

Electronic Supplementary Information (ESI)

**Chemoselective synthesis of aryl(pyridinyl)methanol derivatives through Ni-NIXANTPHOS catalyzed  $\alpha$ -arylation and tandem arylation/rearrangement of pyridylmethyl ethers**

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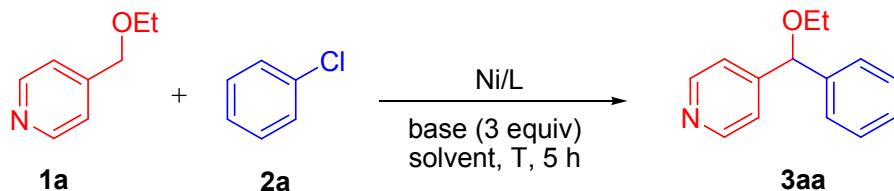
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## **1. General Information**

All air- and moisture-sensitive solutions and chemicals were handled under nitrogen or in a nitrogen filled glovebox and solutions were transferred via syringe. Anhydrous CPME (cyclopentyl methyl ether), DME (Dimethoxyethane), toluene, and tetrahydrofuran (THF) were purchased from Sigma-Aldrich and used without further purification. Unless otherwise stated, all reagents were commercially available and used as received without further purification. Chemicals were obtained from Sigma-Aldrich, Acros, TCI and Alfa-Aesar. TLC was performed with Merck TLC Silica gel60 F<sub>254</sub> plates with detection under UV light at 254 nm. Silica gel (200-300 mesh, Qingdao) was used for flash chromatography. Proton nuclear magnetic resonance (<sup>1</sup>H-NMR) spectra were recorded on Bruker DRX 400 spectrometer at 400 MHz. Carbon-13 nuclear magnetic resonance (<sup>13</sup>C-NMR) was recorded on Bruker DRX 400 spectrometer at 100 MHz. Chemical shifts are reported as  $\delta$  values in parts per million (ppm) relative to tetramethylsilane (TMS) for all recorded NMR spectra. The infrared (IR) spectra were measured on a Nicolet iS10 FTIR spectrometer with 4 cm<sup>-1</sup> resolution and 32 scans between wavenumber of 4000 cm<sup>-1</sup> and 400 cm<sup>-1</sup>. High Resolution Mass spectra were taken on AB QSTAR Pulsar mass spectrometer. Melting points were obtained on a XT-4 melting-point apparatus and were uncorrected.

**2. Ni-catalyzed direct arylation of pyridylmethyl ethers: Lab scale reaction optimization of ligands, Ni sources, solvents, temperature and ratio of Ni/ligand**

Table S1. Optimization of arylation of 4-pyridylmethyl ethyl ether **1a** with chlorobenzene **2a**



| Ni source | L                      | Ni/L<br>(mol %) | Base                                 | Solvent                              | Temp.<br>(°C) | Assay Yield<br>(%) |           |
|-----------|------------------------|-----------------|--------------------------------------|--------------------------------------|---------------|--------------------|-----------|
| 1         | <b>L1</b>              |                 |                                      |                                      |               | 70                 |           |
| 2         | <b>L2</b>              |                 |                                      |                                      |               | 14                 |           |
| 3         | <b>L3</b>              |                 |                                      |                                      |               | 0                  |           |
| 4         | <b>L4</b>              |                 |                                      |                                      |               | 0                  |           |
| 5         | <b>L5</b>              |                 |                                      |                                      |               | 0                  |           |
| 6         | Ni(COD) <sub>2</sub>   | <b>L6</b>       | 10/15                                | NaN(SiMe <sub>3</sub> ) <sub>2</sub> | DME           | 65                 | 0         |
| 7         |                        | <b>L7</b>       |                                      |                                      |               | 0                  |           |
| 8         |                        | <b>L8</b>       |                                      |                                      |               | 0                  |           |
| 9         |                        | <b>L9</b>       |                                      |                                      |               | 0                  |           |
| 10        |                        | <b>L10</b>      |                                      |                                      |               | 0                  |           |
| 11        |                        | <b>L11</b>      |                                      |                                      |               | 0                  |           |
| 13        | Ni(acac) <sub>2</sub>  |                 |                                      |                                      |               | 20                 |           |
| 14        | NiCl <sub>2</sub> ·gly |                 |                                      |                                      |               | 19                 |           |
| 15        | Ni(OAc) <sub>2</sub>   | <b>L1</b>       | 10/15                                | NaN(SiMe <sub>3</sub> ) <sub>2</sub> | DME           | 65                 | 41        |
| 16        | NiBr <sub>2</sub>      |                 |                                      |                                      |               | 23                 |           |
| 17        |                        |                 | LiN(SiMe <sub>3</sub> ) <sub>2</sub> |                                      |               | 76                 |           |
| 18        |                        |                 | KN(SiMe <sub>3</sub> ) <sub>2</sub>  |                                      | 65            | 7                  |           |
| 19        | Ni(COD) <sub>2</sub>   | <b>L1</b>       | 10/15                                | LiOtBu                               | DME           | 7                  |           |
| 20        |                        |                 | NaOtBu                               |                                      |               | 0                  |           |
| 21        |                        |                 | KOtBu                                |                                      |               | 0                  |           |
| 22        |                        |                 |                                      | CPME                                 |               | 37                 |           |
| 23        | Ni(COD) <sub>2</sub>   | <b>L1</b>       | 10/15                                | LiN(SiMe <sub>3</sub> ) <sub>2</sub> | Toluene       | 65                 | 75        |
| 24        |                        |                 |                                      |                                      | THF           |                    | 8         |
| 25        | Ni(COD) <sub>2</sub>   | <b>L1</b>       | 10/15                                | LiN(SiMe <sub>3</sub> ) <sub>2</sub> | DME           | 40                 | 73        |
| 26        |                        |                 |                                      |                                      |               | 25                 | <b>81</b> |
| 27        |                        |                 | 5/7.5                                |                                      |               |                    | 71        |
| 28        | Ni(COD) <sub>2</sub>   | <b>L1</b>       | 2.5/3.75                             | LiN(SiMe <sub>3</sub> ) <sub>2</sub> | DME           | 25                 | 60        |
| 29        |                        |                 | 10/10                                |                                      |               |                    | 76        |

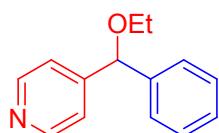
<sup>a</sup> Reactions conducted on a 0.1 mmol scale using 1 equiv of **1a**, and 1.5 equiv of **2a**. <sup>b</sup> Assay yield determined by <sup>1</sup>H NMR spectroscopy of the crude reaction mixture.

**Ligands:** L1 = NIXANTPHOS, L2 = XantPhos, L3 = DavePhos, L4 = DPE-Phos, L5 = Pxy<sub>3</sub>, L6 = DCE-Phos, L7 = SPhos, L8 = XPhos, L9 = RuPhos, L10 = DPPE, L11 = P(*o*-tol)<sub>3</sub>

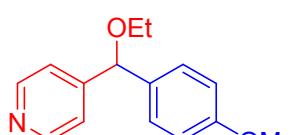
### 3. General Procedure and characterization of Ni-catalyzed arylation of pyridylmethyl ethers (Table 2 and 3)

**General Procedure A for the Ni-catalyzed chemoselective C(sp<sup>3</sup>)-H arylation of pyridylmethyl ethers:**

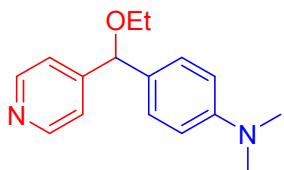
An oven-dried 8 mL reaction vial equipped with a stir bar was charged with pyridylmethyl ether **1a** (0.2 mmol, 1.0 equiv), chlorobenzene **2a** (0.3 mmol, 1.5 equiv) in a glove box under a nitrogen atmosphere at room temperature. A solution (from a stock solution) of Ni(COD)<sub>2</sub> (5.5 mg, 0.02 mmol, 10 mol %) and NIXANTPHOS (16.6 mg, 0.03 mmol, 15 mol %) in 1 mL of dry DME was taken up by syringe and added to the reaction vial. A solution of LiN(SiMe<sub>3</sub>)<sub>2</sub> (100.4 mg, 0.6 mmol, 3.0 equiv) in 1 mL of dry DME was added by syringe to the reaction mixture. Total volume of the reaction is 2 mL. The vial was capped, removed from the glove box, and stirred for 5 h in total at 25 °C. The reaction mixture was quenched with 3 drops of H<sub>2</sub>O, diluted with 2 mL of ethyl acetate, and filtered over a pad of MgSO<sub>4</sub> and silica. The pad was rinsed with an additional 6 mL of ethyl acetate (3 x 2 mL) and the solution was concentrated in vacuo. The crude material was loaded onto a silica gel column and purified by flash chromatography.



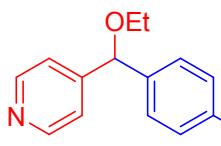
**4-(Ethoxy(phenyl)methyl)pyridine (3aa):** The reaction was performed following the General Procedure A with 4-pyridylmethyl ethyl ether **1a** (27.4 mg, 0.20 mmol) and aryl halides **2a** or **2a'** (**2a**, X = Cl, 30.5 μL, 0.3 mmol; **2a'**, X = Br, 31.5 μL, 0.3 mmol). The crude product was purified by flash chromatography on silica gel (eluted with EtOAc : hexanes = 1:5) to give the product **3aa** (X = Cl, 33.7 mg, 79% yield; X = Br, 36.3 mg, 85% yield) as a yellow oil. R<sub>f</sub> = 0.47 (EtOAc : hexanes = 1:1); <sup>1</sup>H NMR (400 MHz, Chloroform-*d*) δ 8.52–8.42 (m, 2H), 7.30–7.25 (m, 4H), 7.24–7.17 (m, 3H), 5.24 (s, 1H), 3.50–3.40 (m, 2H), 1.21 (t, J = 7.0 Hz, 3H) ppm; <sup>13</sup>C{<sup>1</sup>H} NMR (100 MHz, Chloroform-*d*) δ 151.5, 149.9, 141.1, 128.8, 128.2, 127.2, 121.7, 82.4, 64.9, 15.4 ppm; IR (thin film): 3061, 2974, 2870, 1668, 1597, 1561, 1494, 1412, 1308, 1279, 1261, 1188, 1101, 1027, 792, 700 cm<sup>-1</sup>; HRMS calc'd for C<sub>14</sub>H<sub>16</sub>NO<sup>+</sup> 214.1226, found 214.1226 [M+H]<sup>+</sup>.



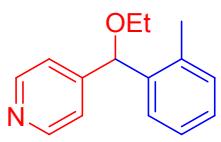
**4-(Ethoxy(4-methoxyphenyl)methyl)pyridine (3ab):** The reaction was performed following the General Procedure A with 4-pyridylmethyl ethyl ether **1a** (27.4 mg, 0.20 mmol) and aryl halides **2b** or **2b'** (**2b**, X = Cl, 36.5 μL, 0.3 mmol; **2b'**, X = Br, 37.5 μL, 0.3 mmol). The crude material was purified by flash chromatography on silica gel (eluted with EtOAc : hexanes = 1:5) to give the product **3ab** (X = Cl, 39.4 mg, 81% yield; X = Br, 43.8 mg, 90% yield) as a yellow solid. The <sup>1</sup>H and <sup>13</sup>C{<sup>1</sup>H} NMR data for this compound match the literature data.<sup>1</sup>



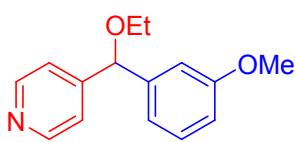
**4-(Ethoxy(pyridin-4-yl)methyl)-N,N-dimethylaniline (3ac):** The reaction was performed following the General Procedure A with 4-pyridylmethyl ethyl ether **1a** (27.4 mg, 0.20 mmol) and aryl halides **2c'** (X = Br, 60.0 mg, 0.3 mmol). The crude material was purified by flash chromatography on silica gel (eluted with EtOAc : hexanes = 1:5) to give the product **3ac** (X = Br, 49.2 mg, 96% yield) as a yellow oil. The <sup>1</sup>H and <sup>13</sup>C{<sup>1</sup>H} NMR data for this compound match the literature data.<sup>1</sup>



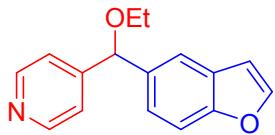
**4-(Ethoxy(4-fluorophenyl)methyl)pyridine (3ad):** The reaction was performed following the General Procedure A with 4-pyridylmethyl ethyl ether **1a** (27.4 mg, 0.20 mmol) and aryl halides **2d** or **2d'** (**2d**, X = Cl, 32.0  $\mu$ L, 0.3 mmol; **2d'**, X = Br, 33.0  $\mu$ L, 0.3 mmol). The crude material was purified by flash chromatography on silica gel (eluted with EtOAc : hexanes = 1:5) to give the product **3ad** (X = Cl, 36.1 mg, 78% yield; X = Br, 29.1 mg, 63% yield) as a yellow oil. The <sup>1</sup>H and <sup>13</sup>C{<sup>1</sup>H} NMR data for this compound match the literature data<sup>1</sup>. <sup>19</sup>F NMR (376 MHz, Chloroform-*d*)  $\delta$  -114 ppm.



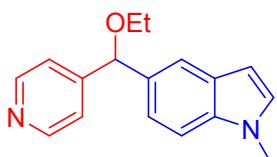
**4-(Ethoxy(o-tolyl)methyl)pyridine (3ae):** The reaction was performed following the General Procedure A with 4-pyridylmethyl ethyl ether **1a** (27.4 mg, 0.20 mmol) and aryl halides **2e** or **2e'** (**2e**, X = Cl, 35.0  $\mu$ L, 0.3 mmol; **2e'**, X = Br, 36.0  $\mu$ L, 0.3 mmol). The crude material was purified by Flash chromatography on silica gel (eluted with EtOAc : hexanes = 1:5) to give the product **3ae** (X = Cl, 32.7 mg, 72% yield; X = Br, 43.2 mg, 95% yield) as a yellow oil. The <sup>1</sup>H and <sup>13</sup>C{<sup>1</sup>H} NMR data for this compound match the literature data.<sup>1</sup>



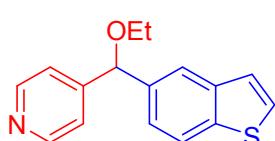
**4-(Ethoxy(3-methoxyphenyl)methyl)pyridine (3af):** The reaction was performed following the General Procedure A with 4-pyridylmethyl ethyl ether **1a** (27.4 mg, 0.20 mmol) and aryl halides **2f** (X = Br, 37.5  $\mu$ L, 0.30 mmol). The crude material was purified by flash chromatography on silica gel (eluted with EtOAc : hexanes = 1:5) to give the product **3af** (X = Br, 34.6 mg, 71% yield) as a yellow oil.  $R_f$  = 0.43 (EtOAc : hexanes = 1:1); <sup>1</sup>H NMR (400 MHz, Chloroform-*d*)  $\delta$  8.46 (d, *J* = 5.2 Hz, 2H), 7.24–7.15 (m, 3H), 6.88–6.78 (m, 2H), 6.75 (dd, *J* = 8.4, 1.2 Hz, 1H), 5.21 (s, 1H), 3.71 (s, 3H), 3.53–3.39 (m, 2H), 1.20 (t, *J* = 7.0 Hz, 3H) ppm; <sup>13</sup>C{<sup>1</sup>H} NMR (100 MHz, Chloroform-*d*)  $\delta$  160.0, 151.4, 149.9, 142.7, 129.8, 121.7, 119.6, 113.3, 112.9, 82.2, 64.9, 55.4, 15.4 ppm; IR (thin film): 3028, 2974, 2929, 1597, 1488, 1454, 1412, 1314, 1260, 1150, 1103, 1082, 1049, 877, 786, 767, 700 cm<sup>-1</sup>; HRMS calc'd for C<sub>15</sub>H<sub>18</sub>NO<sub>2</sub><sup>+</sup> 244.1332, found 244.1333 [M+H]<sup>+</sup>.



**4-(Benzofuran-5-yl(ethoxy)methyl)pyridine (3ag):** The reaction was performed following the General Procedure A with 4-pyridylmethyl ethyl ether **1a** (27.4 mg, 0.20 mmol) and aryl halides **2g'** ( $X = \text{Br}$ , 37.5  $\mu\text{L}$ , 0.30 mmol). The crude material was purified by flash chromatography on silica gel (eluted with EtOAc : hexanes = 1:6) to give the product **3ag** ( $X = \text{Br}$ , 36.0 mg, 71% yield) as a yellow oil.  $R_f = 0.52$  (EtOAc : hexanes = 1:1);  $^1\text{H}$  NMR (400 MHz, Chloroform-*d*)  $\delta$  8.50–8.42 (m, 2H), 7.54 (d,  $J = 5.2$  Hz, 1H), 7.49 (d,  $J = 4.4$  Hz, 1H), 7.39 (d,  $J = 9.2$  Hz, 1H), 7.28–7.20 (m, 2H), 7.19–7.15 (m, 1H), 6.66 (dd,  $J = 5.2, 1.2$  Hz, 1H), 5.34 (s, 1H), 3.51–3.40 (m, 2H), 1.20 (t,  $J = 7.0$  Hz, 3H) ppm;  $^{13}\text{C}\{\text{H}\}$  NMR (100 MHz, Chloroform-*d*)  $\delta$  154.7, 151.9, 149.9, 145.8, 135.8, 127.7, 123.7, 121.7, 120.1, 111.7, 106.8, 82.4, 64.8, 15.4 ppm; IR (thin film): 3028, 2975, 2928, 2871, 1599, 1468, 1444, 1411, 1331, 1264, 1192, 1098, 1032, 886, 810, 770, 742  $\text{cm}^{-1}$ ; HRMS calc'd for  $\text{C}_{16}\text{H}_{16}\text{NO}_2^+$  254.1176, found 254.1176 [M+H]<sup>+</sup>.

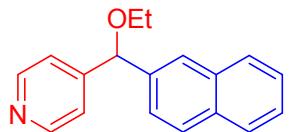


**5-(Ethoxy(pyridin-4-yl)methyl)-1-methyl-1H-indole (3ah):** The reaction was performed following the General Procedure A with 4-pyridylmethyl ethyl ether **1a** (27.4 mg, 0.20 mmol) and aryl halides **2h'** ( $X = \text{Br}$ , 63.0 mg, 0.30 mmol). The crude material was purified by flash chromatography on silica gel (eluted with EtOAc : hexanes = 1:5) to give the product **3ah** ( $X = \text{Br}$ , 44.8 mg, 84% yield) as a yellow oil.  $R_f = 0.47$  (EtOAc : hexanes = 1:1);  $^1\text{H}$  NMR (400 MHz, Chloroform-*d*)  $\delta$  8.57–8.44 (m, 2H), 7.66–7.56 (m, 1H), 7.37–7.27 (m, 3H), 7.15 (dd,  $J = 8.0, 5.2$  Hz, 1H), 7.06 (d,  $J = 1.6$  Hz, 1H), 6.53–6.42 (m, 1H), 5.43 (s, 1H), 3.77 (s, 3H), 3.61–3.46 (m, 2H), 1.28 (t,  $J = 7.0$  Hz, 3H) ppm;  $^{13}\text{C}\{\text{H}\}$  NMR (100 MHz, Chloroform-*d*)  $\delta$  152.6, 149.8, 136.5, 132.0, 129.6, 128.4, 121.7, 121.0, 120.2, 109.7, 101.2, 82.9, 64.5, 33.0, 15.4 ppm; IR (thin film): 3025, 2972, 2926, 1578, 1513, 1493, 1447, 1411, 1344, 1307, 1245, 1099, 1023, 993, 892, 799, 723  $\text{cm}^{-1}$ ; HRMS calc'd for  $\text{C}_{17}\text{H}_{19}\text{N}_2\text{O}^+$  267.1492, found 267.1492 [M+H]<sup>+</sup>.

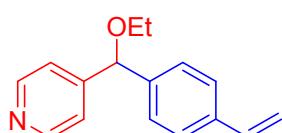


**4-(Benzo[b]thiophen-5-yl(ethoxy)methyl)pyridine (3ai):** The reaction was performed following the General Procedure A with 4-pyridylmethyl ethyl ether **1a** (27.4 mg, 0.20 mmol) and aryl halides **2i** or **2i'** (**2i**,  $X = \text{Cl}$ , 50.6 mg, 0.3 mmol; **2i'**,  $X = \text{Br}$ , 63.9 mg, 0.3 mmol). The crude material was purified by flash chromatography on silica gel (eluted with EtOAc : hexanes = 1:6) to give the product **3ai** ( $X = \text{Cl}$ , 39.9 mg, 74% yield;  $X = \text{Br}$ , 40.4 mg, 75% yield) as a yellow oil.  $R_f = 0.50$  (EtOAc : hexanes = 1:1);  $^1\text{H}$  NMR (400 MHz, Chloroform-*d*)  $\delta$  8.53–8.38 (m, 2H), 7.75 (d,  $J = 8.0$  Hz, 1H), 7.71 (d,  $J = 4.0$  Hz, 1H), 7.37 (d,  $J = 8.4$  Hz, 1H), 7.26–7.16 (m, 4H), 5.35 (s, 1H), 3.51–3.41 (m, 2H), 1.20 (t,  $J = 7.0$  Hz, 3H) ppm;  $^{13}\text{C}\{\text{H}\}$  NMR (100 MHz, Chloroform-*d*)  $\delta$  151.7, 149.9, 139.8, 139.5,

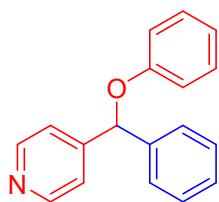
137.3, 127.3, 123.9, 123.5, 122.9, 122.4, 121.7, 82.4, 64.9, 15.4 ppm; IR (thin film): 3028, 2974, 2927, 2870, 1597, 1561, 1410, 1325, 1307, 1257, 1192, 1099, 1026, 993, 805, 777, 704 cm<sup>-1</sup>; HRMS calc'd for C<sub>16</sub>H<sub>16</sub>NOS<sup>+</sup> 270.0947, found 270.0947 [M+H]<sup>+</sup>.



**4-(Ethoxy(naphthalen-2-yl)methyl)pyridine (3aj):** The reaction was performed following the General Procedure A with 4-pyridylmethyl ethyl ether **1a** (27.4 mg, 0.20 mmol) and aryl halides **2j** or **2j'** (**2j**, X = Cl, 48.8 mg, 0.3 mmol; **2j'**, X = Br, 62.1 mg, 0.3 mmol). The crude material was purified by flash chromatography on silica gel (eluted with EtOAc : hexanes = 1:6) to give the product **3aj** (X = Cl, 43.7 mg, 83% yield; X = Br, 32.7 mg, 62% yield) as a yellow oil. R<sub>f</sub> = 0.52 (EtOAc : hexanes = 1:1); <sup>1</sup>H NMR (400 MHz, Chloroform-d) δ 8.54 (d, J = 4.4 Hz, 2H), 7.87–7.78 (m, 4H), 7.49 (td, J = 8.4, 1.6 Hz, 2H), 7.39 (dd, J = 8.0, 1.6 Hz, 1H), 7.37–7.30 (m, 2H), 5.48 (s, 1H), 3.60–3.53 (m, 2H), 1.30 (t, J = 7.0 Hz, 3H) ppm; <sup>13</sup>C{<sup>1</sup>H} NMR (100 MHz, Chloroform-d) δ 151.4, 150.0, 138.4, 133.3, 128.9, 128.1, 127.9, 126.5, 126.4, 124.9, 121.8, 82.5, 64.9, 15.4 ppm; IR (thin film): 3056, 2974, 2926, 2854, 1722, 1682, 1597, 1561, 1411, 1370, 1280, 1166, 1099, 992, 851, 747 cm<sup>-1</sup>; HRMS calc'd for C<sub>18</sub>H<sub>18</sub>NO<sup>+</sup> 264.1383, found 264.1382 [M+H]<sup>+</sup>.

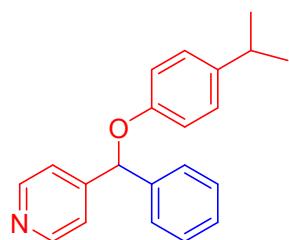


**4-(Ethoxy(4-vinylphenyl)methyl)pyridine (3ak):** The reaction was performed following the General Procedure A with 4-pyridylmethyl ethyl ether **1a** (27.4 mg, 0.20 mmol) and aryl halides **2k** or **2k'** (**2k**, X = Cl, 36.0 μL, 0.3 mmol; **2k'**, X = Br, 39.0 μL, 0.3 mmol). The crude material was purified by Flash chromatography on silica gel (eluted with EtOAc : hexanes = 1:5) to give the product (X = Cl, 36.4 mg, 76% yield; X = Br, 39.3 mg, 82% yield) as a yellow oil. R<sub>f</sub> = 0.48 (EtOAc : hexanes = 1:1); <sup>1</sup>H NMR (400 MHz, Chloroform-d) δ 8.52–8.42 (m, 2H), 7.35–7.27 (m, 2H), 7.23–7.18 (m, 4H), 6.62 (dd, J = 20.4, 8.8 Hz, 1H), 5.67 (dd, J = 20.8, 1.2 Hz, 1H), 5.23 (s, 1H), 5.17 (dd, J = 12.4, 1.8 Hz, 1H), 3.48–3.41 (m, 2H), 1.20 (t, J = 7.0 Hz, 3H) ppm; <sup>13</sup>C{<sup>1</sup>H} NMR (100 MHz, Chloroform-d) δ 150.0, 140.6, 136.4, 127.5, 126.6, 121.7, 114.4, 82.1, 64.9, 15.4 ppm; IR (thin film): 3025, 2965, 2926, 2854, 1629, 1598, 1509, 1411, 1306, 1261, 1098, 1017, 992, 909, 800, 764 cm<sup>-1</sup>; HRMS calc'd for C<sub>16</sub>H<sub>18</sub>NO<sup>+</sup> 240.1383, found 240.1380 [M+H]<sup>+</sup>.

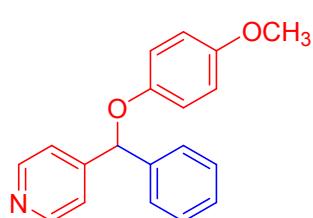


**4-(Phenoxy(phenyl)methyl)pyridine (3ba):** The reaction was performed following the General Procedure A with **1b** (37.1 mg, 0.20 mmol) and aryl halides **2a** or **2a'** (**2a**, X = Cl, 30.5 μL, 0.3 mmol; **2a'**, X = Br, 31.5 μL, 0.3 mmol). The crude material was purified by flash chromatography on silica gel (eluted with EtOAc : hexanes = 1:5) to give the product **3ba** (X = Cl, 45.0 mg, 86% yield; X = Br, 43.4 mg, 83% yield) as a yellow oil. R<sub>f</sub> = 0.37 (EtOAc :

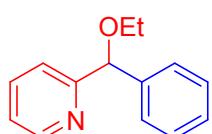
hexanes = 1:1);  $^1\text{H}$  NMR (400 MHz, Chloroform-*d*)  $\delta$  8.58 (d,  $J$  = 8.4 Hz, 2H), 7.50–7.28 (m, 7H), 7.26–7.20 (m, 2H), 7.00–6.85 (m, 3H), 6.16 (s, 1H) ppm;  $^{13}\text{C}\{\text{H}\}$  NMR (100 MHz, Chloroform-*d*)  $\delta$  157.5, 150.6, 149.7, 139.7, 129.5, 128.9, 128.5, 127.0, 121.6, 116.1, 105.0, 80.4 ppm; IR (thin film): 3030, 2958, 2920, 2851, 1597, 1493, 1454, 1412, 1232, 1167, 1092, 1092, 1038, 820, 792, 753  $\text{cm}^{-1}$ ; HRMS calc'd for  $\text{C}_{18}\text{H}_{16}\text{NO}^+$  262.1226, found 262.1225 [M+H]<sup>+</sup>.



**4-((4-Isopropylphenoxy)(phenyl)methyl)pyridine (3ca):** The reaction was performed following the General Procedure A with **1c** (45.5 mg, 0.20 mmol) and aryl halides **2a** or **2a'** (**2a**, X = Cl, 30.5  $\mu\text{L}$ , 0.3 mmol; **2a'**, X = Br, 31.5  $\mu\text{L}$ , 0.3 mmol). The crude material was purified by flash chromatography on silica gel (eluted with EtOAc : hexanes = 1:6) to give the product **3ca** (X = Cl, 39.4 mg, 65% yield; X = Br, 44.3 mg, 73% yield) as a yellow oil.  $R_f$  = 0.52 (EtOAc : hexanes = 1:1);  $^1\text{H}$  NMR (400 MHz, Chloroform-*d*)  $\delta$  8.57–8.37 (m, 2H), 7.35–7.16 (m, 7H), 7.03–6.92 (m, 2H), 6.84–6.70 (m, 2H), 6.02 (s, 1H), 2.78–2.67 (m, 2H), 1.09 (d,  $J$  = 6.8 Hz, 6H) ppm;  $^{13}\text{C}\{\text{H}\}$  NMR (100 MHz, Chloroform-*d*)  $\delta$  155.8, 150.5, 150.1, 142.0, 140.1, 128.9, 128.4, 127.4, 127.1, 121.6, 115.9, 80.6, 33.3, 24.2 ppm; IR (thin film): 2958, 2919, 2850, 1632, 1578, 1540, 1509, 1466, 1261, 1231, 1166, 1094, 800, 739  $\text{cm}^{-1}$ ; HRMS calc'd for  $\text{C}_{21}\text{H}_{22}\text{NO}^+$  304.1696, found 304.1699 [M+H]<sup>+</sup>.

