495.91934
496.07446	496.38587	496.48843	496.76667	496.85056	497.46401
497.67715	497.89862	498.36716	498.48857	498.56132	499.12396
499.28981	500.06279	500.64127	501.57313	502.10130	503.12067
504.62567	505.71812	508.33146	509.63006	510.95653	511.90543
513.91856	517.58564	518.94757	519.08818	519.21500	519.68343
521.49662	522.83432	523.36681	524.55881	527.52132	528.54131
540.12173	540.91873	543.52359	547.42353	548.07239	551.68036
554.23008	560.09896	562.80310	581.92642	582.89575	583.29929
584.88848	588.23233	595.44777	598.84933	604.46475	608.18712
620.57202	627.53734	630.00995	632.17284	633.12523	639.39250
642.42656	643.63085	654.23554	656.61667	660.92282	664.43867
664.91043	665.54516	666.30666	666.73670	667.43845	667.49888
668.16502	670.07983	676.15412	685.31913	687.74768	688.47732
688.82531	693.82670	696.58748	697.82163	698.17417	699.76718
700.68836	702.11108	704.29596	708.86219	713.99449	717.25564
718.61139	720.54679	722.54951	723.18666	724.01309	731.44910
733.81701	736.94054	738.20624	742.97378	743.96119	754.79850
760.94029	763.86290	765.40129	770.05099	779.11714	781.40712
784.99736	789.78182	790.39745	792.34595	793.25517	795.24385
796.14414	806.54597	816.61681	820.17035	820.69743	822.24978
824.04579	830.20483	831.57196	840.03018	844.12319	850.76209
855.60738	858.01966	867.40420	867.81013	868.34305	869.12271
870.07908	870.25783	870.44415	870.68775	870.99288	871.20015
871.78203	873.67906	873.86124	875.47851	876.00058	876.30315
877.42961	878.26563	879.65624	880.20105	880.50248	880.91823
882.10613	882.64076	883.10875	883.62970	884.99223	885.18795
885.65835	886.54286	886.90159	888.10189	888.54303	889.37367
889.93310	892.04471	892.26596	893.10498	893.55018	893.74688
894.32009	895.64997	896.05869	896.77515	897.44027	897.98138
898.84188	899.03758	900.14035	900.48175	900.56304	901.12789
901.57514	902.33025	902.94453	903.94337	904.92544	906.49066
907.86154	908.46125	909.38844	911.06908	911.39231	912.32470
913.49791	913.92589	914.52865	915.05755	915.22982	915.59839
916.24523	917.27806	917.78506	918.98858	920.50189	921.45068
921.83336	922.74717	923.03724	924.64777	925.39809	927.01521
929.29525	929.60594	931.24720	936.70194	938.67977	949.53570
956.57736	968.50185	976.09001	987.28268	1005.50316	1038.37924
1040.69661	1050.72909	1051.40414	1052.99958	1053.35237	1053.38483
1054.07154	1054.18689	1054.99425	1055.47832	1055.75613	1056.29213
1056.68314	1057.24542	1057.70282	1057.95573	1058.13973	1058.65467
1059.04402	1059.27542	1059.55498	1059.94741	1060.59406	1061.04373
1061.12040	1061.14338	1061.88504	1062.38153	1063.49082	1063.57629
1063.62285	1064.36563	1064.65995	1065.01926	1065.30494	1065.47185
1065.63058	1065.68051	1065.97949	1066.05277	1066.26873	1066.46215
1066.66459	1066.78420	1066.81947	1067.35966	1067.41413	1067.82264
1068.00293	1068.73702	1069.18006	1069.45485	1070.17270	1070.36913
1070.59525	1070.69948	1070.94243	1071.16809	1071.56115	1071.80533
1072.11191	1072.35286	1072.57348	1072.79381	1073.18215	1073.56488
1073.86876	1073.97542	1074.14810	1074.60074	1074.71972	1075.24111
1075.45573	1075.82529	1075.99287	1076.17645	1076.66560	1077.02118
1077.26912	1077.46002	1077.58105	1077.75011	1078.25296	1078.67427
1078.89416	1078.94767	1079.11882	1079.38566	1079.76956	1080.03403
1080.24948	1080.52760	1080.84177	1082.12759	1088.54099	1114.05362
1121.45562	1127.44298	1130.51839	1133.50137	1141.82040	1144.51871
1147.32134	1148.27189	1148.90805	1150.37851	1150.67591	1151.37760
1151.52758	1153.00450	1156.19148	1156.91837	1159.04178	1161.86506

1164.62377	1165.36558	1166.63771	1167.05958	1167.68813	1169.87054
1172.11639	1172.76578	1173.79120	1176.55364	1178.59709	1180.03778
1182.07810	1182.46961	1182.66028	1183.07083	1183.63785	1184.36495
1184.42703	1185.61371	1186.15730	1186.54608	1187.82131	1189.12547
1190.21729	1190.54640	1191.44905	1191.79629	1192.44589	1192.48766
1193.16820	1194.22665	1195.00537	1195.98975	1196.33532	1196.80814
1197.82866	1198.29625	1198.88323	1199.24389	1199.64413	1200.00467
1200.65462	1203.70632	1204.48751	1205.35576	1205.64262	1206.09397
1207.31328	1207.75321	1208.25953	1208.74060	1208.88391	1209.39215
1209.49348	1209.70395	1209.82218	1210.35770	1210.40970	1210.69651
1211.04377	1211.43262	1212.17749	1212.67615	1212.98359	1213.31111
1213.81190	1214.99676	1216.04833	1216.30332	1216.84124	1217.84024
1218.36735	1218.90935	1219.26073	1223.77990	1228.73534	1230.50822
1239.28379	1369.39435	1455.25825	1680.26013	3121.39980	3137.69056
3205.06221	3235.62685	3322.20410			

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0.00000	0.00000	0.00000	8.26634	24.55588	27.81454
28.07568	33.73988	37.65987	39.99971	40.38489	41.38962
42.47283	49.38948	51.08430	51.42585	51.74371	52.35438
53.37001	55.15070	55.67817	59.58395	62.42912	63.10221
63.28272	63.56261	63.71572	64.08675	64.58036	65.10643
65.58791	66.07648	66.59796	67.63730	68.66824	69.35949
70.47732	70.62079	71.82814	72.95692	73.67985	78.18577
81.06569	81.59458	82.30849	82.75029	83.46110	83.65943
84.76888	85.11126	85.79259	87.36718	89.21460	90.31697
90.76583	90.92603	91.23830	92.06748	92.61506	93.10733
93.29138	95.91288	95.95849	98.79838	99.30182	99.51088
100.18989	101.35003	102.22465	102.32045	103.74432	104.46894
105.18329	105.34038	105.63649	105.93167	106.58701	107.51290
108.35411	109.63482	110.10397	110.63813	110.85279	111.24496
111.77985	112.20792	112.52300	112.94860	113.34624	113.49697
113.60780	114.02942	114.43280	115.14281	115.92049	116.37461
117.14228	117.84414	118.65201	119.02155	119.24385	121.22065
122.40907	122.81988	123.15569	123.66943	124.93721	125.33605
126.33129	127.53988	128.27554	129.83961	131.28257	132.48317
133.97866	134.31407	134.86607	135.20534	135.47185	135.84943
135.90378	136.50800	136.67499	139.69890	140.13698	140.75870
142.45022	143.19302	143.88233	145.01642	145.16855	146.33396
146.91104	149.99851	152.49352	153.04403	153.72513	153.95616
154.34441	154.59954	155.18733	155.25849	155.90643	156.38754
158.44797	159.69986	160.27880	160.44421	160.73094	161.06858
161.41100	162.09964	162.31388	162.85484	163.42801	163.82972
164.91588	165.12095	165.53655	165.77179	166.27368	169.47732
169.79581	171.08121	172.33997	173.02711	173.12306	173.15781
174.96462	175.50413	175.91763	176.82132	176.86227	177.28396
180.08387	183.86314	185.05148	185.35714	189.67795	189.81866
190.75616	191.59018	192.57831	194.94575	196.93828	197.56970
198.04906	198.50010	199.26157	205.77784	210.59671	213.14911
214.10131	214.50728	214.85404	214.97297	215.39114	219.83798
222.61738	224.19124	224.67781	225.01638	227.49028	228.65880
230.79948	234.17003	234.87328	235.14964	235.61935	236.78447
237.09709	237.35380	238.10509	238.16962	240.55315	241.89977
242.65205	242.73548	243.64996	243.89399	244.19136	244.53783
245.33008	245.55029	246.91666	247.68470	248.62384	249.34699
249.75142	250.24666	250.54064	251.14298	251.28847	252.08656
252.21456	253.28425	253.53121	254.25985	254.77458	255.90748
256.65650	256.95791	257.15433	258.18039	259.46080	259.96231
260.21827	260.53449	260.75499	261.05121	262.31079	262.85700
265.82501	266.51959	267.15557	267.27136	267.65187	268.41488
268.58838	269.14609	269.39828	269.64860	270.78247	271.69413
273.75006	274.11175	275.23160	275.49086	277.30130	277.95806
280.60482	281.23720	282.21767	283.69862	285.28091	286.77639
289.06383	290.22176	290.72386	292.73709	293.21669	293.51795
294.82395	295.76387	296.40699	297.47918	297.88750	298.09717
299.02400	299.54635	300.57987	301.04846	302.02365	302.59468
302.75131	304.58695	306.16438	306.39084	309.43665	310.38363
311.61592	312.46185	312.73268	313.66327	314.01609	315.37321
315.85691	316.58528	316.82148	317.08103	317.52216	317.64629
317.90698	318.27204	318.30906	318.70975	320.00341	320.12747
321.12913	321.84703	322.02147	323.22741	323.60496	324.54073
324.79866	325.76682	326.30961	326.64061	327.38959	327.70083
327.92319	328.31955	329.69969	330.32005	330.69848	331.07719
331.59132	332.44824	332.67570	333.01623	333.55767	333.90629
334.21395	335.09950	337.74057	338.29597	339.49339	341.62956
342.92777	344.22510	345.82520	346.30069	346.38154	346.44280
347.25276	347.75262	349.02416	349.68701	350.48413	351.37212
353.32693	353.71150	354.14000	355.42350	356.31830	357.22290
358.13290	358.97477	360.69251	362.74853	363.42753	365.02955
365.20537	365.81092	366.62563	367.66225	369.26497	371.20207
380.72137	381.64656	382.40410	384.17686	385.11833	387.78777
390.80295	392.70698	393.43683	393.55708	393.96325	396.08091
396.60212	397.13728	397.20911	397.37951	398.61360	399.77624

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400.08963	401.08591	401.90341	402.37006	402.97881	403.45289
403.61886	403.80627	405.05478	406.35533	406.66093	406.71015
408.84199	409.29515	410.34616	410.83731	415.17495	416.41443
418.45514	420.06317	421.00383	421.24595	422.42151	423.57832
432.76068	436.35032	438.20434	439.64956	440.50564	440.83150
441.67177	442.55272	442.96852	449.48371	452.07346	459.50466
460.70294	461.84827	462.39631	465.57834	466.64340	467.15168
468.16001	472.25425	472.96340	474.12316	476.52863	478.16616
479.77818	481.58032	482.52574	483.21599	484.59280	486.82807
487.81940	488.34886	488.86128	489.12874	489.89801	490.21311
490.94186	491.46445	492.56513	493.50149	495.13759	495.31812
495.49909	495.91510	496.11839	496.41952	496.48949	496.77495
496.91040	497.45895	497.68679	497.92090	498.37209	498.53779
498.57196	499.15326	499.30124	500.14244	500.65101	501.65672
502.17729	503.14713	504.66141	505.85132	508.33588	509.68663
511.00190	511.93798	513.91695	517.72171	518.97879	519.08563
519.21898	519.67165	521.54211	522.87451	523.39174	524.58210
527.53297	528.66998	540.34027	541.46389	543.53986	547.46560
548.13178	551.81328	554.77002	560.76325	564.12124	582.25981
583.26212	583.34227	584.96511	590.73661	597.07318	601.81198
604.48066	608.00451	620.59610	627.34379	630.14431	632.19126
633.00983	639.37142	642.39390	643.63066	653.45495	656.61865
660.33864	663.90138	664.77407	665.39027	666.01706	666.32156
667.21620	667.49043	667.94399	668.40124	670.12414	677.54178
685.44733	687.77427	688.48169	688.81546	693.94362	696.58006
697.78675	698.19160	699.73753	700.79347	702.10874	704.55533
708.88153	713.82947	717.23707	718.55583	720.59019	722.53139
723.16127	724.02890	731.12620	733.75983	736.95795	738.21165
742.96264	743.95881	754.91690	760.82564	763.90057	765.42495
770.04672	779.05179	781.49071	784.74216	789.84096	790.30115
791.99327	793.22854	795.24775	796.13321	807.77733	816.62961
820.18506	820.66224	822.05558	824.07563	831.34096	839.91428
843.83859	850.56697	855.56735	858.07166	867.37032	867.78499
868.38598	869.09866	870.05494	870.25173	870.42455	870.68661
870.95721	871.20126	871.71995	873.68062	873.86383	875.46043
875.94234	876.28845	877.37641	878.24763	879.73314	880.13488
880.48841	880.90828	882.11448	882.60601	883.08495	883.62288
884.97229	885.15104	885.66827	886.52519	886.87756	888.05834
888.53281	889.35108	889.91058	892.08930	892.26864	893.09834
893.53226	893.73619	894.33954	895.64003	896.08013	896.77263
897.38062	897.96135	898.82033	899.04054	900.13704	900.47386
900.56579	901.09444	901.56429	902.27326	902.89446	903.93560
904.93915	906.47945	907.84987	908.40603	909.31318	911.07009
911.37663	912.23098	913.49139	913.90964	914.44295	915.05923
915.21074	915.60824	916.18392	917.25074	917.74033	918.92791
920.47358	921.39321	921.79736	922.64906	922.78958	923.42903
924.78891	925.39835	926.96767	929.25441	929.60423	931.22512
936.66371	938.64121	939.79942	945.29762	949.51985	956.58107
968.48971	987.25222	1034.83379	1037.64546	1041.06143	1050.83630
1051.42184	1052.99201	1053.32181	1053.37106	1054.07039	1054.20872
1054.96014	1055.57500	1055.73869	1056.23971	1056.65621	1057.28280
1057.61100	1057.98717	1058.13507	1058.63975	1059.04521	1059.24788
1059.54389	1059.92865	1060.65005	1061.03666	1061.18690	1061.23757
1061.92595	1062.38202	1063.53330	1063.60691	1064.35834	1064.65521
1065.01446	1065.31034	1065.46823	1065.57684	1065.66960	1065.97368
1066.02765	1066.27139	1066.43639	1066.64155	1066.77606	1066.81265
1067.35863	1067.41254	1067.80171	1067.94702	1068.71872	1069.17065
1069.47859	1070.17175	1070.35428	1070.60735	1070.72477	1070.95274
1071.10023	1071.51815	1071.83162	1072.09501	1072.35358	1072.46409
1072.63939	1072.83724	1073.14433	1073.57017	1073.87650	1073.97165
1074.09960	1074.56915	1074.69022	1075.16883	1075.43799	1075.81980
1075.90493	1076.09872	1076.62855	1076.99213	1077.24519	1077.42040
1077.52452	1077.70895	1078.21566	1078.64935	1078.83499	1078.92514
1079.09765	1079.38777	1079.75091	1079.98649	1080.23162	1080.60052
1080.87294	1081.94594	1089.85366	1114.04711	1121.51240	1128.16356
1130.50042	1133.93838	1142.01519	1144.75425	1147.41982	1148.69651
1149.01545	1150.37548	1150.62524	1151.36871	1151.52593	1153.89535

1156.25014	1157.52094	1159.04581	1163.83578	1164.78113	1165.78986
1166.70417	1167.50094	1167.85552	1169.89058	1172.44726	1172.73378
1174.04864	1177.61073	1178.69188	1180.24015	1182.07396	1182.43452
1182.67277	1183.16630	1183.59596	1184.35105	1184.40278	1185.58681
1186.26793	1186.43841	1188.27493	1189.20245	1190.15807	1190.55257
1190.93669	1191.45566	1191.80756	1192.43334	1192.63625	1193.13585
1194.31374	1195.02763	1195.98990	1196.41837	1196.80115	1197.80976
1198.29672	1198.85139	1199.19774	1199.73328	1199.98125	1200.81298
1203.72574	1204.52397	1205.35188	1205.60556	1206.10730	1207.31998
1207.84846	1208.22782	1208.72520	1208.86321	1209.38351	1209.53808
1209.66442	1209.80898	1210.28355	1210.41544	1210.69927	1211.03205
1211.42417	1212.19914	1212.66998	1213.07228	1213.40678	1213.75998
1214.99732	1216.04740	1216.30218	1216.85916	1217.75334	1218.37126
1218.91756	1219.28388	1223.76290	1228.76131	1239.20855	1317.60089
1388.56046	1430.37628	1452.86607	1472.70221	1694.18679	3015.98964
3083.27313	3115.42639	3116.63293	3153.58985	3204.63694	3208.39995