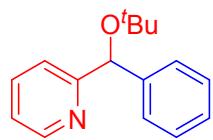


**4-((4-Methoxyphenoxy)(phenyl)methyl)pyridine (3da):** The reaction was performed following the General Procedure A with **1d** (43.1 mg, 0.20 mmol) and aryl halides **2a** or **2a'** (**2a**, X = Cl, 30.5  $\mu\text{L}$ , 0.3 mmol; **2a'**, X = Br, 31.5  $\mu\text{L}$ , 0.3 mmol). The crude material was purified by flash chromatography on silica gel (eluted with EtOAc : hexanes = 1:5) to give the product **3da** (X = Cl, 41.4 mg, 71% yield; X = Br, 52.4 mg, 90% yield) as a yellow oil.  $R_f$  = 0.40 (EtOAc : hexanes = 1:1);  $^1\text{H}$  NMR (400 MHz, Chloroform-*d*)  $\delta$  8.64–8.49 (m, 2H), 7.42–7.27 (m, 7H), 6.90–6.82 (m, 2H), 6.80–6.73 (m, 2H), 6.05 (s, 1H), 3.73 (s, 3H) ppm;  $^{13}\text{C}\{\text{H}\}$  NMR (100 MHz, Chloroform-*d*)  $\delta$  154.5, 151.8, 150.5, 150.1, 140.1, 129.0, 128.5, 127.2, 121.6, 117.5, 114.7, 81.6, 55.7 ppm; IR (thin film): 2920, 2851, 1596, 1506, 1454, 1412, 1261, 1224, 1181, 1106, 1038, 825, 797, 761, 738  $\text{cm}^{-1}$ ; HRMS calc'd for  $\text{C}_{19}\text{H}_{18}\text{NO}_2^+$  292.1332, found 292.1334 [M+H]<sup>+</sup>.

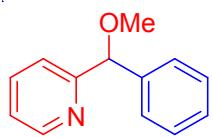


**2-(Ethoxy(phenyl)methyl)pyridine (3ea):** The reaction was performed following the General Procedure A with 4-pyridylmethyl ethyl ether **1e** (27.4 mg, 0.20 mmol) and aryl halides **2a** or **2a'** (**2a**, X = Cl, 30.5  $\mu\text{L}$ , 0.3 mmol; **2a'**, X = Br, 31.5  $\mu\text{L}$ , 0.3 mmol). The crude material was purified by flash chromatography on silica gel (eluted with EtOAc : hexanes = 1:10) to give

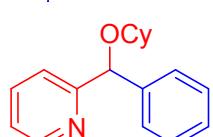
the product **3ea** ( $X = \text{Cl}$ , 30.7 mg, 72% yield;  $X = \text{Br}$ , 40.1 mg, 94% yield) as a yellow oil. The  $^1\text{H}$  and  $^{13}\text{C}\{^1\text{H}\}$  NMR data for this compound match the literature data.<sup>1</sup>



**2-(*tert*-Butoxy(phenyl)methyl)pyridine (3fa):** The reaction was performed following the General Procedure A with **1f** (33.1 mg, 0.20 mmol) and aryl halides **2a** or **2a'** (**2a**,  $X = \text{Cl}$ , 30.5  $\mu\text{L}$ , 0.3 mmol; **2a'**,  $X = \text{Br}$ , 31.5  $\mu\text{L}$ , 0.3 mmol). The crude material was purified by flash chromatography on silica gel (eluted with EtOAc : hexanes = 1:10) to give the product **3fa** ( $X = \text{Cl}$ , 45.4 mg, 94% yield;  $X = \text{Br}$ , 41.0 mg, 85% yield) as a yellow oil.  $R_f = 0.38$  (EtOAc : hexanes = 1:5);  $^1\text{H}$  NMR (400 MHz, Chloroform-*d*)  $\delta$  8.41 (ddd,  $J = 5.2, 1.6, 1.2$  Hz, 1H), 7.63–7.47 (m, 2H), 7.42–7.32 (m, 2H), 7.23–7.18 (m, 2H), 7.14–7.08 (m, 1H), 7.03 (ddd,  $J = 7.2, 4.8, 1.6$  Hz, 1H), 5.65 (s, 1H), 1.15 (s, 9H) ppm;  $^{13}\text{C}\{^1\text{H}\}$  NMR (100 MHz, Chloroform-*d*)  $\delta$  164.8, 148.6, 144.0, 136.7, 128.3, 127.0, 126.7, 122.0, 121.3, 77.3, 75.4, 28.8 ppm; IR (thin film): 2974, 2924, 2851, 1589, 1571, 1470, 1434, 1391, 1367, 1261, 1192, 1097, 1081, 1065, 1024, 905, 800, 744 cm<sup>-1</sup>; HRMS calc'd for  $\text{C}_{16}\text{H}_{20}\text{NO}^+$  242.1539, found 242.1539 [M+H]<sup>+</sup>.

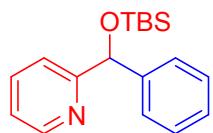


**2-(Methoxy(phenyl)methyl)pyridine (3ga):** The reaction was performed following the General Procedure A with **1g** (24.6 mg, 0.20 mmol) and aryl halides **2a** or **2a'** (**2a**,  $X = \text{Cl}$ , 30.5  $\mu\text{L}$ , 0.3 mmol; **2a'**,  $X = \text{Br}$ , 31.5  $\mu\text{L}$ , 0.3 mmol). The crude material was purified by flash chromatography on silica gel (eluted with EtOAc : hexanes = 1:8) to give the product **3ga** ( $X = \text{Cl}$ , 25.1 mg, 63% yield;  $X = \text{Br}$ , 27.1 mg, 68% yield) as a yellow oil.  $R_f = 0.20$  (EtOAc : hexanes = 1:5);  $^1\text{H}$  NMR (400 MHz, Chloroform-*d*)  $\delta$  8.47 (ddd,  $J = 4.8, 1.6, 1.2$  Hz, 1H), 7.61 (td,  $J = 8.4, 2.4$  Hz, 1H), 7.42 (dt,  $J = 8.0, 1.6$  Hz, 1H), 7.38–7.34 (m, 2H), 7.29–7.23 (m, 2H), 7.20–7.15 (m, 1H), 7.08 (ddd,  $J = 8.8, 5.2, 1.6$  Hz, 1H), 5.31 (s, 1H), 3.36 (s, 3H) ppm;  $^{13}\text{C}\{^1\text{H}\}$  NMR (100 MHz, Chloroform-*d*)  $\delta$  161.6, 149.2, 140.9, 137.0, 128.6, 127.9, 127.1, 122.5, 120.7, 86.6, 57.3 ppm; IR (thin film): 2959, 2919, 2850, 1588, 1572, 1541, 1470, 1453, 1436, 1261, 1194, 1166, 1102, 977, 800, 745 cm<sup>-1</sup>; HRMS calc'd for  $\text{C}_{13}\text{H}_{14}\text{NO}^+$  200.1070, found 200.1070 [M+H]<sup>+</sup>.

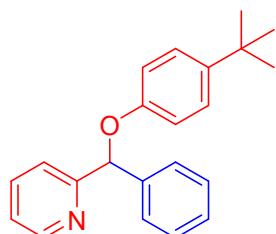


**2-((Cyclohexyloxy)(phenyl)methyl)pyridine (3ha):** The reaction was performed following the General Procedure A with **1h** (38.3 mg, 0.20 mmol) and aryl halides **2a** or **2a'** (**2a**,  $X = \text{Cl}$ , 30.5  $\mu\text{L}$ , 0.3 mmol; **2a'**,  $X = \text{Br}$ , 31.5  $\mu\text{L}$ , 0.3 mmol). The crude material was purified by flash chromatography on silica gel (eluted with EtOAc : hexanes = 1:10) to give the product **3ha** ( $X = \text{Cl}$ , 52.4 mg, 98% yield;  $X = \text{Br}$ , 52.4 mg, 98% yield) as a colorless oil.  $R_f = 0.52$  (EtOAc : hexanes = 1:5);  $^1\text{H}$  NMR (400 MHz, Chloroform-*d*)  $\delta$  8.38 (d,  $J = 4.8$  Hz, 1H), 7.53–7.46 (m, 2H), 7.34 (d,  $J = 8.0$  Hz, 2H), 7.18 (t,  $J = 8.8$  Hz, 2H), 7.09 (t,  $J = 9.2$  Hz, 1H), 6.97 (t,  $J = 6.0$  Hz, 1H), 5.58 (s, 1H), 3.30 (tt,  $J = 9.2, 5.2$  Hz, 1H), 1.87–1.79 (m, 2H), 1.65–1.59 (m, 2H), 1.41–1.26 (m, 3H), 1.14–1.05 (m, 2H) ppm;  $^{13}\text{C}\{^1\text{H}\}$  NMR (100 MHz,

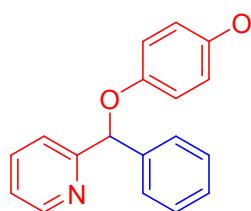
Chloroform-*d*) δ 162.91, 148.68, 142.13, 136.67, 128.26, 127.30, 126.87, 122.10, 120.75, 81.40, 75.51, 32.40, 32.38, 25.80, 24.02 ppm; IR (thin film): 3061, 3029, 2931, 2856, 1588, 1570, 1469, 1450, 1433, 1356, 1259, 1189, 1132, 1099, 1070, 1028, 958, 744, 699, 637 cm<sup>-1</sup>; HRMS calc'd for C<sub>18</sub>H<sub>21</sub>NONa<sup>+</sup> 290.1515, found 290.1504 [M+Na]<sup>+</sup>.



**2-((tert-Butyldimethylsilyl)oxy)(phenyl)methylpyridine (3ia):** The reaction was performed following the General Procedure A with **1i** (44.7 mg, 0.20 mmol) and aryl halides **2a** or **2a'** (**2a**, X = Cl, 30.5 μL, 0.3 mmol; **2a'**, X = Br, 31.5 μL, 0.3 mmol). The crude material was purified by flash chromatography on silica gel (eluted with EtOAc : hexanes = 1:10) to give the product **3ia** (X = Cl, 53.3 mg, 89% yield; X = Br, 57.5 mg, 96% yield) as a colorless oil. The <sup>1</sup>H and <sup>13</sup>C{<sup>1</sup>H} NMR data for this compound match the literature data.<sup>3</sup>

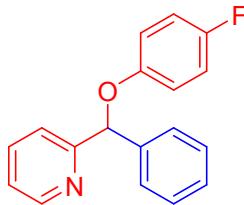


**2-((4-(tert-Butylphenoxy)(phenyl)methyl)oxy)phenylmethane (3ja):** The reaction was performed following the General Procedure A with **1j** (48.3 mg, 0.20 mmol) and aryl halides **2a** or **2a'** (**2a**, X = Cl, 30.5 μL, 0.3 mmol; **2a'**, X = Br, 31.5 μL, 0.3 mmol). The crude material was purified by flash chromatography on silica gel (eluted with EtOAc : hexanes = 1:10) to give the product **3ja** (X = Cl, 58.4 mg, 92% yield; X = Br, 59.7 mg, 94% yield) as a white solid. m.p. = 88 – 89 °C. R<sub>f</sub> = 0.38 (EtOAc : hexanes = 1:5); <sup>1</sup>H NMR (400 MHz, Chloroform-*d*) δ 8.58–8.42 (m, 1H), 7.58 (td, *J* = 8.4, 2.4 Hz, 1H), 7.51 (dt, *J* = 8.8, 1.2 Hz, 1H), 7.48–7.42 (m, 2H), 7.29–7.23 (m, 2H), 7.20–7.14 (m, 4H), 7.08 (ddd, *J* = 9.2, 4.8, 1.6 Hz, 1H), 6.86–6.79 (m, 2H), 6.23 (s, 1H), 1.18 (s, 9H) ppm; <sup>13</sup>C{<sup>1</sup>H} NMR (100 MHz, Chloroform-*d*) δ 161.2, 155.7, 149.3, 143.9, 140.6, 137.2, 128.7, 128.0, 126.9, 126.3, 122.7, 120.9, 115.4, 82.7, 34.2, 31.6 ppm; IR (thin film): 2962, 2921, 2852, 1607, 1589, 1511, 1470, 1434, 1364, 1236, 1183, 1095, 1027, 827, 804, 744 cm<sup>-1</sup>; HRMS calc'd for C<sub>22</sub>H<sub>24</sub>NO<sup>+</sup> 318.1852, found 318.1852 [M+H]<sup>+</sup>.

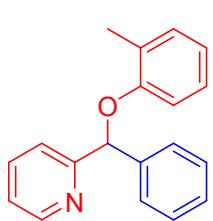


**2-((4-Methoxyphenoxy)(phenyl)methyl)pyridine (3ka):** The reaction was performed following the General Procedure A with **1k** (43.1 mg, 0.20 mmol) and aryl halides **2a** or **2a'** (**2a**, X = Cl, 30.5 μL, 0.3 mmol; **2a'**, X = Br, 31.5 μL, 0.3 mmol). The crude material was purified by flash chromatography on silica gel (eluted with EtOAc : hexanes = 1:8) to give the product **3ka** (X = Cl, 40.8 mg, 70% yield; X = Br, 49.5 mg, 85% yield) as a yellow oil. R<sub>f</sub> = 0.20 (EtOAc : hexanes = 1:5); <sup>1</sup>H NMR (400 MHz, Chloroform-*d*) δ 8.49 (ddd, *J* = 5.2, 2.0, 1.2 Hz, 1H), 7.58 (td, *J* = 7.2, 1.6 Hz, 1H), 7.50 (dt, *J* = 8.0, 1.2 Hz, 1H), 7.47–7.40 (m, 2H), 7.32–7.22 (m, 2H), 7.20–7.16 (m, 1H), 7.08 (ddd, *J* = 7.2, 4.8, 1.2 Hz, 1H), 6.87–6.78 (m, 2H), 6.73–6.62 (m, 2H), 6.18 (s,

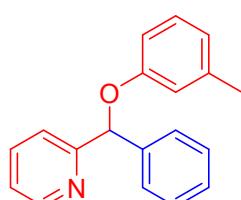
1H), 3.64 (s, 3H) ppm;  $^{13}\text{C}\{\text{H}\}$  NMR (100 MHz, Chloroform-*d*)  $\delta$  161.1, 154.2, 151.9, 149.3, 140.5, 137.2, 128.7, 128.0, 126.9, 122.7, 120.9, 117.1, 114.7, 83.4, 55.7 ppm; IR (thin film): 2957, 2919, 2850, 1588, 1541, 1506, 1467, 1434, 1224, 1166, 1096, 1040, 823, 800, 742  $\text{cm}^{-1}$ ; HRMS calc'd for  $\text{C}_{19}\text{H}_{18}\text{NO}_2^+$  292.1332, found 292.1331 [M+H]<sup>+</sup>.



**2-((4-Fluorophenoxy)(phenyl)methyl)pyridine (3la):** The reaction was performed following the General Procedure A with **1I** (40.6 mg, 0.20 mmol) and aryl halides **2a** or **2a'** (**2a**, X = Cl, 30.5  $\mu\text{L}$ , 0.3 mmol; **2a'**, X = Br, 31.5  $\mu\text{L}$ , 0.3 mmol). The crude material was purified by Flash chromatography on silica gel (eluted with EtOAc : hexanes = 1:10) to give the product **3la** (X = Cl, 50.8 mg, 91% yield; X = Br, 49.7 mg, 89% yield) as a yellow oil.  $R_f$  = 0.30 (EtOAc : hexanes = 1:5);  $^1\text{H}$  NMR (400 MHz, Chloroform-*d*)  $\delta$  8.59–8.48 (m, 1H), 7.64 (td, *J* = 7.2, 1.6 Hz, 1H), 7.55–7.47 (m, 3H), 7.32 (t, *J* = 7.2 Hz, 2H), 7.23 (d, *J* = 6.0 Hz, 2H), 7.15 (ddd, *J* = 7.2, 4.8, 1.2 Hz, 1H), 6.88 (d, *J* = 7.2 Hz, 3H), 6.24 (s, 1H) ppm;  $^{13}\text{C}\{\text{H}\}$  NMR (101 MHz, Chloroform-*d*)  $\delta$  160.7, 157.6 (d,  $^1J_{\text{C}-\text{F}}$  = 238.0 Hz), 153.92 (d,  $^4J_{\text{C}-\text{F}}$  = 2.0 Hz), 149.4, 140.1, 137.2, 128.8, 128.1 (d,  $^3J_{\text{C}-\text{F}}$  = 8.0 Hz), 126.9, 122.8, 120.9, 117.2, 117.1, 116.1 (d,  $^2J_{\text{C}-\text{F}}$  = 23.0 Hz), 83.4 ppm; IR (thin film): 2959, 2920, 2851, 1588, 1572, 1542, 1504, 1467, 1435, 1202, 1166, 1096, 826, 797, 781, 742  $\text{cm}^{-1}$ ; HRMS calc'd for  $\text{C}_{18}\text{H}_{15}\text{FNO}^+$  280.1132, found 280.1137 [M+H]<sup>+</sup>.  $^{19}\text{F}$  NMR (376 MHz, Chloroform-*d*)  $\delta$  –123 ppm.

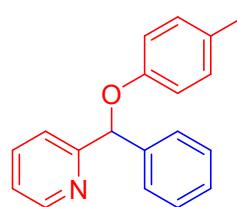


**2-(Phenyl(o-tolyloxy)methyl)pyridine (3ma):** The reaction was performed following the General Procedure A with **1m** (39.9 mg, 0.20 mmol) and aryl halides **2a** or **2a'** (**2a**, X = Cl, 30.5  $\mu\text{L}$ , 0.3 mmol; **2a'**, X = Br, 31.5  $\mu\text{L}$ , 0.3 mmol). The crude material was purified by flash chromatography on silica gel (eluted with EtOAc : hexanes = 1:10) to give the product **3ma** (X = Cl, 44.6 mg, 81% yield; X = Br, 45.2 mg, 82% yield) as a yellow oil.  $R_f$  = 0.37 (EtOAc : hexanes = 1:5);  $^1\text{H}$  NMR (400 MHz, Chloroform-*d*)  $\delta$  8.48 (ddd, *J* = 5.2, 2.4, 1.6 Hz, 1H), 7.57 (td, *J* = 7.2, 1.6 Hz, 1H), 7.53–7.42 (m, 3H), 7.30–7.21 (m, 2H), 7.20–7.14 (m, 1H), 7.07 (ddd, *J* = 7.2, 4.8, 1.2 Hz, 2H), 6.92 (ddd, *J* = 8.8, 7.2, 1.6 Hz, 1H), 6.80–6.62 (m, 2H), 6.29 (s, 1H), 2.33 (s, 3H) ppm;  $^{13}\text{C}\{\text{H}\}$  NMR (100 MHz, Chloroform-*d*)  $\delta$  161.3, 155.8, 149.1, 140.7, 137.3, 130.9, 128.7, 127.9, 127.3, 126.8, 126.6, 122.7, 120.9, 120.6, 113.1, 82.2, 16.9 ppm; IR (thin film): 3063, 2960, 2919, 2851, 1588, 1541, 1493, 1465, 1434, 1235, 1185, 1165, 1120, 1095, 1049, 1027, 883, 800, 745  $\text{cm}^{-1}$ ; HRMS calc'd for  $\text{C}_{19}\text{H}_{18}\text{NO}^+$  276.1383, found 276.1382 [M+H]<sup>+</sup>.



**2-(Phenyl(m-tolyloxy)methyl)pyridine (3na):** The reaction was performed following the General Procedure A with **1n** (39.9 mg, 0.20 mmol) and aryl halides **2a** or **2a'** (**2a**, X = Cl, 30.5  $\mu\text{L}$ , 0.3 mmol; **2a'**, X = Br, 31.5  $\mu\text{L}$ , 0.3 mmol). The crude material was

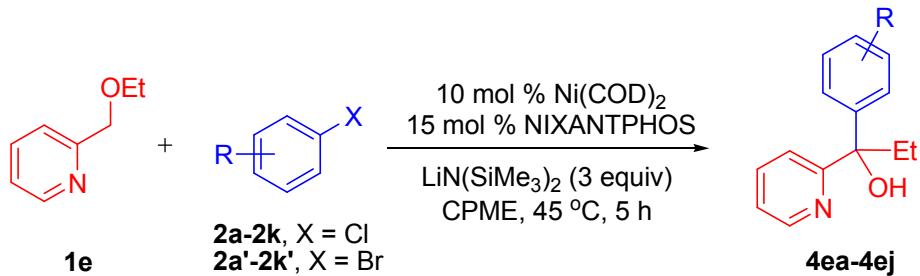
purified by flash chromatography on silica gel (eluted with EtOAc : hexanes = 1:10) to give the product **3na** ( $X = Cl$ , 50.1 mg, 91% yield;  $X = Br$ , 45.2 mg, 82% yield) as a yellow oil.  $R_f = 0.37$  (EtOAc : hexanes = 1:5);  $^1H$  NMR (400 MHz, Chloroform-*d*)  $\delta$  8.47 (ddd,  $J = 4.8, 1.6, 1.2$  Hz, 1H), 7.55 (td,  $J = 7.2, 1.6$  Hz, 1H), 7.50–7.40 (m, 3H), 7.29–7.21 (m, 2H), 7.20–7.13 (m, 1H), 7.05 (ddd,  $J = 7.2, 4.8, 1.2$  Hz, 1H), 7.00 (t,  $J = 8.0$  Hz, 1H), 6.75 (t,  $J = 2.0$  Hz, 1H), 6.71–6.60 (m, 2H), 6.26 (s, 1H), 2.18 (s, 3H) ppm;  $^{13}C\{^1H\}$  NMR (100 MHz, Chloroform-*d*)  $\delta$  161.0, 157.8, 149.2, 140.4, 139.6, 137.2, 129.2, 128.7, 128.0, 126.9, 122.7, 122.1, 120.9, 117.0, 112.8, 82.4, 21.6 ppm; IR (thin film): 2957, 2919, 2850, 1579, 1540, 1489, 1467, 1434, 1289, 1257, 1166, 1095, 1047, 770, 742 cm<sup>-1</sup>; HRMS calc'd for C<sub>19</sub>H<sub>18</sub>NO<sup>+</sup> 276.1383, found 276.1382 [M+H]<sup>+</sup>.



**2-(Phenyl(*p*-tolyloxy)methyl)pyridine (3oa):** The reaction was performed following the General Procedure A with **1o** (39.9 mg, 0.20 mmol) and aryl halides **2a** or **2a'** (**2a**,  $X = Cl$ , 30.5  $\mu$ L, 0.3 mmol; **2a'**,  $X = Br$ , 31.5  $\mu$ L, 0.3 mmol). The crude material was purified by flash chromatography on silica gel (eluted with EtOAc : hexanes = 1:10) to give the product **3oa** ( $X = Cl$ , 45.7 mg, 83% yield;  $X = Br$ , 47.9 mg, 87% yield) as a yellow oil.  $R_f = 0.33$  (EtOAc : hexanes = 1:5);  $^1H$  NMR (400 MHz, Chloroform-*d*)  $\delta$  8.49 (ddd,  $J = 4.8, 1.6, 1.2$  Hz, 1H), 7.57 (td,  $J = 7.2, 1.6$  Hz, 1H), 7.49 (dt,  $J = 8.0, 1.2$  Hz, 1H), 7.47–7.42 (m, 2H), 7.29–7.23 (m, 2H), 7.20–7.16 (m, 1H), 7.07 (ddd,  $J = 7.2, 4.8, 1.2$  Hz, 1H), 6.97–6.91 (m, 2H), 6.82–6.76 (m, 2H), 6.23 (s, 1H), 2.16 (s, 3H) ppm;  $^{13}C\{^1H\}$  NMR (100 MHz, Chloroform-*d*)  $\delta$  161.1, 155.7, 149.3, 140.5, 137.2, 130.5, 130.0, 128.7, 128.0, 126.9, 122.7, 120.9, 115.9, 82.7, 20.6 ppm; IR (thin film): 3030, 2960, 2920, 2851, 1612, 1586, 1509, 1470, 1452, 1434, 1228, 1174, 1095, 1027, 922, 807, 742 cm<sup>-1</sup>; HRMS calc'd for C<sub>19</sub>H<sub>18</sub>NO<sup>+</sup> 276.1383, found 276.1383 [M+H]<sup>+</sup>.

#### 4. Tandem arylation/[1,2]-Wittig rearrangement of 2-pyridylmethyl ethyl ether: *Lab scale reaction optimization of Ni source, solvents and temperature*

**Table S2.** Optimization of tandem arylation/[1,2]-Wittig rearrangement of 2-pyridylmethyl ethyl ether **1e** with aryl halides.

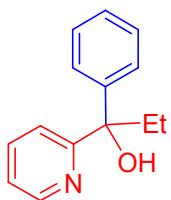


|    | Ni source              | Base                                 | Solvent | Temp.<br>(°C) | Assay Yield<br>(%) |
|----|------------------------|--------------------------------------|---------|---------------|--------------------|
| 1  | Ni(COD) <sub>2</sub>   |                                      |         |               | 56                 |
| 2  | Ni(acac) <sub>2</sub>  |                                      |         |               | 4                  |
| 3  | NiCl <sub>2</sub> •gly | NaN(SiMe <sub>3</sub> ) <sub>2</sub> | CPME    | 65            | 3                  |
| 4  | Ni(OAc) <sub>2</sub>   |                                      |         |               | 10                 |
| 5  | NiBr <sub>2</sub>      |                                      |         |               | 2                  |
| 6  |                        | LiN(SiMe <sub>3</sub> ) <sub>2</sub> |         |               | 71                 |
| 7  |                        | KN(SiMe <sub>3</sub> ) <sub>2</sub>  |         |               | 23                 |
| 8  | Ni(COD) <sub>2</sub>   | LiO'Bu                               | CPME    | 65            | 0                  |
| 9  |                        | NaO'Bu                               |         |               | 0                  |
| 10 |                        | KO'Bu                                |         |               | 0                  |
| 11 |                        |                                      | DME     |               | 21                 |
| 12 | Ni(COD) <sub>2</sub>   | LiN(SiMe <sub>3</sub> ) <sub>2</sub> | Toluene | 65            | 60                 |
| 13 |                        |                                      | THF     |               | 65                 |
| 14 | Ni(COD) <sub>2</sub>   | LiN(SiMe <sub>3</sub> ) <sub>2</sub> | CPME    | 45            | <b>72</b>          |
| 15 |                        |                                      |         | 25            | 68                 |

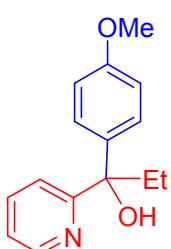
<sup>a</sup> Reactions conducted on a 0.1 mmol scale using 1 equiv of **1e**, and 1.5 equiv of **2a**. <sup>b</sup> Assay yield determined by <sup>1</sup>H NMR spectroscopy of the crude reaction mixture.

## 5. Procedure and characterization of Ni-catalyzed chemoselective tandem arylation/[1,2]-Wittig rearrangement reaction of 2-pyridylmethyl ethers (Table 5).

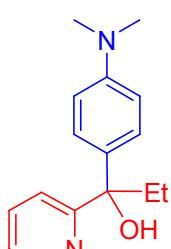
**General Procedure B:** An oven-dried 8 mL reaction vial equipped with a stir bar was charged with 2-pyridylmethyl ethyl ether **1e** (0.20 mmol, 1.0 equiv) and chlorobenzene **2a** (0.3 mmol, 1.5 equiv) in a glove box under a nitrogen atmosphere at room temperature. A solution (from a stock solution) of Ni(COD)<sub>2</sub> (5.5 mg, 0.02 mmol, 10 mol %) and NIXANTPHOS (16.6 mg, 0.03 mmol, 15 mol %) in 1 mL of dry CPME was taken up by syringe and added to the reaction vial. A solution of LiN(SiMe<sub>3</sub>)<sub>2</sub> (100.4 mg, 0.6 mmol, 3.0 equiv) in 1 mL of dry CPME was added by syringe to the reaction mixture. Total volume of the reaction is 2 mL. The vial was capped, removed from the glove box, and stirred for 5 h in total at 45 °C. The reaction mixture was quenched with 3 drops of H<sub>2</sub>O, diluted with 2 mL of ethyl acetate, and filtered over a pad of MgSO<sub>4</sub> and silica. The pad was rinsed with an additional 6 mL of ethyl acetate (3 x 2 mL) and the solution was concentrated in vacuo. The crude material was loaded onto a deactivated silica gel column and purified by flash chromatography.



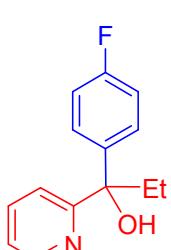
**1-Phenyl-1-(pyridin-2-yl)propan-1-ol (4ea):** The reaction was performed following the General Procedure B with **1e** (27.4 mg, 0.20 mmol) and aryl halides **2a** or **2a'** (**2a**, X = Cl, 30.5  $\mu$ L, 0.3 mmol; **2a'**, X = Br, 31.5  $\mu$ L, 0.3 mmol). The crude material was purified by flash chromatography on silica gel (eluted with EtOAc : hexanes = 1:8) to give the product **4ea** (X = Cl, 29.9 mg, 70% yield; X = Br, 26.9 mg, 63% yield) as a white solid. The  $^1\text{H}$  and  $^{13}\text{C}\{^1\text{H}\}$  NMR data for this compound match the literature data.<sup>2</sup>



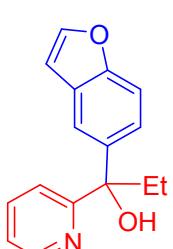
**1-(4-Methoxyphenyl)-1-(pyridin-2-yl)propan-1-ol (4eb):** The reaction was performed following the General Procedure B with **1e** (27.4 mg, 0.20 mmol) and aryl halides **2b** or **2b'** (**2b**, X = Cl, 36.5  $\mu$ L, 0.3 mmol; **2b'**, X = Br, 37.5  $\mu$ L, 0.3 mmol). The crude material was purified by flash chromatography on silica gel (eluted with EtOAc : hexanes = 1:8) to give the product **4eb** (X = Cl, 33.6 mg, 69% yield; X = Br, 27.3 mg, 56% yield) as a yellow solid. The  $^1\text{H}$  and  $^{13}\text{C}\{^1\text{H}\}$  NMR data for this compound match the literature data.<sup>1</sup>



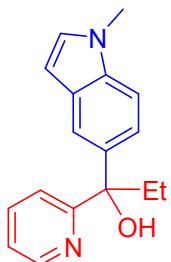
**1-(4-(Dimethylamino)phenyl)-1-(pyridin-2-yl)propan-1-ol (4ec):** The reaction was performed following the General Procedure B with **1e** (27.4 mg, 0.20 mmol) and aryl halides **2c** (X = Br, 60.0 mg, 0.3 mmol). The crude material was purified by flash chromatography on silica gel (eluted with EtOAc : hexanes = 1:4) to give the product **4ec** (X = Br, 28.2 mg, 55% yield) as a yellow solid. The  $^1\text{H}$  and  $^{13}\text{C}\{^1\text{H}\}$  NMR data for this compound match the literature data.<sup>1</sup>



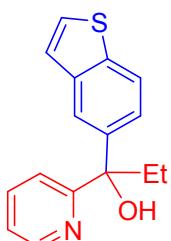
**1-(4-Fluorophenyl)-1-(pyridin-2-yl)propan-1-ol (4ed):** The reaction was performed following the General Procedure B with **1e** (27.4 mg, 0.20 mmol) and aryl halides **2d** or **2d'** (**2d**, X = Cl, 32.0  $\mu$ L, 0.3 mmol; **2d'**, X = Br, 33.0  $\mu$ L, 0.3 mmol). The crude material was purified by flash chromatography on silica gel (eluted with EtOAc : hexanes = 1:8) to give the product **4ed** (X = Cl, 31.0 mg, 67% yield; X = Br, 26.4 mg, 57% yield) as a yellow oil. The  $^1\text{H}$  and  $^{13}\text{C}\{^1\text{H}\}$  NMR data for this compound match the literature data<sup>1</sup>.  $^{19}\text{F}$  NMR (376 MHz, Chloroform-*d*)  $\delta$  -116 ppm.