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-10.01985	0.00000	0.00000	0.00000	10.85513	27.83346
28.08957	34.79466	37.42184	40.00548	40.45608	41.44109
42.63896	47.17765	49.92432	50.88195	51.19042	52.36345
53.27967	53.83369	55.21863	55.64790	57.08612	60.56587
62.93855	63.28369	63.56572	63.91105	64.03869	64.39260
64.72799	65.65439	65.99966	66.22770	67.54008	68.16671
68.74146	70.23869	70.55537	71.72769	72.49332	73.06515
77.96278	80.99184	81.60283	82.18267	82.58407	83.20890
83.60244	84.52678	85.21712	85.78395	87.34683	89.25473
90.21720	90.54486	90.82574	91.24514	92.08791	92.51465
93.06900	93.39111	95.35985	96.06544	98.15228	99.06827
99.52500	100.12885	101.10764	101.78802	102.29006	103.02320
104.00198	104.78021	105.21038	105.57331	105.86222	106.40282
107.50745	107.68876	109.56779	110.01415	110.55100	110.89983
111.17854	111.55993	112.00608	112.51887	112.80830	113.29962
113.54611	113.58584	114.04176	114.27207	115.25509	116.06561
116.38712	117.14670	117.83215	118.62841	119.04771	119.27748
120.78889	122.38122	122.77936	123.19566	123.65578	124.92234
125.52012	126.51405	127.67473	128.44490	130.87769	131.66209
133.90616	134.26941	134.78854	134.89406	135.43642	135.82146
135.92281	136.50740	136.64635	139.12364	139.91266	140.53181
142.43606	142.92602	143.78037	144.72674	145.06962	146.27105
146.78611	149.60222	152.35248	152.97526	153.57446	153.86873
154.33405	154.59156	155.16412	155.28649	155.90960	156.22993
158.37980	159.44190	159.76306	160.25477	160.69006	160.76758
161.27034	161.54692	162.03145	162.73992	163.09759	163.60259
163.92073	165.04606	165.27982	165.58817	165.87169	166.76229
169.60788	169.83060	171.22396	172.38966	172.95054	173.13543
173.25845	174.98217	175.60180	175.88846	176.84351	176.85846
177.33422	179.96200	183.88090	185.14718	185.36107	189.61836
189.79575	190.70660	191.65642	192.59019	194.94418	196.95073
197.48013	197.98693	198.54153	199.25255	205.76223	210.66562
213.16466	214.00924	214.39506	214.81556	214.99185	215.36351
219.87456	222.28532	224.28649	224.58504	224.97554	227.42360
228.72599	230.68817	234.16839	234.87562	235.44325	236.64358
236.81519	237.16387	237.85004	238.15156	238.26407	240.63322
241.83687	242.67481	242.74937	243.66131	243.92665	244.16153
244.56083	245.38203	245.62545	246.89441	247.71851	248.58574
249.34795	249.71858	250.19948	250.62760	251.13153	251.30920
252.03560	252.34123	253.26835	253.47460	254.23045	254.79736
255.97173	256.68348	256.94832	257.14747	258.27774	259.47488
259.87611	260.26905	260.54104	260.71608	261.02610	262.31482
262.84738	265.83142	266.52738	267.08986	267.23822	267.58348
268.44280	268.69548	269.16202	269.47943	269.60372	270.62056
271.61707	273.68482	274.05878	275.33719	275.47557	277.42162
277.92678	280.51234	281.11761	282.16628	283.65593	285.22339
286.68674	288.99927	290.24385	290.53409	292.72019	293.22316
293.46823	294.62276	295.79381	296.45494	297.50421	297.87533
298.09262	299.04545	299.56275	300.60282	301.02038	301.97735
302.51601	302.65282	304.49241	305.94361	306.40722	309.46591
310.27395	311.58714	312.49203	312.73699	313.65311	314.14863
315.33416	315.84117	316.65350	316.85050	317.03758	317.52430
317.61880	317.87767	318.16486	318.31159	318.77749	319.94555
320.15104	321.12107	321.80349	322.01300	322.55246	323.23825
323.49459	324.67684	324.78249	325.75895	326.30897	326.66536
327.35410	327.72414	327.92143	328.31155	329.60709	330.33131
330.71798	331.08865	331.66092	332.44424	332.67911	333.07825
333.55319	333.89044	334.30962	335.11817	337.75144	338.39157
339.53509	341.60937	342.92349	344.16281	345.74700	346.27195
346.31846	346.43556	347.28341	347.67110	349.00099	349.66659
350.54356	351.29900	353.30896	353.72250	354.12434	355.42180
356.36059	357.16162	358.15156	358.79857	360.66030	362.72899
363.40015	365.05059	365.17905	365.78049	366.56618	367.71925
369.20784	371.15158	380.54462	381.68646	382.35307	384.11640
385.09996	387.70291	390.83783	392.58745	393.32182	393.54845
393.92026	396.04678	396.57636	397.05039	397.14009	397.39492

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398.70805	399.68901	400.12689	401.08559	401.95140	402.39524
402.97422	403.41738	403.69077	403.78673	405.07663	406.34872
406.59379	406.73485	408.83260	409.31794	410.29163	410.88732
415.14057	416.45393	418.47305	420.06211	421.00022	421.23045
422.47640	432.65444	436.24386	438.16383	439.61896	439.99137
440.49463	440.78907	441.63363	442.57775	442.94958	449.42632
452.13937	459.08814	460.53159	461.68243	462.32133	465.56874
466.65147	467.12654	468.29165	472.25905	472.95030	474.06802
476.43404	478.16910	479.66644	481.58934	482.44770	483.15588
484.51448	486.80059	487.78513	488.29597	488.78933	489.10852
489.80699	490.15508	490.93854	491.38888	492.56325	493.47641
495.11229	495.22826	495.55470	495.93213	496.07734	496.33870
496.53917	496.75675	496.85172	497.48274	497.68591	497.89982
498.35746	498.47169	498.57323	499.12168	499.27911	500.06694
500.61906	501.68955	502.13460	503.15699	504.63316	505.80617
508.33315	509.69464	510.95706	511.90936	513.93513	517.52440
518.95238	519.08225	519.20499	519.68550	521.58112	522.91965
523.37683	524.56294	527.54017	528.74052	540.30674	541.47952
543.52922	547.44776	548.01865	551.76566	554.65112	560.81791
563.95832	582.06685	583.21401	583.41352	584.90674	595.40037
599.20706	604.42199	606.38517	618.55701	621.80021	627.55261
629.95061	632.18524	633.16152	639.42070	642.40653	643.55842
654.19291	656.54659	660.76934	664.40980	664.89060	665.51423
666.25958	666.70133	667.44342	667.54850	668.15987	670.06631
674.98580	681.01274	685.40373	687.98315	688.46729	688.90306
693.92643	696.49827	697.80741	698.15097	699.85245	700.74670
702.10120	704.37364	708.99641	713.89346	717.29148	718.63400
720.52014	722.52317	723.21019	723.94107	731.53693	733.89387
736.75412	738.19630	742.95254	743.91787	754.21625	760.96237
763.87566	765.45891	770.04573	779.11557	781.50166	784.72255
789.76965	790.40060	792.17625	793.13682	795.19281	795.40829
796.15234	806.94025	816.38166	820.27929	820.65524	822.37926
824.03152	831.46434	839.19499	844.53797	850.24740	855.55667
857.94294	859.86632	867.41033	867.79548	868.30646	869.11242
870.05587	870.23347	870.45267	870.67372	870.96961	871.20681
871.82994	873.66665	873.83577	875.46675	876.02408	876.28950
877.43011	878.27700	879.62617	880.24303	880.48018	880.90407
882.08561	882.60401	883.09174	883.61403	884.98631	885.19568
885.63163	886.52439	886.87385	888.11173	888.52953	889.36990
889.97376	892.00622	892.26333	893.09108	893.53846	893.76050
894.29075	895.59384	896.06476	896.71890	897.46666	897.99193
898.82600	899.02021	900.11134	900.48982	900.54190	901.13595
901.55835	902.37119	902.91897	904.02788	904.94282	906.49306
907.83712	908.42367	909.41738	911.03672	911.36276	912.30994
913.48569	913.91449	914.55240	915.03953	915.20901	915.55520
916.22514	917.26720	917.78474	918.97958	920.49997	921.42094
921.81014	922.71015	923.06152	924.64403	925.38509	927.02932
929.26436	929.60945	931.21204	936.69389	938.66603	944.93005
949.53040	956.52467	968.56826	987.26245	989.62681	1033.37382
1036.68552	1041.13776	1049.82142	1050.44786	1051.33852	1052.94291
1053.30719	1053.36771	1054.05521	1054.16922	1054.82602	1055.72583
1055.76721	1056.29197	1056.64191	1057.35343	1057.70368	1058.12406
1058.24238	1058.71067	1059.11609	1059.29372	1059.52093	1059.93374
1060.64656	1061.02870	1061.13026	1061.27961	1061.93733	1062.56470
1063.57793	1063.63907	1064.30584	1064.72915	1065.03339	1065.24852
1065.42939	1065.62359	1065.68609	1065.98049	1066.09582	1066.25092
1066.48870	1066.73472	1066.78400	1066.81456	1067.31932	1067.40451
1067.86508	1068.02486	1068.75877	1069.22295	1069.45681	1070.17954
1070.36232	1070.66651	1070.71026	1070.92342	1071.22707	1071.59558
1071.76620	1072.12018	1072.33773	1072.54384	1072.76933	1073.16563
1073.53765	1073.85460	1073.95081	1074.12290	1074.56288	1074.70056
1075.22380	1075.41259	1075.79536	1076.02104	1076.19993	1076.65320
1076.99153	1077.25238	1077.43146	1077.55494	1077.73937	1078.22625
1078.64827	1078.87339	1078.92777	1079.11860	1079.34126	1079.74006
1080.01676	1080.26410	1080.64753	1080.88820	1082.12737	1089.63022
1093.61326	1114.13752	1121.72988	1129.19207	1130.55888	1133.66363
1142.10517	1144.77519	1147.45106	1148.71254	1149.09234	1150.35591

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1150.65606	1151.37527	1151.50805	1154.18704	1156.25568	1157.71521
1159.01878	1164.33259	1164.98920	1166.14830	1166.70684	1167.61198
1168.94362	1169.91982	1172.67331	1172.83525	1174.45551	1178.51961
1179.18336	1180.74464	1182.05134	1182.43376	1182.80448	1183.29979
1183.75526	1184.34389	1184.39627	1185.60315	1186.32089	1186.55914
1188.69854	1189.36930	1190.51499	1190.74875	1191.46358	1191.79856
1192.43277	1192.64406	1193.25716	1194.06850	1194.44398	1195.07989
1196.18938	1196.72256	1196.88329	1197.84261	1198.32387	1198.93594
1199.24590	1199.99919	1200.09717	1201.41297	1203.74531	1204.53775
1205.36891	1205.62583	1206.15340	1207.29051	1207.90221	1208.24978
1208.78517	1208.91165	1209.37555	1209.61345	1209.69552	1209.81521
1210.33199	1210.66835	1210.73955	1211.04624	1211.43580	1212.17078
1212.71749	1213.13877	1213.51983	1213.99381	1215.13806	1216.05406
1216.28938	1216.96154	1217.95607	1218.45124	1219.19449	1219.31798
1223.76209	1229.02059	1239.08129	1277.31860	1319.94036	1338.79817
1406.79454	1439.48777	1456.62201	1478.14881	1484.88529	1691.34713
2989.07175	3032.04359	3035.72895	3105.96820	3115.83465	3131.01507
3142.08850	3208.69005	3220.83462			

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0.00000	0.00000	0.00000	17.94295	27.33308	28.04029
28.27113	35.14680	38.03192	40.14760	40.47142	41.54820
42.65290	48.98252	51.03758	51.13104	51.62596	52.38791
53.63554	54.28504	55.79397	56.61018	60.59953	62.80143
63.25330	63.49660	63.77538	63.96912	64.14666	64.73871
65.65228	66.01123	66.27215	67.46272	68.08669	68.77132
70.20525	70.60416	71.66633	72.25695	73.25576	77.66185
80.98695	81.37552	81.68139	82.08663	82.63696	83.33906
83.92375	84.76592	85.38312	85.99113	87.00713	89.28532
90.25588	90.81732	91.25719	91.59556	92.12448	92.62038
93.09322	93.14653	93.34689	96.01913	96.75793	99.29012
99.56809	100.00296	100.50235	101.54731	102.40670	102.61794
103.78013	104.84227	105.06407	105.59346	105.99693	106.18970
107.31351	107.53560	109.51067	109.96356	110.51103	110.93912
110.97401	111.33229	112.00835	112.48057	112.67210	113.30387
113.47840	113.65946	113.83882	114.23363	115.28408	116.09354
116.40590	116.92879	117.96745	118.39735	118.86855	119.33599
119.43923	122.33982	122.46272	123.25608	123.49851	123.72806
124.93442	125.54795	126.77756	127.77688	128.59308	130.98730
131.25576	133.94268	134.32020	134.73678	134.89627	135.43890
135.80277	135.94697	136.51669	136.72557	138.13226	140.03759
140.50645	142.42640	143.05623	143.89096	144.50650	145.10211
146.22569	146.64828	149.30305	152.54169	152.90992	153.55102
153.79807	154.27262	154.57159	154.96729	155.21175	155.40757
156.22396	158.41343	158.85595	159.73920	160.27905	160.57644
160.76923	161.18021	161.49561	161.97702	162.43480	163.33759
163.64509	163.93934	165.01774	165.44617	165.64285	166.09960
166.67119	169.69385	169.93583	171.27098	172.47551	172.84392
173.10218	173.57520	174.97285	175.79967	176.02377	176.91054
177.00610	177.47337	179.83490	184.10955	185.20235	185.32821
189.62012	189.92490	190.71770	191.64276	192.55236	194.90759
197.01334	197.39090	198.09770	198.51458	199.35217	205.74699
210.76168	213.30305	213.94147	214.31901	214.85164	215.01849
215.40118	220.07850	222.03735	224.41054	224.53388	224.97168
225.61629	227.49843	229.01729	230.68269	234.19053	234.95925
235.50866	236.77125	237.02228	237.46378	238.21660	238.49983
240.69589	241.85472	242.73523	242.78710	243.75219	243.93841
244.15575	244.58545	245.38533	245.96740	246.98042	247.75967
248.63508	249.37886	249.83226	250.32020	250.73151	251.13890
251.36873	252.18461	252.56824	253.41439	253.46713	254.46668
254.85945	256.10487	256.83105	256.95885	257.23247	258.76040
259.56578	259.86448	260.37781	260.59578	260.84520	261.16425
262.43650	262.96648	264.08859	265.84144	266.58089	267.09030
267.31938	267.74806	268.46139	268.76450	269.20661	269.62743
269.98878	270.91344	271.62073	273.70358	274.35361	275.49353
275.85353	277.61668	278.16486	280.65567	281.13595	282.07187
283.71838	285.18091	287.02660	289.10863	290.47733	290.92701
292.74770	293.25121	293.56162	294.75190	295.93570	296.56248
297.47027	297.87676	298.11971	299.09844	299.74122	300.66265
301.27274	301.92628	302.38396	302.72378	304.44290	305.78948
306.46238	309.57830	310.26705	311.61552	312.49586	312.78438
313.59353	314.23322	315.45065	315.82059	316.73908	317.03135
317.13436	317.51933	317.62567	317.84836	318.20433	318.35996
318.84114	320.04255	320.25104	321.13081	321.74816	322.08850
323.08516	323.58518	324.75455	324.79965	325.82239	326.29649
326.65855	327.35110	327.76533	327.98454	328.31670	329.76025
330.36663	330.75685	331.18557	331.69659	332.34268	332.88491
333.25292	333.62825	333.93007	334.53400	335.25767	337.78175
338.66571	339.51475	341.60196	342.89396	344.18540	345.72874
346.25726	346.39466	346.44437	347.42195	347.62090	348.98758
349.74941	350.56649	351.24991	353.35652	353.75796	354.13340
355.30909	356.49903	357.18714	358.14736	358.83923	360.67936
362.74884	363.47900	365.05554	365.18914	365.82391	366.47107
367.74566	369.18765	371.15396	380.26781	381.72195	382.39559
384.06121	385.03508	387.61132	390.87350	392.41135	393.21688
393.58248	393.87543	395.86025	396.53712	396.99721	397.09627

397.33580	397.85299	398.67556	399.54839	400.15570	401.09707
401.99219	402.32657	402.95574	403.43773	403.58906	403.78470
405.24674	406.37358	406.73591	406.74372	408.85765	409.36348
410.23184	411.00962	415.06560	416.44428	418.48234	420.09197
421.01380	421.25049	422.40689	432.82467	435.07702	436.12252
438.18233	439.65652	440.43955	440.84756	441.64311	442.66725
442.95501	449.51485	452.16493	458.77762	460.58114	461.72191
462.46710	465.62904	466.66684	467.15640	468.55637	472.29988
472.94005	474.37764	476.36424	478.18210	479.73702	481.53333
482.58122	483.16206	484.28822	486.75294	487.79510	488.22380
488.73468	489.15106	489.80197	490.11536	490.97673	491.32354
492.59287	493.24856	495.09039	495.25960	495.54887	495.91553
496.06804	496.30526	496.56120	496.71343	496.83702	497.47229
497.68019	497.91144	498.36338	498.52075	498.60110	499.09764
499.24488	500.08196	500.65240	501.69332	502.15271	503.21022
504.68917	505.90108	508.31122	509.75946	510.98340	511.95653
513.93097	517.52549	518.97674	519.06099	519.18966	519.77486
521.52571	522.97877	523.37122	524.58330	527.48229	528.77030
540.47007	541.48803	543.39602	547.45250	547.95034	551.82511
554.70667	560.86064	564.42778	581.76533	583.20845	583.69057
584.85913	595.32856	599.81670	604.41519	606.54582	619.70362
624.03348	627.61256	630.00586	632.21890	633.12988	639.48369
642.40271	643.39314	653.50243	656.31968	660.08908	664.30034
664.65938	665.44567	666.16768	666.56115	667.25686	667.55267
667.93385	669.61685	670.33058	680.42012	685.70922	688.00217
688.48856	688.95553	694.10749	696.71262	697.76662	698.21369
699.83850	700.94867	702.08672	704.57176	709.08968	713.88552
717.47837	718.57349	720.76202	722.45639	723.26336	723.86303
731.84859	733.79830	736.59138	738.21724	742.88028	743.95201
753.59593	756.50085	761.12444	763.69426	765.51336	770.13090
779.29866	780.77242	784.44206	789.48027	790.33831	792.11993
793.07136	795.08056	796.10959	804.96849	816.06775	819.91664
820.58197	821.80128	824.80383	831.45632	838.47210	845.00617
849.89513	855.59393	857.74631	867.35299	867.72240	868.28583
869.07094	870.02776	870.17154	870.46801	870.67571	870.91433
871.19302	871.79782	873.64478	873.86630	874.76734	875.54843
876.27886	876.35930	877.41806	878.32716	879.63911	880.17533
880.56353	880.86738	881.98322	882.54910	883.10637	883.55551
884.62918	885.19570	885.53222	886.26635	886.56222	887.13813
888.24044	888.48684	889.33021	890.10548	892.04697	892.33641
893.06134	893.57449	893.80297	894.29680	895.62042	896.04572
896.74915	897.49574	897.95995	898.90902	899.07892	900.01311
900.48836	900.52882	901.15828	901.53652	902.47787	903.00275
904.13989	904.99918	906.50794	907.81071	908.29864	909.39644
910.99429	911.33416	912.32250	913.46255	913.87792	914.65449
915.05800	915.17511	915.42042	916.29889	917.29266	917.89499
918.95665	920.55581	921.37574	921.77391	922.69613	923.06966
924.74531	925.34026	927.15861	928.69324	929.59707	929.69599
931.18480	936.75610	938.70369	949.50976	956.04538	957.14054
968.52860	987.24126	1032.71788	1035.16024	1041.46119	1048.81858
1050.02452	1051.26756	1052.79108	1053.23224	1053.31537	1053.98602
1054.08632	1054.63647	1055.64371	1055.67984	1056.21494	1056.57300
1057.22966	1057.64564	1057.90791	1058.17566	1058.66850	1059.13974
1059.30802	1059.46726	1059.89762	1060.60768	1060.90187	1061.02432
1061.22991	1061.88427	1062.63513	1063.51437	1063.60752	1064.22608
1064.75794	1065.00571	1065.13053	1065.37133	1065.54082	1065.67753
1065.96106	1066.01634	1066.19664	1066.51117	1066.73428	1066.78079
1066.80685	1067.25234	1067.38899	1067.89597	1067.98962	1068.03058
1068.80410	1069.43395	1069.52003	1070.13427	1070.34689	1070.68607
1070.84370	1071.02720	1071.24483	1071.69920	1071.83099	1072.10015
1072.39479	1072.55468	1072.79753	1073.15229	1073.56999	1073.80413
1073.88935	1074.12283	1074.51721	1074.66305	1075.16163	1075.32371
1075.77058	1076.05791	1076.25467	1076.59147	1076.88287	1077.19362
1077.39637	1077.58245	1077.70257	1078.19298	1078.57649	1078.83400
1078.86089	1079.09328	1079.26469	1079.70230	1080.05571	1080.21546
1080.61917	1081.26889	1082.13726	1092.02922	1111.92863	1113.98254
1121.48394	1128.60378	1130.52871	1133.26505	1142.15224	1144.72908