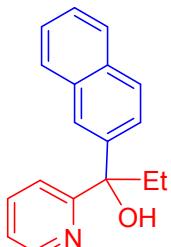
**1-(Benzofuran-5-yl)-1-(pyridin-2-yl)propan-1-ol (4eg):** The reaction was performed following the General Procedure B with **1e** (27.4 mg, 0.20 mmol) and aryl halides **2g** (X = Br, 37.5  $\mu$ L, 0.30 mmol). The crude material was purified by flash chromatography on silica gel (eluted with EtOAc : hexanes = 1:6) to give the product **4eg** (X = Br, 30.4 mg, 60% yield) as a white solid. The  $^1\text{H}$  and  $^{13}\text{C}\{^1\text{H}\}$  NMR data for this compound match the literature data.<sup>1</sup>



**1-(1-Methyl-1H-indol-5-yl)-1-(pyridin-2-yl)propan-1-ol (4eh):** The reaction was performed following the General Procedure B with **1e** (27.4 mg, 0.20 mmol) and aryl halides **2h** ( $X = \text{Br}$ , 63.0 mg, 0.30 mmol). The crude material was purified by flash chromatography on silica gel (eluted with EtOAc : hexanes = 1:6) to give the product **4eh** ( $X = \text{Br}$ , 22.9 mg, 43% yield) as a white solid. The  $^1\text{H}$  and  $^{13}\text{C}\{^1\text{H}\}$  NMR data for this compound match the literature data.<sup>1</sup>

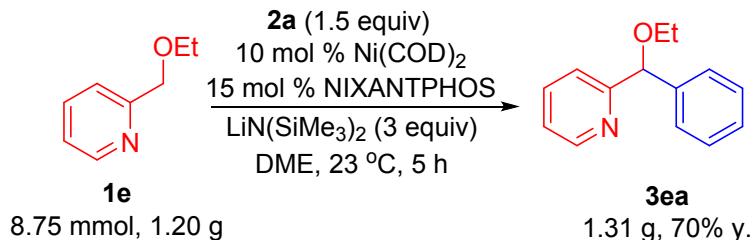


**1-(Benzo[b]thiophen-5-yl)-1-(pyridin-2-yl)propan-1-ol (4ei):** The reaction was performed following the General Procedure B with **1e** (27.4 mg, 0.20 mmol) and aryl halides **2i** or **2i'** (**2i**,  $X = \text{Cl}$ , 50.6 mg, 0.3 mmol; **2i'**,  $X = \text{Br}$ , 63.9 mg, 0.3 mmol). The crude material was purified by flash chromatography on silica gel (eluted with EtOAc : hexanes = 1:8) to give the product **4ei** ( $X = \text{Cl}$ , 37.7 mg, 70% yield;  $X = \text{Br}$ , 36.6 mg, 68% yield) as a yellow oil.  $R_f = 0.33$  (EtOAc : hexanes = 1:5);  $^1\text{H}$  NMR (400 MHz, Chloroform-*d*)  $\delta$  8.56–8.48 (m, 1H), 8.04 (d,  $J = 1.6$  Hz, 1H), 7.80 (d,  $J = 8.4$  Hz, 1H), 7.64 (td,  $J = 7.2, 1.6$  Hz, 1H), 7.49 (dd,  $J = 8.4, 1.6$  Hz, 1H), 7.41 (d,  $J = 5.2$  Hz, 1H), 7.36 (d,  $J = 8.0$  Hz, 1H), 7.31 (d,  $J = 5.2$  Hz, 1H), 7.17 (ddd,  $J = 7.2, 4.8, 1.2$  Hz, 1H), 6.02 (s, 1H), 2.49–2.29 (m, 2H), 0.90 (t,  $J = 7.2$  Hz, 3H) ppm;  $^{13}\text{C}\{^1\text{H}\}$  NMR (100 MHz, Chloroform-*d*)  $\delta$  163.8, 147.3, 142.9, 139.8, 138.4, 137.2, 126.7, 124.3, 123.1, 122.3, 122.1, 121.0, 120.7, 77.6, 34.1, 8.2 ppm; IR (thin film): 3072, 2965, 2925, 2876, 1591, 1570, 1467, 1433, 1393, 1261, 1215, 1152, 1089, 1066, 1048, 988, 813, 776, 704 cm<sup>-1</sup>; HRMS calc'd for C<sub>16</sub>H<sub>16</sub>NOS<sup>+</sup> 270.0947, found 270.0949 [M+H]<sup>+</sup>.



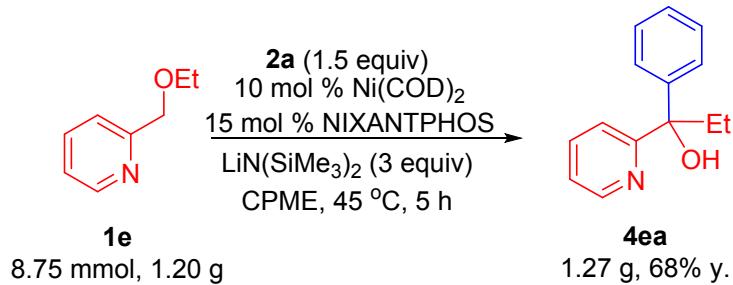
**1-(Naphthalen-2-yl)-1-(pyridin-2-yl)propan-1-ol (4ej):** The reaction was performed following the General Procedure B with **1e** (27.4 mg, 0.20 mmol) and aryl halides **2j** or **2j'** (**2j**,  $X = \text{Cl}$ , 48.8 mg, 0.3 mmol; **2j'**,  $X = \text{Br}$ , 62.1 mg, 0.3 mmol). The crude material was purified by flash chromatography on silica gel (eluted with EtOAc : hexanes = 1:8) to give the product **4ej** ( $X = \text{Cl}$ , 38.5 mg, 73% yield;  $X = \text{Br}$ , 35.3 mg, 67% yield) as a white oil.  $R_f = 0.35$  (EtOAc : hexanes = 1:5);  $^1\text{H}$  NMR (400 MHz, Chloroform-*d*)  $\delta$  8.54 (d,  $J = 4.8$  Hz, 1H), 8.05 (s, 1H), 7.88–7.81 (m, 1H), 7.77 (dd,  $J = 8.4, 4.8$  Hz, 2H), 7.65 (t,  $J = 7.2$  Hz, 1H), 7.58 (dd,  $J = 8.8, 1.6$  Hz, 1H), 7.45 (ddd,  $J = 6.4, 4.0, 1.6$  Hz, 2H), 7.37 (d,  $J = 8.0$  Hz, 1H), 7.18 (dd,  $J = 7.2, 4.8$  Hz, 1H), 6.05 (s, 1H), 2.53–2.33 (m, 2H), 0.92 (t,  $J = 7.2$  Hz, 3H) ppm;  $^{13}\text{C}\{^1\text{H}\}$  NMR (100 MHz, Chloroform-*d*)  $\delta$  163.6, 147.3, 143.8, 137.3, 133.3, 132.5, 128.4, 128.1, 127.6, 126.1, 126.0, 124.9, 124.6, 122.2, 120.9, 77.7, 33.9, 8.2 ppm; IR (thin film): 2959, 2920, 2851, 1661, 1590, 1541, 1466, 1431, 1374, 1166, 1127, 988, 818, 778, 746 cm<sup>-1</sup>; HRMS calc'd for C<sub>18</sub>H<sub>18</sub>NO<sup>+</sup> 264.1383, found 264.1383 [M+H]<sup>+</sup>.

## 6. Gram scale synthesis of 3ea



An oven-dried 250 mL round bottom flask equipped with a stir bar was charged with 2-pyridylmethyl ethyl ether **1e** (1.20 g, 8.75 mmol, 1.0 equiv),  $\text{Ni}(\text{COD})_2$  (240.7 mg, 0.875 mmol, 10 mol %), **NIXANTPHOS** (724 mg, 1.31 mmol, 15 mol %) and chlorobenzene **2a** (1.33 ml, 13.12 mmol, 1.5 equiv) in a glove box under a nitrogen atmosphere at room temperature. 44 mL of dry DME was taken up by syringe and added to the reaction vial under nitrogen. Then, a solution of  $\text{LiN}(\text{SiMe}_3)_2$  (4.39 g, 26.24 mmol, 3.0 equiv) in 44 mL of dry DME was added to the reaction mixture. The flask was capped with a rubber septum, removed from the glove box, and stirred for 5 h in total at 25 °C, opened to air, and quenched with 10 mL of  $\text{H}_2\text{O}$ . The layers were separated and the aqueous layer was extracted with DCM (3X5 mL). The combined organic layers were concentrated in *vacuo*. The crude material was loaded onto a silica gel column and purified by flash chromatography using 10:1 hexanes/ethyl acetate as eluent to afford desired product **3ea** (1.31 g, 70% yield) as a yellow oil. The  $^1\text{H}$  and  $^{13}\text{C}\{^1\text{H}\}$  NMR data for this compound match the literature data.<sup>1</sup>

## 7. Gram scale synthesis of 4ea

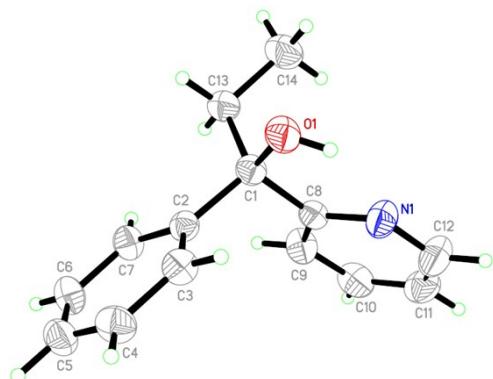


An oven-dried 250 mL round bottom flask equipped with a stir bar was charged with 2-pyridylmethyl ethyl ether **1e** (1.20 g, 8.75 mmol, 1.0 equiv),  $\text{Ni}(\text{COD})_2$  (240.7 mg, 0.875 mmol, 10 mol %), **NIXANTPHOS** (724 mg, 1.31 mmol, 15 mol %) and chlorobenzene **2a** (1.33 ml, 13.12 mmol, 1.5 equiv) in a glove box under a nitrogen atmosphere at room temperature. 44 mL of dry CPME was taken up by syringe and added to the reaction vial under nitrogen. Then, a solution of  $\text{LiN}(\text{SiMe}_3)_2$  (4.39 g, 26.24 mmol, 3.0 equiv) in 44 mL of dry CPME was added to the reaction mixture. The flask was capped with a rubber septum, removed from the glove box, and

stirred for 5 h in total at 45 °C, opened to air, and quenched with 10 mL of H<sub>2</sub>O. The layers were separated and the aqueous layer was extracted with DCM (3X5 mL). The combined organic layers were concentrated in *vacuo*. The crude material was loaded onto a deactivated silica gel column and purified by flash chromatography using 8 : 1 hexanes/ethyl acetate as eluent to afford desired product **4ea** (1.27 g, 48% yield) as a white solid. The <sup>1</sup>H and <sup>13</sup>C{<sup>1</sup>H} NMR data for this compound match the literature data.<sup>2</sup>

## 8. X-ray crystal structures of compound 4ea

CCDC 1569085 contains the supplementary crystallographic data for compound **4ea**. The data can be obtained free of charge from The Cambridge Crystallographic Data Center via [www.ccdc.cam.ac.uk/data\\_request/cif](http://www.ccdc.cam.ac.uk/data_request/cif).



**Figure 1** X-ray crystal structures of compound **4ea**

data\_1

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'International Tables Vol C Tables 4.2.6.8 and 6.1.1.4'
'H' 'H' 0.0000 0.0000
'International Tables Vol C Tables 4.2.6.8 and 6.1.1.4'
'N' 'N' 0.0061 0.0033
'International Tables Vol C Tables 4.2.6.8 and 6.1.1.4'
'O' 'O' 0.0106 0.0060
'International Tables Vol C Tables 4.2.6.8 and 6.1.1.4'
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The symmetry employed for this shelxl refinement is uniquely defined
by the following loop, which should always be used as a source of
symmetry information in preference to the above space-group names.
They are only intended as comments.
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Reflections were merged by SHELXL according to the crystal class for the calculation of statistics and refinement.

\_reflns\_Friedel\_fraction is defined as the number of unique Friedel pairs measured divided by the number that would be possible theoretically, ignoring centric projections and systematic absences.

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C1 C 0.03056(18) 0.3273(2) 0.17497(11) 0.0483(5) Uani 1 1 d .....
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C12 C -0.2507(3) 0.1153(3) 0.01434(14) 0.0834(7) Uani 1 1 d .....
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C13 C 0.0360(2) 0.2998(3) 0.26940(11) 0.0608(5) Uani 1 1 d .....
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H13B H 0.0921 0.3875 0.3017 0.073 Uiso 1 1 calc R U ...
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H14B H -0.1728 0.3886 0.2728 0.125 Uiso 1 1 calc R U ...
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C9 0.0586(11) 0.0482(12) 0.0828(14) 0.0035(11) 0.0111(10) 0.0012(9)
C10 0.0737(14) 0.0495(13) 0.1045(17) -0.0064(12) 0.0330(13) -0.0055(11)
C11 0.0828(16) 0.0743(17) 0.0771(15) -0.0228(13) 0.0230(12) -0.0216(13)
C12 0.0835(15) 0.0845(18) 0.0698(14) -0.0120(13) -0.0083(12) -0.0047(13)
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All esds (except the esd in the dihedral angle between two l.s. planes) are estimated using the full covariance matrix. The cell esds are taken into account individually in the estimation of esds in distances, angles and torsion angles; correlations between esds in cell parameters are only used when they are defined by crystal symmetry. An approximate (isotropic) treatment of cell esds is used for estimating esds involving l.s. planes.

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C1 C2 1.533(2) . ?
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C1 C13 1.538(2) . ?
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C6 C7 1.383(2) . ?  
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C2 C1 C8 108.78(13) . . ?  
O1 C1 C13 107.86(14) . . ?  
C2 C1 C13 111.94(14) . . ?  
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C2 C3 C4 120.94(17) . . ?  
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C7 C6 H6 120.0 . . ?  
C6 C7 C2 121.52(18) . . ?  
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C2 C7 H7 119.2 . . ?  
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N1 C8 C1 115.30(15) . . ?  
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 C12 C11 C10 118.0(2) . . ?  
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 C10 C11 H11 121.0 . . ?  
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 C11 C12 H12 117.9 . . ?  
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 C14 C13 H13B 108.8 . . ?  
 C1 C13 H13B 108.8 . . ?  
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SYMM 0.5-X,0.5+Y,0.5-Z  
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ACTA  
BOND \$H  
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PLAN 2  
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HTAB  
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0.05925 -0.00212 -0.00344 0.00301  
C1 1 0.030565 0.327268 0.174968 11.00000 0.04761 0.04341 =

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|------|---------|-----------|-----------|-----------|----------|----------|-----------|
|      | 0.05299 | 0.00194   | 0.00943   | 0.00700   |          |          |           |
| C2   | 1       | 0.188216  | 0.340460  | 0.157725  | 11.00000 | 0.04730  | 0.04156 = |
|      |         | 0.04870   | -0.00318  | 0.00818   | -0.00131 |          |           |
| C3   | 1       | 0.213805  | 0.442720  | 0.094644  | 11.00000 | 0.05972  | 0.05389 = |
|      |         | 0.05693   | 0.00614   | 0.01208   | 0.00280  |          |           |
| AFIX | 43      |           |           |           |          |          |           |
| H3   | 2       | 0.135309  | 0.505027  | 0.063967  | 11.00000 | -1.20000 |           |
| AFIX | 0       |           |           |           |          |          |           |
| C4   | 1       | 0.355249  | 0.453391  | 0.076618  | 11.00000 | 0.07377  | 0.06080 = |
|      |         | 0.06805   | 0.00771   | 0.02813   | -0.00523 |          |           |
| AFIX | 43      |           |           |           |          |          |           |
| H4   | 2       | 0.370512  | 0.522847  | 0.034242  | 11.00000 | -1.20000 |           |
| AFIX | 0       |           |           |           |          |          |           |
| C5   | 1       | 0.472047  | 0.362267  | 0.120889  | 11.00000 | 0.05452  | 0.06723 = |
|      |         | 0.08082   | -0.00757  | 0.02349   | -0.00943 |          |           |
| AFIX | 43      |           |           |           |          |          |           |
| H5   | 2       | 0.566395  | 0.369646  | 0.108615  | 11.00000 | -1.20000 |           |
| AFIX | 0       |           |           |           |          |          |           |
| C6   | 1       | 0.449370  | 0.259958  | 0.183468  | 11.00000 | 0.04655  | 0.06532 = |
|      |         | 0.07680   | 0.00640   | 0.00925   | 0.00370  |          |           |
| AFIX | 43      |           |           |           |          |          |           |
| H6   | 2       | 0.528329  | 0.197452  | 0.213504  | 11.00000 | -1.20000 |           |
| AFIX | 0       |           |           |           |          |          |           |
| C7   | 1       | 0.309171  | 0.249781  | 0.201876  | 11.00000 | 0.04982  | 0.05647 = |
|      |         | 0.05944   | 0.00890   | 0.01000   | -0.00041 |          |           |
| AFIX | 43      |           |           |           |          |          |           |
| H7   | 2       | 0.295400  | 0.180736  | 0.244756  | 11.00000 | -1.20000 |           |
| AFIX | 0       |           |           |           |          |          |           |
| C8   | 1       | -0.053740 | 0.188165  | 0.121576  | 11.00000 | 0.04544  | 0.05025 = |
|      |         | 0.04982   | 0.00149   | 0.01516   | 0.00055  |          |           |
| C9   | 1       | -0.010886 | 0.028123  | 0.133725  | 11.00000 | 0.05860  | 0.04825 = |
|      |         | 0.08281   | 0.00345   | 0.01106   | 0.00119  |          |           |
| AFIX | 43      |           |           |           |          |          |           |
| H9   | 2       | 0.073583  | 0.000086  | 0.175121  | 11.00000 | -1.20000 |           |
| AFIX | 0       |           |           |           |          |          |           |
| C10  | 1       | -0.094028 | -0.089595 | 0.084156  | 11.00000 | 0.07375  | 0.04947 = |
|      |         | 0.10447   | -0.00642  | 0.03299   | -0.00550 |          |           |
| AFIX | 43      |           |           |           |          |          |           |
| H10  | 2       | -0.067415 | -0.198070 | 0.092284  | 11.00000 | -1.20000 |           |
| AFIX | 0       |           |           |           |          |          |           |
| C11  | 1       | -0.215965 | -0.045219 | 0.022949  | 11.00000 | 0.08277  | 0.07431 = |
|      |         | 0.07707   | -0.02284  | 0.02298   | -0.02163 |          |           |
| AFIX | 43      |           |           |           |          |          |           |
| H11  | 2       | -0.273678 | -0.122098 | -0.011853 | 11.00000 | -1.20000 |           |
| AFIX | 0       |           |           |           |          |          |           |
| C12  | 1       | -0.250673 | 0.115299  | 0.014339  | 11.00000 | 0.08348  | 0.08451 = |
|      |         | 0.06978   | -0.01198  | -0.00825  | -0.00473 |          |           |
| AFIX | 43      |           |           |           |          |          |           |
| H12  | 2       | -0.333675 | 0.145476  | -0.027543 | 11.00000 | -1.20000 |           |
| AFIX | 0       |           |           |           |          |          |           |
| C13  | 1       | 0.035961  | 0.299803  | 0.269396  | 11.00000 | 0.05829  | 0.06939 = |
|      |         | 0.05624   | -0.00230  | 0.01636   | 0.00266  |          |           |
| AFIX | 23      |           |           |           |          |          |           |
| H13A | 2       | 0.089761  | 0.199971  | 0.287235  | 11.00000 | -1.20000 |           |
| H13B | 2       | 0.092128  | 0.387478  | 0.301740  | 11.00000 | -1.20000 |           |
| AFIX | 0       |           |           |           |          |          |           |
| C14  | 1       | -0.118639 | 0.290224  | 0.290139  | 11.00000 | 0.07317  | 0.10804 = |
|      |         | 0.07648   | 0.00018   | 0.03236   | 0.00413  |          |           |
| AFIX | 137     |           |           |           |          |          |           |
| H14A | 2       | -0.173340 | 0.200320  | 0.260649  | 11.00000 | -1.50000 |           |

H14B 2 -0.172849 0.388603 0.272809 11.00000 -1.50000  
H14C 2 -0.106918 0.275726 0.349997 11.00000 -1.50000  
AFIX 0  
HKLF 4

REM 1 in P2(1)/n  
REM R1 = 0.0441 for 1374 Fo > 4sig(Fo) and 0.0724 for all 2084 data  
REM 147 parameters refined using 0 restraints

END

WGHT 0.0654 0.0000

REM Instructions for potential hydrogen bonds  
HTAB O1 N1

REM Highest difference peak 0.117, deepest hole -0.134, 1-sigma level 0.031

Q1 1 -0.5060 0.0777 0.0134 11.00000 0.05 0.12

Q2 1 0.0775 0.0187 0.2368 11.00000 0.05 0.11

;

\_shelx\_res\_checksum 85945

\_shelx\_hkl\_file

;

-1 0 0 -0.67 0.15  
-1 0 0 -0.21 0.19  
-2 0 0 640.88 14.78  
-2 0 0 642.60 15.42  
-3 0 0 0.52 0.41  
-3 0 0 1.27 0.52  
-4 0 0 480.93 12.11  
-4 0 0 494.08 12.83  
-5 0 0 0.51 0.62  
-5 0 0 -0.12 0.58  
-6 0 0 35.80 2.58  
-6 0 0 38.14 2.37  
-7 0 0 0.10 1.08  
-7 0 0 -0.55 0.67  
-8 0 0 63.41 4.06  
-8 0 0 59.96 3.62  
-9 0 0 -0.49 1.07  
-9 0 0 0.64 1.52  
-10 0 0 2.65 1.56  
10 0 0 5.15 2.01  
-10 0 0 3.56 2.12  
11 0 0 0.40 1.60  
0 1 0 0.59 0.24  
0 1 0 0.36 0.24  
1 1 0 120.67 3.36  
1 -1 0 128.27 3.11  
-1 1 0 129.85 3.41  
-2 1 0 794.93 18.70  
-2 1 0 792.54 17.96  
2 1 0 756.89 18.57  
-3 -1 0 1.10 0.55  
-3 1 0 1.99 0.64  
-3 -1 0 2.57 0.62  
3 -1 0 2.14 0.35  
-3 1 0 2.06 0.64  
-4 -1 0 13.28 1.26

|     |    |   |        |       |
|-----|----|---|--------|-------|
| -4  | 1  | 0 | 13.46  | 1.23  |
| 4   | -1 | 0 | 15.18  | 0.77  |
| -4  | -1 | 0 | 14.51  | 1.38  |
| -4  | 1  | 0 | 13.59  | 1.35  |
| -5  | -1 | 0 | 16.10  | 1.56  |
| 5   | -1 | 0 | 15.93  | 0.92  |
| -5  | 1  | 0 | 14.87  | 1.59  |
| -5  | 1  | 0 | 14.14  | 1.42  |
| -5  | -1 | 0 | 15.50  | 1.62  |
| -6  | -1 | 0 | 0.58   | 0.73  |
| -6  | 1  | 0 | 0.28   | 0.64  |
| -6  | 1  | 0 | 0.37   | 0.65  |
| -6  | -1 | 0 | -0.33  | 0.89  |
| -7  | -1 | 0 | 34.29  | 2.82  |
| -7  | 1  | 0 | 31.78  | 2.42  |
| -7  | -1 | 0 | 31.21  | 2.47  |
| 7   | 1  | 0 | 30.82  | 2.77  |
| 8   | 1  | 0 | 9.57   | 1.97  |
| -8  | 1  | 0 | 7.44   | 1.81  |
| -8  | -1 | 0 | 10.48  | 1.84  |
| -8  | 1  | 0 | 7.00   | 1.57  |
| 9   | 1  | 0 | 7.33   | 1.99  |
| -9  | 1  | 0 | 5.39   | 1.99  |
| -9  | 1  | 0 | 4.62   | 1.53  |
| -10 | 1  | 0 | 3.96   | 2.22  |
| 10  | 1  | 0 | 3.39   | 1.87  |
| -10 | 1  | 0 | 6.28   | 1.91  |
| -11 | 1  | 0 | 0.47   | 2.14  |
| 11  | 1  | 0 | 1.11   | 1.85  |
| 0   | 2  | 0 | 348.07 | 8.45  |
| 0   | 2  | 0 | 337.98 | 8.53  |
| -1  | 2  | 0 | 540.08 | 12.89 |
| 1   | 2  | 0 | 541.38 | 13.07 |
| -1  | 2  | 0 | 544.55 | 13.12 |
| 1   | 2  | 0 | 535.56 | 12.81 |
| 2   | 2  | 0 | 35.70  | 1.63  |
| -2  | 2  | 0 | 30.00  | 1.72  |
| -2  | 2  | 0 | 29.77  | 1.63  |
| -3  | 2  | 0 | 40.33  | 2.03  |
| -3  | 2  | 0 | 42.83  | 2.08  |
| 3   | -2 | 0 | 37.29  | 1.32  |
| 3   | 2  | 0 | 38.10  | 1.97  |
| -4  | 2  | 0 | 26.51  | 1.87  |
| 4   | 2  | 0 | 26.84  | 1.80  |
| 4   | -2 | 0 | 25.68  | 0.98  |
| -4  | 2  | 0 | 24.58  | 1.78  |
| 5   | 2  | 0 | 114.64 | 4.58  |
| -5  | 2  | 0 | 118.27 | 4.72  |
| -5  | 2  | 0 | 121.64 | 4.39  |
| -6  | 2  | 0 | 30.61  | 2.51  |
| -6  | 2  | 0 | 31.27  | 2.28  |
| 6   | 2  | 0 | 29.56  | 2.48  |
| -7  | 2  | 0 | 120.77 | 4.89  |
| -7  | 2  | 0 | 112.50 | 5.34  |
| 7   | 2  | 0 | 120.86 | 5.37  |
| -8  | 2  | 0 | 46.77  | 3.50  |
| 8   | 2  | 0 | 47.29  | 3.55  |
| -8  | 2  | 0 | 46.25  | 3.07  |
| -9  | 2  | 0 | 17.26  | 2.26  |
| 9   | 2  | 0 | 12.02  | 2.39  |