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1147.43482	1148.61068	1149.05787	1150.31408	1150.67395	1151.34866
1151.46908	1154.00730	1156.18227	1157.48750	1159.01255	1164.32269
1165.07769	1166.10971	1166.52552	1167.57829	1168.51731	1169.87064
1172.55228	1172.81380	1174.33113	1178.37680	1179.02588	1179.93258
1182.03096	1182.39685	1182.73090	1183.11666	1183.73670	1184.28279
1184.41421	1185.58110	1186.04215	1186.54380	1187.19782	1188.59813
1188.94291	1190.39571	1190.55289	1191.43993	1191.80903	1192.41526
1192.53670	1193.31150	1194.27470	1195.05168	1196.22567	1196.53638
1196.78392	1197.82727	1198.33909	1198.91933	1199.20002	1199.97396
1200.02901	1201.14070	1203.61630	1204.57321	1205.38654	1205.58220
1206.20118	1207.25326	1207.73837	1208.36308	1208.74844	1208.94971
1209.33846	1209.59908	1209.71451	1209.79100	1210.30539	1210.59355
1210.74963	1211.01867	1211.47166	1212.13772	1212.75376	1213.01504
1213.45580	1214.04823	1215.14308	1216.03910	1216.32162	1217.01499
1218.01652	1218.38966	1219.14056	1219.25636	1223.71942	1228.99905
1237.21676	1255.87264	1287.46742	1324.53655	1332.00995	1386.55809
1406.48726	1438.55066	1452.83975	1473.22619	1478.12097	1487.47687
1687.49266	2967.64080	3006.09646	3022.46710	3037.11745	3062.72300
3105.70593	3112.56437	3116.29132	3139.49046	3204.11972	3239.96234

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0.00000	0.00000	0.00000	13.24349	18.65984	27.63015
28.04787	32.58662	38.27914	40.10701	40.27987	41.35521
42.62387	47.57064	49.53735	51.06923	51.17229	52.00635
52.62540	53.52009	55.39068	55.67807	59.38035	61.37900
62.84220	63.35955	63.55850	63.79430	64.06199	64.64517
64.80204	65.74788	65.93371	66.49607	67.41715	68.67464
68.92291	70.07375	70.53489	71.67529	72.55272	73.29478
77.65678	81.00615	81.08892	81.65811	82.34681	83.21826
83.59813	84.22170	84.82514	85.43368	86.26789	87.28573
89.29660	90.23850	90.82453	91.26389	91.76225	92.17338
92.96301	93.11668	93.45315	95.53405	96.06862	97.67784
99.38557	99.69522	100.18160	100.82104	101.55284	102.32659
102.85892	103.77982	104.84213	105.20327	105.55380	106.22468
106.25736	107.29422	107.54012	109.59716	110.01871	110.56537
110.91030	111.23609	111.40009	112.10513	112.48956	112.72920
113.32964	113.58671	113.70223	113.86111	114.21158	115.24813
116.04163	116.49042	117.05563	117.96992	118.73796	119.08444
119.34915	120.49425	122.41988	122.87112	123.25380	123.67524
124.96797	125.59788	126.52770	127.65270	128.21494	128.50392
131.17108	131.56182	133.75739	134.25172	134.73711	134.90245
135.44360	135.82698	135.90892	136.51415	136.68951	137.15162
139.88269	140.36819	141.86728	142.58908	143.26319	143.89612
144.78732	145.16456	146.31777	147.24021	150.16369	152.51376
153.06534	153.86504	153.96671	154.37805	154.65041	155.18332
155.39109	155.91617	156.28792	158.42582	159.65698	160.28592
160.49396	160.70791	161.14849	161.52499	162.03938	162.33825
163.05407	163.45138	163.88198	164.96844	165.19133	165.47665
165.89424	166.23193	169.58217	169.79054	171.09460	172.36759
172.92151	173.11329	173.33736	174.93833	175.59784	175.93964
176.86269	176.91089	177.32463	179.96059	183.90745	185.12450
185.34197	189.63659	189.87341	190.73031	191.56197	192.57345
194.92856	196.97842	197.43326	198.02405	198.45341	199.14438
200.99933	205.79844	210.76431	213.20955	214.07106	214.46885
214.86711	214.99881	215.40536	220.04395	222.27821	224.36622
224.58793	224.99684	227.48708	228.80950	230.72176	234.20839
234.94979	235.44221	236.79230	237.02906	237.23992	238.14790
238.24784	240.64812	241.88879	242.69229	242.75522	243.71958
243.94022	244.18043	244.58906	245.39537	245.71022	246.94646
247.71382	248.65506	249.41811	249.75004	250.24023	250.64556
251.15814	251.30840	252.16642	252.33263	253.33865	253.51496
254.26068	254.83780	256.03017	256.70694	256.95317	257.17455
257.87999	258.43484	259.48926	259.93707	260.33454	260.56713
260.82858	261.16750	262.31240	262.96829	265.88735	266.54514
267.10291	267.24497	267.69830	268.43542	268.69590	269.18986
269.55250	269.64487	270.75929	271.65950	273.71616	274.12345
275.41446	275.49232	277.47189	277.98212	280.61306	281.14814
282.16349	283.70691	285.24163	286.84179	289.11399	290.27556
290.68199	292.73649	293.22687	293.58816	294.75630	295.80540
296.45922	297.50504	297.90649	298.11349	299.01969	299.61786
300.64872	301.13323	301.95466	302.53142	302.68898	304.51710
305.93633	306.40928	309.50849	310.28730	311.61127	312.47580
312.74432	313.64987	314.15117	315.43993	315.81841	316.65278
316.88256	317.04976	317.51584	317.61893	317.87128	318.19665
318.33879	318.76372	319.99671	320.23641	321.13291	321.81588
322.05916	323.12533	323.56122	324.62856	324.79846	325.77730
326.35070	326.63565	327.37134	327.71275	328.01011	328.31314
329.71363	330.35488	330.74192	331.13211	331.65152	332.44089
332.76079	333.04078	333.58054	333.88816	334.34387	335.15329
337.75415	338.36050	339.52267	341.58864	342.87788	344.14505
345.75117	346.26898	346.33855	346.44550	347.29736	347.68052
348.98776	349.64885	350.50985	351.30406	353.18669	353.64140
353.71133	354.16350	355.41147	356.34257	357.18280	358.15737
358.84896	360.61159	362.18302	362.91179	363.44357	365.05981
365.16786	365.79961	366.56483	367.68689	369.24195	371.13683
380.52042	381.70347	382.34373	384.13196	385.08588	387.70436
390.84145	392.61064	393.32861	393.56903	393.93625	396.04267

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396.55488	397.06085	397.15677	397.40187	398.68943	399.66163
400.15207	401.06514	401.96773	402.39874	402.97824	403.44452
403.64588	403.78460	405.14284	406.33885	406.60994	406.73878
408.85936	409.32342	410.28163	410.90246	415.17016	416.39812
418.45767	420.06800	421.00761	421.22999	422.38117	432.72940
436.24912	438.18007	439.64419	440.49173	440.78579	441.64122
442.58719	442.96596	449.49459	452.10560	458.99997	460.57299
460.93615	461.72614	462.46330	465.59456	466.65442	467.15457
468.40289	472.27312	472.95199	474.22219	476.44620	478.16981
479.77131	481.56045	482.48869	483.18247	484.47785	486.83022
487.80852	488.29200	488.86849	489.10031	489.88967	490.15976
490.94200	491.45044	492.54915	493.42997	495.10930	495.26813
495.53532	495.93507	496.10103	496.36112	496.54515	496.77548
496.87422	497.49471	497.68005	497.94362	498.36162	498.50627
498.58276	499.16162	499.29027	500.15875	500.62311	501.70543
502.24758	503.18313	504.66160	505.87578	508.33692	509.78588
511.04337	511.91542	513.96765	517.57855	518.96901	519.07425
519.20483	519.75671	521.56468	522.92938	523.39616	524.59879
527.53321	528.72191	540.29178	541.43608	543.53567	547.45764
548.03170	551.80200	554.72781	560.80068	563.92906	582.12574
583.20102	583.52059	584.90695	595.50181	599.23348	604.40863
606.39875	618.31277	621.58249	627.52089	629.98523	632.13739
633.16731	639.40424	642.37111	643.51125	654.23505	656.41677
660.84193	664.41281	664.92928	665.52585	666.22235	666.73358
667.46944	667.57172	668.24159	670.07502	675.71459	684.35013
686.32570	688.08452	688.48114	688.88492	693.98737	696.60811
697.78588	698.15553	699.83987	700.79932	702.08699	704.44407
708.98133	713.79417	717.32542	718.57822	720.55810	722.49996
723.21047	723.91153	731.44550	733.81770	736.70434	738.20127
742.22858	742.93813	744.08904	754.31405	760.95275	763.81400
765.54224	770.04469	779.05692	781.22586	784.73208	789.73332
790.35334	791.99394	793.14592	795.17679	796.12655	800.80164
806.38835	816.33659	820.13057	820.64209	822.16395	823.93522
831.38841	839.15118	844.76279	850.13368	855.54357	857.87186
867.43510	867.83677	868.31782	869.09120	870.03562	870.32277
870.47643	870.67428	870.98253	871.18487	871.78078	873.64975
873.84764	875.45867	876.00275	876.30639	877.39900	878.34014
879.63159	880.21092	880.51187	880.88440	882.11322	882.61516
883.10125	883.59151	884.97747	885.21744	885.63653	886.51410
886.86079	888.15079	888.48680	889.39619	889.96648	891.98740
892.23738	893.07516	893.53780	893.75605	894.27863	895.62890
896.05686	896.70788	897.51497	897.99668	898.80004	899.07432
900.07491	900.46070	900.51298	901.08784	901.24690	901.53166
902.35241	902.91793	904.01049	904.94625	906.48209	907.82445
908.44198	909.40423	911.03349	911.36831	912.31192	913.48559
913.92026	914.53624	915.03672	915.21113	915.53566	916.23683
917.26347	917.77440	918.95825	920.48819	921.40031	921.81302
922.70015	923.02242	924.62799	925.26534	925.77463	927.07094
929.26066	929.59476	931.20599	936.64904	938.65602	939.73103
943.98491	949.52254	956.59745	968.54544	987.27239	1026.74787
1036.40023	1041.02534	1041.99841	1050.53643	1051.33139	1052.91645
1053.29926	1053.36766	1053.73271	1054.03441	1054.18423	1054.90505
1055.71940	1055.90574	1056.29604	1056.64934	1057.32168	1057.74111
1058.13056	1058.25439	1058.70699	1059.13643	1059.29057	1059.50212
1059.90993	1060.63570	1061.04323	1061.08563	1061.30478	1061.91533
1062.55402	1063.58893	1063.65274	1064.31817	1064.69137	1065.01011
1065.24386	1065.45098	1065.63171	1065.68471	1065.96548	1066.08121
1066.22809	1066.47704	1066.68552	1066.75780	1066.80699	1067.35456
1067.42620	1067.87777	1067.98833	1068.77029	1069.04022	1069.34169
1069.51445	1070.16216	1070.36950	1070.66869	1070.75126	1070.93786
1071.15574	1071.56521	1071.81533	1072.08969	1072.38773	1072.57316
1072.79532	1073.13603	1073.51781	1073.81373	1073.94855	1074.10808
1074.56737	1074.68686	1075.17954	1075.39056	1075.80493	1076.04396
1076.18020	1076.61536	1076.99369	1077.22526	1077.39739	1077.56262
1077.68226	1078.23015	1078.62134	1078.83429	1078.92538	1079.08315
1079.30235	1079.70117	1079.99507	1080.29651	1080.54134	1080.85746
1082.14292	1090.22347	1114.05636	1119.91929	1121.71585	1128.86856

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1130.52326	1133.59765	1142.09495	1144.74058	1147.46205	1148.70100
1149.06047	1150.31999	1150.65377	1151.37357	1151.48814	1154.11541
1156.22006	1157.64816	1159.01781	1164.30844	1165.00163	1166.13648
1166.68067	1167.57256	1168.66758	1169.88675	1172.63646	1172.81903
1174.34565	1178.50340	1178.94581	1180.42780	1182.03438	1182.43118
1182.78546	1183.18402	1183.72523	1184.30343	1184.38583	1185.61089
1186.29432	1186.56584	1188.48194	1189.19561	1190.48215	1190.56709
1191.39683	1191.69462	1191.89811	1192.43406	1192.60734	1193.24311
1194.36989	1195.04062	1196.18148	1196.62770	1196.77547	1197.83963
1198.29479	1198.91269	1199.23810	1199.94780	1200.03507	1201.14219
1203.73177	1204.49299	1205.38376	1205.62297	1206.18222	1207.27092
1207.84737	1208.22985	1208.74607	1208.89739	1209.36631	1209.55053
1209.67578	1209.80538	1210.32559	1210.61900	1210.68208	1211.03298
1211.41718	1212.14237	1212.70591	1213.08745	1213.41618	1213.92467
1215.09333	1216.00988	1216.29718	1216.95084	1217.89537	1218.40719
1219.11375	1219.24306	1223.74172	1228.94783	1238.50374	1241.39065
1263.83938	1302.32814	1321.47633	1332.66022	1347.98363	1399.51348
1406.80025	1437.36017	1459.84919	1467.00026	1475.50382	1478.67588
1491.16718	1689.70123	2981.89331	2989.98228	3018.95336	3021.97017
3029.49779	3038.78683	3085.95332	3089.13012	3105.81110	3114.27391
3143.52474	3206.30963	3228.67635			