|     |   |   |        |       |
|-----|---|---|--------|-------|
| -9  | 2 | 0 | 17.67  | 2.69  |
| -10 | 2 | 0 | -0.11  | 1.41  |
| 10  | 2 | 0 | 1.63   | 1.70  |
| -10 | 2 | 0 | -0.93  | 1.59  |
| -11 | 2 | 0 | 3.90   | 2.55  |
| 11  | 2 | 0 | 2.65   | 2.13  |
| 0   | 3 | 0 | 0.77   | 0.58  |
| 0   | 3 | 0 | 0.16   | 0.56  |
| -1  | 3 | 0 | 16.96  | 1.27  |
| -1  | 3 | 0 | 20.48  | 1.55  |
| 1   | 3 | 0 | 13.86  | 1.22  |
| 1   | 3 | 0 | 17.23  | 1.35  |
| -2  | 3 | 0 | 616.75 | 15.13 |
| 2   | 3 | 0 | 613.26 | 15.26 |
| 2   | 3 | 0 | 619.24 | 15.08 |
| -2  | 3 | 0 | 607.09 | 15.34 |
| 3   | 3 | 0 | 116.50 | 4.14  |
| -3  | 3 | 0 | 113.47 | 4.20  |
| -3  | 3 | 0 | 122.42 | 4.29  |
| -4  | 3 | 0 | 184.22 | 6.22  |
| -4  | 3 | 0 | 185.96 | 5.94  |
| 4   | 3 | 0 | 195.38 | 6.18  |
| -5  | 3 | 0 | 53.77  | 3.06  |
| 5   | 3 | 0 | 56.63  | 3.12  |
| -5  | 3 | 0 | 58.76  | 3.04  |
| -6  | 3 | 0 | 28.20  | 2.54  |
| -6  | 3 | 0 | 20.05  | 2.00  |
| 6   | 3 | 0 | 22.51  | 2.21  |
| -7  | 3 | 0 | 28.05  | 2.82  |
| -7  | 3 | 0 | 28.29  | 2.46  |
| 7   | 3 | 0 | 29.90  | 2.78  |
| -8  | 3 | 0 | 33.08  | 2.78  |
| 8   | 3 | 0 | 29.11  | 2.96  |
| -8  | 3 | 0 | 34.98  | 3.27  |
| 9   | 3 | 0 | 17.27  | 2.66  |
| -9  | 3 | 0 | 12.93  | 2.20  |
| -9  | 3 | 0 | 9.49   | 2.28  |
| 10  | 3 | 0 | 4.91   | 2.11  |
| -10 | 3 | 0 | 1.93   | 1.77  |
| 11  | 3 | 0 | 2.43   | 2.40  |
| 0   | 4 | 0 | 498.77 | 12.75 |
| 0   | 4 | 0 | 501.38 | 12.85 |
| -1  | 4 | 0 | 74.24  | 3.07  |
| 1   | 4 | 0 | 78.39  | 3.25  |
| 1   | 4 | 0 | 74.67  | 3.07  |
| -1  | 4 | 0 | 78.30  | 3.33  |
| -2  | 4 | 0 | 43.35  | 2.33  |
| 2   | 4 | 0 | 43.30  | 2.41  |
| -2  | 4 | 0 | 45.52  | 2.65  |
| 2   | 4 | 0 | 41.51  | 2.30  |
| -3  | 4 | 0 | 211.26 | 6.73  |
| 3   | 4 | 0 | 213.47 | 6.83  |
| -3  | 4 | 0 | 212.87 | 6.89  |
| 3   | 4 | 0 | 207.42 | 6.61  |
| -4  | 4 | 0 | 1.43   | 0.89  |
| -4  | 4 | 0 | 1.91   | 1.21  |
| 4   | 4 | 0 | 1.05   | 0.98  |
| -5  | 4 | 0 | 155.21 | 5.77  |
| -5  | 4 | 0 | 157.95 | 6.09  |
| 5   | 4 | 0 | 163.94 | 6.02  |

|     |   |   |        |      |
|-----|---|---|--------|------|
| 6   | 4 | 0 | 22.60  | 2.38 |
| -6  | 4 | 0 | 22.69  | 2.28 |
| -6  | 4 | 0 | 25.53  | 2.54 |
| -7  | 4 | 0 | 87.07  | 4.81 |
| -7  | 4 | 0 | 95.93  | 4.52 |
| 7   | 4 | 0 | 92.22  | 4.82 |
| -8  | 4 | 0 | 9.01   | 2.14 |
| 8   | 4 | 0 | 9.79   | 2.16 |
| -8  | 4 | 0 | 9.59   | 1.92 |
| 9   | 4 | 0 | -0.54  | 1.47 |
| -9  | 4 | 0 | -1.42  | 1.24 |
| -10 | 4 | 0 | 2.30   | 1.91 |
| 10  | 4 | 0 | -2.12  | 1.78 |
| 0   | 5 | 0 | 0.66   | 0.86 |
| 0   | 5 | 0 | 0.50   | 0.82 |
| -1  | 5 | 0 | 86.01  | 3.89 |
| 1   | 5 | 0 | 85.49  | 3.58 |
| -1  | 5 | 0 | 80.19  | 3.47 |
| 1   | 5 | 0 | 79.11  | 3.71 |
| 2   | 5 | 0 | 244.88 | 7.75 |
| -2  | 5 | 0 | 246.52 | 7.55 |
| 2   | 5 | 0 | 236.01 | 7.48 |
| -2  | 5 | 0 | 248.31 | 7.92 |
| 3   | 5 | 0 | 22.40  | 2.18 |
| 3   | 5 | 0 | 19.59  | 2.04 |
| -3  | 5 | 0 | 23.41  | 2.02 |
| -3  | 5 | 0 | 18.27  | 2.21 |
| -4  | 5 | 0 | -0.98  | 0.77 |
| -4  | 5 | 0 | 2.98   | 1.45 |
| 4   | 5 | 0 | 0.91   | 1.08 |
| 4   | 5 | 0 | -0.03  | 0.95 |
| 5   | 5 | 0 | 4.07   | 1.50 |
| -5  | 5 | 0 | 4.24   | 1.40 |
| -5  | 5 | 0 | 5.42   | 1.62 |
| -6  | 5 | 0 | 10.31  | 1.96 |
| -6  | 5 | 0 | 9.64   | 1.80 |
| 6   | 5 | 0 | 10.38  | 2.03 |
| -7  | 5 | 0 | 4.22   | 1.68 |
| -7  | 5 | 0 | -0.56  | 1.05 |
| 7   | 5 | 0 | 0.53   | 1.33 |
| -8  | 5 | 0 | 29.35  | 3.25 |
| 8   | 5 | 0 | 23.48  | 3.00 |
| 9   | 5 | 0 | -0.07  | 1.92 |
| -9  | 5 | 0 | -1.25  | 1.38 |
| -10 | 5 | 0 | 3.02   | 2.34 |
| 10  | 5 | 0 | -0.58  | 2.37 |
| 0   | 6 | 0 | 3.46   | 1.17 |
| 0   | 6 | 0 | 4.94   | 1.46 |
| 1   | 6 | 0 | 0.48   | 1.09 |
| 1   | 6 | 0 | 0.81   | 1.08 |
| -1  | 6 | 0 | 0.54   | 1.22 |
| -1  | 6 | 0 | -0.82  | 0.88 |
| 2   | 6 | 0 | 140.52 | 5.76 |
| -2  | 6 | 0 | 141.25 | 5.93 |
| 2   | 6 | 0 | 138.32 | 5.32 |
| -2  | 6 | 0 | 135.38 | 5.30 |
| 3   | 6 | 0 | 3.83   | 1.51 |
| 3   | 6 | 0 | 3.86   | 1.43 |
| -3  | 6 | 0 | 3.16   | 1.24 |
| -3  | 6 | 0 | 3.07   | 1.84 |

|    |   |   |       |      |
|----|---|---|-------|------|
| -4 | 6 | 0 | 47.22 | 3.22 |
| -4 | 6 | 0 | 48.16 | 3.82 |
| 4  | 6 | 0 | 51.98 | 3.58 |
| 4  | 6 | 0 | 49.67 | 3.34 |
| 5  | 6 | 0 | 4.21  | 1.65 |
| -5 | 6 | 0 | 0.98  | 1.19 |
| 5  | 6 | 0 | 3.96  | 1.64 |
| -5 | 6 | 0 | 2.58  | 1.71 |
| -6 | 6 | 0 | 4.46  | 1.67 |
| 6  | 6 | 0 | 4.13  | 1.77 |
| -6 | 6 | 0 | 5.09  | 1.83 |
| 6  | 6 | 0 | 4.67  | 1.91 |
| -7 | 6 | 0 | 10.04 | 2.27 |
| 7  | 6 | 0 | 10.13 | 2.52 |
| -8 | 6 | 0 | 1.36  | 1.71 |
| -9 | 6 | 0 | -0.63 | 1.66 |
| 0  | 7 | 0 | 0.71  | 1.12 |
| 0  | 7 | 0 | -1.65 | 1.33 |
| 1  | 7 | 0 | 8.81  | 1.93 |
| -1 | 7 | 0 | 10.89 | 1.74 |
| -1 | 7 | 0 | 7.55  | 2.10 |
| -2 | 7 | 0 | 1.03  | 1.17 |
| 2  | 7 | 0 | 3.48  | 1.50 |
| -2 | 7 | 0 | -0.13 | 1.58 |
| 3  | 7 | 0 | 17.61 | 2.55 |
| -3 | 7 | 0 | 21.83 | 2.35 |
| -3 | 7 | 0 | 20.61 | 3.04 |
| -4 | 7 | 0 | 55.02 | 3.62 |
| 4  | 7 | 0 | 51.74 | 3.92 |
| -4 | 7 | 0 | 46.41 | 4.09 |
| -5 | 7 | 0 | 4.66  | 2.10 |
| 5  | 7 | 0 | 1.73  | 1.67 |
| -5 | 7 | 0 | 0.14  | 1.35 |
| -6 | 7 | 0 | 18.73 | 2.71 |
| 6  | 7 | 0 | 18.71 | 3.06 |
| -7 | 7 | 0 | 3.33  | 1.84 |
| 7  | 7 | 0 | 3.37  | 2.24 |
| -8 | 7 | 0 | 1.19  | 1.93 |
| 8  | 7 | 0 | -0.04 | 1.79 |
| -9 | 7 | 0 | 4.13  | 2.67 |
| 0  | 8 | 0 | 5.53  | 1.95 |
| 1  | 8 | 0 | 0.75  | 1.42 |
| -1 | 8 | 0 | 0.02  | 1.80 |
| 2  | 8 | 0 | -1.08 | 1.48 |
| -2 | 8 | 0 | -0.56 | 1.85 |
| 3  | 8 | 0 | -0.23 | 1.60 |
| -3 | 8 | 0 | 3.35  | 2.41 |
| 4  | 8 | 0 | -0.53 | 1.47 |
| -4 | 8 | 0 | 0.39  | 2.16 |
| 5  | 8 | 0 | 7.81  | 2.51 |
| 6  | 8 | 0 | 2.95  | 2.11 |
| 7  | 8 | 0 | 1.09  | 2.05 |
| 0  | 9 | 0 | 0.81  | 1.90 |
| -1 | 9 | 0 | 1.98  | 2.23 |
| 1  | 9 | 0 | -0.76 | 1.71 |
| -2 | 9 | 0 | 13.06 | 3.25 |
| 2  | 9 | 0 | 13.44 | 2.91 |
| -3 | 9 | 0 | 0.44  | 2.49 |
| 3  | 9 | 0 | 1.91  | 2.21 |
| 4  | 9 | 0 | 3.62  | 2.36 |

|     |    |    |         |       |
|-----|----|----|---------|-------|
| 5   | 9  | 0  | 5.95    | 2.65  |
| 0   | 10 | 0  | 6.09    | 2.72  |
| -1  | 10 | 0  | 1.98    | 2.86  |
| 1   | 10 | 0  | 3.71    | 2.73  |
| -2  | 10 | 0  | 8.90    | 3.28  |
| 2   | 10 | 0  | 12.75   | 3.31  |
| 3   | 10 | 0  | 2.07    | 2.40  |
| 4   | 10 | 0  | 1.85    | 2.71  |
| 0   | 11 | 0  | -2.20   | 2.86  |
| -11 | 0  | 1  | 17.31   | 3.32  |
| 11  | 0  | -1 | 18.88   | 3.26  |
| -10 | 0  | 1  | -0.27   | 1.13  |
| -10 | 0  | 1  | 1.28    | 1.97  |
| -9  | 0  | 1  | 1.68    | 1.52  |
| -9  | 0  | 1  | -0.29   | 1.07  |
| -8  | 0  | 1  | 0.47    | 1.02  |
| -8  | 0  | 1  | 0.59    | 1.29  |
| -7  | 0  | 1  | 7.03    | 1.39  |
| -7  | 0  | 1  | 7.53    | 1.64  |
| -6  | 0  | 1  | 0.54    | 0.67  |
| -6  | 0  | 1  | 0.28    | 0.75  |
| -5  | 0  | 1  | 277.33  | 7.78  |
| -5  | 0  | 1  | 281.73  | 8.43  |
| -4  | 0  | 1  | 1.32    | 0.64  |
| -4  | 0  | 1  | 0.01    | 0.41  |
| -3  | 0  | 1  | 431.95  | 10.55 |
| -3  | 0  | 1  | 441.68  | 11.18 |
| -2  | 0  | 1  | 0.19    | 0.37  |
| -2  | 0  | 1  | -0.29   | 0.46  |
| -1  | 0  | 1  | 2662.02 | 61.37 |
| -1  | 0  | 1  | 2672.70 | 59.72 |
| -1  | 0  | -1 | 202.01  | 5.11  |
| -2  | 0  | -1 | 0.50    | 0.47  |
| -2  | 0  | -1 | -0.48   | 0.31  |
| -3  | 0  | -1 | 109.35  | 3.53  |
| -4  | 0  | -1 | -0.25   | 0.38  |
| -4  | 0  | -1 | -0.40   | 0.48  |
| -5  | 0  | -1 | 61.58   | 3.07  |
| -5  | 0  | -1 | 54.42   | 2.70  |
| -6  | 0  | -1 | -0.14   | 0.82  |
| -6  | 0  | -1 | 0.05    | 0.69  |
| -7  | 0  | -1 | 289.07  | 9.02  |
| -8  | 0  | -1 | 0.15    | 1.29  |
| -8  | 0  | -1 | -1.39   | 0.90  |
| 9   | 0  | 1  | 1.09    | 1.43  |
| -9  | 0  | -1 | 0.09    | 1.20  |
| 10  | 0  | 1  | -0.64   | 1.20  |
| -10 | 0  | -1 | 1.30    | 1.44  |
| 11  | 0  | 1  | 0.48    | 1.86  |
| -11 | 0  | -1 | 3.25    | 1.88  |
| 11  | 1  | -1 | 8.58    | 2.69  |
| -11 | 1  | 1  | 8.02    | 2.86  |
| -10 | 1  | 1  | 1.17    | 1.55  |
| -10 | 1  | 1  | 2.34    | 1.84  |
| 10  | 1  | -1 | -0.33   | 1.42  |
| -9  | 1  | 1  | 0.41    | 1.40  |
| -9  | -1 | 1  | -1.78   | 1.21  |
| -9  | 1  | 1  | 0.83    | 1.10  |
| 9   | 1  | -1 | 1.49    | 1.35  |
| -8  | 1  | 1  | 24.88   | 2.71  |

|    |    |    |        |       |
|----|----|----|--------|-------|
| -8 | -1 | 1  | 26.01  | 2.87  |
| -8 | 1  | 1  | 29.38  | 2.47  |
| -7 | 1  | 1  | 1.12   | 0.91  |
| -7 | 1  | 1  | 0.57   | 1.03  |
| -7 | -1 | 1  | 4.01   | 1.44  |
| -6 | 1  | 1  | 90.86  | 3.73  |
| -6 | 1  | 1  | 93.42  | 4.24  |
| -6 | -1 | 1  | 96.94  | 4.25  |
| -5 | -1 | 1  | 2.01   | 0.73  |
| -5 | 1  | 1  | 1.70   | 0.71  |
| 5  | -1 | -1 | 1.65   | 0.54  |
| -5 | 1  | 1  | 0.99   | 0.63  |
| -5 | -1 | 1  | 1.03   | 0.72  |
| -4 | 1  | 1  | 276.45 | 7.36  |
| 4  | -1 | -1 | 270.46 | 6.78  |
| -4 | -1 | 1  | 281.56 | 7.90  |
| -3 | 1  | 1  | 59.56  | 2.22  |
| 3  | -1 | -1 | 63.28  | 1.95  |
| -3 | -1 | 1  | 59.77  | 2.41  |
| -2 | 1  | 1  | 81.91  | 2.88  |
| -2 | 1  | 1  | 90.73  | 2.63  |
| -2 | -1 | 1  | 90.93  | 2.72  |
| 2  | -1 | -1 | 86.73  | 2.46  |
| -1 | 1  | 1  | 532.71 | 12.28 |
| 1  | 1  | -1 | 546.89 | 12.65 |
| 1  | 1  | -1 | 527.17 | 12.39 |
| 1  | -1 | -1 | 538.02 | 12.40 |
| -1 | 1  | 1  | 549.66 | 12.90 |
| 0  | 1  | 1  | -1.75  | 0.35  |
| 0  | -1 | -1 | -2.70  | 0.30  |
| -1 | 1  | -1 | 861.32 | 20.05 |
| -1 | 1  | -1 | 876.85 | 19.62 |
| 1  | 1  | 1  | 838.46 | 20.16 |
| -2 | 1  | -1 | 79.42  | 2.79  |
| -2 | 1  | -1 | 84.82  | 2.79  |
| 2  | 1  | 1  | 76.18  | 2.75  |
| -3 | -1 | -1 | 15.37  | 1.18  |
| -3 | 1  | -1 | 16.85  | 1.28  |
| -3 | 1  | -1 | 15.49  | 1.26  |
| 3  | 1  | 1  | 16.39  | 1.27  |
| -4 | 1  | -1 | 1.94   | 0.68  |
| -4 | 1  | -1 | 1.59   | 0.69  |
| -4 | -1 | -1 | 1.28   | 0.65  |
| 4  | 1  | 1  | 1.15   | 0.66  |
| 5  | 1  | 1  | 4.60   | 1.18  |
| -5 | -1 | -1 | 3.02   | 0.90  |
| -5 | 1  | -1 | 2.02   | 0.87  |
| -5 | 1  | -1 | 2.80   | 0.97  |
| -6 | -1 | -1 | 4.04   | 1.13  |
| -6 | 1  | -1 | 4.39   | 1.27  |
| -6 | 1  | -1 | 4.26   | 1.18  |
| 6  | 1  | 1  | 4.37   | 1.29  |
| -7 | 1  | -1 | 8.25   | 1.78  |
| -7 | 1  | -1 | 6.89   | 1.49  |
| -7 | -1 | -1 | 6.35   | 1.48  |
| 7  | 1  | 1  | 7.49   | 1.63  |
| -8 | 1  | -1 | 0.56   | 1.15  |
| 8  | 1  | 1  | -2.10  | 1.03  |
| -8 | 1  | -1 | 0.00   | 1.23  |
| -8 | -1 | -1 | 1.23   | 1.08  |

|     |    |    |         |       |
|-----|----|----|---------|-------|
| -9  | -1 | -1 | 1.11    | 1.32  |
| -9  | 1  | -1 | 0.08    | 1.40  |
| 9   | 1  | 1  | -0.24   | 1.27  |
| -9  | 1  | -1 | -0.31   | 1.07  |
| -10 | 1  | -1 | 3.07    | 1.66  |
| -10 | 1  | -1 | -0.76   | 1.32  |
| 10  | 1  | 1  | 1.40    | 1.50  |
| 11  | 1  | 1  | 1.49    | 1.89  |
| -11 | 1  | -1 | 2.31    | 2.01  |
| 11  | -1 | 1  | 4.36    | 2.33  |
| -11 | 2  | 1  | -0.05   | 1.84  |
| 11  | 2  | -1 | 5.11    | 2.27  |
| -10 | 2  | 1  | -1.04   | 1.31  |
| 10  | 2  | -1 | -2.26   | 1.33  |
| 9   | 2  | -1 | 3.64    | 1.69  |
| -9  | 2  | 1  | 6.88    | 1.94  |
| -9  | 2  | 1  | 3.81    | 1.52  |
| -8  | 2  | 1  | 1.21    | 1.12  |
| -8  | 2  | 1  | 1.04    | 1.24  |
| 8   | 2  | -1 | 1.30    | 1.17  |
| 7   | 2  | -1 | 255.26  | 8.73  |
| -7  | 2  | 1  | 261.39  | 8.01  |
| -7  | 2  | 1  | 252.03  | 8.85  |
| 6   | 2  | -1 | 3.75    | 1.16  |
| -6  | 2  | 1  | 4.54    | 1.04  |
| -6  | 2  | 1  | 2.24    | 1.07  |
| 5   | -2 | -1 | 194.04  | 4.98  |
| 5   | 2  | -1 | 194.10  | 6.38  |
| -5  | 2  | 1  | 192.61  | 5.93  |
| -5  | 2  | 1  | 186.32  | 6.50  |
| 4   | 2  | -1 | 69.19   | 2.98  |
| -4  | 2  | 1  | 69.78   | 3.14  |
| 4   | -2 | -1 | 69.03   | 2.27  |
| -4  | 2  | 1  | 69.96   | 2.83  |
| 3   | -2 | -1 | 21.41   | 1.16  |
| -3  | 2  | 1  | 19.09   | 1.38  |
| -3  | 2  | 1  | 18.84   | 1.43  |
| 3   | 2  | -1 | 19.32   | 1.32  |
| 2   | 2  | -1 | 263.23  | 6.73  |
| 2   | -2 | -1 | 258.18  | 6.46  |
| -2  | 2  | 1  | 255.58  | 6.71  |
| -2  | 2  | 1  | 251.13  | 7.01  |
| -1  | 2  | 1  | 86.28   | 2.97  |
| 1   | -2 | -1 | 87.97   | 2.79  |
| 1   | 2  | -1 | 89.74   | 2.65  |
| -1  | 2  | 1  | 88.57   | 2.79  |
| 0   | 2  | -1 | 2444.93 | 54.78 |
| 0   | 2  | -1 | 2507.08 | 56.46 |
| 0   | 2  | 1  | 2500.26 | 54.60 |
| 0   | -2 | -1 | 2462.35 | 55.13 |
| 0   | 2  | 1  | 2409.89 | 56.66 |
| -1  | 2  | -1 | 370.09  | 9.07  |
| 1   | 2  | 1  | 371.40  | 9.32  |
| -1  | 2  | -1 | 352.91  | 9.19  |
| -2  | 2  | -1 | 29.27   | 1.88  |
| -2  | 2  | -1 | 28.89   | 1.54  |
| 2   | 2  | 1  | 31.49   | 1.69  |
| -3  | 2  | -1 | 439.53  | 11.35 |
| -3  | 2  | -1 | 420.20  | 10.98 |
| 3   | 2  | 1  | 431.32  | 11.34 |

|     |    |    |        |       |
|-----|----|----|--------|-------|
| 4   | 2  | 1  | 18.27  | 1.64  |
| -4  | 2  | -1 | 21.20  | 1.66  |
| -4  | 2  | -1 | 20.85  | 1.73  |
| -5  | 2  | -1 | 334.21 | 9.54  |
| 5   | 2  | 1  | 349.58 | 10.15 |
| -5  | 2  | -1 | 338.11 | 10.10 |
| -6  | 2  | -1 | 28.35  | 2.50  |
| 6   | 2  | 1  | 28.62  | 2.46  |
| -6  | 2  | -1 | 30.40  | 2.33  |
| 7   | 2  | 1  | 38.59  | 3.06  |
| -7  | 2  | -1 | 30.05  | 2.81  |
| -7  | 2  | -1 | 38.54  | 2.76  |
| -8  | 2  | -1 | 4.02   | 1.46  |
| -8  | 2  | -1 | 2.10   | 1.45  |
| 8   | 2  | 1  | 1.65   | 1.32  |
| -9  | 2  | -1 | 18.58  | 2.49  |
| 9   | 2  | 1  | 22.54  | 2.97  |
| -9  | 2  | -1 | 20.36  | 2.85  |
| -10 | 2  | -1 | 1.96   | 1.82  |
| -10 | 2  | -1 | 0.18   | 1.49  |
| 10  | 2  | 1  | 1.18   | 1.72  |
| 11  | 2  | 1  | 0.44   | 2.14  |
| -11 | 2  | -1 | -0.45  | 1.99  |
| -11 | 3  | 1  | -0.05  | 1.82  |
| 11  | 3  | -1 | -0.18  | 2.09  |
| 10  | 3  | -1 | 3.24   | 2.09  |
| -10 | 3  | 1  | 2.36   | 1.82  |
| -9  | 3  | 1  | 3.65   | 1.66  |
| 9   | 3  | -1 | -1.28  | 1.23  |
| -8  | 3  | 1  | 38.16  | 2.86  |
| 8   | 3  | -1 | 42.21  | 3.40  |
| -8  | 3  | 1  | 31.09  | 3.13  |
| 7   | 3  | -1 | 42.45  | 3.21  |
| -7  | 3  | 1  | 43.35  | 3.26  |
| -7  | 3  | 1  | 46.84  | 2.96  |
| 6   | 3  | -1 | 216.49 | 7.41  |
| -6  | 3  | 1  | 216.28 | 6.84  |
| -6  | 3  | 1  | 207.85 | 7.57  |
| 5   | 3  | -1 | 185.40 | 6.31  |
| -5  | 3  | 1  | 189.58 | 6.65  |
| -5  | 3  | 1  | 188.54 | 6.05  |
| -4  | 3  | 1  | 224.43 | 7.08  |
| 4   | -3 | -1 | 215.78 | 5.71  |
| 4   | 3  | -1 | 219.53 | 6.70  |
| -4  | 3  | 1  | 216.44 | 6.49  |
| 3   | -3 | -1 | 2.47   | 0.64  |
| -3  | 3  | 1  | 2.60   | 0.97  |
| -3  | 3  | 1  | 0.97   | 0.72  |
| 3   | 3  | -1 | 2.23   | 0.72  |
| 2   | 3  | -1 | 452.42 | 11.18 |
| 2   | -3 | -1 | 442.48 | 10.88 |
| -2  | 3  | 1  | 441.86 | 11.57 |
| -2  | 3  | 1  | 432.03 | 11.18 |
| 1   | 3  | -1 | 396.39 | 10.33 |
| -1  | 3  | 1  | 402.57 | 10.50 |
| -1  | 3  | 1  | 408.98 | 10.23 |
| 1   | 3  | -1 | 410.76 | 10.15 |
| 0   | 3  | 1  | 160.00 | 4.76  |
| 0   | 3  | -1 | 159.93 | 4.51  |
| 0   | 3  | -1 | 161.35 | 4.94  |

|     |   |    |        |      |
|-----|---|----|--------|------|
| 0   | 3 | 1  | 160.90 | 4.92 |
| -1  | 3 | -1 | 265.85 | 7.45 |
| -1  | 3 | -1 | 264.64 | 7.02 |
| 1   | 3 | 1  | 260.66 | 7.33 |
| 1   | 3 | 1  | 260.74 | 7.13 |
| -2  | 3 | -1 | 109.00 | 4.07 |
| 2   | 3 | 1  | 114.18 | 3.93 |
| -2  | 3 | -1 | 107.81 | 3.74 |
| -3  | 3 | -1 | 0.82   | 0.62 |
| 3   | 3 | 1  | -0.13  | 0.60 |
| -3  | 3 | -1 | -0.19  | 0.81 |
| 4   | 3 | 1  | 3.41   | 0.97 |
| -4  | 3 | -1 | 0.63   | 0.73 |
| -4  | 3 | -1 | 3.62   | 1.13 |
| 5   | 3 | 1  | 1.86   | 1.00 |
| -5  | 3 | -1 | -0.11  | 0.92 |
| -5  | 3 | -1 | 1.07   | 0.83 |
| -6  | 3 | -1 | 25.22  | 2.40 |
| 6   | 3 | 1  | 28.02  | 2.53 |
| -6  | 3 | -1 | 26.05  | 2.31 |
| 7   | 3 | 1  | 7.50   | 1.81 |
| -7  | 3 | -1 | 5.08   | 1.40 |
| -7  | 3 | -1 | 4.26   | 1.54 |
| -8  | 3 | -1 | 3.81   | 1.48 |
| -8  | 3 | -1 | 6.41   | 1.90 |
| 8   | 3 | 1  | 8.43   | 2.06 |
| 9   | 3 | 1  | 5.83   | 2.14 |
| -9  | 3 | -1 | 5.25   | 1.86 |
| -9  | 3 | -1 | 6.81   | 2.12 |
| 10  | 3 | 1  | 8.91   | 2.44 |
| -10 | 3 | -1 | 9.10   | 2.45 |
| 11  | 4 | -1 | -0.79  | 2.35 |
| -10 | 4 | 1  | 1.60   | 1.80 |
| 10  | 4 | -1 | 3.12   | 2.28 |
| -9  | 4 | 1  | 2.86   | 1.69 |
| 9   | 4 | -1 | 0.64   | 1.67 |
| 8   | 4 | -1 | 1.12   | 1.54 |
| -8  | 4 | 1  | 0.91   | 1.36 |
| -7  | 4 | 1  | 1.88   | 1.14 |
| 7   | 4 | -1 | 0.80   | 1.34 |
| -7  | 4 | 1  | 2.55   | 1.35 |
| -6  | 4 | 1  | 15.76  | 1.93 |
| 6   | 4 | -1 | 15.72  | 2.00 |
| -6  | 4 | 1  | 20.61  | 2.32 |
| 5   | 4 | -1 | 16.49  | 1.89 |
| -5  | 4 | 1  | 20.43  | 2.04 |
| -5  | 4 | 1  | 16.03  | 1.99 |
| 4   | 4 | -1 | 14.14  | 1.54 |
| -4  | 4 | 1  | 13.13  | 1.66 |
| -4  | 4 | 1  | 13.15  | 1.70 |
| -3  | 4 | 1  | 1.33   | 1.05 |
| -3  | 4 | 1  | 2.39   | 0.92 |
| 3   | 4 | -1 | 0.86   | 0.64 |
| 3   | 4 | -1 | 3.01   | 0.91 |
| 2   | 4 | -1 | 67.09  | 3.11 |
| 2   | 4 | -1 | 65.04  | 2.79 |
| -2  | 4 | 1  | 70.40  | 3.17 |
| -2  | 4 | 1  | 67.60  | 3.07 |
| -1  | 4 | 1  | 65.64  | 2.99 |
| -1  | 4 | 1  | 70.98  | 2.99 |