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-41.93695	0.00000	0.00000	0.00000	8.32844	22.05252
27.28199	28.08647	31.14111	37.98670	40.15603	40.28015
41.52613	42.82267	47.65067	50.93282	51.08653	51.59927
52.45163	53.49574	54.43056	55.38147	57.33431	58.04536
61.15636	62.79459	63.43905	63.67069	64.08149	64.39536
64.74801	64.78915	65.72729	66.15619	66.40658	67.90380
68.43673	68.69019	70.16832	70.64269	71.57368	72.46157
72.99238	77.29821	81.05614	81.64559	81.92653	82.52614
82.98297	83.64070	84.12757	85.05164	85.78633	86.21834
87.28098	89.13793	90.13018	90.80623	91.25012	91.83958
92.14853	92.89257	93.10950	93.41094	95.97483	96.02364
99.23185	99.56323	100.00296	100.33267	101.51077	102.36208
102.55714	103.66358	104.70054	105.14057	105.46684	105.95624
106.21925	107.20699	107.50379	109.60429	109.98774	110.56094
110.85211	110.92023	111.15190	112.03782	112.46021	112.65198
113.26540	113.39953	113.51884	113.81085	114.05607	114.49546
115.43878	116.29575	116.73230	117.08606	117.88564	118.71826
118.95610	119.30915	119.94124	122.43214	122.65614	123.24509
123.67858	124.91479	125.54443	126.51121	127.69930	128.10667
129.10216	131.14650	131.75567	133.92735	134.30141	134.80034
134.86476	135.44451	135.83630	135.92512	136.52957	136.64811
137.93694	139.79924	140.25248	140.92865	142.48101	143.05992
143.83659	144.71666	145.12360	146.29737	147.06005	149.99529
152.46476	153.13810	153.77454	153.90626	154.32165	154.62002
155.17656	155.41320	155.78186	156.27398	158.36225	159.67883
160.26182	160.48822	160.72814	161.16208	161.48278	162.04417
162.30021	163.09352	163.45722	163.90046	164.91227	165.12968
165.45396	165.84627	166.05628	169.49222	169.69024	170.36793
171.41505	172.35917	173.05830	173.26733	173.49300	174.98067
175.73344	175.91999	176.89053	176.99877	177.36937	179.92172
183.95754	185.13877	185.34510	189.64235	189.85599	190.72690
191.64860	192.58147	194.92365	196.93425	197.47948	198.05025
198.52139	199.37809	205.76144	210.61336	213.25729	214.01104
214.38299	214.84764	215.00394	215.40062	220.08595	222.24013
224.37430	224.55476	224.98416	227.40934	228.83119	230.67528
234.18537	234.93983	235.40372	236.81980	237.02451	237.19379
238.10833	238.33248	240.66813	241.89042	242.65772	242.72292
243.75691	243.89048	244.22518	244.60098	245.20363	245.71914
246.19003	246.88829	247.71793	248.65056	249.38490	249.72907
250.22995	250.69035	251.11209	251.31326	252.12272	252.37204
253.40375	253.50048	254.37796	254.84821	256.08643	256.68754
256.91913	257.15188	258.43400	259.47744	259.89923	260.26090
260.49331	260.77250	261.13155	262.32638	262.90704	265.93013
266.46808	267.10424	267.29992	267.71379	268.43433	268.67579
269.24737	269.46356	269.57804	270.81773	271.60831	273.59751
274.14928	275.35279	275.48854	277.34492	278.02486	280.56079
281.07843	281.90375	282.35227	283.72172	285.23601	286.68510
289.10308	290.26675	290.66211	292.76083	293.18337	293.54294
294.71488	295.84942	296.43610	297.48909	297.91452	298.08986
299.02889	299.59647	300.60971	300.98179	302.00050	302.49012
302.67199	304.46408	306.03195	306.42284	309.47985	310.32794
311.60285	312.50241	312.74886	313.64943	314.17559	315.36411
315.79512	316.67563	316.91757	317.03208	317.54726	317.63292
317.91364	318.15695	318.40450	318.70098	319.94124	320.16053
321.13601	321.84695	321.90059	323.17850	323.60148	324.65920
324.87646	325.66419	326.36941	326.68097	326.91462	327.38482
327.70233	328.14883	328.33553	329.67967	330.34537	330.77235
331.07878	331.65862	332.50399	332.79414	333.02495	333.62890
333.93897	334.35368	335.19024	337.79552	338.43073	339.58067
341.58615	342.90798	344.14434	345.75461	346.26880	346.35444
346.46128	347.35723	347.68780	349.01056	349.66690	350.52975
351.38985	353.31021	353.73290	354.13975	355.36160	356.38780
357.23982	358.17857	358.91116	360.71487	362.73345	363.41236
365.06273	365.18653	365.81764	366.54591	367.68618	369.27782
371.14289	380.44360	381.68308	382.33773	384.15565	385.10829
387.65390	390.77001	392.64890	393.35148	393.57547	393.96020

396.00151	396.49961	397.05311	397.13669	397.39561	398.72235
399.64185	400.09077	400.99845	401.92290	402.43147	403.01488
403.53120	403.68117	403.78705	405.11450	406.33648	406.53960
406.73740	408.84596	409.29806	410.26670	410.91451	415.25573
416.44469	418.47922	420.07691	421.01461	421.24549	422.48900
432.77197	435.73120	436.22110	438.18168	439.64024	440.56131
440.73262	441.62796	442.56862	442.97333	449.45444	452.11427
458.98631	460.56198	461.60173	462.30984	465.54336	466.62355
467.13203	468.25391	468.72527	472.21068	472.97507	474.14911
476.44680	478.12029	479.71949	481.60634	482.47059	483.15962
484.41124	486.80627	487.77849	488.30588	488.88611	489.08731
489.83487	490.12291	490.85580	491.47871	492.50399	493.35093
495.05657	495.23769	495.47231	495.91273	496.06152	496.34617
496.49109	496.73985	496.85703	497.47157	497.61990	497.93227
498.32076	498.46403	498.57414	499.16051	499.35609	500.08417
500.59314	501.68847	502.25080	503.17257	504.61453	505.81569
508.30451	509.77752	510.98875	511.87168	513.93044	517.50977
518.94288	519.08143	519.25159	519.69711	521.56987	522.90641
523.36429	524.60548	527.49390	528.69363	540.29263	541.29592
543.51804	547.43898	548.00236	551.75354	554.65150	560.64939
563.94741	581.89334	583.13201	583.45385	584.87333	594.96881
598.93486	604.43098	605.96966	614.92284	621.11139	627.53957
629.90905	632.03238	633.09194	639.37500	642.40282	643.51375
654.19299	656.42975	660.90994	664.39794	664.90789	665.50826
666.15226	666.68085	667.45754	667.56234	668.27962	670.09539
674.44062	680.42792	685.33179	687.94073	688.40658	688.83026
693.96429	696.65579	697.67730	698.09872	699.74286	700.81612
702.05678	704.37233	708.96216	713.79216	717.33578	718.56622
720.50018	722.48039	723.28771	723.85843	731.57890	733.78213
736.58671	738.14618	739.35974	742.98584	744.00380	754.05494
760.92736	762.98449	763.87538	765.55913	770.00403	778.99758
781.13375	784.71826	789.75640	790.34070	792.00787	793.15705
795.13499	796.11722	805.93524	816.39706	820.08759	820.71701
822.07940	823.90435	831.38169	839.02557	844.56418	847.32718
850.00029	855.46673	857.84362	867.40978	867.79714	868.28775
869.05872	869.99891	870.33341	870.48454	870.68672	870.94224
871.11823	871.80682	873.56401	873.82787	875.41215	875.90320
876.32344	877.38197	878.33430	879.60523	879.95337	880.48498
880.85247	882.13220	882.65261	883.11018	883.56708	884.97829
885.25890	885.63090	886.46818	886.85535	888.12430	888.52253
889.35410	889.91668	891.45249	892.02255	892.59452	893.18523
893.53058	893.79683	894.22730	895.62174	896.05117	896.70775
897.70611	897.97877	898.81248	899.18183	900.14035	900.47811
900.59132	901.17522	901.52584	902.36474	902.95771	904.00969
904.92440	906.47400	907.80606	908.41007	909.38924	911.07120
911.40099	912.25633	913.52396	913.91408	914.55772	915.07305
915.24986	915.58812	916.26060	917.25950	917.87034	918.92545
920.49466	921.40227	921.83918	922.73394	922.94477	924.58588
925.41649	927.00597	929.13969	929.49500	930.58259	931.23373
936.70743	938.69946	941.66268	949.55086	956.54083	962.55403
968.51813	987.24879	1015.72785	1036.08333	1041.12583	1043.07488
1050.50053	1050.95085	1051.33219	1052.87821	1053.34260	1053.44312
1053.93734	1054.12353	1054.92203	1055.70481	1055.79054	1056.27441
1056.67754	1057.33025	1057.71382	1058.19768	1058.47906	1058.76688
1059.08250	1059.25503	1059.52387	1059.86271	1060.58416	1061.09305
1061.13573	1061.24691	1061.84752	1062.35003	1062.53472	1063.47110
1063.91781	1064.30948	1064.64738	1064.99099	1065.26997	1065.54428
1065.66216	1065.71504	1065.90519	1066.02302	1066.19015	1066.47469
1066.62926	1066.72999	1066.80914	1067.29367	1067.63643	1067.91858
1068.03138	1068.83475	1069.28530	1069.50532	1070.09595	1070.36134
1070.67238	1070.74713	1070.89752	1071.06769	1071.47526	1071.84460
1072.05937	1072.38446	1072.55420	1072.84554	1073.20564	1073.52381
1073.81242	1073.86182	1073.91892	1074.12156	1074.48333	1074.76419
1075.12972	1075.53589	1075.83806	1076.09210	1076.22441	1076.61461
1077.00234	1077.22341	1077.39314	1077.59473	1077.64778	1078.26982
1078.57518	1078.79428	1078.91679	1079.08708	1079.35721	1079.66699
1079.93499	1080.33586	1080.60784	1080.85565	1082.11542	1090.92341

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1114.04259	1121.48033	1127.57997	1129.21510	1130.54643	1133.21335
1142.09220	1144.69988	1147.44392	1148.63972	1149.01291	1150.34551
1150.64655	1151.38477	1151.44979	1153.96472	1156.18146	1157.49328
1159.05547	1164.21234	1164.95970	1165.84690	1166.65803	1167.55503
1168.22329	1169.89583	1172.55752	1172.80164	1174.23672	1178.07852
1178.75951	1180.09170	1181.97659	1182.51579	1182.78768	1183.09421
1183.73793	1184.28882	1184.37718	1185.60621	1186.21727	1186.60567
1188.22223	1189.11258	1189.84744	1190.34487	1190.69711	1191.63130
1191.80529	1192.47981	1192.59625	1193.22775	1194.27147	1195.07492
1196.13699	1196.58507	1196.82240	1197.81599	1198.26389	1198.94328
1199.28064	1199.92677	1199.99294	1200.96511	1203.80841	1204.51608
1205.35361	1205.58701	1206.19652	1207.33234	1207.75950	1208.14858
1208.71646	1208.87254	1209.36646	1209.48872	1209.66582	1209.79545
1210.24065	1210.58477	1210.64729	1211.00781	1211.37167	1212.13712
1212.68028	1213.00183	1213.38216	1213.88645	1215.06412	1216.03922
1216.28164	1216.92752	1217.84917	1218.34687	1219.08627	1219.19324
1223.78252	1228.45320	1228.91239	1237.77393	1250.95715	1283.75686
1312.01873	1325.74377	1329.42102	1332.58726	1379.21734	1404.30400
1407.32556	1437.43514	1458.15053	1466.72812	1468.73780	1475.54356
1481.36308	1490.73684	1688.30957	2975.67536	2979.76713	3008.25005
3013.66347	3024.26039	3028.59124	3038.47600	3060.23178	3083.09564
3087.60656	3099.22615	3114.23230	3143.41118	3206.03798	3236.33413

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0.00000	0.00000	0.00000	21.35754	23.98500	27.67257
28.57729	30.94839	37.74435	39.79183	40.08069	41.31280
41.98168	43.09918	49.10185	50.65677	51.00749	51.69887
52.59278	53.16900	54.21548	55.16914	55.66527	60.65388
61.98074	62.91744	63.29773	63.62001	63.76263	64.10681
64.59928	65.26876	65.68063	66.05524	66.41661	67.34719
67.94939	68.83621	70.26790	70.50875	71.67951	71.90812
73.13048	77.25434	78.75875	81.11259	81.80718	82.50225
82.92571	83.63901	83.97068	84.75255	85.11621	85.80671
87.35338	89.14058	89.41624	90.28696	90.89712	91.08964
91.68132	92.21148	92.84055	93.25481	93.51073	95.81988
96.15269	99.12829	99.78426	100.00190	100.45514	101.52023
102.37860	102.61359	103.88339	104.86736	105.22351	105.47102
105.87310	106.24569	106.95167	107.45314	109.63458	110.15748
110.26586	110.55940	110.90724	111.44536	111.96853	112.32703
112.50453	113.09220	113.39225	113.50324	113.66585	114.17822
115.16208	115.79487	116.36862	116.46310	117.38618	118.07827
118.72517	119.09196	119.30956	121.43948	122.49967	123.12410
123.17874	123.79259	124.95563	125.58002	126.47395	127.76111
128.51989	130.82607	131.74283	133.93837	134.28051	134.76290
134.94613	135.36798	135.80194	135.94552	136.52303	136.56133
136.94601	139.56402	140.29916	140.80663	142.39057	142.94572
143.96218	144.69948	145.15530	146.34218	147.06536	149.67059
149.97461	152.48996	153.15290	153.76406	154.08160	154.56679
154.68094	155.26868	155.31777	155.90215	156.31966	158.49882
159.73858	160.34921	160.53625	160.78743	161.06357	161.50912
162.09743	162.30983	162.94800	163.48010	163.90423	164.65384
165.10089	165.39075	165.86202	166.10423	168.55271	169.61726
170.00304	171.45665	172.37458	173.15156	173.18019	173.19915
175.04619	175.66476	175.91943	176.85728	176.86500	177.32628
180.04105	183.86491	185.07677	185.43838	189.63116	189.88656
190.73476	191.66026	192.66824	194.95562	197.00024	197.71181
197.97705	198.56774	199.25032	205.92086	210.58724	213.17463
214.03860	214.48135	214.83960	215.00910	215.35788	220.04066
222.61811	224.33490	224.71978	225.07583	227.47978	228.70747
230.82852	234.24033	235.00152	235.58045	236.87581	237.05899
237.18695	238.07640	238.17512	240.71209	241.88766	242.71758
242.80476	243.55081	243.84903	244.00750	244.30996	244.77405
245.38091	245.73129	247.03187	247.66444	248.73261	249.39227
249.71565	250.35182	250.61100	251.20871	251.36905	252.14284
252.29516	253.26038	253.52746	254.32124	254.76870	256.02629
256.73700	256.99577	257.28864	258.25892	259.49456	259.96166
260.15392	260.48697	260.86290	261.10606	262.21708	262.96270
265.12781	265.93777	266.56141	267.18619	267.31039	267.56044
268.48796	268.66658	269.18658	269.44324	269.69167	270.68029
271.81429	273.68006	274.12298	275.37354	275.54707	277.24657
277.98164	280.62302	281.08568	282.18625	283.69948	285.13893
286.86892	287.49020	288.99337	290.38220	290.74619	292.73214
293.23606	293.44811	294.99521	295.75432	296.40849	297.62084
297.84286	298.07245	299.01997	299.49944	300.57309	301.15017
302.07526	302.59232	302.72209	304.51350	306.02506	306.30932
309.48338	310.46000	311.58309	312.51988	312.72528	313.68983
314.12429	315.32847	315.93821	316.64968	316.87738	317.02528
317.58576	317.64897	317.94051	318.19307	318.37900	318.72926
319.97180	320.18178	321.08012	321.79065	322.12745	323.12825
323.62228	324.60239	324.77169	325.74177	326.30016	326.68025
327.38363	327.63641	327.94393	328.24692	329.68535	330.26803
330.69202	331.11299	331.61329	332.46582	332.65530	333.06511
333.48016	333.94564	334.25995	335.03930	337.78135	338.26538
339.60811	341.54052	342.92165	344.24819	345.77510	346.22029
346.31350	346.53138	347.24079	347.57556	349.00076	349.67043
350.41976	351.30841	353.29731	353.69743	354.17194	355.43284
356.22073	357.16457	358.13046	358.79579	360.67344	362.67279
363.44821	364.99170	365.09350	365.78920	366.56109	367.70763
369.22875	371.16460	378.46282	380.43375	381.58455	382.43513
384.20674	385.08414	387.70671	390.82613	392.70389	393.38368

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393.56832	393.89688	396.08478	396.48761	397.15374	397.20906
397.41473	398.68576	399.64894	400.11860	401.14290	401.96057
402.36063	402.97624	403.55705	403.73519	403.78304	405.12318
406.36263	406.54187	406.77761	408.87142	409.25095	410.28154
410.92320	415.20544	416.44701	418.50399	420.02940	420.99523
421.24324	422.55253	432.91880	436.33246	438.22888	439.61965
440.43275	440.82919	441.67135	442.56857	442.85008	449.52242
452.01718	456.69929	459.69286	460.85233	461.98596	462.45159
465.59242	466.64757	467.13415	468.36792	472.25657	472.97441
474.29969	476.45747	478.15565	479.77613	480.24754	481.60542
482.60354	483.32247	484.55141	486.78865	487.86865	488.34469
488.80753	489.14778	489.97608	490.21046	490.88134	491.54327
492.53048	493.41876	495.10463	495.35886	495.43838	495.88510
496.16538	496.42077	496.56000	496.76134	496.99601	497.41143
497.63499	497.89194	498.29587	498.51258	498.58388	499.15550
499.31642	500.04618	500.57001	501.61354	502.11584	503.08834
504.66053	505.80362	508.31731	509.58552	510.97102	511.94210
513.88451	517.65854	519.00428	519.08260	519.21584	519.70313
521.50315	522.80980	523.35002	524.64710	527.48306	528.62450
540.31447	541.47568	543.47220	547.47917	548.01338	551.81735
554.75766	560.85852	564.26884	582.27945	583.25750	583.48874
584.91723	596.12819	599.49022	604.42610	606.12744	616.31653
621.21247	627.48632	629.93681	631.98215	633.05251	639.42957
642.29802	643.54968	653.84139	656.59285	660.90907	664.52093
664.95724	665.47708	666.23321	666.69137	667.38961	667.57873
668.13367	670.10050	675.72960	684.87345	686.76953	688.22451
688.48916	688.94122	693.87724	696.41789	697.77833	698.14428
699.76007	700.72372	702.09418	704.41828	708.86975	713.63375
717.27633	718.62015	720.45053	722.46377	723.19668	724.00028
731.24697	733.82071	736.81483	738.22559	741.33053	742.92927
744.09390	751.68582	754.60162	760.92317	763.92872	765.44095
770.10002	779.07976	781.50805	784.45762	789.79559	790.29661
791.86401	793.20286	795.18040	796.02544	802.29874	807.37990
816.57474	820.15108	820.73943	822.07429	823.71259	831.30193
839.46801	844.40478	850.18008	855.52451	857.93220	867.31856
867.79713	868.37814	869.09241	870.00513	870.19858	870.44529
870.71768	870.84551	871.20994	871.72748	873.66119	873.81274
875.44479	875.90543	876.30918	877.38336	878.25728	879.75982
880.05903	880.51722	880.89666	882.10445	882.64817	883.00126
883.53159	884.87008	885.19384	885.69999	886.51014	886.97103
888.05057	888.54353	889.31604	889.90391	891.49657	892.29015
892.53968	893.09983	893.47788	893.66894	894.38642	895.67213
896.08179	896.75777	897.44137	897.82189	898.87097	899.08773
900.21893	900.46730	900.55955	901.15624	901.55410	902.26138
902.50676	902.79668	904.04305	905.05410	906.51946	907.85566
908.37357	909.34356	911.07909	911.44975	912.26169	913.49063
913.93414	914.42129	915.05714	915.20335	915.65686	916.23973
917.33677	917.75980	918.90699	920.48864	921.49849	921.83910
922.78705	922.87351	924.61088	925.33198	926.96558	929.25174
929.59958	931.20145	935.25782	936.63136	938.71559	940.71485
949.53894	956.57440	968.45419	983.84380	987.24653	1021.43494
1035.22569	1037.02177	1040.25937	1048.82057	1050.73218	1051.41981
1053.01132	1053.40432	1053.44420	1054.02918	1054.20606	1054.92542
1055.77826	1055.82211	1056.34221	1056.72318	1057.36613	1057.70981
1058.20632	1058.29380	1058.76664	1059.10367	1059.33580	1059.64364
1059.93539	1060.73574	1061.09149	1061.20812	1061.38406	1061.94471
1062.46135	1063.36778	1063.68879	1063.92487	1064.35834	1064.80865
1065.09499	1065.28894	1065.50314	1065.61109	1065.75343	1065.96674
1066.24795	1066.34836	1066.48024	1066.65052	1066.78168	1066.83888
1067.26856	1067.41769	1067.79856	1067.93271	1068.72559	1069.14857
1069.63088	1070.21925	1070.44706	1070.61933	1070.75339	1070.76346
1070.97647	1071.24628	1071.58193	1071.83318	1072.15445	1072.45161
1072.54456	1072.86058	1073.15956	1073.63698	1073.97992	1074.07933
1074.22768	1074.67483	1074.79640	1075.16195	1075.49521	1075.64322
1075.87951	1075.98262	1076.19711	1076.87607	1077.05370	1077.29846
1077.53255	1077.57311	1077.75669	1078.30510	1078.75234	1078.99522
1079.11639	1079.31425	1079.57237	1079.82105	1079.98661	1080.36553