|     |   |    |        |       |
|-----|---|----|--------|-------|
| 1   | 4 | -1 | 65.26  | 3.04  |
| 1   | 4 | -1 | 65.36  | 2.67  |
| 0   | 4 | -1 | 6.88   | 0.93  |
| 0   | 4 | 1  | 9.05   | 1.19  |
| 0   | 4 | 1  | 6.74   | 1.10  |
| 0   | 4 | -1 | 8.16   | 1.28  |
| 1   | 4 | 1  | 66.22  | 2.99  |
| -1  | 4 | -1 | 71.72  | 2.80  |
| -1  | 4 | -1 | 67.78  | 3.24  |
| 1   | 4 | 1  | 67.23  | 2.94  |
| 2   | 4 | 1  | 695.85 | 17.72 |
| -2  | 4 | -1 | 685.60 | 17.39 |
| -2  | 4 | -1 | 682.42 | 17.60 |
| 2   | 4 | 1  | 717.04 | 17.37 |
| 3   | 4 | 1  | 67.48  | 3.27  |
| -3  | 4 | -1 | 75.01  | 3.64  |
| -3  | 4 | -1 | 60.79  | 3.00  |
| -4  | 4 | -1 | 59.21  | 3.28  |
| -4  | 4 | -1 | 52.05  | 2.91  |
| 4   | 4 | 1  | 55.02  | 3.17  |
| -5  | 4 | -1 | 46.98  | 3.02  |
| 5   | 4 | 1  | 48.75  | 3.10  |
| -5  | 4 | -1 | 46.00  | 3.08  |
| -6  | 4 | -1 | 40.77  | 3.02  |
| 6   | 4 | 1  | 41.96  | 3.25  |
| -6  | 4 | -1 | 43.15  | 3.09  |
| 7   | 4 | 1  | 8.45   | 2.01  |
| -7  | 4 | -1 | 7.99   | 1.75  |
| -7  | 4 | -1 | 9.76   | 1.99  |
| 8   | 4 | 1  | 13.79  | 2.50  |
| -8  | 4 | -1 | 11.29  | 2.32  |
| -8  | 4 | -1 | 10.77  | 2.05  |
| 9   | 4 | 1  | 6.41   | 2.16  |
| -9  | 4 | -1 | 7.13   | 2.00  |
| -9  | 4 | -1 | 4.57   | 1.89  |
| -10 | 4 | -1 | 3.21   | 1.97  |
| 10  | 4 | 1  | 0.93   | 2.02  |
| -10 | 5 | 1  | 1.91   | 1.85  |
| -9  | 5 | 1  | 8.43   | 2.37  |
| 9   | 5 | -1 | 8.09   | 2.45  |
| 8   | 5 | -1 | 14.39  | 2.51  |
| -8  | 5 | 1  | 10.80  | 2.33  |
| 7   | 5 | -1 | 44.16  | 3.40  |
| -7  | 5 | 1  | 44.26  | 3.62  |
| -6  | 5 | 1  | 5.81   | 1.58  |
| -6  | 5 | 1  | 6.64   | 1.66  |
| 6   | 5 | -1 | 7.09   | 1.75  |
| 5   | 5 | -1 | 2.88   | 1.33  |
| -5  | 5 | 1  | 1.81   | 1.41  |
| 5   | 5 | -1 | 3.90   | 1.40  |
| -5  | 5 | 1  | 1.80   | 1.15  |
| -4  | 5 | 1  | 1.26   | 0.96  |
| 4   | 5 | -1 | 4.34   | 1.34  |
| 4   | 5 | -1 | 1.88   | 1.06  |
| -4  | 5 | 1  | 3.84   | 1.55  |
| 3   | 5 | -1 | 149.90 | 5.36  |
| 3   | 5 | -1 | 151.41 | 5.78  |
| -3  | 5 | 1  | 154.44 | 5.82  |
| -3  | 5 | 1  | 151.30 | 5.63  |
| 2   | 5 | -1 | 9.68   | 1.55  |

|     |   |    |       |      |
|-----|---|----|-------|------|
| 2   | 5 | -1 | 8.66  | 1.29 |
| -2  | 5 | 1  | 8.80  | 1.38 |
| -2  | 5 | 1  | 10.44 | 1.64 |
| 1   | 5 | -1 | 58.38 | 3.13 |
| 1   | 5 | -1 | 57.91 | 2.75 |
| -1  | 5 | 1  | 59.31 | 2.99 |
| -1  | 5 | 1  | 62.91 | 3.21 |
| 0   | 5 | -1 | 2.15  | 1.06 |
| 0   | 5 | -1 | 3.79  | 0.94 |
| 0   | 5 | 1  | 3.81  | 1.09 |
| 0   | 5 | 1  | 5.51  | 1.15 |
| -1  | 5 | -1 | 38.36 | 2.14 |
| 1   | 5 | 1  | 37.31 | 2.43 |
| 1   | 5 | 1  | 35.28 | 2.33 |
| -1  | 5 | -1 | 34.82 | 2.66 |
| -2  | 5 | -1 | 1.36  | 1.35 |
| -2  | 5 | -1 | 1.24  | 0.80 |
| 2   | 5 | 1  | 0.49  | 0.81 |
| 2   | 5 | 1  | -0.11 | 0.96 |
| -3  | 5 | -1 | 2.87  | 1.64 |
| 3   | 5 | 1  | 1.34  | 1.17 |
| -3  | 5 | -1 | 2.67  | 0.99 |
| 3   | 5 | 1  | 2.59  | 1.06 |
| -4  | 5 | -1 | 0.15  | 1.41 |
| 4   | 5 | 1  | 1.02  | 1.16 |
| -4  | 5 | -1 | -0.49 | 0.72 |
| -5  | 5 | -1 | 2.11  | 1.10 |
| -5  | 5 | -1 | 2.39  | 1.42 |
| 5   | 5 | 1  | 1.44  | 1.34 |
| -6  | 5 | -1 | 46.17 | 3.30 |
| 6   | 5 | 1  | 47.70 | 3.48 |
| -6  | 5 | -1 | 39.52 | 3.07 |
| -7  | 5 | -1 | 3.23  | 1.55 |
| 7   | 5 | 1  | 1.63  | 1.66 |
| -7  | 5 | -1 | 5.05  | 1.66 |
| 8   | 5 | 1  | 5.21  | 2.06 |
| -8  | 5 | -1 | 5.65  | 1.87 |
| -8  | 5 | -1 | 2.45  | 1.66 |
| 9   | 5 | 1  | 3.20  | 2.15 |
| -9  | 5 | -1 | 1.08  | 1.87 |
| -10 | 5 | -1 | 2.04  | 1.98 |
| 10  | 5 | 1  | -0.37 | 2.20 |
| 9   | 6 | -1 | 1.25  | 2.26 |
| -9  | 6 | 1  | 0.18  | 1.72 |
| 8   | 6 | -1 | 0.71  | 1.61 |
| -8  | 6 | 1  | 1.31  | 1.74 |
| -7  | 6 | 1  | 0.03  | 1.34 |
| 7   | 6 | -1 | 1.38  | 1.51 |
| -6  | 6 | 1  | 13.64 | 2.26 |
| 6   | 6 | -1 | 12.75 | 2.47 |
| -5  | 6 | 1  | 1.45  | 1.33 |
| -5  | 6 | 1  | 1.54  | 1.58 |
| 5   | 6 | -1 | 0.80  | 1.25 |
| -4  | 6 | 1  | 1.15  | 1.15 |
| -4  | 6 | 1  | 3.80  | 1.85 |
| 4   | 6 | -1 | 3.45  | 1.49 |
| 3   | 6 | -1 | 24.51 | 2.28 |
| -3  | 6 | 1  | 30.27 | 2.84 |
| -3  | 6 | 1  | 26.76 | 2.36 |
| 3   | 6 | -1 | 22.63 | 2.57 |

|    |   |    |        |      |
|----|---|----|--------|------|
| 2  | 6 | -1 | -0.12  | 1.06 |
| 2  | 6 | -1 | -0.42  | 0.99 |
| -2 | 6 | 1  | 2.03   | 1.08 |
| -2 | 6 | 1  | 0.23   | 1.28 |
| 1  | 6 | -1 | 15.61  | 1.69 |
| -1 | 6 | 1  | 18.05  | 2.16 |
| -1 | 6 | 1  | 18.36  | 1.93 |
| 1  | 6 | -1 | 19.65  | 2.28 |
| 0  | 6 | -1 | 24.04  | 2.42 |
| 0  | 6 | 1  | 22.73  | 2.08 |
| 0  | 6 | -1 | 24.33  | 1.95 |
| 0  | 6 | 1  | 21.15  | 2.17 |
| -1 | 6 | -1 | 9.66   | 1.42 |
| -1 | 6 | -1 | 6.93   | 1.73 |
| 1  | 6 | 1  | 8.26   | 1.63 |
| 1  | 6 | 1  | 9.78   | 1.66 |
| -2 | 6 | -1 | 0.25   | 1.50 |
| 2  | 6 | 1  | 0.45   | 1.10 |
| 2  | 6 | 1  | -0.92  | 1.12 |
| -2 | 6 | -1 | 0.26   | 0.88 |
| 3  | 6 | 1  | 32.28  | 2.74 |
| 3  | 6 | 1  | 25.96  | 2.60 |
| -3 | 6 | -1 | 29.49  | 3.12 |
| -3 | 6 | -1 | 28.79  | 2.38 |
| 4  | 6 | 1  | 0.24   | 1.07 |
| -4 | 6 | -1 | -0.30  | 0.98 |
| -4 | 6 | -1 | 1.91   | 1.78 |
| 4  | 6 | 1  | 0.99   | 1.46 |
| 5  | 6 | 1  | 15.13  | 2.32 |
| -5 | 6 | -1 | 18.98  | 2.29 |
| 5  | 6 | 1  | 15.14  | 2.43 |
| -5 | 6 | -1 | 14.19  | 2.48 |
| 6  | 6 | 1  | 1.06   | 1.64 |
| -6 | 6 | -1 | 1.76   | 1.67 |
| 6  | 6 | 1  | 1.15   | 1.31 |
| -6 | 6 | -1 | 0.63   | 1.26 |
| -7 | 6 | -1 | -0.49  | 1.33 |
| 7  | 6 | 1  | -1.66  | 1.45 |
| -7 | 6 | -1 | -0.64  | 1.44 |
| 8  | 6 | 1  | -0.21  | 1.89 |
| -8 | 6 | -1 | 0.38   | 1.76 |
| -9 | 6 | -1 | 3.14   | 2.32 |
| -9 | 7 | 1  | 5.26   | 2.69 |
| 8  | 7 | -1 | 3.02   | 2.45 |
| -8 | 7 | 1  | 7.13   | 2.45 |
| -7 | 7 | 1  | -1.26  | 1.56 |
| 7  | 7 | -1 | 8.97   | 2.61 |
| -6 | 7 | 1  | 1.18   | 1.46 |
| 6  | 7 | -1 | 2.00   | 1.87 |
| 5  | 7 | -1 | 55.30  | 4.27 |
| -5 | 7 | 1  | 57.57  | 4.00 |
| 4  | 7 | -1 | 10.05  | 2.28 |
| -4 | 7 | 1  | 10.50  | 1.98 |
| -4 | 7 | 1  | 9.85   | 2.40 |
| -3 | 7 | 1  | 146.00 | 6.12 |
| 3  | 7 | -1 | 152.89 | 6.65 |
| -3 | 7 | 1  | 151.10 | 6.79 |
| -2 | 7 | 1  | 5.27   | 1.62 |
| -2 | 7 | 1  | 6.70   | 2.05 |
| 2  | 7 | -1 | 4.97   | 1.79 |

|    |   |    |        |       |
|----|---|----|--------|-------|
| -1 | 7 | 1  | 62.28  | 4.06  |
| 1  | 7 | -1 | 70.93  | 4.17  |
| -1 | 7 | 1  | 65.30  | 3.70  |
| 0  | 7 | 1  | 31.02  | 2.97  |
| 0  | 7 | -1 | 29.75  | 3.05  |
| 0  | 7 | 1  | 29.39  | 2.57  |
| 1  | 7 | 1  | 309.43 | 9.72  |
| -1 | 7 | -1 | 303.53 | 10.47 |
| 1  | 7 | 1  | 310.26 | 10.11 |
| -2 | 7 | -1 | 9.65   | 2.39  |
| 2  | 7 | 1  | 12.72  | 2.12  |
| 2  | 7 | 1  | 8.62   | 1.91  |
| -3 | 7 | -1 | 7.99   | 2.46  |
| 3  | 7 | 1  | 6.59   | 1.88  |
| -3 | 7 | -1 | 6.50   | 1.60  |
| 3  | 7 | 1  | 4.47   | 1.84  |
| -4 | 7 | -1 | -0.50  | 1.64  |
| 4  | 7 | 1  | 1.69   | 1.57  |
| -4 | 7 | -1 | 0.05   | 1.16  |
| -5 | 7 | -1 | 0.48   | 1.73  |
| 5  | 7 | 1  | 1.88   | 1.73  |
| -5 | 7 | -1 | 2.00   | 1.36  |
| -6 | 7 | -1 | 10.04  | 2.17  |
| -6 | 7 | -1 | 12.21  | 2.50  |
| 6  | 7 | 1  | 13.05  | 2.82  |
| 7  | 7 | 1  | 8.54   | 2.49  |
| -7 | 7 | -1 | 10.17  | 2.51  |
| -8 | 7 | -1 | -0.01  | 1.86  |
| 8  | 7 | 1  | 0.43   | 2.16  |
| -9 | 7 | -1 | 1.66   | 2.27  |
| -8 | 8 | 1  | 4.53   | 2.50  |
| -7 | 8 | 1  | 6.50   | 2.53  |
| 7  | 8 | -1 | 6.07   | 2.80  |
| 6  | 8 | -1 | 0.33   | 1.82  |
| -6 | 8 | 1  | 1.66   | 1.81  |
| -5 | 8 | 1  | 2.66   | 1.85  |
| 5  | 8 | -1 | 0.93   | 1.89  |
| -4 | 8 | 1  | 2.02   | 1.66  |
| 4  | 8 | -1 | -0.24  | 1.72  |
| -3 | 8 | 1  | 1.23   | 2.19  |
| 3  | 8 | -1 | 0.37   | 1.49  |
| 2  | 8 | -1 | -1.33  | 1.47  |
| -2 | 8 | 1  | 1.91   | 1.96  |
| 1  | 8 | -1 | 5.49   | 1.99  |
| -1 | 8 | 1  | 5.26   | 2.07  |
| 0  | 8 | 1  | 10.74  | 2.32  |
| 0  | 8 | -1 | 14.87  | 2.60  |
| -1 | 8 | -1 | 10.57  | 2.65  |
| 1  | 8 | 1  | 6.22   | 2.03  |
| -2 | 8 | -1 | 5.40   | 2.28  |
| 2  | 8 | 1  | 2.22   | 1.68  |
| 3  | 8 | 1  | 2.83   | 1.81  |
| -3 | 8 | -1 | 1.19   | 2.25  |
| -4 | 8 | -1 | 1.50   | 2.35  |
| 4  | 8 | 1  | 2.16   | 1.77  |
| -5 | 8 | -1 | 5.26   | 2.62  |
| 5  | 8 | 1  | 1.82   | 2.07  |
| 6  | 8 | 1  | 0.31   | 2.07  |
| 7  | 8 | 1  | 9.77   | 3.15  |
| 6  | 9 | -1 | 8.75   | 3.11  |

|     |    |    |         |        |
|-----|----|----|---------|--------|
| 5   | 9  | -1 | -0.36   | 1.96   |
| 4   | 9  | -1 | -2.20   | 1.95   |
| 3   | 9  | -1 | 1.67    | 2.14   |
| -2  | 9  | 1  | 1.09    | 2.28   |
| 2   | 9  | -1 | 0.66    | 2.00   |
| 1   | 9  | -1 | 0.98    | 1.88   |
| -1  | 9  | 1  | -0.51   | 2.17   |
| 0   | 9  | -1 | 17.89   | 3.13   |
| 0   | 9  | 1  | 20.60   | 3.28   |
| 1   | 9  | 1  | -0.29   | 1.79   |
| -1  | 9  | -1 | 1.81    | 2.42   |
| -2  | 9  | -1 | 12.65   | 3.27   |
| 2   | 9  | 1  | 10.72   | 2.63   |
| -3  | 9  | -1 | -2.93   | 2.31   |
| 3   | 9  | 1  | -0.11   | 1.82   |
| 4   | 9  | 1  | -1.13   | 1.89   |
| -4  | 9  | -1 | -1.26   | 2.46   |
| 5   | 9  | 1  | -0.25   | 2.10   |
| 4   | 10 | -1 | 0.05    | 2.40   |
| 3   | 10 | -1 | 2.23    | 2.60   |
| 2   | 10 | -1 | -0.80   | 2.04   |
| 1   | 10 | -1 | 1.78    | 2.49   |
| -1  | 10 | 1  | -1.38   | 2.58   |
| 0   | 10 | -1 | 0.56    | 2.43   |
| 0   | 10 | 1  | 1.67    | 2.59   |
| -1  | 10 | -1 | 17.33   | 3.78   |
| 1   | 10 | 1  | 9.59    | 3.02   |
| 2   | 10 | 1  | 1.90    | 2.39   |
| -2  | 10 | -1 | -4.10   | 2.61   |
| 3   | 10 | 1  | 3.41    | 2.69   |
| 4   | 10 | 1  | 4.00    | 3.06   |
| -11 | 0  | 2  | -0.77   | 2.12   |
| -10 | 0  | 2  | 3.54    | 2.04   |
| -9  | 0  | 2  | 0.25    | 1.42   |
| -9  | 0  | 2  | 1.07    | 1.17   |
| -8  | 0  | 2  | 15.13   | 2.27   |
| -8  | 0  | 2  | 12.87   | 1.79   |
| -7  | 0  | 2  | 0.69    | 0.79   |
| -7  | 0  | 2  | 0.21    | 0.92   |
| -6  | 0  | 2  | 265.90  | 7.72   |
| -6  | 0  | 2  | 257.67  | 8.30   |
| -5  | 0  | 2  | -0.45   | 0.47   |
| -5  | 0  | 2  | -0.37   | 0.50   |
| -4  | 0  | 2  | 997.78  | 24.60  |
| -4  | 0  | 2  | 1030.56 | 23.44  |
| -3  | 0  | 2  | 1.69    | 0.59   |
| -3  | 0  | 2  | 3.08    | 0.54   |
| -2  | 0  | 2  | 9409.62 | 221.60 |
| 2   | 0  | -2 | 9999.92 | 215.40 |
| 1   | 0  | -2 | -4.40   | 0.46   |
| -1  | 0  | 2  | -4.28   | 0.44   |
| 0   | 0  | -2 | 195.27  | 4.71   |
| 0   | 0  | -2 | 194.96  | 4.82   |
| 0   | 0  | 2  | 192.85  | 4.90   |
| 1   | 0  | 2  | -0.13   | 0.25   |
| -1  | 0  | -2 | -0.03   | 0.31   |
| -1  | 0  | -2 | 0.72    | 0.33   |
| -2  | 0  | -2 | 121.09  | 3.18   |
| 2   | 0  | 2  | 120.45  | 3.77   |
| -3  | 0  | -2 | -0.47   | 0.38   |

|     |    |    |         |        |
|-----|----|----|---------|--------|
| -3  | 0  | -2 | -0.36   | 0.41   |
| -4  | 0  | -2 | 522.64  | 12.96  |
| -4  | 0  | -2 | 495.92  | 13.44  |
| -5  | 0  | -2 | -0.90   | 0.50   |
| -5  | 0  | -2 | -0.67   | 0.62   |
| -7  | 0  | -2 | 0.78    | 1.00   |
| 7   | 0  | 2  | 0.64    | 1.04   |
| -7  | 0  | -2 | 0.22    | 0.94   |
| 8   | 0  | 2  | 117.57  | 5.80   |
| -8  | 0  | -2 | 124.91  | 5.51   |
| -9  | 0  | -2 | -0.47   | 1.26   |
| 9   | 0  | 2  | -0.36   | 1.09   |
| 10  | 0  | 2  | 0.24    | 1.41   |
| -10 | 0  | -2 | -0.90   | 1.48   |
| -11 | 0  | -2 | 0.22    | 1.75   |
| 11  | 0  | 2  | -1.83   | 1.63   |
| -11 | 1  | 2  | 7.11    | 2.70   |
| 11  | 1  | -2 | 7.52    | 2.40   |
| 10  | 1  | -2 | 1.51    | 1.63   |
| -10 | -1 | 2  | 3.98    | 2.16   |
| -10 | 1  | 2  | 3.31    | 2.03   |
| -9  | 1  | 2  | 0.92    | 1.40   |
| -9  | -1 | 2  | 2.16    | 1.74   |
| -9  | 1  | 2  | 0.27    | 1.15   |
| -8  | 1  | 2  | 9.46    | 1.97   |
| -8  | -1 | 2  | 3.92    | 1.56   |
| -8  | 1  | 2  | 8.67    | 1.57   |
| -7  | 1  | 2  | 5.50    | 1.24   |
| -7  | 1  | 2  | 5.27    | 1.42   |
| -7  | -1 | 2  | 5.83    | 1.54   |
| -6  | -1 | 2  | 143.31  | 5.51   |
| 6   | -1 | -2 | 147.22  | 4.39   |
| -6  | 1  | 2  | 144.59  | 4.92   |
| -6  | 1  | 2  | 150.25  | 5.66   |
| -5  | 1  | 2  | 9.54    | 1.39   |
| 5   | -1 | -2 | 12.82   | 1.07   |
| -5  | 1  | 2  | 12.04   | 1.18   |
| -5  | -1 | 2  | 15.05   | 1.52   |
| -4  | -1 | 2  | 516.51  | 13.09  |
| -4  | 1  | 2  | 509.26  | 13.30  |
| 4   | -1 | -2 | 510.52  | 12.14  |
| -4  | 1  | 2  | 493.64  | 12.22  |
| 3   | -1 | -2 | 9.96    | 0.83   |
| -3  | -1 | 2  | 11.88   | 0.99   |
| -3  | 1  | 2  | 9.03    | 1.01   |
| -3  | 1  | 2  | 7.55    | 0.73   |
| -2  | -1 | 2  | 2.78    | 0.48   |
| -2  | 1  | 2  | 2.47    | 0.43   |
| 2   | -1 | -2 | 3.97    | 0.62   |
| -2  | 1  | 2  | 1.31    | 0.47   |
| 1   | -1 | -2 | 129.15  | 3.57   |
| 1   | 1  | -2 | 130.70  | 3.51   |
| 0   | 1  | -2 | 4536.54 | 100.04 |
| 1   | 1  | 2  | 3539.22 | 84.71  |
| -1  | 1  | -2 | 3664.56 | 84.53  |
| -1  | -1 | -2 | 3755.38 | 81.63  |
| -1  | -1 | -2 | 3874.93 | 82.37  |
| -2  | -1 | -2 | 211.67  | 5.75   |
| -2  | 1  | -2 | 214.34  | 5.93   |
| -2  | 1  | -2 | 224.57  | 5.95   |

|     |    |    |        |      |
|-----|----|----|--------|------|
| 2   | 1  | 2  | 206.82 | 6.01 |
| 3   | 1  | 2  | 73.41  | 2.96 |
| -3  | 1  | -2 | 69.63  | 2.86 |
| -3  | 1  | -2 | 70.00  | 2.85 |
| -4  | -1 | -2 | 142.37 | 4.77 |
| -4  | 1  | -2 | 148.06 | 4.89 |
| 4   | 1  | 2  | 139.50 | 5.03 |
| -4  | 1  | -2 | 145.45 | 5.03 |
| -5  | -1 | -2 | 1.18   | 0.68 |
| -5  | 1  | -2 | -0.12  | 0.62 |
| -5  | 1  | -2 | 1.24   | 0.85 |
| 5   | 1  | 2  | 0.25   | 0.69 |
| 6   | 1  | 2  | 29.08  | 2.53 |
| -6  | -1 | -2 | 27.94  | 2.22 |
| -6  | 1  | -2 | 26.97  | 2.40 |
| -6  | 1  | -2 | 27.27  | 2.30 |
| 7   | 1  | 2  | 0.16   | 1.05 |
| -7  | 1  | -2 | 1.18   | 1.03 |
| -7  | -1 | -2 | 0.76   | 0.99 |
| -7  | 1  | -2 | -0.56  | 0.95 |
| -8  | 1  | -2 | 136.64 | 5.75 |
| 8   | 1  | 2  | 129.85 | 6.14 |
| -8  | -1 | -2 | 125.61 | 5.78 |
| -8  | 1  | -2 | 145.71 | 6.46 |
| 9   | 1  | 2  | -0.84  | 1.15 |
| -9  | 1  | -2 | 2.09   | 1.44 |
| -9  | -1 | -2 | 0.26   | 1.13 |
| -9  | 1  | -2 | -0.26  | 1.47 |
| 10  | 1  | 2  | 1.75   | 1.62 |
| 10  | -1 | 2  | 2.56   | 1.80 |
| -10 | 1  | -2 | 2.27   | 1.81 |
| 11  | 1  | 2  | 1.86   | 2.06 |
| -11 | 1  | -2 | 2.08   | 1.81 |
| -11 | 2  | 2  | 8.57   | 2.69 |
| 11  | 2  | -2 | 6.34   | 2.49 |
| 10  | 2  | -2 | 3.25   | 1.93 |
| -10 | 2  | 2  | 5.62   | 2.32 |
| -9  | 2  | 2  | -0.62  | 1.16 |
| 9   | 2  | -2 | 0.65   | 1.43 |
| -8  | 2  | 2  | 5.15   | 1.36 |
| -8  | 2  | 2  | -0.09  | 0.81 |
| 8   | 2  | -2 | 2.67   | 1.35 |
| -7  | 2  | 2  | 0.12   | 0.80 |
| 7   | 2  | -2 | 1.95   | 1.17 |
| -7  | 2  | 2  | 0.55   | 0.81 |
| 6   | 2  | -2 | 16.89  | 1.85 |
| -6  | 2  | 2  | 19.09  | 1.67 |
| -6  | -2 | 2  | 19.63  | 1.89 |
| -6  | 2  | 2  | 17.10  | 2.02 |
| -5  | -2 | 2  | 40.40  | 2.36 |
| 5   | -2 | -2 | 43.07  | 1.89 |
| 5   | 2  | -2 | 41.73  | 2.45 |
| -5  | 2  | 2  | 37.69  | 2.08 |
| -5  | 2  | 2  | 36.74  | 2.48 |
| -4  | -2 | 2  | 43.21  | 2.19 |
| 4   | 2  | -2 | 41.48  | 2.19 |
| -4  | 2  | 2  | 40.94  | 2.36 |
| 4   | -2 | -2 | 46.41  | 1.93 |
| -4  | 2  | 2  | 46.66  | 2.11 |
| 3   | -2 | -2 | 12.47  | 1.03 |

|     |    |    |         |       |
|-----|----|----|---------|-------|
| -3  | 2  | 2  | 11.31   | 1.19  |
| 3   | 2  | -2 | 12.76   | 1.04  |
| -3  | 2  | 2  | 12.35   | 1.04  |
| -2  | 2  | 2  | 61.97   | 2.23  |
| 2   | 2  | -2 | 62.34   | 2.42  |
| 2   | -2 | -2 | 57.57   | 2.24  |
| 2   | 2  | -2 | 62.95   | 2.09  |
| -2  | 2  | 2  | 64.38   | 2.61  |
| 1   | 2  | -2 | 166.83  | 4.15  |
| 1   | 2  | -2 | 162.33  | 4.67  |
| -1  | 2  | 2  | 163.51  | 4.31  |
| -1  | 2  | 2  | 163.61  | 4.83  |
| 1   | -2 | -2 | 160.61  | 4.59  |
| 0   | 2  | -2 | 2603.14 | 59.27 |
| 0   | 2  | 2  | 2579.47 | 57.17 |
| 0   | -2 | -2 | 2596.83 | 57.91 |
| 0   | 2  | 2  | 2565.64 | 59.59 |
| -1  | 2  | -2 | 2.03    | 0.89  |
| 1   | 2  | 2  | 2.91    | 0.79  |
| -1  | 2  | -2 | 3.53    | 0.52  |
| -1  | -2 | -2 | 1.92    | 0.67  |
| -2  | 2  | -2 | 0.14    | 0.42  |
| 2   | 2  | 2  | 0.38    | 0.50  |
| -2  | 2  | -2 | 0.90    | 0.79  |
| -3  | 2  | -2 | 451.70  | 11.72 |
| -3  | 2  | -2 | 464.41  | 11.62 |
| 3   | 2  | 2  | 423.65  | 11.78 |
| -4  | 2  | -2 | 130.75  | 4.81  |
| -4  | 2  | -2 | 134.75  | 4.84  |
| 4   | 2  | 2  | 140.28  | 5.04  |
| 5   | 2  | 2  | 0.81    | 0.83  |
| -5  | 2  | -2 | 1.30    | 0.95  |
| -5  | 2  | -2 | 1.36    | 0.83  |
| 6   | 2  | 2  | 23.95   | 2.37  |
| -6  | 2  | -2 | 22.96   | 2.26  |
| -6  | 2  | -2 | 23.64   | 2.18  |
| 7   | 2  | 2  | 87.77   | 4.78  |
| -7  | 2  | -2 | 90.21   | 4.38  |
| -7  | 2  | -2 | 91.46   | 4.76  |
| 8   | 2  | 2  | 0.46    | 1.26  |
| -8  | 2  | -2 | 1.42    | 1.30  |
| -8  | 2  | -2 | 1.45    | 1.45  |
| -9  | 2  | -2 | 2.52    | 1.54  |
| -9  | 2  | -2 | 3.29    | 1.75  |
| 9   | 2  | 2  | 1.72    | 1.79  |
| -10 | 2  | -2 | 2.80    | 1.82  |
| 10  | 2  | 2  | 4.08    | 2.05  |
| -10 | 2  | -2 | 3.12    | 2.04  |
| -11 | 2  | -2 | -1.43   | 1.71  |
| -11 | 3  | 2  | -0.05   | 1.89  |
| 11  | 3  | -2 | -2.25   | 2.22  |
| 10  | 3  | -2 | 0.10    | 1.86  |
| -10 | 3  | 2  | -1.14   | 1.56  |
| 9   | 3  | -2 | 1.71    | 1.63  |
| -9  | 3  | 2  | 0.75    | 1.36  |
| -8  | 3  | 2  | 31.93   | 3.17  |
| 8   | 3  | -2 | 26.59   | 2.82  |
| -7  | 3  | 2  | 74.32   | 3.53  |
| 7   | 3  | -2 | 68.62   | 3.92  |
| -7  | 3  | 2  | 67.61   | 4.05  |