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1080.66797	1081.67039	1081.94624	1091.37575	1113.98127	1121.49097
1128.53647	1130.58643	1132.74434	1133.26432	1141.95624	1144.82603
1147.43092	1148.73241	1149.07574	1150.43756	1150.65220	1151.37439
1151.53832	1154.22027	1156.29865	1157.72084	1159.06465	1164.26777
1165.05084	1166.04657	1166.74282	1167.65842	1168.56487	1169.97315
1172.64196	1172.79953	1174.42632	1178.38232	1178.90115	1180.55196
1182.12119	1182.46852	1182.84047	1183.20365	1183.76932	1184.32300
1184.45655	1185.66315	1186.45618	1186.54209	1188.46649	1189.26879
1190.51325	1190.64161	1191.34002	1191.70002	1191.89941	1192.54626
1192.65493	1193.22237	1194.38394	1195.17033	1196.18624	1196.56971
1196.78716	1197.83579	1198.42600	1198.95320	1199.29762	1199.92117
1200.04535	1201.01307	1203.73555	1204.51194	1205.41145	1205.69884
1206.22212	1207.38167	1207.92699	1208.10604	1208.79651	1208.98889
1209.37719	1209.57052	1209.66857	1209.82718	1210.19136	1210.52883
1210.72530	1211.06918	1211.51519	1212.18662	1212.64359	1213.27044
1213.37686	1213.83324	1215.04886	1216.07708	1216.33182	1216.95927
1217.72436	1218.37571	1219.05593	1219.15628	1223.75022	1224.25778
1228.51621	1236.42839	1240.60763	1271.33901	1294.59763	1311.49515
1321.08729	1326.24413	1334.62265	1354.59392	1391.92115	1406.70524
1411.08216	1438.01620	1458.34728	1466.22509	1467.07551	1475.24808
1479.69879	1485.61169	1492.76929	1689.43711	2979.00701	2982.89965
2996.43255	3005.52340	3009.13927	3021.42045	3023.60045	3029.13757
3040.51905	3052.42693	3089.56756	3094.73771	3097.60824	3113.63842
3145.93167	3204.11572	3206.60926			

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-8.35063	0.00000	0.00000	0.00000	23.92654	27.73291
28.00983	34.05630	37.93857	40.04747	40.38841	41.38599
42.46613	49.54303	50.81296	51.24244	51.70238	52.40423
53.36163	55.09508	55.62961	59.56659	61.56276	62.51584
62.95306	63.37410	63.71507	63.99225	64.26068	64.65124
65.42352	65.62190	66.13039	66.89844	67.68510	68.81754
70.13470	70.68097	71.46922	71.87591	73.09445	76.93868
78.83212	81.11596	81.61806	82.50018	83.21968	83.69323
83.74266	85.07889	85.34093	85.88307	87.56937	89.25195
90.26841	90.82871	91.16822	91.61594	92.10594	92.79602
93.08685	93.45277	95.91547	96.31846	99.05848	99.51965
100.17488	100.42478	101.37557	102.32988	102.64266	104.00854
104.53905	105.22362	105.43665	105.64347	106.45600	107.32983
107.52199	109.24371	109.76541	110.10698	110.60947	110.86217
111.10490	111.54507	112.09879	112.57596	112.70682	113.32756
113.54443	113.58150	113.87882	114.23317	115.43098	116.23424
116.63336	117.13548	117.87958	118.66481	119.04525	119.27809
120.57856	122.47474	122.88475	123.19889	123.79705	124.93822
125.61346	126.45960	127.66983	128.79378	130.90194	131.89948
133.88990	134.29628	134.79117	134.92971	135.48394	135.85310
135.93578	136.51439	136.66409	139.34647	139.94260	140.62882
142.43140	143.16332	143.86331	144.90951	145.17083	146.37504
146.71858	149.78196	152.42981	153.04316	153.71563	153.95810
154.34323	154.57809	155.20355	155.25018	156.03780	156.25186
158.47429	159.69342	160.27874	160.45768	160.74494	161.05381
161.46196	162.09260	162.30688	162.98339	163.38337	163.81726
164.87366	165.13824	165.50136	165.76089	166.28825	169.56483
169.78552	170.96395	172.34898	173.01197	173.12372	173.20212
174.99478	175.50044	175.91222	176.80795	176.86202	177.30512
180.13424	183.86405	185.07605	185.31875	189.68233	189.82934
190.76477	191.62719	192.42326	192.74811	194.96905	196.94502
197.57919	198.04597	198.51507	199.25603	205.78927	210.76785
213.13446	214.10087	214.49726	214.86634	214.97921	215.39604
219.88304	222.62845	224.18968	224.69683	225.02955	227.48640
228.65433	230.78986	234.18451	234.86030	235.51031	236.77861
236.92493	237.11615	238.12169	238.19197	240.56667	241.81297
242.65602	242.73891	243.62788	243.91066	244.20118	244.57386
245.34521	245.50474	246.90586	247.69517	248.58728	249.29620
249.72785	250.23298	250.54954	251.13963	251.30006	251.96332
252.21539	253.26550	253.44895	254.18321	254.49075	254.83898
255.86703	256.63073	256.96232	257.14739	258.24369	259.45574
259.93626	260.22022	260.54112	260.75057	261.04204	262.30542
262.70352	263.33671	265.82723	266.57547	267.20405	267.27753
267.65749	268.43237	268.60422	269.18132	269.41689	269.64343
270.76943	271.78679	273.70653	274.11055	275.26289	275.49736
277.30985	277.95569	280.57977	281.19134	282.18267	283.73237
283.97689	285.35048	286.76643	289.06632	290.24799	290.69474
292.73587	293.22356	293.48254	294.73891	295.80637	296.43494
297.50761	297.88645	298.11275	299.04422	299.54984	300.58398
301.02299	302.01781	302.61094	302.75725	304.59574	306.12363
306.42782	309.42882	310.34642	311.62588	312.48511	312.74593
313.67020	313.99789	315.37051	315.87699	316.63373	316.81854
317.08578	317.51192	317.65604	317.91121	318.28544	318.32095
318.72182	319.97846	320.12569	321.14476	321.85124	322.02673
323.24332	323.59213	324.58473	324.80952	325.74958	326.30379
326.65385	327.38403	327.71248	327.93042	328.30700	329.66264
330.32017	330.69440	331.07672	331.63443	332.44842	332.69825
333.04354	333.57838	333.94252	334.21502	335.11739	337.75446
338.32324	339.52975	341.65411	342.90486	344.21928	345.83068
346.33083	346.35021	346.44322	347.29062	347.76995	349.01901
349.67562	350.50209	351.36495	353.33952	353.73215	354.12844
355.47540	356.36772	357.24845	358.13600	358.96536	360.69972
362.77103	363.44324	365.03576	365.18787	365.82391	366.60545
367.69121	369.27485	371.22167	380.65846	381.58962	382.40341
384.16544	385.12923	387.71997	390.81155	392.69154	393.40207
393.55467	393.93813	396.06062	396.56277	397.13504	397.18740

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397.37222	398.64120	399.70934	400.08411	401.09465	401.93421
402.38273	402.98280	403.47420	403.64681	403.83948	405.06196
406.38216	406.64310	406.71770	408.85223	409.30533	410.34949
410.84808	415.19018	416.43656	418.46263	420.11772	421.01047
421.25683	422.45090	432.82919	436.30086	438.18018	439.64786
440.51986	440.81074	441.66403	442.56459	442.96142	449.46341
452.08776	459.34674	460.63698	461.81969	462.36829	465.56693
466.64810	467.15329	468.20831	472.23734	472.95957	474.09853
476.48218	478.17775	479.72556	481.59290	482.56366	483.19956
484.61726	486.82920	487.81329	488.33544	488.85361	489.20329
489.87068	490.19764	490.92478	491.44553	492.59609	493.47154
495.12454	495.30796	495.49735	495.91986	496.11519	496.38704
496.46731	496.75962	496.88481	497.44956	497.68018	497.90912
498.36361	498.51647	498.56748	499.14661	499.29258	500.13576
500.64304	501.61606	502.15253	502.63580	503.14709	504.64768
505.90562	508.32159	509.72823	511.00073	511.93727	513.93194
517.67010	518.97159	519.08127	519.21242	519.67345	521.62788
522.90115	523.38854	524.57337	527.55180	528.76647	540.39083
541.78976	543.54196	547.46566	548.12893	551.86645	554.83460
561.04567	564.23675	582.41494	583.22220	583.31929	584.95481
596.25977	599.52487	604.43173	607.02019	620.48832	627.40770
630.12917	632.12423	632.95719	639.40521	642.37389	643.61662
652.59660	656.61910	659.83971	663.66041	664.78329	665.45404
665.81939	666.31550	667.25924	667.45396	667.84758	668.64171
670.11222	677.61946	685.36684	687.78923	688.46794	688.83392
694.12982	696.60033	697.78112	698.17032	699.67535	700.91555
702.10193	704.58343	708.96145	713.89405	717.22551	718.59184
720.59396	722.51800	723.13197	724.07146	731.39737	733.75661
736.95127	738.21568	742.95161	743.95597	754.80404	760.92769
763.99224	765.49678	770.02544	776.72795	779.40811	782.93049
784.93355	790.01227	790.47448	792.33831	793.28149	795.29111
796.16080	809.04241	816.60248	820.53020	820.65010	822.61495
824.04593	831.46340	840.09245	843.87411	850.69515	855.56224
857.98709	867.37465	867.78788	868.34687	869.10194	870.04332
870.22563	870.41957	870.66998	870.94965	871.19051	871.76805
873.66224	873.81023	874.56847	875.48442	875.98557	876.29938
877.39389	878.25549	879.66410	880.16136	880.47549	880.89544
882.11739	882.59233	883.07171	883.63097	884.99794	885.14691
885.65705	886.50939	886.88291	888.04125	888.52802	889.33521
889.96757	892.07279	892.25542	893.08335	893.53221	893.73287
894.33022	895.62684	896.04927	896.76704	897.43651	898.01308
898.79553	899.05615	900.12510	900.47717	900.56302	901.09702
901.55230	902.30304	902.90015	903.95615	904.92923	906.48312
907.85454	908.42011	909.34984	911.05061	911.40307	912.24203
913.47599	913.90161	914.46321	915.03755	915.20094	915.60213
916.19013	917.22616	917.76387	918.91470	920.47438	921.43865
921.79521	922.72163	922.96263	924.65020	925.36951	926.99312
929.26389	929.59053	931.21431	936.70501	938.62975	949.50392
956.54720	968.47148	982.61016	987.23161	1020.28832	1038.17046
1040.81830	1050.68812	1051.36781	1052.94251	1053.27398	1053.35238
1053.92567	1054.05251	1054.46456	1054.94622	1055.71250	1056.13768
1056.55371	1056.69430	1057.46346	1057.62333	1058.11701	1058.42184
1058.83756	1059.05510	1059.26461	1059.53327	1059.91673	1060.60454
1061.03534	1061.13686	1061.17750	1061.93012	1062.39502	1063.50443
1063.59679	1064.31077	1064.63798	1065.00462	1065.28004	1065.44815
1065.54623	1065.65245	1065.93542	1065.96464	1066.24651	1066.30256
1066.48708	1066.71994	1066.75909	1066.80169	1067.32450	1067.40306
1067.81679	1067.94361	1068.68498	1069.14611	1069.43174	1070.14854
1070.33260	1070.58671	1070.67193	1070.92755	1071.11021	1071.50447
1071.79815	1072.07821	1072.29448	1072.53013	1072.77623	1073.09202
1073.52270	1073.84009	1073.90574	1074.06823	1074.54212	1074.65921
1075.13530	1075.39906	1075.76371	1075.88649	1076.06265	1076.59864
1076.95574	1077.21989	1077.36918	1077.49785	1077.67024	1078.19124
1078.62343	1078.80963	1078.90080	1079.07441	1079.35234	1079.69925
1079.80681	1079.91571	1080.20823	1080.59363	1080.82833	1082.00730
1090.90453	1114.08375	1121.71644	1129.59097	1130.51496	1133.75484
1142.06329	1144.78761	1147.41783	1148.71459	1149.19496	1150.34532

1150.61699	1151.36167	1151.50303	1154.36370	1156.23983	1157.87718
1159.01329	1164.33943	1164.94919	1166.15725	1166.61882	1166.72767
1167.58934	1169.41923	1170.01010	1172.68043	1172.87635	1174.58530
1178.58931	1179.27700	1181.52090	1182.04053	1182.44486	1182.81550
1183.41152	1183.95294	1184.34326	1184.40762	1185.57755	1186.38523
1186.55110	1188.82787	1189.65859	1190.51617	1191.19948	1191.54645
1191.77553	1192.42578	1192.76602	1193.23954	1194.57801	1195.08959
1196.13506	1196.62283	1197.18871	1197.77575	1198.30278	1198.84210
1199.21493	1199.95555	1200.08906	1201.53797	1203.78954	1204.46034
1205.32211	1205.58032	1206.11875	1207.30539	1207.96321	1208.19608
1208.73952	1208.90507	1209.36537	1209.61635	1209.64713	1209.80027
1210.27170	1210.56393	1210.71411	1211.03989	1211.40965	1212.19184
1212.67068	1213.10817	1213.52678	1213.88434	1215.09837	1216.06404
1216.30334	1216.85123	1217.77589	1218.40859	1219.03394	1219.28628
1223.73273	1228.66051	1239.20851	1322.22757	1325.52769	1399.47995
1399.89046	1452.38859	1455.23165	1466.84715	1476.66227	1724.83840
3010.38640	3013.71654	3068.19612	3078.37802	3099.19590	3110.72076
3115.44720	3139.90808	3165.86368			

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0.00000	0.00000	0.00000	5.72624	27.72323	27.96424
35.43422	37.25592	40.06763	40.44874	41.53588	42.75794
43.89944	49.83049	51.28675	51.79476	52.43992	52.65384
53.65800	55.14666	55.45572	57.21790	61.37910	62.83695
63.38256	63.57733	63.93758	64.04891	64.44109	64.97986
65.66921	66.07287	66.41393	67.71167	68.70394	69.24572
69.48514	70.28927	71.91678	72.83339	73.54144	74.56427
79.32286	80.95390	81.35097	81.89999	82.57725	83.02886
83.89453	84.73272	85.38688	85.97067	86.32793	88.15625
89.62968	90.37408	90.87186	91.17653	91.71267	92.17902
92.90253	93.39334	93.56233	96.04424	96.78585	99.20317
99.56526	100.12993	100.42569	101.70765	102.42637	102.85237
104.21054	104.70637	105.26525	105.55775	106.23816	106.69201
107.41379	107.55452	109.71184	110.11348	110.63392	111.03601
111.12441	111.80285	112.20036	112.54339	112.68142	113.33350
113.61064	113.70791	114.02756	114.41995	115.43459	116.03203
116.59557	117.23776	117.91792	118.84961	119.18678	119.35913
120.60129	122.10578	122.89088	123.30779	123.94995	124.91999
125.46556	126.69913	127.62513	128.91646	130.74796	131.04608
132.21251	134.15879	134.39949	134.82624	135.07602	135.55203
136.06225	136.42559	136.56802	136.79004	139.31910	140.47983
140.60777	142.72501	143.25254	143.85516	145.33892	145.41984
146.29146	146.53638	149.91926	152.47338	153.02419	153.08204
153.89604	154.19205	154.64792	155.21822	155.32753	156.14103
156.28989	157.64280	158.49884	159.66401	160.37702	160.48660
160.77549	161.14094	161.55681	162.17969	162.44189	163.16892
163.42995	163.80191	165.08212	165.18676	165.44821	165.80545
166.40065	169.63892	169.80425	171.10614	172.33904	173.05430
173.18098	173.34839	174.91152	175.53582	175.93354	176.81025
176.90448	177.33871	180.25290	183.78300	185.08296	185.28947
189.66842	189.84740	190.84737	191.65409	192.44932	194.97079
196.92597	197.46369	198.08515	198.51473	199.34459	205.61841
207.99822	210.70352	213.07067	214.08234	214.44082	214.78153
215.01218	215.39260	219.85975	222.23521	224.10216	224.58213
224.99884	227.44181	228.40417	230.73023	234.17004	234.85881
235.47247	236.81337	236.94498	237.12842	238.17325	238.23726
240.64551	241.83799	242.59474	242.72062	243.54612	243.83187
244.09877	244.68242	245.27619	245.43643	246.85644	247.72075
248.48760	249.09376	249.60316	250.21276	250.59045	251.10403
251.37605	251.87652	252.47720	253.15098	253.40886	254.25424
254.77149	255.80779	256.56774	256.93195	257.15757	258.30931
259.51610	259.88157	260.14248	260.53878	260.74503	261.00924
262.41705	263.23258	265.73997	266.57506	267.06431	267.29487
267.61766	268.46618	268.75674	269.23282	269.44480	269.65853
270.75289	272.16862	273.63405	273.96337	275.35433	275.51426
277.33955	277.91787	280.40010	281.15886	282.18144	282.72596
283.78166	285.28365	286.58579	288.96738	290.09794	290.31251
292.68328	293.23217	293.41170	294.69662	295.84892	296.36199
297.49767	297.93666	298.08475	299.11656	299.43962	300.67867
300.98796	302.00465	302.62213	302.69705	304.60035	305.81757
306.38170	306.61282	309.36943	310.31562	311.64792	312.46923
312.78185	313.64475	313.95560	315.38196	315.88581	316.63377
316.78459	317.02558	317.54146	317.63703	317.88375	318.29767
318.33096	318.63516	319.90510	320.22601	321.04377	321.75499
321.92945	323.28753	323.53680	324.51459	324.79784	325.71405
326.23754	326.71652	327.29099	327.77281	327.88830	328.28866
329.60931	330.32076	330.74101	331.02899	331.68764	332.43513
332.83963	333.06986	333.68503	334.03370	334.20281	335.22185
337.71926	338.25271	339.58272	341.75454	342.87392	344.03478
345.74464	346.23945	346.30912	346.43117	347.41037	347.77951
349.12115	349.63283	350.64383	351.46244	353.31492	353.77852
354.16876	355.56257	356.49848	357.22783	358.13205	358.90056
360.62710	362.89488	363.37371	365.09132	365.38439	365.83623
366.75985	367.76456	369.37813	371.41747	380.33434	381.46392
382.42615	384.03995	385.13997	387.51663	390.65546	392.63555
393.27333	393.56793	393.80805	394.15135	395.89903	396.51553