|     |    |    |        |       |
|-----|----|----|--------|-------|
| 6   | 3  | -2 | 4.52   | 1.24  |
| -6  | 3  | 2  | 4.22   | 1.13  |
| -6  | 3  | 2  | 6.03   | 1.49  |
| -5  | 3  | 2  | 114.93 | 4.79  |
| -5  | 3  | 2  | 119.89 | 4.24  |
| 5   | -3 | -2 | 115.33 | 3.67  |
| 5   | 3  | -2 | 110.31 | 4.42  |
| 4   | 3  | -2 | 37.13  | 2.06  |
| 4   | -3 | -2 | 39.09  | 1.92  |
| -4  | 3  | 2  | 37.73  | 2.38  |
| -4  | 3  | 2  | 34.12  | 2.02  |
| 3   | 3  | -2 | 208.57 | 5.85  |
| 3   | 3  | -2 | 207.57 | 6.28  |
| -3  | 3  | 2  | 197.15 | 5.88  |
| 3   | -3 | -2 | 202.07 | 5.69  |
| -3  | 3  | 2  | 202.14 | 6.40  |
| 2   | 3  | -2 | 10.26  | 0.89  |
| -2  | 3  | 2  | 9.08   | 1.05  |
| -2  | 3  | 2  | 7.12   | 1.08  |
| 2   | 3  | -2 | 10.90  | 1.17  |
| 2   | -3 | -2 | 8.54   | 0.99  |
| -1  | 3  | 2  | 3.19   | 0.86  |
| 1   | -3 | -2 | 4.84   | 0.87  |
| 1   | 3  | -2 | 3.27   | 0.60  |
| -1  | 3  | 2  | 4.29   | 0.75  |
| 0   | -3 | -2 | 14.02  | 1.26  |
| 0   | 3  | 2  | 12.24  | 1.05  |
| 0   | 3  | -2 | 12.47  | 1.31  |
| 0   | 3  | 2  | 12.77  | 1.31  |
| 0   | 3  | -2 | 13.69  | 0.92  |
| -1  | 3  | -2 | 555.35 | 14.17 |
| -1  | 3  | -2 | 565.11 | 13.75 |
| 1   | 3  | 2  | 570.37 | 14.40 |
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| 2   | 3  | 2  | 11.69  | 1.34  |
| -2  | 3  | -2 | 11.08  | 1.06  |
| -3  | 3  | -2 | 443.01 | 11.94 |
| 3   | 3  | 2  | 438.45 | 12.12 |
| -3  | 3  | -2 | 448.55 | 11.82 |
| -4  | 3  | -2 | 27.71  | 2.23  |
| 4   | 3  | 2  | 24.56  | 2.03  |
| -4  | 3  | -2 | 23.28  | 1.83  |
| -5  | 3  | -2 | 187.52 | 6.49  |
| -5  | 3  | -2 | 186.57 | 6.63  |
| 5   | 3  | 2  | 189.38 | 6.72  |
| -6  | 3  | -2 | 15.61  | 1.97  |
| 6   | 3  | 2  | 9.97   | 1.87  |
| -6  | 3  | -2 | 9.96   | 1.74  |
| -7  | 3  | -2 | 76.44  | 4.40  |
| -7  | 3  | -2 | 81.13  | 4.24  |
| 7   | 3  | 2  | 82.58  | 4.56  |
| -8  | 3  | -2 | 8.02   | 2.07  |
| 8   | 3  | 2  | 8.31   | 2.11  |
| -8  | 3  | -2 | 7.41   | 1.81  |
| 9   | 3  | 2  | -0.59  | 1.41  |
| -9  | 3  | -2 | -0.20  | 1.47  |
| -9  | 3  | -2 | 2.32   | 1.43  |
| 10  | 3  | 2  | 0.33   | 1.80  |
| -10 | 3  | -2 | 0.36   | 1.77  |
| -10 | 3  | -2 | 0.69   | 1.58  |

|     |    |    |        |      |
|-----|----|----|--------|------|
| 11  | 4  | -2 | 2.42   | 2.70 |
| -10 | 4  | 2  | -0.23  | 1.70 |
| 10  | 4  | -2 | 5.46   | 2.28 |
| 9   | 4  | -2 | 13.13  | 2.55 |
| -9  | 4  | 2  | 14.29  | 2.63 |
| 8   | 4  | -2 | 12.65  | 2.21 |
| -8  | 4  | 2  | 8.12   | 1.97 |
| -7  | 4  | 2  | 153.04 | 6.67 |
| 7   | 4  | -2 | 159.21 | 6.38 |
| -6  | 4  | 2  | 18.57  | 2.28 |
| -6  | 4  | 2  | 23.10  | 2.09 |
| 6   | 4  | -2 | 20.06  | 2.12 |
| -5  | 4  | 2  | 94.08  | 4.46 |
| 5   | 4  | -2 | 94.49  | 4.02 |
| -5  | 4  | 2  | 90.62  | 3.87 |
| 4   | -4 | -2 | 1.64   | 0.81 |
| -4  | 4  | 2  | 1.75   | 1.03 |
| 4   | 4  | -2 | 2.57   | 1.07 |
| -4  | 4  | 2  | 2.77   | 1.16 |
| 4   | 4  | -2 | 3.02   | 0.92 |
| 3   | 4  | -2 | 4.99   | 1.12 |
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| -3  | 4  | 2  | 4.41   | 1.19 |
| 3   | 4  | -2 | 6.38   | 1.02 |
| 3   | -4 | -2 | 7.55   | 1.08 |
| 2   | 4  | -2 | 267.65 | 7.36 |
| 2   | -4 | -2 | 269.23 | 7.59 |
| -2  | 4  | 2  | 274.33 | 8.15 |
| -2  | 4  | 2  | 274.63 | 7.78 |
| 1   | 4  | -2 | 109.07 | 3.39 |
| -1  | 4  | 2  | 101.68 | 3.77 |
| -1  | 4  | 2  | 104.69 | 3.98 |
| 1   | 4  | -2 | 101.07 | 4.02 |
| 0   | 4  | 2  | 137.42 | 4.85 |
| 0   | 4  | -2 | 138.94 | 4.13 |
| 0   | 4  | 2  | 138.40 | 4.57 |
| 0   | 4  | -2 | 131.11 | 4.91 |
| -1  | 4  | -2 | 62.04  | 2.52 |
| 1   | 4  | 2  | 66.81  | 2.91 |
| -1  | 4  | -2 | 69.99  | 3.39 |
| 1   | 4  | 2  | 62.84  | 3.10 |
| -2  | 4  | -2 | 47.15  | 3.01 |
| 2   | 4  | 2  | 41.33  | 2.62 |
| -2  | 4  | -2 | 46.58  | 2.30 |
| -3  | 4  | -2 | 9.72   | 1.78 |
| 3   | 4  | 2  | 11.07  | 1.58 |
| -3  | 4  | -2 | 6.63   | 1.09 |
| -4  | 4  | -2 | 45.90  | 2.70 |
| -4  | 4  | -2 | 47.50  | 3.10 |
| 4   | 4  | 2  | 44.14  | 2.91 |
| -5  | 4  | -2 | 0.25   | 0.95 |
| 5   | 4  | 2  | 3.14   | 1.38 |
| -5  | 4  | -2 | 2.65   | 1.32 |
| -6  | 4  | -2 | 110.23 | 5.06 |
| -6  | 4  | -2 | 115.74 | 5.25 |
| 6   | 4  | 2  | 115.13 | 5.41 |
| -7  | 4  | -2 | 4.55   | 1.58 |
| 7   | 4  | 2  | 4.94   | 1.80 |
| -7  | 4  | -2 | 6.51   | 1.82 |
| -8  | 4  | -2 | 12.19  | 2.41 |

|     |   |    |       |      |
|-----|---|----|-------|------|
| 8   | 4 | 2  | 10.86 | 2.48 |
| -8  | 4 | -2 | 9.97  | 2.07 |
| -9  | 4 | -2 | 0.39  | 1.64 |
| 9   | 4 | 2  | 0.93  | 1.80 |
| -9  | 4 | -2 | 1.21  | 1.60 |
| 10  | 4 | 2  | 1.13  | 1.98 |
| -10 | 4 | -2 | -0.06 | 1.65 |
| -10 | 5 | 2  | 1.87  | 2.03 |
| -9  | 5 | 2  | 2.69  | 1.80 |
| -8  | 5 | 2  | -0.12 | 1.21 |
| -7  | 5 | 2  | 5.66  | 1.83 |
| 7   | 5 | -2 | 3.03  | 1.60 |
| 6   | 5 | -2 | 44.58 | 3.08 |
| -6  | 5 | 2  | 50.88 | 3.58 |
| 6   | 5 | -2 | 46.39 | 3.53 |
| -5  | 5 | 2  | 27.10 | 2.65 |
| 5   | 5 | -2 | 27.54 | 2.69 |
| -5  | 5 | 2  | 24.70 | 2.37 |
| 5   | 5 | -2 | 33.14 | 2.59 |
| -4  | 5 | 2  | 5.07  | 1.35 |
| 4   | 5 | -2 | 3.13  | 1.22 |
| -4  | 5 | 2  | 3.84  | 1.53 |
| 4   | 5 | -2 | 2.16  | 1.12 |
| -3  | 5 | 2  | 3.48  | 1.40 |
| 3   | 5 | -2 | 1.02  | 0.96 |
| -3  | 5 | 2  | 2.43  | 1.07 |
| 3   | 5 | -2 | 0.94  | 0.91 |
| 2   | 5 | -2 | 63.95 | 3.37 |
| 2   | 5 | -2 | 64.70 | 2.80 |
| -2  | 5 | 2  | 62.53 | 3.31 |
| -2  | 5 | 2  | 59.29 | 3.18 |
| -1  | 5 | 2  | 26.77 | 2.17 |
| 1   | 5 | -2 | 28.73 | 1.74 |
| -1  | 5 | 2  | 26.07 | 2.09 |
| 1   | 5 | -2 | 28.54 | 2.27 |
| 0   | 5 | -2 | 80.96 | 3.92 |
| 0   | 5 | -2 | 85.37 | 3.17 |
| 0   | 5 | 2  | 85.77 | 3.78 |
| 0   | 5 | 2  | 80.11 | 3.57 |
| 1   | 5 | 2  | 76.62 | 3.55 |
| 1   | 5 | 2  | 80.09 | 3.76 |
| -1  | 5 | -2 | 75.61 | 3.98 |
| -1  | 5 | -2 | 81.64 | 3.15 |
| 2   | 5 | 2  | 12.61 | 1.65 |
| -2  | 5 | -2 | 20.20 | 2.47 |
| -2  | 5 | -2 | 17.55 | 1.59 |
| 2   | 5 | 2  | 14.43 | 1.84 |
| 3   | 5 | 2  | 2.34  | 1.04 |
| 3   | 5 | 2  | 1.07  | 1.18 |
| -3  | 5 | -2 | 0.55  | 0.76 |
| -3  | 5 | -2 | 0.85  | 1.39 |
| -4  | 5 | -2 | -0.43 | 1.44 |
| -4  | 5 | -2 | 1.20  | 0.88 |
| 4   | 5 | 2  | -1.18 | 1.12 |
| -5  | 5 | -2 | 5.45  | 1.85 |
| -5  | 5 | -2 | 6.72  | 1.52 |
| 5   | 5 | 2  | 5.39  | 1.70 |
| -6  | 5 | -2 | 51.69 | 3.57 |
| 6   | 5 | 2  | 45.62 | 3.77 |
| -6  | 5 | -2 | 48.06 | 3.52 |

|    |   |    |       |      |
|----|---|----|-------|------|
| 7  | 5 | 2  | 5.56  | 1.99 |
| -7 | 5 | -2 | 6.00  | 1.84 |
| -7 | 5 | -2 | 3.61  | 1.67 |
| 8  | 5 | 2  | 0.48  | 1.76 |
| -8 | 5 | -2 | 1.60  | 1.64 |
| -8 | 5 | -2 | 2.66  | 1.49 |
| -9 | 5 | -2 | -0.21 | 1.72 |
| 9  | 5 | 2  | 0.55  | 2.04 |
| 10 | 5 | 2  | -0.05 | 2.20 |
| 9  | 6 | -2 | 7.60  | 2.79 |
| -9 | 6 | 2  | 3.21  | 2.28 |
| 8  | 6 | -2 | 0.34  | 1.69 |
| -8 | 6 | 2  | -1.68 | 1.24 |
| -7 | 6 | 2  | 3.47  | 1.71 |
| 7  | 6 | -2 | 9.96  | 2.55 |
| -6 | 6 | 2  | 0.78  | 1.32 |
| 6  | 6 | -2 | 1.63  | 1.46 |
| -5 | 6 | 2  | 36.92 | 3.20 |
| 5  | 6 | -2 | 34.50 | 3.34 |
| -4 | 6 | 2  | 29.15 | 2.70 |
| 4  | 6 | -2 | 18.38 | 2.51 |
| -4 | 6 | 2  | 23.91 | 2.71 |
| -3 | 6 | 2  | -0.56 | 1.03 |
| 3  | 6 | -2 | 0.30  | 1.10 |
| -3 | 6 | 2  | 1.08  | 1.54 |
| -2 | 6 | 2  | 27.66 | 2.43 |
| 2  | 6 | -2 | 28.55 | 2.65 |
| -2 | 6 | 2  | 29.42 | 2.68 |
| 1  | 6 | -2 | 2.64  | 1.35 |
| -1 | 6 | 2  | 3.98  | 1.32 |
| -1 | 6 | 2  | 5.05  | 1.39 |
| 0  | 6 | -2 | 41.38 | 3.14 |
| 0  | 6 | -2 | 42.59 | 2.36 |
| 0  | 6 | 2  | 42.96 | 2.82 |
| 0  | 6 | 2  | 45.70 | 2.95 |
| 1  | 6 | 2  | 1.25  | 1.04 |
| -1 | 6 | -2 | 1.03  | 1.62 |
| 1  | 6 | 2  | 0.02  | 1.20 |
| -1 | 6 | -2 | 2.20  | 0.91 |
| 2  | 6 | 2  | 49.74 | 3.25 |
| -2 | 6 | -2 | 54.71 | 2.91 |
| 2  | 6 | 2  | 44.51 | 3.19 |
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| -3 | 6 | -2 | 34.23 | 3.44 |
| 3  | 6 | 2  | 35.51 | 2.93 |
| 3  | 6 | 2  | 26.16 | 2.65 |
| -3 | 6 | -2 | 30.33 | 2.36 |
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| -4 | 6 | -2 | 13.96 | 1.88 |
| 4  | 6 | 2  | 12.13 | 2.22 |
| 4  | 6 | 2  | 10.75 | 2.06 |
| 5  | 6 | 2  | 21.24 | 2.71 |
| -5 | 6 | -2 | 17.09 | 2.66 |
| 5  | 6 | 2  | 16.09 | 2.47 |
| -5 | 6 | -2 | 15.48 | 2.15 |
| 6  | 6 | 2  | 2.55  | 1.74 |
| -6 | 6 | -2 | 0.59  | 1.55 |
| -6 | 6 | -2 | -1.25 | 1.19 |
| -7 | 6 | -2 | 4.72  | 1.84 |
| 7  | 6 | 2  | 7.11  | 2.34 |

|    |   |    |        |      |
|----|---|----|--------|------|
| -7 | 6 | -2 | 7.38   | 2.12 |
| -8 | 6 | -2 | 0.49   | 1.76 |
| 8  | 6 | 2  | 0.12   | 1.96 |
| -8 | 6 | -2 | 0.48   | 1.47 |
| -9 | 6 | -2 | -0.83  | 1.92 |
| 9  | 6 | 2  | 0.06   | 2.39 |
| -9 | 7 | 2  | 1.76   | 2.14 |
| 8  | 7 | -2 | 0.44   | 1.96 |
| -8 | 7 | 2  | 0.10   | 1.94 |
| -7 | 7 | 2  | 4.28   | 1.89 |
| 7  | 7 | -2 | -1.08  | 1.59 |
| 6  | 7 | -2 | 2.87   | 1.86 |
| -6 | 7 | 2  | 2.28   | 1.61 |
| 5  | 7 | -2 | 2.07   | 1.81 |
| -5 | 7 | 2  | 4.34   | 1.81 |
| -4 | 7 | 2  | 16.84  | 2.37 |
| 4  | 7 | -2 | 11.79  | 2.35 |
| 3  | 7 | -2 | 12.43  | 2.34 |
| -3 | 7 | 2  | 13.40  | 2.12 |
| -3 | 7 | 2  | 17.19  | 2.73 |
| 2  | 7 | -2 | 91.72  | 4.91 |
| -2 | 7 | 2  | 88.11  | 4.53 |
| -2 | 7 | 2  | 79.11  | 4.68 |
| -1 | 7 | 2  | 1.86   | 1.55 |
| -1 | 7 | 2  | 0.12   | 1.25 |
| 1  | 7 | -2 | 2.91   | 1.70 |
| 0  | 7 | 2  | 113.60 | 5.29 |
| 0  | 7 | -2 | 117.02 | 5.68 |
| 0  | 7 | 2  | 119.56 | 5.17 |
| -1 | 7 | -2 | 36.83  | 3.53 |
| 1  | 7 | 2  | 34.66  | 2.91 |
| 1  | 7 | 2  | 31.84  | 2.96 |
| -2 | 7 | -2 | 17.13  | 2.82 |
| 2  | 7 | 2  | 13.75  | 2.18 |
| 2  | 7 | 2  | 14.90  | 2.32 |
| -3 | 7 | -2 | 0.52   | 1.73 |
| 3  | 7 | 2  | -0.27  | 1.29 |
| 3  | 7 | 2  | 0.29   | 1.50 |
| 4  | 7 | 2  | 0.73   | 1.72 |
| 4  | 7 | 2  | 0.32   | 1.34 |
| -4 | 7 | -2 | 0.00   | 2.02 |
| 5  | 7 | 2  | 0.90   | 1.65 |
| -5 | 7 | -2 | 0.18   | 1.85 |
| 5  | 7 | 2  | 0.73   | 1.79 |
| -6 | 7 | -2 | -1.62  | 1.39 |
| -6 | 7 | -2 | 0.25   | 1.52 |
| 6  | 7 | 2  | 0.73   | 1.63 |
| -7 | 7 | -2 | 1.19   | 1.69 |
| 7  | 7 | 2  | 1.09   | 2.01 |
| -7 | 7 | -2 | 0.78   | 1.74 |
| -8 | 7 | -2 | 0.32   | 2.03 |
| 8  | 7 | 2  | 7.25   | 2.51 |
| -8 | 8 | 2  | 0.67   | 2.20 |
| -7 | 8 | 2  | 3.35   | 2.02 |
| 7  | 8 | -2 | 10.11  | 3.10 |
| -6 | 8 | 2  | 10.54  | 2.56 |
| 6  | 8 | -2 | 11.02  | 2.93 |
| 5  | 8 | -2 | 0.09   | 1.63 |
| -5 | 8 | 2  | 0.99   | 1.65 |
| -4 | 8 | 2  | 4.64   | 1.87 |

|     |    |    |       |      |
|-----|----|----|-------|------|
| 4   | 8  | -2 | 6.93  | 2.19 |
| -3  | 8  | 2  | 20.30 | 2.63 |
| 3   | 8  | -2 | 18.99 | 2.98 |
| 2   | 8  | -2 | -0.21 | 1.56 |
| -2  | 8  | 2  | 0.01  | 1.20 |
| -2  | 8  | 2  | 1.77  | 1.89 |
| -1  | 8  | 2  | 9.33  | 1.98 |
| 1   | 8  | -2 | 11.85 | 2.57 |
| -1  | 8  | 2  | 3.88  | 1.87 |
| 0   | 8  | -2 | -0.16 | 1.68 |
| 0   | 8  | 2  | -0.09 | 1.35 |
| -1  | 8  | -2 | 0.82  | 1.99 |
| 1   | 8  | 2  | 0.74  | 1.62 |
| -2  | 8  | -2 | 3.40  | 2.21 |
| 2   | 8  | 2  | 7.99  | 2.09 |
| -3  | 8  | -2 | 2.25  | 2.36 |
| 3   | 8  | 2  | 1.20  | 1.58 |
| -4  | 8  | -2 | -1.80 | 1.97 |
| 4   | 8  | 2  | -0.40 | 1.52 |
| -5  | 8  | -2 | 5.72  | 2.47 |
| 5   | 8  | 2  | 0.81  | 1.76 |
| -6  | 8  | -2 | 4.11  | 2.53 |
| 6   | 8  | 2  | 6.47  | 2.55 |
| 7   | 8  | 2  | 7.73  | 3.06 |
| 6   | 9  | -2 | -0.85 | 1.96 |
| 5   | 9  | -2 | 0.06  | 2.03 |
| 4   | 9  | -2 | -0.98 | 2.08 |
| 3   | 9  | -2 | 1.83  | 2.13 |
| 2   | 9  | -2 | 2.89  | 2.15 |
| 1   | 9  | -2 | 0.27  | 1.85 |
| -1  | 9  | 2  | 2.36  | 2.19 |
| 0   | 9  | 2  | 40.01 | 3.94 |
| 0   | 9  | -2 | 46.69 | 4.54 |
| 1   | 9  | 2  | 13.20 | 2.71 |
| -1  | 9  | -2 | 8.54  | 2.81 |
| 2   | 9  | 2  | 8.96  | 2.72 |
| -2  | 9  | -2 | 2.78  | 2.80 |
| -3  | 9  | -2 | -0.65 | 2.34 |
| 3   | 9  | 2  | 1.15  | 1.75 |
| 4   | 9  | 2  | 3.28  | 2.41 |
| -4  | 9  | -2 | 3.44  | 2.85 |
| 5   | 9  | 2  | -0.73 | 2.24 |
| 3   | 10 | -2 | 0.59  | 2.20 |
| 2   | 10 | -2 | -1.16 | 2.36 |
| 1   | 10 | -2 | 12.14 | 3.19 |
| 0   | 10 | 2  | 1.72  | 2.45 |
| 0   | 10 | -2 | -0.51 | 2.57 |
| 1   | 10 | 2  | -3.74 | 2.02 |
| -1  | 10 | -2 | -3.74 | 2.35 |
| -2  | 10 | -2 | -0.56 | 2.99 |
| 2   | 10 | 2  | -0.30 | 2.15 |
| 3   | 10 | 2  | -0.60 | 2.59 |
| -3  | 10 | -2 | -2.08 | 2.86 |
| -11 | 0  | 3  | -0.13 | 1.93 |
| -10 | 0  | 3  | -0.24 | 1.45 |
| -9  | 0  | 3  | 15.17 | 2.49 |
| -8  | 0  | 3  | 0.23  | 1.22 |
| -7  | 0  | 3  | 67.33 | 3.73 |
| -7  | 0  | 3  | 70.43 | 3.33 |
| -6  | 0  | 3  | -0.13 | 0.72 |

|     |    |    |         |       |
|-----|----|----|---------|-------|
| 6   | 0  | -3 | 0.12    | 0.64  |
| -6  | 0  | 3  | 0.43    | 0.65  |
| -5  | 0  | 3  | 567.86  | 13.98 |
| -5  | 0  | 3  | 567.76  | 14.95 |
| 5   | 0  | -3 | 573.35  | 14.07 |
| 4   | 0  | -3 | 0.85    | 0.54  |
| -4  | 0  | 3  | 0.26    | 0.49  |
| -4  | 0  | 3  | 0.24    | 0.58  |
| 3   | 0  | -3 | 1686.67 | 38.18 |
| -3  | 0  | 3  | 1684.00 | 39.31 |
| 2   | 0  | -3 | 0.70    | 0.64  |
| -2  | 0  | 3  | 2.17    | 0.71  |
| 1   | 0  | -3 | 663.96  | 14.26 |
| -1  | 0  | 3  | 667.27  | 14.91 |
| 1   | 0  | -3 | 554.76  | 14.60 |
| 0   | 0  | -3 | 0.23    | 0.34  |
| 0   | 0  | -3 | -0.12   | 0.33  |
| 0   | 0  | 3  | 0.60    | 0.34  |
| 1   | 0  | 3  | 0.62    | 0.40  |
| -1  | 0  | -3 | 1.03    | 0.55  |
| -1  | 0  | -3 | 0.75    | 0.53  |
| -2  | 0  | -3 | -0.19   | 0.47  |
| -2  | 0  | -3 | -0.38   | 0.41  |
| 2   | 0  | 3  | 0.40    | 0.44  |
| 3   | 0  | 3  | 12.91   | 1.25  |
| 4   | 0  | 3  | -0.16   | 0.59  |
| -4  | 0  | -3 | 0.82    | 0.69  |
| 5   | 0  | 3  | 79.00   | 3.74  |
| -5  | 0  | -3 | 74.92   | 3.51  |
| -6  | 0  | -3 | 0.23    | 0.80  |
| 6   | 0  | 3  | -0.95   | 0.73  |
| 7   | 0  | 3  | 18.07   | 2.19  |
| -8  | 0  | -3 | 0.84    | 1.22  |
| 8   | 0  | 3  | 0.19    | 0.96  |
| 9   | 0  | 3  | 0.03    | 1.35  |
| -9  | 0  | -3 | -0.14   | 1.01  |
| -10 | 0  | -3 | 0.40    | 1.48  |
| 10  | 0  | 3  | 1.83    | 1.73  |
| -11 | 0  | -3 | 1.64    | 2.07  |
| 11  | 1  | -3 | 12.76   | 3.07  |
| -11 | 1  | 3  | 15.22   | 3.10  |
| -10 | -1 | 3  | 1.57    | 1.81  |
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| -9  | -1 | 3  | 10.00   | 2.23  |
| -9  | 1  | 3  | 9.16    | 2.19  |
| -8  | 1  | 3  | 7.66    | 1.82  |
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| -8  | 1  | 3  | 7.40    | 1.48  |
| -7  | -1 | 3  | 2.28    | 1.26  |
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| -7  | 1  | 3  | 4.21    | 1.38  |
| 6   | -1 | -3 | 45.78   | 2.23  |
| -6  | 1  | 3  | 45.70   | 2.35  |
| -6  | 1  | 3  | 42.62   | 2.79  |
| -6  | -1 | 3  | 47.49   | 2.82  |
| 5   | -1 | -3 | 116.64  | 3.75  |
| -5  | -1 | 3  | 114.99  | 4.31  |
| -5  | 1  | 3  | 110.72  | 4.42  |
| -5  | 1  | 3  | 111.99  | 3.77  |
| 4   | -1 | -3 | 375.34  | 9.47  |

|     |    |    |         |       |
|-----|----|----|---------|-------|
| -4  | -1 | 3  | 377.13  | 10.01 |
| -4  | 1  | 3  | 374.47  | 9.21  |
| -4  | 1  | 3  | 372.28  | 10.25 |
| -3  | -1 | 3  | 315.52  | 8.27  |
| -3  | 1  | 3  | 311.65  | 8.59  |
| -3  | 1  | 3  | 319.33  | 7.61  |
| 3   | -1 | -3 | 324.86  | 8.12  |
| -2  | -1 | 3  | 456.40  | 10.65 |
| 2   | -1 | -3 | 431.83  | 10.70 |
| 2   | 1  | -3 | 438.33  | 10.47 |
| -2  | 1  | 3  | 443.67  | 10.01 |
| -2  | 1  | 3  | 427.38  | 11.09 |
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| 1   | -1 | -3 | 670.63  | 15.82 |
| 1   | 1  | -3 | 678.01  | 15.54 |
| 0   | 1  | 3  | 1491.82 | 34.94 |
| 0   | -1 | -3 | 1515.28 | 33.98 |
| 0   | -1 | 3  | 1537.72 | 34.60 |
| 0   | -1 | -3 | 1480.23 | 33.30 |
| 0   | 1  | -3 | 1478.05 | 33.71 |
| -1  | -1 | -3 | 2064.93 | 45.95 |
| -1  | 1  | -3 | 2071.67 | 45.70 |
| 1   | -1 | 3  | 2046.80 | 47.04 |
| -1  | -1 | -3 | 2009.54 | 45.47 |
| -1  | 1  | -3 | 2041.96 | 45.86 |
| -2  | -1 | -3 | 58.57   | 2.26  |
| -2  | -1 | -3 | 55.88   | 2.13  |
| -2  | 1  | -3 | 47.76   | 2.11  |
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| 4   | 1  | 3  | 60.03   | 3.04  |
| -4  | 1  | -3 | 59.17   | 2.97  |
| -4  | 1  | -3 | 69.94   | 3.11  |
| 5   | 1  | 3  | 77.76   | 3.78  |
| -5  | 1  | -3 | 72.28   | 3.49  |
| -5  | -1 | -3 | 77.50   | 3.51  |
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| 6   | 1  | 3  | -0.14   | 0.82  |
| -6  | 1  | -3 | 0.82    | 1.08  |
| -6  | 1  | -3 | 0.10    | 0.87  |
| -7  | 1  | -3 | 76.44   | 4.47  |
| -7  | 1  | -3 | 79.64   | 4.08  |
| -7  | -1 | -3 | 71.24   | 3.99  |
| 7   | 1  | 3  | 82.94   | 4.51  |
| 8   | 1  | 3  | 49.49   | 3.80  |
| 8   | -1 | 3  | 73.86   | 4.45  |
| -8  | 1  | -3 | 55.10   | 4.09  |
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| -9  | 1  | -3 | 9.39    | 2.13  |
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| 9   | 1  | 3  | 10.37   | 2.32  |
| 9   | -1 | 3  | 10.43   | 2.37  |
| 10  | -1 | 3  | 4.10    | 1.86  |
| -10 | -1 | -3 | 2.40    | 1.69  |
| -10 | 1  | -3 | 3.99    | 1.74  |

|     |    |    |         |       |
|-----|----|----|---------|-------|
| 10  | 1  | 3  | 2.41    | 1.86  |
| -11 | 1  | -3 | -0.57   | 1.75  |
| -11 | 2  | 3  | -1.81   | 1.69  |
| 11  | 2  | -3 | -0.59   | 2.02  |
| -10 | 2  | 3  | 2.91    | 1.94  |
| 10  | 2  | -3 | 5.06    | 2.18  |
| 9   | 2  | -3 | 4.64    | 1.85  |
| -9  | 2  | 3  | -0.47   | 1.10  |
| -8  | -2 | 3  | 2.69    | 1.52  |
| -8  | 2  | 3  | 1.38    | 1.37  |
| 8   | 2  | -3 | 2.02    | 1.41  |
| -7  | 2  | 3  | 57.76   | 2.94  |
| -7  | 2  | 3  | 58.28   | 3.61  |
| -7  | -2 | 3  | 55.26   | 3.46  |
| -6  | 2  | 3  | 7.33    | 1.12  |
| -6  | -2 | 3  | 5.86    | 1.27  |
| -6  | 2  | 3  | 5.08    | 1.35  |
| -5  | -2 | 3  | 10.34   | 1.28  |
| 5   | -2 | -3 | 11.44   | 1.20  |
| -5  | 2  | 3  | 11.26   | 1.12  |
| -4  | 2  | 3  | 141.14  | 4.13  |
| -4  | -2 | 3  | 136.45  | 4.45  |
| 4   | -2 | -3 | 138.82  | 4.30  |
| -3  | 2  | 3  | 71.32   | 3.09  |
| -3  | -2 | 3  | 77.54   | 2.61  |
| 3   | -2 | -3 | 73.38   | 2.75  |
| 3   | 2  | -3 | 71.83   | 2.84  |
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| 2   | 2  | -3 | 33.75   | 1.70  |
| 2   | 2  | -3 | 28.83   | 1.21  |
| 2   | -2 | -3 | 32.95   | 1.74  |
| -2  | 2  | 3  | 32.87   | 1.41  |
| -2  | 2  | 3  | 31.08   | 1.84  |
| -1  | 2  | 3  | 135.01  | 3.53  |
| 1   | 2  | -3 | 129.86  | 4.10  |
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| 1   | -2 | -3 | 129.10  | 4.10  |
| 0   | 2  | -3 | 241.24  | 6.75  |
| 0   | 2  | 3  | 249.45  | 6.93  |
| 0   | 2  | -3 | 244.93  | 5.92  |
| 1   | 2  | 3  | 3166.50 | 74.06 |
| -1  | 2  | -3 | 3214.95 | 73.39 |
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| 2   | 2  | 3  | 260.69  | 7.47  |
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| 3   | 2  | 3  | 12.76   | 1.39  |
| -3  | 2  | -3 | 10.22   | 1.18  |
| -3  | -2 | -3 | 10.09   | 1.20  |
| -3  | 2  | -3 | 10.79   | 1.42  |
| 4   | 2  | 3  | 21.40   | 1.92  |
| -4  | 2  | -3 | 15.24   | 1.68  |
| -4  | -2 | -3 | 17.00   | 1.61  |
| -4  | 2  | -3 | 18.83   | 1.67  |
| -5  | -2 | -3 | 0.07    | 0.47  |
| -5  | 2  | -3 | -0.23   | 0.74  |
| -5  | 2  | -3 | -0.08   | 0.82  |
| 5   | 2  | 3  | 0.84    | 1.00  |
| -6  | 2  | -3 | 14.08   | 1.86  |

|     |    |    |        |       |
|-----|----|----|--------|-------|
| -6  | 2  | -3 | 11.55  | 1.85  |
| 6   | 2  | 3  | 15.52  | 2.05  |
| -6  | -2 | -3 | 17.52  | 1.96  |
| 7   | 2  | 3  | 52.15  | 3.64  |
| -7  | 2  | -3 | 45.16  | 3.16  |
| -7  | 2  | -3 | 50.36  | 3.59  |
| -7  | -2 | -3 | 54.28  | 3.44  |
| 8   | 2  | 3  | 0.30   | 1.28  |
| -8  | 2  | -3 | 1.63   | 1.23  |
| -8  | 2  | -3 | 1.11   | 1.34  |
| -9  | 2  | -3 | 6.64   | 1.90  |
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| 9   | 2  | 3  | 6.34   | 2.01  |
| 10  | 2  | 3  | 4.41   | 2.09  |
| -10 | 2  | -3 | 2.07   | 1.63  |
| 10  | -2 | 3  | 2.57   | 1.89  |
| -11 | 2  | -3 | 1.46   | 2.02  |
| -11 | 3  | 3  | 0.98   | 1.94  |
| 11  | 3  | -3 | 2.29   | 2.53  |
| -10 | 3  | 3  | 24.41  | 3.31  |
| 10  | 3  | -3 | 27.57  | 3.50  |
| -9  | 3  | 3  | 12.25  | 2.55  |
| 9   | 3  | -3 | 14.33  | 2.52  |
| 8   | 3  | -3 | 2.81   | 1.54  |
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| 7   | 3  | -3 | 15.64  | 2.05  |
| -7  | 3  | 3  | 10.09  | 1.92  |
| -6  | 3  | 3  | 167.51 | 6.54  |
| 6   | 3  | -3 | 171.29 | 6.12  |
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| 5   | 3  | -3 | 0.02   | 0.63  |
| 5   | -3 | -3 | 1.52   | 0.85  |
| -4  | 3  | 3  | 28.83  | 2.12  |
| 4   | 3  | -3 | 28.87  | 2.02  |
| 4   | -3 | -3 | 25.13  | 1.79  |
| -4  | 3  | 3  | 29.67  | 1.80  |
| 4   | 3  | -3 | 29.24  | 1.80  |
| 3   | -3 | -3 | 14.17  | 1.27  |
| -3  | 3  | 3  | 11.39  | 1.43  |
| 3   | 3  | -3 | 13.41  | 1.38  |
| -3  | 3  | 3  | 11.58  | 1.22  |
| 3   | 3  | -3 | 11.89  | 1.01  |
| 2   | -3 | -3 | 195.86 | 5.76  |
| 2   | 3  | -3 | 197.80 | 5.16  |
| -2  | 3  | 3  | 197.31 | 5.45  |
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| 2   | 3  | -3 | 194.30 | 5.92  |
| 1   | 3  | -3 | 629.23 | 15.72 |
| 1   | -3 | -3 | 633.97 | 15.61 |
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| 0   | 3  | -3 | 96.35  | 2.72  |
| 0   | 3  | 3  | 96.91  | 3.17  |
| 0   | -3 | -3 | 95.80  | 3.51  |
| 0   | 3  | 3  | 92.63  | 3.63  |
| -1  | 3  | -3 | 3.34   | 1.04  |
| 1   | 3  | 3  | -0.21  | 0.74  |

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| -1  | -3 | -3 | 1.07   | 0.70  |
| -1  | 3  | -3 | 1.05   | 0.45  |
| 2   | 3  | 3  | 43.74  | 2.52  |
| -2  | 3  | -3 | 50.45  | 2.20  |
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| 3   | 3  | 3  | 365.99 | 10.55 |
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| -4  | 3  | -3 | 30.62  | 2.39  |
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| 4   | 3  | 3  | 28.58  | 2.26  |
| -5  | 3  | -3 | 0.74   | 0.85  |
| 5   | 3  | 3  | 0.13   | 0.98  |
| -5  | 3  | -3 | -0.49  | 1.01  |
| 6   | 3  | 3  | 10.99  | 1.95  |
| -6  | 3  | -3 | 9.81   | 1.76  |
| -6  | 3  | -3 | 11.15  | 1.82  |
| -7  | 3  | -3 | 20.44  | 2.34  |
| -7  | 3  | -3 | 19.26  | 2.47  |
| 7   | 3  | 3  | 19.16  | 2.50  |
| -8  | 3  | -3 | 1.36   | 1.33  |
| -8  | 3  | -3 | 3.27   | 1.66  |
| 8   | 3  | 3  | 0.68   | 1.39  |
| -9  | 3  | -3 | 1.86   | 1.56  |
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| 9   | 3  | 3  | 2.14   | 1.76  |
| -10 | 3  | -3 | 0.63   | 1.57  |
| 10  | 3  | 3  | 1.33   | 1.92  |
| -10 | 3  | -3 | -1.29  | 1.71  |
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| 8   | 4  | -3 | 16.09  | 2.42  |
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| -7  | 4  | 3  | 128.25 | 6.05  |
| 7   | 4  | -3 | 135.33 | 5.69  |
| -6  | 4  | 3  | 27.47  | 2.63  |
| 6   | 4  | -3 | 24.23  | 2.18  |
| -5  | 4  | 3  | -0.65  | 0.89  |
| 5   | 4  | -3 | -0.55  | 0.75  |
| 5   | -4 | -3 | 0.94   | 0.94  |
| 5   | 4  | -3 | 0.54   | 0.88  |
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| 4   | 4  | -3 | 114.55 | 4.16  |
| 4   | 4  | -3 | 115.06 | 4.73  |
| -4  | 4  | 3  | 119.77 | 4.35  |
| 4   | -4 | -3 | 111.78 | 4.08  |
| -3  | 4  | 3  | 219.72 | 6.57  |
| -3  | 4  | 3  | 224.83 | 7.27  |
| 3   | -4 | -3 | 219.23 | 6.54  |
| 3   | 4  | -3 | 223.32 | 7.08  |
| 3   | 4  | -3 | 218.79 | 6.27  |
| 2   | 4  | -3 | 79.41  | 3.53  |
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| 2   | -4 | -3 | 77.48  | 3.29  |
| -2  | 4  | 3  | 82.22  | 3.24  |
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| 1   | -4 | -3 | 43.88  | 2.42  |

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| -1  | 4  | 3  | 41.39  | 2.17  |
| 1   | 4  | -3 | 46.70  | 1.76  |
| 0   | 4  | -3 | 813.17 | 19.12 |
| 0   | 4  | 3  | 809.38 | 20.42 |
| 0   | -4 | -3 | 807.15 | 19.80 |
| 0   | 4  | -3 | 791.21 | 20.01 |
| 0   | 4  | 3  | 817.35 | 19.34 |
| 1   | 4  | 3  | 11.17  | 1.24  |
| 1   | 4  | 3  | 13.40  | 1.60  |
| -1  | 4  | -3 | 11.93  | 1.05  |
| -1  | 4  | -3 | 13.40  | 1.84  |
| 2   | 4  | 3  | 64.58  | 3.36  |
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| 3   | 4  | 3  | 206.55 | 7.07  |
| 4   | 4  | 3  | 13.59  | 1.88  |
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| 5   | 4  | 3  | 21.81  | 2.45  |
| -5  | 4  | -3 | 18.35  | 2.32  |
| -5  | 4  | -3 | 25.05  | 2.31  |
| -6  | 4  | -3 | 0.66   | 1.22  |
| -6  | 4  | -3 | 1.41   | 1.19  |
| 6   | 4  | 3  | 1.13   | 1.21  |
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| 7   | 4  | 3  | 18.88  | 2.72  |
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| 9   | 4  | 3  | 2.04   | 2.02  |
| -9  | 4  | -3 | 2.08   | 1.71  |
| -10 | 4  | -3 | 4.33   | 2.00  |
| -10 | 4  | -3 | 4.76   | 2.41  |
| 10  | 4  | 3  | 2.53   | 2.36  |
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| 8   | 5  | -3 | 6.92   | 2.20  |
| 7   | 5  | -3 | 20.36  | 2.82  |
| -7  | 5  | 3  | 17.36  | 2.56  |
| 6   | 5  | -3 | 2.10   | 1.37  |
| -6  | 5  | 3  | 5.14   | 1.71  |
| 5   | 5  | -3 | 10.17  | 1.89  |
| -5  | 5  | 3  | 6.83   | 1.66  |
| 4   | -5 | -3 | 1.78   | 0.99  |
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| -4  | 5  | 3  | 1.95   | 1.40  |
| 4   | 5  | -3 | 1.91   | 1.13  |
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| -3  | 5  | 3  | 7.24   | 1.49  |
| 3   | 5  | -3 | 5.73   | 1.40  |
| 3   | -5 | -3 | 6.28   | 1.24  |
| 2   | -5 | -3 | 3.78   | 1.13  |
| 2   | 5  | -3 | 0.44   | 0.75  |

|    |   |    |        |      |
|----|---|----|--------|------|
| -2 | 5 | 3  | 3.11   | 1.16 |
| -2 | 5 | 3  | 0.97   | 0.98 |
| 2  | 5 | -3 | 0.72   | 0.79 |
| 1  | 5 | -3 | 2.60   | 0.74 |
| -1 | 5 | 3  | 1.74   | 1.01 |
| 1  | 5 | -3 | 1.87   | 1.04 |
| -1 | 5 | 3  | 1.82   | 0.94 |
| 0  | 5 | 3  | -0.13  | 0.77 |
| 0  | 5 | -3 | 1.15   | 1.22 |
| 0  | 5 | 3  | 0.46   | 1.03 |
| 0  | 5 | -3 | 1.45   | 0.65 |
| -1 | 5 | -3 | 109.69 | 3.81 |
| -1 | 5 | -3 | 110.67 | 4.99 |
| 1  | 5 | 3  | 109.03 | 4.72 |
| 1  | 5 | 3  | 111.49 | 4.36 |
| -2 | 5 | -3 | 5.69   | 0.99 |
| 2  | 5 | 3  | 7.04   | 1.57 |
| -2 | 5 | -3 | 6.28   | 1.97 |
| 2  | 5 | 3  | 2.74   | 0.96 |
| 3  | 5 | 3  | 3.44   | 1.43 |
| -3 | 5 | -3 | 6.91   | 1.18 |
| -3 | 5 | -3 | 5.70   | 1.90 |
| 4  | 5 | 3  | 0.18   | 1.33 |
| -4 | 5 | -3 | 1.39   | 0.92 |
| -4 | 5 | -3 | 1.10   | 1.47 |
| -5 | 5 | -3 | 111.15 | 5.28 |
| -5 | 5 | -3 | 106.86 | 4.90 |
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| 7  | 5 | 3  | 0.37   | 1.53 |
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| 8  | 5 | 3  | 0.25   | 1.73 |
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| 9  | 5 | 3  | 3.59   | 2.50 |
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| -3 | 6 | 3  | -0.43  | 1.05 |
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| 2  | 6 | -3 | 84.03  | 4.42 |
| -2 | 6 | 3  | 81.77  | 4.10 |
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| -1 | 6 | 3  | 79.71  | 4.03 |
| -1 | 6 | 3  | 83.52  | 3.95 |

|    |   |    |        |      |
|----|---|----|--------|------|
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| 0  | 6 | 3  | 11.58  | 1.75 |
| 0  | 6 | 3  | 9.48   | 1.73 |
| 0  | 6 | -3 | 10.58  | 2.02 |
| -1 | 6 | -3 | 257.68 | 9.26 |
| 1  | 6 | 3  | 267.29 | 8.91 |
| 1  | 6 | 3  | 280.21 | 8.61 |
| 2  | 6 | 3  | 71.24  | 3.91 |
| 2  | 6 | 3  | 71.74  | 4.08 |
| -2 | 6 | -3 | 75.08  | 4.66 |
| -3 | 6 | -3 | 2.36   | 1.85 |
| 3  | 6 | 3  | 0.02   | 1.04 |
| 3  | 6 | 3  | -0.50  | 1.41 |
| -3 | 6 | -3 | 0.41   | 0.84 |
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| 7  | 6 | 3  | 4.65   | 2.20 |
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| -8 | 6 | -3 | 1.12   | 1.61 |
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| 7  | 7 | -3 | 12.75  | 2.86 |
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| 6  | 7 | -3 | 8.02   | 2.43 |
| -6 | 7 | 3  | 5.92   | 2.11 |
| -5 | 7 | 3  | 40.25  | 3.56 |
| 5  | 7 | -3 | 39.53  | 3.76 |
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| -4 | 7 | 3  | 4.27   | 1.69 |
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| -2 | 7 | 3  | 38.28  | 3.30 |
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| 1  | 7 | -3 | 9.34   | 2.18 |
| 0  | 7 | -3 | 23.78  | 2.95 |
| 0  | 7 | 3  | 24.83  | 2.56 |
| 0  | 7 | 3  | 22.89  | 2.49 |
| 1  | 7 | 3  | 38.56  | 3.02 |
| -1 | 7 | -3 | 42.30  | 3.80 |
| 1  | 7 | 3  | 40.60  | 3.26 |
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| 2  | 7 | 3  | 4.25   | 1.67 |
| 2  | 7 | 3  | 6.26   | 1.92 |

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|----|---|----|-------|------|
| -3 | 7 | -3 | 34.62 | 3.84 |
| 3  | 7 | 3  | 32.79 | 3.08 |
| 3  | 7 | 3  | 33.91 | 3.20 |
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| 4  | 7 | 3  | 3.17  | 1.66 |
| 4  | 7 | 3  | 2.55  | 1.89 |
| 5  | 7 | 3  | 8.56  | 2.17 |
| -5 | 7 | -3 | 12.54 | 2.76 |
| 5  | 7 | 3  | 7.65  | 2.39 |
| 6  | 7 | 3  | 1.80  | 1.82 |
| 6  | 7 | 3  | 3.20  | 2.36 |
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| 7  | 7 | 3  | 4.53  | 2.22 |
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| 7  | 7 | 3  | 0.42  | 2.36 |
| -8 | 8 | 3  | 1.53  | 2.27 |
| -7 | 8 | 3  | 0.04  | 1.91 |
| 7  | 8 | -3 | 1.64  | 2.01 |
| 6  | 8 | -3 | 12.62 | 3.00 |
| -6 | 8 | 3  | 6.79  | 2.38 |
| -5 | 8 | 3  | 18.03 | 2.78 |
| 5  | 8 | -3 | 12.94 | 2.95 |
| 4  | 8 | -3 | 6.03  | 2.24 |
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| -2 | 8 | 3  | 0.08  | 1.40 |
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| 1  | 8 | -3 | -2.46 | 1.47 |
| -1 | 8 | 3  | -1.34 | 1.49 |
| 0  | 8 | 3  | 11.48 | 2.18 |
| 0  | 8 | 3  | 16.71 | 2.44 |
| 0  | 8 | -3 | 4.47  | 2.38 |
| 1  | 8 | 3  | 44.30 | 3.55 |
| 1  | 8 | 3  | 39.70 | 3.60 |
| -1 | 8 | -3 | 39.35 | 4.02 |
| 2  | 8 | 3  | 13.71 | 2.49 |
| 2  | 8 | 3  | 6.28  | 2.05 |
| -2 | 8 | -3 | 8.14  | 2.91 |
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| -3 | 8 | -3 | 6.14  | 2.73 |
| -4 | 8 | -3 | 11.90 | 3.19 |
| 4  | 8 | 3  | 6.83  | 2.37 |
| 5  | 8 | 3  | 4.29  | 2.30 |
| -5 | 8 | -3 | 0.37  | 2.07 |
| 6  | 8 | 3  | -1.77 | 1.68 |
| -6 | 8 | -3 | 1.04  | 2.08 |
| -7 | 9 | 3  | 4.57  | 2.64 |
| 6  | 9 | -3 | -1.04 | 1.97 |
| -6 | 9 | 3  | 0.97  | 2.23 |
| 5  | 9 | -3 | -3.67 | 1.72 |
| 4  | 9 | -3 | -0.33 | 1.97 |
| 3  | 9 | -3 | 2.07  | 2.05 |
| 2  | 9 | -3 | 1.03  | 2.03 |
| 1  | 9 | -3 | 11.99 | 3.03 |
| 0  | 9 | 3  | 1.92  | 2.20 |
| 0  | 9 | -3 | 4.65  | 2.65 |
| 1  | 9 | 3  | -1.34 | 1.76 |
| -1 | 9 | -3 | -0.17 | 2.13 |

|     |    |    |         |        |
|-----|----|----|---------|--------|
| 2   | 9  | 3  | -0.70   | 1.82   |
| -2  | 9  | -3 | 2.63    | 2.62   |
| 3   | 9  | 3  | 0.66    | 1.76   |
| -3  | 9  | -3 | -0.69   | 2.35   |
| -4  | 9  | -3 | -1.38   | 2.44   |
| 4   | 9  | 3  | -3.56   | 1.87   |
| -5  | 9  | -3 | 3.04    | 2.97   |
| 5   | 9  | 3  | 2.01    | 2.51   |
| 3   | 10 | -3 | 1.50    | 2.43   |
| 2   | 10 | -3 | 1.29    | 2.67   |
| 1   | 10 | -3 | 1.96    | 2.59   |
| 0   | 10 | -3 | 1.08    | 2.62   |
| -1  | 10 | -3 | -2.24   | 2.38   |
| 1   | 10 | 3  | -0.94   | 2.09   |
| -2  | 10 | -3 | 12.62   | 3.95   |
| 2   | 10 | 3  | 9.34    | 3.11   |
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| 3   | 10 | 3  | 2.22    | 2.71   |
| -4  | 10 | -3 | 4.88    | 3.77   |
| -11 | 0  | 4  | 1.03    | 1.94   |
| -10 | 0  | 4  | 1.52    | 1.65   |
| -9  | 0  | 4  | -1.66   | 1.16   |
| -8  | 0  | 4  | 14.29   | 2.18   |
| 7   | 0  | -4 | -0.97   | 0.78   |
| -7  | 0  | 4  | 0.50    | 0.93   |
| -6  | 0  | 4  | 65.04   | 3.33   |
| 6   | 0  | -4 | 61.43   | 2.86   |
| 5   | 0  | -4 | 1.05    | 0.64   |
| -5  | 0  | 4  | -0.15   | 0.55   |
| -4  | 0  | 4  | 46.16   | 2.28   |
| 4   | 0  | -4 | 47.17   | 2.21   |
| 3   | 0  | -4 | 2.97    | 0.72   |
| -3  | 0  | 4  | 3.85    | 0.75   |
| -2  | 0  | 4  | 6177.06 | 141.34 |
| 2   | 0  | -4 | 6209.91 | 137.00 |
| 2   | 0  | -4 | 6261.74 | 137.72 |
| -1  | 0  | 4  | 1.31    | 0.58   |
| 1   | 0  | -4 | 1.85    | 0.52   |
| 0   | 0  | 4  | 1133.84 | 26.48  |
| 0   | 0  | -4 | 1132.23 | 25.46  |
| 0   | 0  | -4 | 1124.31 | 25.85  |
| -1  | 0  | -4 | 0.39    | 0.58   |
| 1   | 0  | 4  | 0.53    | 0.46   |
| -1  | 0  | -4 | 0.51    | 0.57   |
| 2   | 0  | 4  | 328.44  | 8.62   |
| -2  | 0  | -4 | 305.48  | 8.32   |
| -2  | 0  | -4 | 320.84  | 7.88   |
| 3   | 0  | 4  | 0.23    | 0.52   |
| -3  | 0  | -4 | 0.42    | 0.51   |
| -3  | 0  | -4 | -0.34   | 0.49   |
| 4   | 0  | 4  | 254.14  | 7.85   |
| -5  | 0  | -4 | 0.03    | 0.65   |
| 5   | 0  | 4  | 0.48    | 0.79   |
| -6  | 0  | -4 | 140.64  | 5.53   |
| 6   | 0  | 4  | 140.22  | 5.83   |
| 7   | 0  | 4  | 0.49    | 1.17   |
| -7  | 0  | -4 | -0.05   | 0.99   |
| -8  | 0  | -4 | 26.24   | 2.76   |
| 8   | 0  | 4  | 24.78   | 2.88   |
| -9  | 0  | -4 | 0.35    | 1.28   |

|     |    |    |         |       |
|-----|----|----|---------|-------|
| 9   | 0  | 4  | 1.42    | 1.59  |
| 10  | 0  | 4  | -1.56   | 1.29  |
| -10 | 0  | -4 | 0.68    | 1.64  |
| -11 | 1  | 4  | 0.29    | 2.07  |
| -11 | -1 | 4  | -2.28   | 2.09  |
| -10 | 1  | 4  | 3.94    | 1.93  |
| -10 | -1 | 4  | 8.92    | 2.39  |
| -9  | 1  | 4  | -0.18   | 1.24  |
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| -8  | 1  | 4  | -0.36   | 1.05  |
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| -7  | -1 | 4  | 34.82   | 2.69  |
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| -7  | 1  | 4  | 34.42   | 2.21  |
| -6  | 1  | 4  | 55.36   | 3.15  |
| -6  | 1  | 4  | 58.20   | 2.65  |
| 6   | -1 | -4 | 57.33   | 2.67  |
| -6  | -1 | 4  | 55.22   | 3.04  |
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| 5   | -1 | -4 | -0.11   | 0.59  |
| -5  | -1 | 4  | 0.53    | 0.65  |
| -5  | 1  | 4  | 1.15    | 0.72  |
| -4  | 1  | 4  | 1286.15 | 30.89 |
| -4  | -1 | 4  | 1281.00 | 30.47 |
| 4   | -1 | -4 | 1262.05 | 29.64 |
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| 3   | 1  | -4 | 456.09  | 11.40 |
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| 2   | 1  | -4 | 147.93  | 4.13  |
| 2   | -1 | -4 | 144.37  | 4.45  |
| -2  | -1 | 4  | 151.25  | 4.03  |
| -1  | -1 | 4  | 1740.56 | 39.87 |
| -1  | 1  | 4  | 1745.07 | 40.40 |
| 1   | 1  | -4 | 1710.83 | 38.79 |
| 1   | -1 | -4 | 1743.83 | 39.37 |
| 0   | -1 | 4  | 57.87   | 1.84  |
| 0   | -1 | -4 | 53.91   | 1.78  |
| 0   | -1 | -4 | 52.09   | 2.27  |
| 0   | 1  | -4 | 53.99   | 2.34  |
| 0   | 1  | -4 | 53.79   | 2.04  |
| 0   | 1  | 4  | 50.52   | 2.30  |
| 1   | -1 | 4  | 157.93  | 4.48  |
| -1  | 1  | -4 | 160.38  | 4.34  |
| -1  | 1  | -4 | 152.95  | 4.80  |
| -1  | -1 | -4 | 160.33  | 4.43  |
| -1  | -1 | -4 | 162.22  | 4.67  |
| 1   | 1  | 4  | 165.02  | 4.94  |
| 2   | -1 | 4  | 133.65  | 4.20  |
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| -2  | 1  | -4 | 132.38  | 3.61  |
| 2   | 1  | 4  | 133.61  | 4.47  |
| -2  | -1 | -4 | 128.60  | 4.01  |
| -2  | -1 | -4 | 132.85  | 4.12  |
| -3  | -1 | -4 | 62.86   | 2.75  |
| -3  | -1 | -4 | 62.48   | 2.46  |
| 3   | 1  | 4  | 60.43   | 2.86  |

|     |    |    |        |      |
|-----|----|----|--------|------|
| 3   | -1 | 4  | 61.61  | 2.75 |
| -3  | 1  | -4 | 59.26  | 1.93 |
| -4  | 1  | -4 | 52.02  | 2.78 |
| -4  | 1  | -4 | 51.52  | 2.71 |
| 4   | -1 | 4  | 49.72  | 2.70 |
| -4  | -1 | -4 | 44.44  | 2.52 |
| 5   | -1 | 4  | 28.77  | 2.29 |
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| -5  | 1  | -4 | 37.75  | 2.53 |
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| -6  | -1 | -4 | 25.63  | 2.33 |
| 6   | 1  | 4  | 28.93  | 2.64 |
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| 7   | -1 | 4  | 43.87  | 3.26 |
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| 7   | 1  | 4  | 36.76  | 3.26 |
| 8   | -1 | 4  | 60.38  | 4.06 |
| 8   | 1  | 4  | 59.02  | 4.28 |
| -8  | 1  | -4 | 57.02  | 3.82 |
| -8  | -1 | -4 | 58.49  | 3.87 |
| 9   | -1 | 4  | 0.22   | 1.55 |
| -9  | -1 | -4 | -0.36  | 1.27 |
| 9   | 1  | 4  | -0.92  | 1.56 |
| -9  | 1  | -4 | -0.79  | 1.17 |
| 10  | -1 | 4  | 1.20   | 1.87 |
| -10 | 1  | -4 | 0.30   | 1.62 |
| -10 | -1 | -4 | 1.59   | 1.57 |
| 10  | 1  | 4  | 2.88   | 1.93 |
| 11  | 2  | -4 | 5.03   | 2.69 |
| -11 | 2  | 4  | 7.12   | 2.66 |
| 10  | 2  | -4 | 3.00   | 1.99 |
| -10 | 2  | 4  | -2.03  | 1.53 |
| -9  | -2 | 4  | 13.96  | 2.49 |
| -9  | 2  | 4  | 13.30  | 2.39 |
| -8  | 2  | 4  | 1.01   | 1.38 |
| -8  | -2 | 4  | 0.73   | 1.21 |
| -7  | -2 | 4  | 19.04  | 2.06 |
| -7  | 2  | 4  | 19.61  | 2.26 |
| 6   | -2 | -4 | 13.17  | 1.48 |
| -6  | 2  | 4  | 13.16  | 1.31 |
| -6  | 2  | 4  | 9.06   | 1.61 |
| -6  | -2 | 4  | 12.13  | 1.52 |
| 5   | -2 | -4 | 48.21  | 2.39 |
| -5  | 2  | 4  | 46.72  | 2.85 |
| -5  | -2 | 4  | 46.75  | 2.47 |
| -5  | 2  | 4  | 45.64  | 2.08 |
| -4  | -2 | 4  | 15.09  | 1.23 |
| -4  | 2  | 4  | 12.76  | 1.46 |
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| 4   | -2 | -4 | 14.81  | 1.39 |
| -3  | -2 | 4  | 5.10   | 0.66 |
| 3   | -2 | -4 | 5.73   | 0.96 |
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| 3   | 2  | -4 | 5.55   | 0.88 |
| -3  | 2  | 4  | 5.98   | 0.62 |
| -2  | 2  | 4  | 125.36 | 3.39 |
| -2  | -2 | 4  | 133.39 | 3.43 |
| 2   | 2  | -4 | 132.06 | 4.16 |
| 2   | -2 | -4 | 133.07 | 4.28 |