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397.07090	397.19201	397.39235	398.72898	399.63467	400.16753
401.11845	401.92085	402.43109	402.96714	403.38056	403.66970
403.82816	404.98535	406.38680	406.63593	406.78051	408.92081
409.36200	410.34786	410.96316	415.14133	416.40008	418.48125
420.23881	421.03342	421.32753	422.47102	432.59014	436.08588
438.04921	439.71718	440.41478	440.79235	441.64370	442.62212
443.01500	449.22777	452.11079	458.11814	460.26386	461.51174
462.25119	465.43140	466.63453	467.13807	467.80174	471.11643
472.21517	472.93892	473.95389	476.38497	478.05342	479.58242
481.56454	482.62478	483.15344	484.57820	486.76348	487.82990
488.28938	488.77497	489.27313	489.79874	490.19044	490.83899
491.31746	492.56576	493.44862	495.06333	495.19061	495.41401
495.92221	496.02125	496.30339	496.47721	496.73459	496.88828
497.48165	497.72041	497.90330	498.30961	498.47406	498.59226
499.12249	499.27846	500.07990	500.72920	501.79269	502.29027
503.17428	504.63319	505.73683	508.37508	509.75370	510.96505
511.91901	513.87922	517.64172	518.96206	519.06992	519.19279
519.67729	521.74657	522.96400	523.35599	524.53728	527.52950
528.89471	530.59019	540.35347	541.63145	543.64480	547.38614
548.14269	551.70182	554.58807	560.84853	563.24171	582.03040
583.01050	583.27076	584.87708	594.41473	598.47269	604.36515
606.22427	620.35361	627.54048	629.92620	631.46915	632.64252
636.94230	639.44364	642.31950	643.48069	654.46877	656.49669
660.81565	664.43841	664.80721	665.45534	666.31138	666.66823
667.40004	667.54146	668.09802	670.00954	676.18706	685.03842
687.82056	688.40973	688.83935	694.07659	696.16652	697.68759
698.19500	699.56693	700.78562	702.07486	704.26217	708.88063
713.78057	717.15478	718.47716	720.44056	722.38078	723.04101
723.97047	730.95678	733.20468	736.60273	738.17248	742.89752
743.96361	754.27073	760.62796	763.54978	765.09143	770.30234
777.01187	778.74369	779.79762	784.79920	789.24271	790.16135
791.86632	793.17673	795.13756	796.10725	805.28464	816.48654
819.50488	820.56881	821.62237	823.82114	831.01985	839.16540
839.99336	843.79695	850.90428	855.71243	857.78786	867.30748
867.73146	868.12219	869.05405	869.92548	870.08750	870.37555
870.66755	870.82303	871.15947	871.83327	873.53956	873.72907
875.50996	875.98837	876.32571	877.43037	878.19919	879.46894
880.20141	880.51070	880.85326	882.07796	882.48098	882.97917
883.67987	884.95704	885.14671	885.69688	886.42608	886.86099
887.84419	888.49440	889.32974	890.11105	892.01716	892.27907
893.05426	893.45948	893.72693	894.28119	895.44863	895.91009
896.68473	897.32892	898.12840	898.66926	899.04610	900.06351
900.52667	900.54300	901.07761	901.47225	902.37320	903.01534
904.10250	904.76572	906.41531	907.83463	908.48844	909.42845
910.99040	911.38426	912.21510	913.44824	913.82742	914.50894
914.99807	915.18371	915.59989	916.20911	917.20030	917.89717
918.83716	920.56213	921.36347	921.75361	922.69627	923.02670
924.64822	925.30562	926.96436	929.20942	929.51849	931.19333
936.67103	938.64511	949.47919	954.36472	956.47823	966.47616
968.39135	987.15306	1006.39538	1036.83003	1042.07539	1050.51431
1051.30446	1052.26351	1052.68445	1053.03371	1053.31583	1053.97801
1054.05565	1054.71391	1055.67766	1056.06113	1056.25233	1056.55419
1057.12467	1057.45442	1057.99002	1058.28601	1058.53024	1059.07527
1059.23559	1059.49340	1059.84304	1060.33896	1060.87930	1060.97813
1061.18641	1061.69075	1062.62757	1063.23874	1063.63482	1064.08607
1064.51777	1064.97546	1065.11285	1065.38686	1065.47217	1065.53456
1065.78887	1065.87770	1066.21111	1066.37410	1066.52966	1066.71053
1066.75501	1066.97598	1067.20916	1067.48133	1067.82989	1068.05965
1068.47659	1069.07709	1069.53647	1069.96453	1070.21372	1070.54067
1070.64757	1070.85390	1071.11571	1071.45081	1071.56390	1072.01212
1072.25481	1072.51294	1072.73548	1073.02366	1073.47334	1073.76763
1073.83660	1073.98062	1074.50819	1074.64709	1075.03726	1075.30962
1075.61089	1075.91404	1076.13580	1076.56740	1076.84899	1077.16484
1077.24194	1077.39651	1077.66686	1078.10410	1078.51903	1078.72568
1078.85305	1079.04225	1079.28383	1079.56863	1079.80039	1079.99238
1080.55806	1081.38611	1081.58345	1089.20034	1096.29196	1114.22934
1121.88804	1126.93469	1129.98570	1130.65355	1133.83998	1142.17977

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1144.73334	1147.36763	1148.65318	1149.09479	1150.29381	1150.53784
1151.32403	1151.41154	1154.03720	1156.20622	1157.67464	1158.92465
1164.28178	1165.00823	1166.08081	1166.65437	1167.44829	1168.79359
1169.78084	1172.60112	1172.73419	1174.18522	1178.23003	1179.02433
1180.23576	1182.02978	1182.30658	1182.70600	1183.20723	1183.61530
1184.12175	1184.23687	1185.49376	1186.13294	1186.38934	1188.34629
1188.94672	1190.40896	1190.62287	1191.38397	1191.74406	1192.33347
1192.60276	1193.01175	1194.33692	1194.86440	1195.96940	1196.41201
1196.76676	1197.75809	1198.22275	1198.78723	1199.13197	1199.83172
1199.97216	1200.93691	1203.61547	1204.41187	1205.20181	1205.46484
1206.05295	1207.23981	1207.81944	1208.17536	1208.73321	1208.85129
1209.33103	1209.50912	1209.66940	1209.76641	1210.27790	1210.38519
1210.66218	1210.90894	1211.40727	1212.14232	1212.66026	1212.98212
1213.55461	1213.73866	1215.09772	1216.06112	1216.27225	1216.90643
1217.75143	1218.38627	1219.06576	1219.42632	1223.67091	1229.06170
1237.64825	1239.45530	1358.44833	1398.12478	1408.55045	1410.46921
1448.43456	1461.14104	1463.52535	1468.06932	1479.78160	1485.35701
1715.09518	3005.84746	3008.23992	3011.27853	3069.66525	3079.54968
3091.56255	3107.85481	3117.19878	3128.97604	3138.80200	3217.86711

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0.00000	0.00000	0.00000	12.72043	27.42880	28.04476
34.25186	38.25440	40.02799	40.55029	42.00352	42.96673
47.86722	49.84330	51.16966	51.62268	52.14006	52.60038
54.16117	55.48487	56.66577	57.37319	60.95740	62.66963
63.14353	63.69690	64.04265	64.10126	64.43032	65.13310
65.54140	66.10821	66.40155	67.50003	68.31511	68.62157
69.70152	70.62315	71.67212	72.33001	72.95936	76.31899
78.34321	80.45373	81.10900	81.74146	82.47130	82.90259
83.62442	84.57501	85.21479	85.58458	86.22413	87.84130
89.24378	90.07572	90.63886	91.08970	91.36942	91.78174
92.35410	92.95053	93.53391	94.01155	96.07410	96.80261
99.18251	99.60278	100.06267	100.42302	101.62498	102.52900
102.97951	104.14268	104.84717	105.22341	105.89755	106.22998
106.62400	107.51380	107.64516	109.84021	109.91857	110.64516
110.78773	111.16499	111.45351	112.02015	112.51081	112.83126
113.10076	113.44588	113.68543	114.27759	114.65705	115.53896
115.68640	116.26695	116.68835	117.30927	118.40545	118.94810
119.28874	119.48234	120.79512	122.35673	122.96872	123.55520
123.69090	124.86485	125.63939	126.90532	127.93111	128.80864
131.16679	131.60141	133.98675	134.32145	134.71519	134.92603
135.51971	135.90463	135.99318	136.52971	136.66122	137.80159
139.95251	141.59378	142.67912	143.14383	143.94397	144.97722
145.21408	145.97033	146.61897	149.87434	152.73742	152.83238
153.52813	153.89009	154.40550	154.71416	155.13351	155.58941
156.07621	156.52410	157.74413	158.71874	159.73198	160.44333
160.64934	160.79348	161.08332	161.60435	162.07366	162.26907
163.15454	163.38922	163.90961	165.14128	165.41921	165.80029
165.88281	166.52215	169.79059	169.81190	171.55920	172.05125
172.85296	173.04176	173.73955	174.64362	175.66624	176.09750
176.83000	176.87842	177.64339	178.68438	180.08849	183.47469
185.11743	185.16787	189.55218	189.87814	190.72890	191.57545
192.47169	194.99987	196.93499	197.12654	198.10358	198.52668
199.18525	205.54285	210.73897	212.29415	213.59660	213.72317
214.79032	214.83850	215.11850	215.86089	220.00777	221.77839
224.27908	224.53080	225.08713	227.53831	228.46428	230.69120
234.18964	234.92562	235.40919	236.86451	236.96326	237.24992
238.10999	238.86092	240.77553	242.13405	242.61016	242.83379
243.67414	243.92162	244.06522	244.56645	245.38144	245.88734
247.01826	247.84060	248.65119	249.40539	249.52676	250.24507
250.80367	251.12706	251.35720	252.10365	252.84139	253.53878
253.72937	254.69904	254.84157	256.27827	256.82453	257.13659
257.64499	258.88300	259.80418	259.84156	260.33370	260.46472
260.81411	261.22660	262.35152	263.27111	265.79511	266.68567
267.07225	267.43683	267.56393	268.45877	268.98649	269.19268
269.54253	269.84984	270.43852	272.44652	273.76669	274.30995
275.30195	275.51350	277.55310	277.89179	280.39047	280.92492
282.09321	283.34061	285.05544	286.54657	289.12584	290.07405
290.58024	292.73270	293.16132	293.50689	294.70628	296.01117
296.37743	297.32872	297.93893	298.12472	299.07418	299.78131
300.85834	301.22549	301.92806	302.15719	302.70431	304.24933
306.19465	306.65913	309.63206	310.35286	311.58312	312.46239
312.82043	313.90053	314.80881	315.55769	315.96035	316.72819
316.80654	316.99317	317.48676	317.59236	317.87097	318.22798
318.36967	318.73658	319.84274	320.45933	321.11162	321.22910
321.69292	323.11391	323.41501	324.70719	324.85035	325.61224
326.18758	326.79913	327.38720	327.73307	327.89081	328.46921
329.59346	330.35297	330.77031	331.29963	332.06268	332.41755
332.99236	333.11460	333.71891	334.17922	334.59466	335.40449
337.63938	338.78876	339.69236	341.80146	342.34824	343.63457
344.05134	345.66313	345.67973	346.21007	346.43943	347.20873
347.76373	348.13775	349.23779	349.51762	350.94764	351.69757
353.39423	353.81547	354.28651	355.41466	356.55858	357.14582
358.02603	358.79531	360.59020	362.80335	363.41375	365.14857
365.64991	365.79745	366.88963	367.77976	369.20190	371.27171
379.89385	382.09776	382.47124	384.16892	384.92949	387.87777
390.46255	392.49291	393.24754	393.66321	393.89846	395.75572

396.35726	397.00069	397.20983	397.46715	399.06781	399.38520
400.47582	401.15349	401.83614	402.40909	402.94103	403.46251
403.52074	403.74376	405.10727	405.96456	406.55609	406.86796
409.08244	409.35705	410.48178	410.80943	414.95578	416.38080
416.84658	418.53826	420.32544	421.06064	421.31878	422.32047
422.46227	432.36610	435.81047	438.15904	439.75743	440.31293
440.75450	441.60165	442.60966	443.01387	449.13563	452.18645
457.42386	460.63572	461.35281	462.25595	465.30343	466.59961
467.16666	467.97335	472.25491	472.93619	474.13009	476.41981
478.31910	479.79198	481.58775	482.58039	482.99734	484.36177
486.64404	487.76297	488.25030	488.79253	489.07014	489.80419
489.93610	490.87889	491.51985	492.29742	493.83592	494.70478
495.05396	495.48851	495.79508	495.89701	496.32405	496.52504
496.78591	496.91785	497.59120	497.72982	497.84356	498.29932
498.31498	498.58628	498.77605	499.03648	499.29967	500.02826
500.59673	501.61756	502.20556	503.56124	504.93535	505.87423
508.54382	509.64298	510.77528	511.89786	513.72043	517.37148
518.78895	519.06411	519.18843	519.56413	519.78017	521.09451
523.15035	523.25312	524.50855	527.38908	529.39856	539.72310
541.25550	543.65210	547.21745	547.86850	551.45518	553.76949
560.43861	561.54930	581.21072	582.95547	583.45144	584.75978
591.31343	598.83598	604.22931	606.08554	620.30229	626.18861
627.87470	630.91180	632.61822	633.96843	639.58131	642.48382
643.51077	655.22389	656.39362	662.26169	664.48625	664.94526
665.55678	666.37121	666.65881	667.09220	667.63129	668.56901
669.90219	678.10867	684.73242	688.01864	688.37780	688.85676
692.07948	694.32680	696.49951	697.83476	698.17032	699.82305
700.52692	702.07403	703.97635	709.09142	713.68172	717.37571
718.47496	720.48836	722.36104	723.27569	723.69173	731.60368
733.02528	736.39103	738.31386	742.90372	744.05175	753.74773
760.66985	762.67388	765.11236	770.40006	777.75200	779.61884
784.70787	788.81469	790.20011	791.73233	793.33102	794.87486
796.10274	803.22135	816.33229	819.45217	820.62342	821.61085
824.79296	831.27830	839.15112	844.80507	850.69878	856.17810
858.57283	867.23300	867.63890	867.80689	869.11612	869.93571
870.19166	870.38423	870.66199	870.83270	871.12502	871.90715
873.52916	873.84733	875.54764	875.92037	876.23962	877.57621
878.02484	879.37529	880.26832	880.71687	880.86396	881.74266
882.43937	883.02306	883.64925	884.89468	885.34881	885.66544
886.54774	886.81783	887.87039	888.34036	889.54263	890.22157
891.95668	892.26482	893.06668	893.50933	893.72832	894.21984
894.60368	895.52017	895.94698	896.36803	897.15601	898.14111
898.72633	898.99259	900.11197	900.54392	900.71002	901.16751
901.46436	902.33121	903.20954	904.22955	904.49585	906.31754
907.70044	908.74221	909.51759	910.84317	911.34878	912.26471
913.42472	913.83784	914.79293	915.01626	915.23997	915.46505
916.26938	917.30759	918.22500	918.80962	920.73305	921.28825
921.79771	922.59668	923.30663	924.72464	925.33535	927.01401
929.21904	929.44185	931.21855	936.49858	938.80802	943.29462
947.05734	949.54261	956.42624	968.36780	971.38238	987.16143
1007.07992	1035.75572	1041.29390	1042.49964	1050.46131	1051.31728
1051.80737	1052.93033	1053.35626	1053.77947	1053.86107	1054.87841
1054.99244	1055.70546	1056.13221	1056.55127	1056.96875	1057.07547
1057.37657	1058.14128	1058.46121	1058.95466	1059.06743	1059.49516
1059.81055	1060.05282	1060.52761	1060.80585	1061.11212	1061.64979
1062.48078	1062.88125	1063.62962	1063.99918	1064.43721	1064.95753
1065.19577	1065.43646	1065.52926	1065.64763	1065.80677	1065.92913
1066.14297	1066.29812	1066.43411	1066.68438	1066.75967	1066.84830
1067.65729	1067.88634	1067.92460	1068.70183	1069.19674	1069.50259
1069.66697	1070.23844	1070.54860	1070.71918	1070.73696	1070.96683
1071.33602	1071.62585	1072.07755	1072.36297	1072.44314	1072.76672
1073.19570	1073.40970	1073.83011	1073.87310	1074.16706	1074.44543
1074.71491	1075.08957	1075.32136	1075.57917	1076.11824	1076.38169
1076.70694	1077.06713	1077.22688	1077.33444	1077.52125	1077.84789
1078.19754	1078.48435	1078.69039	1078.93696	1079.08324	1079.40834
1079.68469	1079.80353	1080.24131	1080.39966	1080.62814	1081.51264
1081.98231	1090.99315	1095.46905	1113.98211	1121.18452	1127.16470

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1130.41845	1133.35396	1142.21571	1144.47722	1146.97350	1148.15352
1148.98604	1150.26879	1150.49273	1151.24141	1151.39392	1152.58057
1155.89252	1156.65235	1158.98245	1160.97065	1163.51947	1164.70454
1165.33290	1166.37510	1167.02534	1167.50304	1169.80920	1171.83987
1172.84910	1173.60438	1175.65666	1178.89261	1179.70294	1182.07129
1182.25569	1182.66747	1183.02662	1183.67199	1183.83006	1184.05688
1184.69635	1185.52978	1186.04410	1186.55525	1188.26348	1189.16217
1190.21159	1190.66346	1191.37889	1191.75765	1192.29412	1192.64809
1193.00915	1194.32152	1194.95804	1195.97317	1196.30519	1196.72184
1197.83118	1198.24296	1198.72507	1199.33366	1199.97532	1200.14650
1200.68647	1203.70048	1204.56765	1205.24805	1205.70602	1206.06105
1207.18089	1207.61967	1208.31983	1208.75747	1209.05574	1209.27529
1209.35175	1209.76749	1209.78424	1210.09498	1210.33714	1210.70946
1210.95929	1211.45659	1212.12384	1212.55861	1212.73584	1213.25393
1213.79211	1215.19241	1216.09924	1216.31342	1216.95799	1218.02654
1218.22260	1219.01820	1219.43228	1223.70784	1228.72739	1239.76123
1278.85760	1395.14617	1396.56474	1397.62075	1412.36198	1447.88380
1456.68097	1459.11325	1467.01243	1474.21256	1482.41398	1485.32187
1493.99767	1704.44633	3003.09073	3005.81785	3009.87843	3012.22250
3063.11510	3080.47569	3097.55968	3105.58753	3131.22159	3142.80784
3151.74240	3156.71053	3325.91639			

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42.57291	46.28443	48.55003	50.66809	51.35275	52.40546
52.60410	53.00551	54.20246	55.45374	56.50534	60.47702
62.41402	63.29153	63.60892	63.65179	64.01897	64.46901
64.84069	65.26441	65.76124	66.24967	66.63079	68.17029
68.56979	69.58298	70.28495	70.84436	72.06599	73.11074
73.64912	78.61890	80.53998	81.18680	81.65467	82.59274
83.18214	83.73841	84.17658	85.29205	85.86131	86.95012
88.30787	89.53326	90.32547	90.79759	91.06582	91.52148
92.17017	92.91952	93.37725	93.97378	96.00810	97.11183
98.88523	99.53018	99.79424	100.29898	100.44608	101.70171
102.63264	102.94721	104.43762	104.73173	105.36045	105.56938
106.25184	107.11157	107.55119	107.68657	109.75332	110.24764
110.63033	111.01196	111.24243	111.83399	112.26722	112.69678
112.97187	113.34617	113.58924	113.86229	114.15633	114.56122
115.57989	116.03439	116.70592	117.38814	117.94077	118.76723
119.25563	119.42188	120.76491	122.49516	122.95992	123.51160
123.93978	124.92806	125.74688	126.61634	126.91813	127.87003
129.69118	130.98889	132.40202	134.11754	134.35445	134.83791
135.10017	135.60311	136.05348	136.22751	136.53792	136.79602
139.16151	140.55691	140.88741	142.75705	143.16709	143.91623
145.37816	145.47593	146.22484	146.55668	150.01021	152.50625
153.08921	153.51481	153.90800	154.29452	154.89585	155.20913
155.28106	156.05486	156.52627	158.76097	159.72302	160.36618
160.44492	160.76047	161.17322	161.47611	161.85100	162.17364
162.47932	163.01263	163.59704	163.81634	164.97171	165.28280
165.53790	165.77386	166.56880	169.55200	169.81617	171.08810
172.38427	173.07940	173.25980	173.31314	174.98618	175.42898
175.91528	176.79164	176.89307	177.33411	180.41410	183.77536
185.04931	185.30991	189.72055	189.86769	190.88393	191.75196
192.45354	194.97275	196.93694	197.51343	198.04390	198.45555
199.46673	205.69484	210.55780	212.97155	214.44932	214.54716
214.77414	215.01141	215.42205	219.59766	220.07674	222.56678
223.98515	224.64941	225.02113	227.54221	228.19439	230.67306
234.17280	234.85896	235.49771	236.76726	237.05091	237.20210
238.17204	238.35543	240.63756	241.80269	242.51669	242.72217
243.48978	243.80594	244.16627	244.48854	245.18955	245.53885
246.88478	247.60719	248.54894	249.08549	249.57988	250.29076
250.54799	251.08728	251.31771	251.92270	252.16069	253.14073
253.38462	253.93975	254.75346	255.17930	255.84872	256.52698
256.93987	257.14014	258.25071	259.50084	259.90583	260.05767
260.51713	260.70369	261.06222	262.51181	263.23191	265.69077
266.55578	267.15855	267.27883	267.57573	268.47467	268.59320
269.21387	269.34618	269.64855	270.80425	272.43112	273.69991
274.05173	275.32936	275.60242	277.28297	277.82474	280.56195
281.27694	282.26510	283.78797	285.28883	286.55799	288.94045
290.12868	290.35361	292.61331	292.69078	293.23835	293.35320
294.64021	295.87524	296.33469	297.45779	297.95586	298.03782
299.07397	299.42852	300.78006	301.04055	301.99821	302.60135
302.74684	304.65718	306.07730	306.48362	309.27680	310.27667
311.59147	312.45040	312.77585	313.51762	313.77135	315.32330
315.87368	316.56691	316.66095	317.01150	317.53999	317.65805
317.89839	318.32072	318.39539	318.73366	319.77646	320.12356
321.04476	321.68625	321.83640	322.57680	323.26571	323.57676
324.46245	324.75058	325.67114	326.19290	326.70451	327.30194
327.81056	327.89356	328.28363	329.55291	330.31637	330.67788
330.91224	331.62034	332.43551	332.80046	333.07791	333.68910
334.07062	334.18171	335.20389	337.67328	338.32019	339.56644
341.86534	342.83282	344.02886	345.80823	346.18788	346.28475
346.43921	347.57150	347.89194	349.20784	349.57650	350.67619
351.44454	353.33510	353.79469	354.19165	355.61319	356.55123
357.30088	358.15814	358.89803	360.62627	362.92926	363.39505
365.08539	365.26452	365.67588	365.91847	366.82409	367.82027
369.52535	371.60036	380.45146	381.36058	382.50536	384.06941
385.18707	387.45611	390.61937	392.71251	393.38218	393.56193

393.96903	395.84559	396.50484	397.11705	397.31973	397.40319
398.69903	399.62240	400.00744	401.12370	401.85847	402.50066
402.95790	403.45008	403.69402	403.84492	405.02154	406.37457
406.49839	406.75114	408.85676	409.31072	410.42059	410.99005
415.16645	416.35598	418.47164	420.23178	421.03142	421.31882
422.47181	432.61894	435.45769	436.10062	438.09243	439.67487
440.55304	440.79260	441.64513	442.55966	442.98617	449.26292
452.04016	457.91897	460.34706	461.57592	462.17042	465.42702
466.63627	467.14616	467.71003	472.08492	472.94353	473.99856
476.26898	478.02615	479.42136	481.57534	482.71506	483.04625
484.48871	486.76008	486.91611	487.96055	488.38097	489.08513
489.48310	489.80377	490.13532	490.76429	491.25930	492.54063
493.43911	494.98655	495.10823	495.40792	495.87815	496.00732
496.23748	496.42703	496.72537	496.90204	497.47622	497.66920
497.92509	498.30110	498.44241	498.57769	499.13359	499.26751
500.06179	500.78409	501.69462	502.22371	503.18585	504.62148
505.65468	508.33854	509.66637	510.99979	511.88143	513.84724
517.72567	518.97150	519.07536	519.20020	519.65376	521.81170
522.91304	523.38893	524.53179	527.56307	528.89751	540.22594
541.39485	543.56931	547.28876	547.81101	549.17268	551.67580
554.31236	560.57708	562.50242	581.71884	582.71020	583.26312
584.85979	593.41714	598.04691	604.26633	604.70218	618.42859
622.16768	627.41339	629.91025	632.13612	633.15509	639.39342
642.27455	643.46684	653.79328	656.47449	660.47514	664.41906
664.84970	665.44876	666.32974	666.65017	667.32345	667.57617
668.10002	670.02335	675.98069	685.13356	687.75010	688.41534
688.77893	694.09534	696.16637	697.66521	698.11334	699.35712
700.73854	702.08596	704.31861	708.69453	713.91218	717.06854
718.41842	720.41563	722.39015	722.90183	723.96952	730.66746
732.99470	736.69680	738.11823	742.89117	743.72538	744.42912
754.44350	760.59940	763.58554	764.97881	770.24953	778.39747
779.64719	784.75710	789.01609	790.20959	791.36632	791.77956
793.21114	795.14663	796.10755	804.88089	816.55320	819.08196
820.59375	821.48440	823.71460	830.98584	840.37143	842.68489
850.77764	853.27609	855.72629	857.76857	867.31561	867.72064
868.01722	869.06553	869.92835	870.13815	870.37898	870.65483
870.80832	871.14599	871.78195	873.58845	873.79617	875.53853
875.90368	876.35203	877.32212	878.15300	879.43633	880.18751
880.50692	880.87287	882.10362	882.48599	882.96373	883.75373
884.92030	885.25129	885.78465	886.55156	886.85379	887.62794
888.53101	889.24749	889.54123	890.12683	891.99550	892.32497
893.10905	893.50023	893.68575	894.21574	895.46224	895.96877
896.73300	897.28929	898.14790	898.68759	899.07326	900.11799
900.44818	900.57573	901.02177	901.45135	902.26334	902.96337
903.98455	904.01774	904.85443	906.44325	907.83211	908.66476
909.47338	911.04020	911.54192	912.20956	913.51678	913.92834
914.45116	915.03571	915.18627	915.71966	916.21860	917.19583
917.93560	918.82385	920.64203	921.40996	921.80035	922.70229
923.06347	924.63729	925.38105	926.86868	929.20543	929.57593
931.20622	936.73858	938.64463	949.50788	956.37369	957.77954
968.37998	987.15290	1001.63358	1012.21939	1037.48203	1041.14618
1050.49207	1051.34036	1052.22472	1053.09846	1053.31076	1054.01003
1054.07231	1054.39456	1054.74490	1055.67962	1055.95695	1056.12231
1056.56713	1057.06024	1057.38225	1057.91922	1058.33132	1058.45119
1059.10843	1059.25545	1059.50573	1059.88731	1060.38364	1060.90863
1060.95524	1061.09548	1061.71970	1062.60443	1063.19303	1063.75243
1064.31158	1064.37551	1064.96144	1065.20116	1065.43264	1065.52033
1065.55182	1065.78365	1065.97206	1066.22326	1066.45387	1066.68436
1066.72629	1066.77021	1067.41011	1067.45584	1067.83226	1067.89039
1068.37087	1069.03755	1069.53006	1070.14063	1070.25595	1070.52078
1070.64100	1070.85398	1071.00915	1071.43466	1071.70822	1071.99617
1072.30005	1072.45223	1072.75583	1073.09994	1073.53632	1073.79393
1073.87574	1074.07910	1074.54127	1074.69001	1075.05333	1075.33554
1075.75480	1075.95451	1076.09983	1076.65949	1076.88925	1077.18264
1077.39066	1077.55886	1077.75367	1078.19590	1078.55444	1078.73216
1078.90372	1079.11367	1079.29124	1079.58640	1079.78966	1080.12276
1080.55508	1081.37041	1081.57177	1087.57459	1094.97774	1096.53099

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1103.97948	1114.24245	1121.80118	1128.57842	1130.48381	1132.63549
1133.89238	1141.97211	1144.78602	1147.37554	1148.68197	1148.99413
1150.30337	1150.52865	1151.36112	1151.43611	1153.56200	1156.20699
1157.41461	1158.98259	1163.25957	1164.84708	1165.56058	1166.68467
1167.30201	1167.53783	1169.78223	1172.25765	1172.65735	1173.80843
1176.85691	1178.74284	1179.93272	1182.04232	1182.36780	1182.68980
1183.15485	1183.54857	1184.04446	1184.25246	1185.48475	1186.08196
1186.35142	1187.62733	1188.87187	1190.24069	1190.59567	1191.40805
1191.75611	1192.43514	1192.54396	1192.96138	1194.10208	1194.89155
1195.79770	1196.27581	1196.76563	1197.74602	1198.20085	1198.74364
1199.12006	1199.57530	1199.99470	1200.76466	1203.60381	1204.43128
1205.25021	1205.48583	1206.08312	1207.27943	1207.84951	1208.20376
1208.72294	1208.78680	1209.32205	1209.55326	1209.67936	1209.78064
1210.21760	1210.28311	1210.68189	1210.95272	1211.36857	1212.16225
1212.63465	1213.04792	1213.54622	1213.81979	1214.97509	1216.05736
1216.27346	1216.90268	1217.74218	1218.41809	1219.01433	1219.60662
1222.44003	1223.67718	1228.90241	1239.07037	1261.09328	1286.41589
1315.22102	1361.75867	1380.93649	1398.87354	1403.73242	1411.51499
1446.85380	1459.21060	1466.94264	1470.48068	1473.45774	1476.58049
1482.44316	1487.97757	1711.41239	3006.81019	3011.49164	3013.02793
3015.81328	3028.73168	3056.88245	3072.30027	3079.31891	3087.41427
3088.91389	3093.22862	3100.77092	3116.96343	3134.12310	3261.13844

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0.00000	0.00000	0.00000	15.61465	18.50454	27.40558
27.81358	32.51140	38.56570	40.03032	40.52622	41.30850
42.32883	44.98770	48.73236	50.17946	51.11340	51.45987
52.41590	53.35967	53.71459	55.29723	55.79060	60.51867
60.86321	62.94964	63.38343	63.50504	63.98327	64.07076
64.72387	64.93428	65.57119	66.27361	66.32229	67.55913
68.46578	68.93965	70.25195	70.64631	71.77060	71.90145
73.07717	75.67600	78.10982	81.07289	81.72108	82.02583
82.75832	83.34025	83.82990	84.48703	85.17889	86.20231
86.76524	87.89962	89.50622	90.07206	90.55963	90.97192
91.85662	92.16962	92.99679	93.33427	93.47609	94.47400
96.05926	96.43996	99.37258	99.61259	100.22704	100.53810
101.53339	102.51517	102.94484	103.66556	104.91122	105.12675
105.72069	106.00327	106.31315	107.37666	107.54613	109.63586
109.99959	110.56315	110.86405	111.07993	111.16284	112.06406
112.57282	112.60494	113.29298	113.52056	113.66448	113.74048
114.05205	114.50263	115.45860	116.32160	116.66259	117.27487
118.12569	118.77166	119.16640	119.40486	120.57554	122.48408
122.93107	123.43335	123.74435	124.97358	125.57720	126.74801
127.81480	128.64435	131.05739	131.23293	133.95724	134.37124
134.70248	134.91563	135.48774	135.86873	136.03057	136.52815
136.74777	138.03377	139.97458	140.38052	142.22779	142.98810
143.45627	143.96994	145.08011	145.19080	146.28506	146.78226
149.73449	152.69142	153.01152	153.74300	153.83945	154.41103
154.58375	155.15461	155.42676	156.00809	156.89884	158.46853
159.71396	160.27472	160.53446	160.76803	161.15301	161.62023
162.06085	162.32562	163.26881	163.46373	163.91129	165.03436
165.31530	165.47279	165.96960	166.20987	169.74143	169.86509
171.01143	172.43674	172.84332	173.13401	173.48957	174.98075
175.62937	176.03810	176.88537	176.94567	177.45441	179.91408
183.91157	185.21428	185.27633	189.58403	189.92764	190.74094
191.72616	192.51032	194.90306	197.01101	197.37494	198.08768
198.44435	199.41082	205.77053	210.78239	213.34774	214.15319
214.29626	214.83792	215.04295	215.39806	220.07493	221.99829
224.47153	224.55023	225.01468	227.45139	228.77860	230.57002
231.58342	234.30696	234.98687	235.50743	236.79854	237.09312
237.41769	238.21831	238.41607	240.78731	241.80612	242.72288
242.83780	243.73982	243.94915	244.14132	244.55140	245.39672
245.86604	246.99125	247.70482	248.65000	249.32299	249.75231
250.27268	250.75023	251.16214	251.35877	252.14079	252.35690
252.87961	253.40783	253.61979	254.50335	254.89758	256.11793
256.77689	256.95403	257.23307	258.80178	259.60633	259.91161
260.33907	260.56976	260.79507	261.21354	262.32333	262.98926
265.78212	266.57403	266.77675	267.22674	267.57451	267.94562
268.47484	268.74594	269.26475	269.61961	269.87434	270.83413
271.75649	273.69727	274.30431	275.53437	275.72742	277.59604
278.08322	280.65410	281.06705	282.10470	283.61494	284.30507
285.17357	286.99168	289.09812	290.43745	290.78600	292.73358
293.24829	293.55346	294.73567	295.94635	296.48363	297.46646
297.93636	298.08751	299.05886	299.70676	300.73442	301.21419
301.92134	302.35719	302.71427	304.45782	305.83299	306.45447
309.59955	310.22547	311.59016	312.50828	312.81469	313.60015
314.26349	315.45640	315.83880	316.70827	316.96799	317.16369
317.49955	317.67202	317.86327	318.23192	318.51604	318.82464
319.95083	320.28685	321.09555	321.71729	322.09144	323.06272
323.54108	324.76354	324.78515	325.82071	326.22170	326.67124
327.36165	327.76450	327.98700	328.29110	329.64154	329.86214
330.37617	330.74534	331.20301	331.67325	332.37951	332.92931
333.16929	333.68057	333.98563	334.51323	335.26462	337.78025
338.57300	339.55134	341.63207	342.86332	343.60418	344.48713
345.79895	346.34868	346.39312	346.45635	347.48600	347.61454
349.03932	349.74648	350.58422	351.32031	353.36927	353.79511
354.10583	355.31272	356.53980	357.21359	358.18462	358.79543
360.70736	362.74640	363.48691	365.08100	365.24822	365.81600
366.51684	367.75010	369.24198	371.16610	380.36129	381.78933
382.39794	384.08463	385.05701	387.67513	390.88261	392.50581

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393.25281	393.57886	393.91015	395.91950	396.55078	397.04407
397.19787	397.40697	398.70130	399.58164	400.20508	401.07693
401.99888	402.35322	402.95213	403.43115	403.63177	403.77316
405.23446	406.37643	406.61744	406.77648	408.87222	409.37062
410.29099	410.99293	415.04211	416.43136	418.54700	420.14415
421.00726	421.24422	422.38619	432.82362	436.05465	438.15206
439.65336	440.48647	440.81192	441.62489	442.65644	442.96422
449.49196	452.14779	458.58263	460.62218	461.67566	462.42696
465.63002	466.66941	467.18211	468.51848	472.25820	472.93602
474.35731	476.34729	478.08723	479.35680	480.60063	481.59265
482.62264	483.22644	484.35515	486.78527	487.80482	488.28055
488.79666	489.16453	489.80406	490.05024	490.95075	491.37714
492.56782	493.31564	495.08758	495.23906	495.50998	495.90420
496.08203	496.31042	496.61305	496.73953	496.86387	497.47766
497.69122	497.91551	498.34875	498.47032	498.59728	499.12102
499.24155	500.10643	500.66805	501.66864	502.18380	503.26674
504.69101	505.98603	508.32063	509.76197	511.05724	511.92137
513.93530	517.57217	518.96200	519.05324	519.18469	519.77465
521.52773	523.03187	523.36545	524.58157	527.50917	528.89283
533.32347	540.44536	541.92667	543.44673	547.43101	547.96595
551.89782	554.83925	561.16262	564.38713	581.81689	583.19398
583.81583	584.89663	595.58574	599.88484	604.41299	606.95428
620.65010	627.59840	629.88536	631.98805	633.06373	639.45104
642.34612	643.32802	652.59053	656.06929	659.84862	664.31709
664.78754	665.47453	666.18740	666.63882	667.43849	667.58299
667.99398	669.96630	672.60088	683.47495	687.65347	687.96676
688.57562	688.96693	694.56569	697.18938	697.86608	698.19581
699.85246	701.03585	702.07560	705.04086	709.05357	713.96995
717.39564	718.42400	720.83998	722.44609	723.08737	723.82889
726.02466	732.04128	733.72553	736.56119	738.20640	742.87218
743.98070	753.62961	755.55943	761.08793	763.65164	765.51039
770.18208	779.35574	780.48813	784.43592	788.67968	790.15941
790.98833	792.97362	794.86953	795.08868	796.15962	805.45451
816.09701	819.98740	820.57211	821.94748	824.64137	831.55549
838.56463	844.85590	850.10598	855.65993	858.01296	867.39085
867.76561	868.22255	869.07102	870.04938	870.25138	870.46121
870.62412	870.89626	871.15117	871.80182	873.66592	873.76784
873.87519	875.72901	876.07786	876.39942	877.40929	878.52153
879.58770	880.16169	880.55122	880.84581	881.99868	882.56147
883.10374	883.52795	884.81518	885.20515	885.53163	886.39524
886.73739	887.61872	888.40727	888.67511	889.35622	890.14891
891.99258	892.29934	893.01417	893.53125	893.74032	894.27712
895.58797	895.99842	896.62332	896.93803	897.50026	898.01463
898.92268	899.10690	899.99701	900.47615	900.50722	901.19074
901.53398	902.43898	903.04858	904.13948	905.01106	906.49290
907.80559	908.33564	909.39692	910.95236	911.38319	912.30036
913.44946	913.71425	914.09604	914.69267	915.05855	915.28381
915.45375	916.43567	917.26014	918.07201	919.01704	920.61483
921.38141	921.79732	922.66475	923.20946	924.84340	925.36853
927.09108	929.21511	929.60497	931.15697	936.79836	938.71442
949.53017	956.49686	968.51581	987.21219	1000.89602	1014.77142
1035.47160	1038.55778	1041.17743	1050.45313	1051.28066	1052.81638
1053.28804	1053.30765	1053.99123	1054.15441	1054.86580	1055.56445
1055.65437	1056.04330	1056.32531	1056.53371	1057.16622	1057.64696
1057.90905	1058.01469	1058.54648	1059.07038	1059.24563	1059.43260
1059.83883	1060.63588	1060.75278	1061.01617	1061.15795	1061.80814
1062.63942	1063.40715	1063.54059	1064.24423	1064.69161	1064.95742
1065.13209	1065.34224	1065.55722	1065.68138	1065.80715	1065.98285
1066.17946	1066.46957	1066.65938	1066.74024	1066.77742	1067.29551
1067.41227	1067.93392	1068.03993	1068.75603	1069.41867	1069.50892
1070.07896	1070.30550	1070.61797	1070.78716	1070.96795	1071.16295
1071.53650	1071.82820	1072.04898	1072.36553	1072.47824	1072.72728
1073.07963	1073.58539	1073.80755	1073.85902	1074.10361	1074.43941
1074.61858	1075.09759	1075.24561	1075.74453	1076.07863	1076.20345
1076.56655	1076.80402	1077.14573	1077.32399	1077.58440	1077.66558
1078.13957	1078.22392	1078.55830	1078.80157	1078.86185	1079.03919
1079.23164	1079.65994	1080.01904	1080.23922	1080.55271	1081.25541

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1082.18687	1091.07766	1094.19527	1108.04573	1112.11161	1114.00385
1121.46628	1128.61592	1130.48486	1133.28517	1142.27667	1144.71904
1147.45146	1148.59589	1149.13410	1150.29039	1150.65454	1151.33197
1151.46106	1154.01759	1156.15357	1157.50183	1159.03536	1164.33420
1165.02535	1166.10962	1166.51909	1167.53463	1168.50306	1169.87616
1171.46883	1172.51105	1172.81055	1174.27092	1178.18974	1179.02400
1179.92144	1182.07336	1182.42642	1182.71694	1183.11307	1183.69624
1184.26574	1184.45499	1185.58903	1186.05137	1186.58135	1188.51224
1188.90570	1190.28466	1190.55392	1191.37821	1191.77404	1192.42389
1192.51914	1193.20566	1194.23824	1195.06697	1196.14601	1196.41554
1196.74171	1197.81422	1198.30387	1198.89842	1199.21538	1199.84481
1200.00263	1200.89522	1203.65241	1204.52735	1205.37459	1205.59799
1206.12702	1207.21432	1207.68944	1208.38973	1208.71889	1208.89348
1209.30686	1209.56183	1209.69649	1209.77827	1210.21238	1210.56783
1210.64301	1210.98855	1211.41161	1212.14084	1212.68232	1212.92977
1213.28602	1213.98526	1215.11514	1216.00109	1216.25472	1216.97705
1217.98944	1218.34138	1219.03341	1219.13170	1223.68173	1228.78123
1234.77803	1237.81521	1253.37632	1275.55232	1292.36184	1311.67518
1324.32088	1334.42351	1349.48727	1379.30727	1395.90231	1403.18224
1408.58008	1448.16733	1462.60134	1471.37983	1471.92975	1476.34331
1479.32567	1486.41497	1487.46742	1709.26033	2966.99867	3005.09386
3006.55551	3014.22096	3019.11347	3020.96452	3028.03918	3044.82815
3062.68762	3065.93921	3091.62988	3095.02532	3098.61821	3099.92928
3121.93055	3128.40110	3211.34460			

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0.00000	0.00000	0.00000	15.35195	26.07036	27.60032
29.12084	34.88798	39.72163	40.43079	40.50949	41.93773
42.64776	46.74502	49.42197	51.07501	51.72276	52.15929
52.26807	53.48193	54.17175	55.26566	56.16600	60.93048
62.17380	62.93684	63.43807	63.76842	64.14247	64.40876
64.74027	65.59977	65.87561	66.42257	67.12155	68.30669
68.70488	69.56963	70.25601	70.86711	71.82119	72.90277
73.48563	78.11776	78.81814	81.16853	81.70921	82.71190
83.35602	83.73809	84.07573	84.84052	85.56581	85.82280
88.20392	89.40937	89.80606	90.62672	90.91981	91.06320
91.70557	92.19997	92.92968	93.45079	93.82596	96.04795
96.56248	98.89327	99.38143	100.08363	100.15845	100.59513
101.76713	102.42262	102.94013	103.99488	104.81801	105.36413
105.62764	106.06571	106.46629	107.37140	107.52558	109.78370
110.53175	110.64419	110.78212	111.24943	111.61369	112.17922
112.50499	112.82907	113.21532	113.42987	113.61761	113.95987
114.47003	115.51831	115.99746	116.48421	117.14189	117.96725
118.79400	119.19294	119.38649	120.45674	122.41708	122.91494
123.29771	123.86360	124.90708	125.72895	126.61737	127.89812
128.77380	130.86894	131.66117	132.30875	134.06661	134.27924
134.76230	134.93692	135.53287	135.73403	136.05399	136.52919
136.67340	138.83108	140.50658	140.57083	142.59028	142.92595
143.86612	145.01798	145.45433	146.12433	146.59878	150.02856
152.53616	153.07246	153.68470	153.90163	154.36150	154.65065
155.18694	155.26970	155.87658	156.44686	158.42395	159.58146
160.21222	160.45380	160.77204	160.87824	161.51742	162.02008
162.22208	162.87773	163.34033	163.79394	164.90479	165.24650
165.46957	165.70733	166.24677	169.41165	169.74145	171.13252
172.27851	172.93963	173.12776	173.29485	174.66511	175.46624
175.84879	176.56517	176.85695	177.09677	178.34843	180.44047
184.22078	185.03953	185.93013	189.76262	189.85281	190.89415
192.04204	192.71743	195.00752	196.88322	197.62402	198.16329
198.54364	199.36926	199.52325	205.76668	210.88686	213.10108
214.15672	214.54273	214.83770	214.97910	215.51132	219.98278
222.42994	223.96949	224.72533	225.09024	227.58564	228.24409
230.70124	234.18039	234.92097	235.55532	236.86417	236.94252
237.03344	238.09531	238.49288	240.61317	241.98935	242.56873
242.78280	243.62144	243.76003	244.16049	244.54558	245.18936
245.40437	246.89503	247.70866	248.64642	249.17094	249.70365
250.23281	250.61082	251.10261	251.16991	251.55268	252.02153
252.51346	253.06245	253.61099	253.73445	254.58619	254.96045
256.13671	256.71665	257.07060	257.20396	258.48843	259.59787
259.97700	260.24343	260.47110	260.72445	261.19608	262.37574
263.16782	265.70830	266.55381	267.23764	267.38241	267.70968
268.45946	268.59687	269.21317	269.27723	269.66692	270.91132
272.43315	273.66363	274.24505	275.08774	275.49517	277.20083
277.85160	280.70862	281.21701	282.20981	283.44817	285.12376
286.44570	289.05528	290.26277	290.36639	292.69662	293.16369
293.47772	295.06315	295.86657	296.34653	297.27318	297.72950
297.96051	298.17868	299.09082	299.53974	300.62746	301.25059
302.01344	302.56511	302.79275	304.52070	306.53769	306.63568
309.68134	310.49133	311.61971	312.48949	312.75617	313.77654
314.01615	315.49678	315.75632	316.37800	316.78563	317.00844
317.57148	317.62877	317.89573	318.39360	318.48810	318.89183
319.85530	320.31841	321.03355	321.52455	321.78555	323.08612
323.63057	324.53738	324.94468	325.55439	326.15177	326.78828
327.39050	327.75896	327.85067	328.34128	329.75069	329.91829
330.39021	330.83235	331.09925	331.74817	332.43127	332.84372
333.15755	333.81681	334.03895	334.23377	335.24696	337.60470
338.43042	339.58595	341.92565	343.11457	344.21450	345.83515
346.16277	346.32155	346.45721	347.37904	347.87581	349.22819
349.76102	350.66664	351.59736	353.33344	353.80159	354.22982
355.66490	356.47660	357.28959	358.01508	359.09898	360.64599
362.94075	363.46333	365.11427	365.43580	365.85044	366.95343
367.68618	369.48776	371.47141	380.51720	381.86679	382.50134
384.23143	385.12947	388.02422	390.54728	392.71642	393.59132

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393.67831	394.00171	396.05112	396.54380	397.17046	397.35984
397.48547	398.72820	399.63358	400.29007	401.07461	401.83554
402.33346	402.97812	403.45841	403.54388	403.91092	405.03596
406.25933	406.49319	406.76097	409.05799	409.32479	410.42771
410.69818	411.64668	415.15621	416.40825	418.58811	420.25513
421.05010	421.33097	422.42358	425.44212	432.63430	436.24357
438.17721	439.59581	440.49705	440.84869	441.69058	442.49829
443.01024	449.34383	452.03615	458.64124	460.87324	461.76121
462.37653	465.33972	466.59454	467.15751	467.44661	472.13624
472.96062	474.17462	476.54737	478.21215	479.78743	481.66029
482.87506	483.18793	484.56402	486.78376	487.75904	488.48406
488.99239	489.18166	489.93077	490.05633	490.81155	491.48286
492.46403	493.68125	494.47273	494.92487	495.15379	495.47186
495.95632	496.09887	496.41986	496.55350	496.85900	496.92806
497.59721	497.66846	497.90028	498.32261	498.48310	498.56174
499.13923	499.30357	500.17890	500.61948	501.58156	502.09737
503.33075	504.78470	506.01025	508.46553	509.67552	510.98016
511.91424	513.70049	517.82713	518.89705	519.06564	519.21163
519.66058	521.18320	522.91886	523.35613	524.51462	527.49107
529.01224	539.90285	541.45327	543.61897	547.21638	548.13490
551.73761	552.92067	554.21148	560.46387	562.10782	581.94207
582.77265	583.32145	584.88671	593.31924	598.14884	604.33599
605.99087	620.13934	627.37553	629.31660	630.58615	632.38055
634.13207	639.48286	642.31426	643.54685	654.06638	656.71920
661.23782	664.52079	664.81597	665.57199	666.44388	666.65275
667.19888	667.63008	668.17708	669.98352	676.45196	685.21088
687.59970	688.39750	688.71162	694.10738	696.36086	697.67545
698.19439	699.43745	700.56725	702.08105	704.20259	708.78378
713.79200	717.05303	718.47728	720.48640	722.43696	723.05688
724.00111	730.99717	733.59456	736.73639	738.19221	742.92483
743.99063	744.93430	754.80514	760.65982	763.63613	765.21404
770.27096	775.87647	779.27726	780.94648	785.04757	789.60485
790.20414	791.86272	793.39235	795.19754	796.11147	808.01896
816.65780	819.66480	820.59624	821.57328	823.58002	824.63059
831.22893	840.37392	843.22625	850.93550	855.69001	858.45153
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870.18668	870.37142	870.73909	870.84590	871.10300	871.74362
873.66564	873.90084	875.46722	875.71261	876.50424	877.34081
878.12793	879.59673	880.26800	880.60781	880.87886	882.08694
882.56830	882.98973	883.71074	884.85910	885.24145	885.78523
886.59036	886.95102	887.82977	888.58623	889.34845	890.01462
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895.49727	896.00154	896.62093	897.18639	898.02737	898.76797
899.08305	900.22708	900.41334	900.68654	901.10262	901.50082
902.02331	903.14689	904.14433	904.52946	906.39635	907.78570
908.16099	908.62088	909.36275	911.00987	911.56556	912.21738
913.44414	913.86118	914.52612	914.97115	915.18745	915.81351
916.15589	917.21072	917.81687	918.79022	920.62987	921.38700
921.77453	922.71123	922.94467	924.50856	925.33566	926.92429
929.19782	929.46586	931.21955	936.58169	938.64135	941.76806
949.49338	956.41653	958.89623	968.41045	987.16766	1000.91311
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1072.86717	1073.13822	1073.54445	1073.80315	1074.00625	1074.10108
1074.54465	1074.66038	1075.09045	1075.33171	1075.54973	1075.88847
1076.06130	1076.58989	1076.89669	1077.14508	1077.32129	1077.42821
1077.72642	1078.08274	1078.46597	1078.72467	1078.84174	1078.95698
1079.33785	1079.66296	1079.91153	1080.13501	1080.61909	1081.02586

Supplementary Material (ESI) for *PCCP*

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1081.63047	1086.16686	1093.76519	1100.40180	1113.91305	1117.63987
1121.16254	1127.37990	1130.44029	1133.39044	1135.21777	1142.39982
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1184.23974	1184.31829	1185.48759	1186.18824	1186.38695	1187.74465
1188.97902	1190.04344	1190.63215	1191.34839	1191.68684	1192.32358
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1196.69854	1197.78868	1198.17240	1198.78225	1199.14360	1199.55287
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1217.49729	1218.16373	1218.63794	1219.10906	1219.49876	1223.72104
1228.16876	1239.72971	1253.96222	1269.77025	1312.09730	1324.72642
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1478.32202	1481.34734	1491.08455	1713.75175	2995.49130	3001.64574
3001.95536	3013.49181	3016.60066	3027.26422	3041.39496	3054.91633
3058.86762	3077.98234	3079.19251	3086.36467	3095.42098	3114.18841
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