|     |    |    |        |       |
|-----|----|----|--------|-------|
| -1  | 2  | 4  | 35.54  | 1.29  |
| 1   | 2  | -4 | 36.01  | 1.93  |
| 1   | -2 | -4 | 32.33  | 1.90  |
| 0   | 2  | -4 | 608.01 | 14.80 |
| 0   | 2  | 4  | 587.21 | 15.25 |
| 0   | -2 | 4  | 615.31 | 14.15 |
| -1  | -2 | -4 | 126.35 | 3.99  |
| 1   | 2  | 4  | 114.53 | 4.19  |
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| -1  | 2  | -4 | 113.53 | 4.19  |
| 2   | 2  | 4  | 237.35 | 7.11  |
| -2  | -2 | -4 | 241.01 | 6.57  |
| -2  | 2  | -4 | 220.59 | 6.44  |
| -2  | 2  | -4 | 230.05 | 5.87  |
| -2  | -2 | -4 | 234.88 | 6.59  |
| -3  | 2  | -4 | 1.09   | 0.43  |
| -3  | -2 | -4 | 0.42   | 0.60  |
| -3  | 2  | -4 | 1.91   | 0.76  |
| -3  | 2  | -4 | 1.50   | 1.01  |
| 3   | 2  | 4  | 1.11   | 0.75  |
| 4   | 2  | 4  | -0.42  | 0.66  |
| -4  | 2  | -4 | -0.38  | 0.75  |
| -4  | 2  | -4 | -0.32  | 0.55  |
| -4  | -2 | -4 | 0.10   | 0.62  |
| 5   | 2  | 4  | 19.82  | 2.16  |
| -5  | -2 | -4 | 19.53  | 1.99  |
| -5  | 2  | -4 | 21.72  | 2.15  |
| -5  | 2  | -4 | 15.39  | 1.85  |
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| 6   | 2  | 4  | 12.02  | 1.94  |
| -6  | 2  | -4 | 9.89   | 1.80  |
| -7  | -2 | -4 | 53.92  | 3.52  |
| -7  | 2  | -4 | 51.59  | 3.52  |
| -7  | 2  | -4 | 55.95  | 3.79  |
| 7   | 2  | 4  | 58.81  | 4.01  |
| -8  | 2  | -4 | 8.10   | 2.03  |
| -8  | 2  | -4 | 2.60   | 1.34  |
| 8   | 2  | 4  | 3.09   | 1.59  |
| 8   | -2 | 4  | 3.94   | 1.69  |
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| 9   | 2  | 4  | 6.38   | 2.09  |
| 9   | -2 | 4  | 6.26   | 2.20  |
| -10 | 2  | -4 | 2.56   | 1.71  |
| 10  | -2 | 4  | 1.02   | 1.76  |
| 10  | 2  | 4  | 0.77   | 1.83  |
| 11  | 3  | -4 | 27.74  | 4.02  |
| -11 | 3  | 4  | 29.44  | 4.06  |
| 10  | 3  | -4 | 2.57   | 2.04  |
| -10 | 3  | 4  | 3.03   | 1.97  |
| 9   | 3  | -4 | 14.50  | 2.54  |
| -9  | 3  | 4  | 2.49   | 1.39  |
| 8   | 3  | -4 | 8.87   | 1.91  |
| -8  | 3  | 4  | 1.47   | 1.20  |
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| 5   | 3  | -4 | 11.89  | 1.35  |
| 5   | 3  | -4 | 10.16  | 1.54  |
| -5  | 3  | 4  | 11.95  | 1.23  |

|     |    |    |         |       |
|-----|----|----|---------|-------|
| -5  | 3  | 4  | 9.64    | 1.61  |
| 5   | -3 | -4 | 9.76    | 1.33  |
| 4   | 3  | -4 | 93.38   | 3.94  |
| 4   | 3  | -4 | 96.48   | 3.45  |
| -4  | 3  | 4  | 102.44  | 4.25  |
| 4   | -3 | -4 | 101.06  | 3.73  |
| -4  | 3  | 4  | 99.78   | 3.28  |
| 3   | -3 | -4 | 4.42    | 1.02  |
| -3  | 3  | 4  | 3.87    | 1.05  |
| 3   | 3  | -4 | 3.90    | 0.64  |
| 3   | 3  | -4 | 3.48    | 0.94  |
| -3  | 3  | 4  | 4.81    | 0.88  |
| 2   | 3  | -4 | 52.94   | 1.71  |
| -2  | 3  | 4  | 51.49   | 2.09  |
| 2   | -3 | -4 | 53.81   | 2.53  |
| -2  | 3  | 4  | 53.26   | 2.74  |
| 2   | 3  | -4 | 52.22   | 2.53  |
| 1   | 3  | -4 | 14.08   | 1.42  |
| 1   | -3 | -4 | 11.21   | 1.34  |
| -1  | 3  | 4  | 10.71   | 1.32  |
| -1  | 3  | 4  | 12.61   | 0.99  |
| 0   | 3  | 4  | 0.61    | 0.46  |
| 0   | -3 | -4 | -0.52   | 0.65  |
| 0   | 3  | -4 | 1.40    | 0.33  |
| 0   | 3  | -4 | 1.34    | 0.92  |
| 0   | 3  | 4  | 1.74    | 0.87  |
| -1  | -3 | -4 | 1138.84 | 26.80 |
| 1   | 3  | 4  | 1108.96 | 27.72 |
| -1  | 3  | -4 | 1155.30 | 26.59 |
| 2   | 3  | 4  | 1.78    | 1.05  |
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| -2  | -3 | -4 | 3.55    | 0.98  |
| -2  | 3  | -4 | 3.82    | 0.74  |
| 3   | 3  | 4  | 173.81  | 6.22  |
| -3  | 3  | -4 | 179.40  | 4.68  |
| -3  | 3  | -4 | 174.06  | 5.68  |
| -3  | 3  | -4 | 179.25  | 6.23  |
| -4  | 3  | -4 | 16.69   | 1.98  |
| -4  | 3  | -4 | 20.67   | 1.85  |
| 4   | 3  | 4  | 18.00   | 2.01  |
| -5  | 3  | -4 | 2.76    | 1.17  |
| -5  | 3  | -4 | 1.46    | 1.31  |
| 5   | 3  | 4  | 6.24    | 1.63  |
| -6  | 3  | -4 | 0.16    | 1.02  |
| 6   | 3  | 4  | 0.42    | 1.26  |
| -6  | 3  | -4 | -0.73   | 0.90  |
| -7  | 3  | -4 | 2.42    | 1.39  |
| 7   | 3  | 4  | -0.27   | 1.29  |
| -7  | 3  | -4 | 2.48    | 1.42  |
| -8  | 3  | -4 | 1.22    | 1.25  |
| 8   | 3  | 4  | -0.62   | 1.26  |
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| 9   | 3  | 4  | -0.11   | 1.67  |
| -9  | 3  | -4 | -0.46   | 1.29  |
| 10  | -3 | 4  | 2.93    | 2.17  |
| -10 | 3  | -4 | 2.06    | 1.72  |
| 10  | 3  | 4  | -0.78   | 1.87  |
| -10 | 4  | 4  | 3.40    | 2.12  |
| -9  | 4  | 4  | 6.82    | 2.11  |

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| 8  | 4  | -4 | -0.21  | 1.27 |
| -8 | 4  | 4  | 2.01   | 1.46 |
| 7  | 4  | -4 | 22.27  | 2.30 |
| 7  | 4  | -4 | 27.72  | 2.92 |
| -7 | 4  | 4  | 19.48  | 2.57 |
| 6  | 4  | -4 | 114.02 | 4.72 |
| -6 | 4  | 4  | 116.37 | 5.50 |
| 6  | 4  | -4 | 116.74 | 5.34 |
| -5 | 4  | 4  | 23.88  | 2.42 |
| 5  | 4  | -4 | 29.93  | 2.57 |
| 5  | -4 | -4 | 23.49  | 1.97 |
| 5  | 4  | -4 | 26.00  | 1.95 |
| 4  | 4  | -4 | 11.54  | 1.60 |
| 4  | 4  | -4 | 10.75  | 1.22 |
| 4  | -4 | -4 | 10.28  | 1.45 |
| -4 | 4  | 4  | 9.39   | 1.61 |
| -4 | 4  | 4  | 9.80   | 1.35 |
| -3 | 4  | 4  | 210.37 | 6.13 |
| 3  | -4 | -4 | 205.60 | 6.41 |
| 3  | 4  | -4 | 207.89 | 5.77 |
| -3 | 4  | 4  | 207.80 | 7.06 |
| 3  | 4  | -4 | 204.50 | 6.78 |
| 2  | 4  | -4 | 16.98  | 1.07 |
| 2  | 4  | -4 | 16.28  | 1.72 |
| 2  | -4 | -4 | 15.79  | 1.63 |
| -2 | 4  | 4  | 16.63  | 1.43 |
| -2 | 4  | 4  | 16.29  | 1.71 |
| -1 | 4  | 4  | 12.80  | 1.23 |
| -1 | 4  | 4  | 11.86  | 1.51 |
| 1  | -4 | -4 | 14.10  | 1.54 |
| 1  | 4  | -4 | 13.25  | 0.74 |
| 1  | 4  | -4 | 14.52  | 1.72 |
| 0  | 4  | -4 | 0.21   | 0.58 |
| 0  | -4 | -4 | 3.08   | 1.05 |
| 0  | 4  | -4 | 2.96   | 0.51 |
| 0  | 4  | 4  | 1.72   | 0.71 |
| 0  | 4  | 4  | 2.71   | 1.09 |
| 1  | 4  | 4  | 15.95  | 1.78 |
| -1 | 4  | -4 | 20.12  | 2.18 |
| -1 | 4  | -4 | 16.65  | 1.18 |
| 2  | 4  | 4  | 42.83  | 2.76 |
| -2 | 4  | -4 | 33.22  | 1.90 |
| -2 | 4  | -4 | 38.80  | 2.92 |
| -3 | 4  | -4 | 31.93  | 2.03 |
| 3  | 4  | 4  | 30.22  | 2.48 |
| -3 | 4  | -4 | 28.22  | 2.66 |
| -4 | 4  | -4 | 93.10  | 4.01 |
| -4 | 4  | -4 | 86.41  | 4.41 |
| 4  | 4  | 4  | 85.94  | 4.47 |
| -5 | 4  | -4 | 88.02  | 4.46 |
| -5 | 4  | -4 | 82.80  | 4.16 |
| 5  | 4  | 4  | 83.91  | 4.59 |
| 6  | 4  | 4  | 31.53  | 3.12 |
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| -8 | 4  | -4 | 6.20   | 1.83 |

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|-----|----|----|-------|------|
| 8   | 4  | 4  | 3.35  | 1.79 |
| -9  | 4  | -4 | -0.06 | 1.51 |
| -9  | 4  | -4 | -1.59 | 1.60 |
| 9   | 4  | 4  | 0.67  | 1.75 |
| -10 | 4  | -4 | -0.20 | 2.05 |
| -10 | 4  | -4 | 2.27  | 1.94 |
| 10  | 5  | -4 | 6.90  | 3.03 |
| -10 | 5  | 4  | 0.73  | 2.03 |
| 9   | 5  | -4 | 1.47  | 1.95 |
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| 8   | 5  | -4 | 0.68  | 1.53 |
| -8  | 5  | 4  | 1.61  | 1.40 |
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| 7   | 5  | -4 | 12.15 | 2.34 |
| 6   | 5  | -4 | 20.87 | 2.64 |
| -6  | 5  | 4  | 14.79 | 2.32 |
| -5  | 5  | 4  | 1.02  | 1.15 |
| 5   | 5  | -4 | -0.60 | 0.93 |
| 4   | 5  | -4 | 11.23 | 1.91 |
| 4   | -5 | -4 | 9.97  | 1.57 |
| -4  | 5  | 4  | 16.28 | 2.10 |
| 3   | 5  | -4 | 0.28  | 0.88 |
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| 3   | -5 | -4 | -0.54 | 0.89 |
| -3  | 5  | 4  | 0.12  | 1.09 |
| 2   | -5 | -4 | 92.74 | 3.96 |
| 2   | 5  | -4 | 80.04 | 4.07 |
| -2  | 5  | 4  | 94.13 | 3.81 |
| -2  | 5  | 4  | 89.00 | 4.16 |
| 1   | 5  | -4 | -0.36 | 0.68 |
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| -1  | 5  | 4  | -0.59 | 0.99 |
| 1   | -5 | -4 | 0.02  | 0.97 |
| 0   | 5  | 4  | 7.91  | 1.25 |
| 0   | 5  | -4 | 7.36  | 1.72 |
| 0   | 5  | 4  | 9.41  | 1.62 |
| 1   | 5  | 4  | 18.73 | 1.77 |
| 1   | 5  | 4  | 22.88 | 2.28 |
| -1  | 5  | -4 | 21.08 | 1.43 |
| -1  | 5  | -4 | 24.82 | 2.61 |
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| -2  | 5  | -4 | 8.76  | 1.17 |
| 2   | 5  | 4  | 8.73  | 1.70 |
| 2   | 5  | 4  | 7.04  | 1.38 |
| 3   | 5  | 4  | 16.18 | 2.23 |
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| -4  | 5  | -4 | 6.68  | 1.34 |
| 4   | 5  | 4  | 6.99  | 1.93 |
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| -5  | 5  | -4 | 4.23  | 1.65 |
| 5   | 5  | 4  | 2.71  | 1.74 |
| 6   | 5  | 4  | 19.13 | 2.75 |
| -6  | 5  | -4 | 19.44 | 2.63 |
| -6  | 5  | -4 | 19.23 | 2.44 |
| -7  | 5  | -4 | 0.06  | 1.31 |
| 7   | 5  | 4  | -0.27 | 1.37 |
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| -8  | 5  | -4 | 4.34  | 2.03 |

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|----|----|----|-------|------|
| -8 | 5  | -4 | 4.21  | 1.75 |
| 8  | 5  | 4  | 1.07  | 1.86 |
| -9 | 5  | -4 | 0.63  | 1.59 |
| -9 | 5  | -4 | 1.08  | 2.06 |
| 9  | 5  | 4  | -0.97 | 2.13 |
| 9  | 6  | -4 | 1.04  | 2.26 |
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| 7  | 6  | -4 | 14.93 | 2.79 |
| 6  | 6  | -4 | 82.50 | 5.01 |
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| -3 | 6  | 4  | 12.09 | 2.00 |
| -2 | 6  | 4  | 22.95 | 2.40 |
| -2 | 6  | 4  | 21.07 | 2.15 |
| 1  | 6  | -4 | 15.38 | 2.29 |
| -1 | 6  | 4  | 18.10 | 2.20 |
| -1 | 6  | 4  | 15.90 | 1.89 |
| 0  | 6  | -4 | 64.53 | 4.14 |
| 0  | 6  | 4  | 69.53 | 3.86 |
| 0  | 6  | 4  | 69.90 | 3.52 |
| 1  | 6  | 4  | 46.85 | 3.00 |
| -1 | 6  | -4 | 48.04 | 3.89 |
| 1  | 6  | 4  | 42.89 | 3.35 |
| -2 | 6  | -4 | 8.56  | 2.32 |
| 2  | 6  | 4  | 9.37  | 1.71 |
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| -3 | 6  | -4 | 37.23 | 3.78 |
| 3  | 6  | 4  | 30.80 | 2.80 |
| -4 | 6  | -4 | 12.68 | 2.55 |
| 4  | 6  | 4  | 14.53 | 2.50 |
| 5  | 6  | 4  | 0.01  | 1.63 |
| -5 | 6  | -4 | 0.83  | 1.19 |
| -5 | 6  | -4 | -0.36 | 1.65 |
| -6 | 6  | -4 | 6.13  | 2.01 |
| 6  | 6  | 4  | 3.38  | 1.93 |
| -6 | 6  | -4 | 3.55  | 1.71 |
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| 7  | 6  | 4  | -0.40 | 1.73 |
| -7 | 6  | -4 | 3.80  | 1.87 |
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| 8  | 6  | 4  | 2.04  | 2.47 |
| -8 | 6  | -4 | 4.61  | 2.28 |
| -9 | 6  | -4 | 3.33  | 2.34 |
| 9  | 6  | 4  | 1.50  | 2.65 |
| -9 | 6  | -4 | 0.11  | 1.89 |
| -8 | 7  | 4  | 3.12  | 1.98 |
| 8  | 7  | -4 | 2.33  | 2.39 |
| -7 | 7  | 4  | 1.64  | 1.81 |
| 7  | 7  | -4 | -0.88 | 1.75 |
| 6  | 7  | -4 | 15.86 | 2.99 |
| -6 | 7  | 4  | 13.61 | 2.59 |

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|----|---|----|-------|------|
| -5 | 7 | 4  | 11.89 | 2.38 |
| 5  | 7 | -4 | 10.84 | 2.44 |
| -4 | 7 | 4  | 59.31 | 4.13 |
| 4  | 7 | -4 | 68.82 | 4.55 |
| 3  | 7 | -4 | 1.61  | 1.42 |
| -3 | 7 | 4  | 2.20  | 1.46 |
| -2 | 7 | 4  | 30.30 | 2.94 |
| 2  | 7 | -4 | 32.16 | 3.20 |
| 1  | 7 | -4 | 57.43 | 4.07 |
| -1 | 7 | 4  | 56.40 | 3.76 |
| -1 | 7 | 4  | 49.52 | 3.39 |
| 0  | 7 | 4  | 0.97  | 1.38 |
| 0  | 7 | -4 | 0.50  | 1.63 |
| 0  | 7 | 4  | 0.69  | 1.43 |
| 1  | 7 | 4  | 12.57 | 2.23 |
| 1  | 7 | 4  | 14.13 | 2.21 |
| -1 | 7 | -4 | 11.24 | 2.62 |
| 2  | 7 | 4  | 5.74  | 1.74 |
| 2  | 7 | 4  | 7.26  | 2.12 |
| -2 | 7 | -4 | 6.95  | 2.49 |
| 3  | 7 | 4  | 2.98  | 1.57 |
| 3  | 7 | 4  | 1.26  | 1.77 |
| -3 | 7 | -4 | 0.86  | 2.02 |
| -4 | 7 | -4 | 0.76  | 1.88 |
| 4  | 7 | 4  | 2.58  | 1.96 |
| 4  | 7 | 4  | 1.55  | 1.55 |
| 5  | 7 | 4  | 0.34  | 1.97 |
| -5 | 7 | -4 | 1.55  | 1.93 |
| 5  | 7 | 4  | 0.08  | 1.43 |
| 6  | 7 | 4  | -1.44 | 2.06 |
| 6  | 7 | 4  | 4.64  | 1.98 |
| -6 | 7 | -4 | 1.72  | 1.92 |
| 7  | 7 | 4  | 5.40  | 2.79 |
| -7 | 7 | -4 | 6.97  | 2.48 |
| 8  | 7 | 4  | 0.40  | 2.55 |
| -8 | 7 | -4 | -0.14 | 1.99 |
| -8 | 8 | 4  | 0.89  | 2.01 |
| -7 | 8 | 4  | 1.87  | 2.06 |
| 7  | 8 | -4 | 0.90  | 2.06 |
| -6 | 8 | 4  | -0.40 | 1.62 |
| 6  | 8 | -4 | 1.33  | 1.97 |
| 5  | 8 | -4 | 5.18  | 2.30 |
| -5 | 8 | 4  | 4.67  | 2.01 |
| -4 | 8 | 4  | 3.18  | 1.72 |
| 4  | 8 | -4 | 1.40  | 1.81 |
| 3  | 8 | -4 | 1.68  | 1.66 |
| -3 | 8 | 4  | 2.41  | 1.67 |
| 2  | 8 | -4 | -1.68 | 1.37 |
| -2 | 8 | 4  | 0.34  | 1.48 |
| 1  | 8 | -4 | 0.06  | 1.72 |
| -1 | 8 | 4  | 2.46  | 1.70 |
| 0  | 8 | 4  | 0.83  | 1.60 |
| 0  | 8 | -4 | 0.60  | 1.89 |
| 0  | 8 | 4  | 3.02  | 1.74 |
| 1  | 8 | 4  | 65.45 | 4.37 |
| -1 | 8 | -4 | 61.43 | 4.98 |
| 1  | 8 | 4  | 60.66 | 4.23 |
| -2 | 8 | -4 | 36.15 | 4.13 |
| 2  | 8 | 4  | 28.76 | 3.37 |
| 2  | 8 | 4  | 32.48 | 3.41 |

|     |    |    |        |       |
|-----|----|----|--------|-------|
| -3  | 8  | -4 | -0.30  | 2.25  |
| 3   | 8  | 4  | -0.47  | 1.48  |
| 3   | 8  | 4  | -1.14  | 1.72  |
| 4   | 8  | 4  | 0.23   | 2.08  |
| 4   | 8  | 4  | 0.12   | 1.77  |
| -4  | 8  | -4 | 2.95   | 2.47  |
| 5   | 8  | 4  | -0.31  | 1.81  |
| -5  | 8  | -4 | 0.21   | 2.11  |
| -6  | 8  | -4 | 9.66   | 2.92  |
| 6   | 8  | 4  | 8.07   | 2.73  |
| -7  | 8  | -4 | 2.47   | 2.36  |
| -7  | 9  | 4  | 0.90   | 2.36  |
| -6  | 9  | 4  | -0.19  | 1.85  |
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| 5   | 9  | -4 | 5.15   | 2.72  |
| -4  | 9  | 4  | 11.38  | 2.69  |
| 4   | 9  | -4 | 3.51   | 2.50  |
| 3   | 9  | -4 | -1.67  | 1.83  |
| -3  | 9  | 4  | 1.53   | 1.90  |
| -2  | 9  | 4  | 1.67   | 1.87  |
| 2   | 9  | -4 | 1.52   | 2.32  |
| 1   | 9  | -4 | -0.02  | 2.08  |
| 0   | 9  | -4 | 3.53   | 2.59  |
| 1   | 9  | 4  | -1.05  | 1.82  |
| -1  | 9  | -4 | 0.62   | 2.59  |
| -2  | 9  | -4 | -1.01  | 2.48  |
| 2   | 9  | 4  | -1.42  | 1.79  |
| -3  | 9  | -4 | 6.12   | 3.00  |
| 3   | 9  | 4  | 4.46   | 2.38  |
| -4  | 9  | -4 | 4.95   | 3.26  |
| 4   | 9  | 4  | 0.47   | 2.16  |
| 5   | 9  | 4  | 0.20   | 2.48  |
| -5  | 9  | -4 | 0.41   | 2.83  |
| 3   | 10 | -4 | -1.86  | 2.33  |
| 2   | 10 | -4 | -0.34  | 2.43  |
| 1   | 10 | -4 | -0.48  | 2.65  |
| 0   | 10 | -4 | 1.78   | 2.81  |
| -1  | 10 | -4 | -2.24  | 2.72  |
| -2  | 10 | -4 | 1.21   | 3.25  |
| 2   | 10 | 4  | -1.10  | 2.44  |
| -3  | 10 | -4 | -0.55  | 2.95  |
| 3   | 10 | 4  | 0.38   | 2.52  |
| -11 | 0  | 5  | 0.66   | 2.13  |
| -10 | 0  | 5  | -1.95  | 1.37  |
| -9  | 0  | 5  | 19.62  | 2.65  |
| -8  | 0  | 5  | 1.97   | 1.34  |
| 7   | 0  | -5 | 67.49  | 3.25  |
| -7  | 0  | 5  | 61.80  | 3.53  |
| 6   | 0  | -5 | 0.13   | 0.76  |
| -6  | 0  | 5  | 0.28   | 0.77  |
| 5   | 0  | -5 | 105.01 | 3.96  |
| -5  | 0  | 5  | 108.94 | 4.21  |
| -4  | 0  | 5  | -0.76  | 0.58  |
| 4   | 0  | -5 | -0.26  | 0.61  |
| 3   | 0  | -5 | 875.11 | 21.09 |
| 3   | 0  | -5 | 898.96 | 20.06 |
| -3  | 0  | 5  | 883.17 | 21.35 |
| -2  | 0  | 5  | 3.56   | 0.72  |
| 2   | 0  | -5 | 3.82   | 0.53  |
| 2   | 0  | -5 | 3.33   | 0.77  |

|     |    |    |         |       |
|-----|----|----|---------|-------|
| -1  | 0  | 5  | 2840.85 | 64.49 |
| 1   | 0  | -5 | 2829.81 | 62.04 |
| 1   | 0  | -5 | 2751.12 | 62.98 |
| 0   | 0  | -5 | 1.71    | 0.63  |
| 0   | 0  | -5 | 1.06    | 0.67  |
| 0   | 0  | 5  | 1.31    | 0.65  |
| -1  | 0  | -5 | 177.25  | 4.97  |
| 1   | 0  | 5  | 171.29  | 5.16  |
| -1  | 0  | -5 | 168.57  | 4.99  |
| -2  | 0  | -5 | 0.84    | 0.64  |
| -2  | 0  | -5 | 0.08    | 0.59  |
| 2   | 0  | 5  | 1.50    | 0.59  |
| 3   | 0  | 5  | 57.99   | 2.74  |
| -3  | 0  | -5 | 51.41   | 2.65  |
| -3  | 0  | -5 | 53.97   | 2.20  |
| -4  | 0  | -5 | 0.36    | 0.62  |
| -4  | 0  | -5 | -0.23   | 0.66  |
| 4   | 0  | 5  | -0.03   | 0.70  |
| 5   | 0  | 5  | 32.18   | 2.47  |
| 6   | 0  | 5  | 1.94    | 1.18  |
| -6  | 0  | -5 | -0.44   | 0.96  |
| -7  | 0  | -5 | 27.29   | 2.68  |
| 7   | 0  | 5  | 30.91   | 3.05  |
| -8  | 0  | -5 | 1.86    | 1.35  |
| 8   | 0  | 5  | -1.35   | 1.19  |
| 9   | 0  | 5  | 1.03    | 1.61  |
| -9  | 0  | -5 | -0.18   | 1.29  |
| 10  | 0  | 5  | 1.51    | 1.89  |
| -10 | 0  | -5 | 0.60    | 1.69  |
| -12 | -1 | 5  | -2.92   | 2.52  |
| -11 | -1 | 5  | 0.34    | 2.12  |
| -11 | 1  | 5  | 1.58    | 2.15  |
| -10 | 1  | 5  | 1.94    | 1.82  |
| -10 | -1 | 5  | -0.30   | 1.54  |
| -9  | 1  | 5  | 0.76    | 1.32  |
| -9  | -1 | 5  | 2.05    | 1.57  |
| -8  | -1 | 5  | 6.37    | 1.69  |
| -8  | 1  | 5  | 9.51    | 1.95  |
| 8   | 1  | -5 | 8.14    | 1.48  |
| -7  | -1 | 5  | 13.54   | 1.85  |
| -7  | 1  | 5  | 11.41   | 1.85  |
| 7   | -1 | -5 | 14.17   | 1.68  |
| -6  | -1 | 5  | 47.65   | 2.81  |
| 6   | -1 | -5 | 54.18   | 2.76  |
| -6  | 1  | 5  | 53.30   | 3.09  |
| -6  | 1  | 5  | 55.14   | 2.44  |
| 5   | -1 | -5 | 3.17    | 0.96  |
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| 4   | -1 | -5 | 26.28   | 1.82  |
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| -3  | 1  | 5  | 56.61   | 2.65  |
| 3   | -1 | -5 | 61.76   | 2.64  |
| 3   | 1  | -5 | 59.00   | 2.22  |
| -3  | -1 | 5  | 57.63   | 2.25  |
| -2  | 1  | 5  | 878.67  | 21.19 |
| 2   | -1 | -5 | 899.96  | 20.82 |
| 2   | 1  | -5 | 765.65  | 20.69 |

|     |    |    |        |       |
|-----|----|----|--------|-------|
| -2  | -1 | 5  | 905.32 | 20.54 |
| 2   | 1  | -5 | 916.63 | 20.16 |
| 1   | 1  | -5 | 185.36 | 5.23  |
| 1   | 1  | -5 | 195.62 | 5.45  |
| 1   | -1 | -5 | 184.18 | 4.49  |
| -1  | -1 | 5  | 184.88 | 4.89  |
| -1  | 1  | 5  | 189.63 | 5.64  |
| 0   | 1  | -5 | 586.36 | 14.33 |
| 0   | 1  | 5  | 589.77 | 14.88 |
| 0   | -1 | 5  | 581.86 | 14.19 |
| 0   | 1  | -5 | 605.68 | 14.28 |
| 0   | -1 | -5 | 601.21 | 14.52 |
| 0   | -1 | -5 | 592.71 | 13.70 |
| -1  | 1  | -5 | 187.92 | 5.13  |
| -1  | -1 | -5 | 182.74 | 5.37  |
| -1  | 1  | -5 | 183.40 | 5.52  |
| 1   | 1  | 5  | 185.80 | 5.67  |
| 1   | -1 | 5  | 184.91 | 5.20  |
| -1  | -1 | -5 | 183.40 | 5.12  |
| -2  | 1  | -5 | 256.71 | 7.41  |
| -2  | -1 | -5 | 256.55 | 7.07  |
| -2  | 1  | -5 | 265.50 | 6.71  |
| 2   | 1  | 5  | 269.06 | 7.68  |
| 2   | -1 | 5  | 261.78 | 7.34  |
| -2  | -1 | -5 | 257.77 | 7.16  |
| -3  | 1  | -5 | 21.99  | 1.86  |
| -3  | -1 | -5 | 22.02  | 1.63  |
| -3  | -1 | 5  | 23.83  | 1.69  |
| 3   | 1  | 5  | 22.73  | 1.80  |
| 3   | -1 | 5  | 27.59  | 1.84  |
| -3  | 1  | -5 | 25.15  | 1.36  |
| 4   | -1 | 5  | 122.98 | 4.80  |
| 4   | 1  | 5  | 126.24 | 4.99  |
| -4  | -1 | -5 | 126.40 | 4.70  |
| -5  | 1  | -5 | 1.64   | 0.99  |
| 5   | 1  | 5  | 1.48   | 1.07  |
| 5   | -1 | 5  | 2.76   | 1.04  |
| -5  | -1 | -5 | 2.50   | 1.02  |
| -6  | -1 | -5 | 1.38   | 0.86  |
| 6   | -1 | 5  | 6.65   | 1.63  |
| 6   | 1  | 5  | 6.27   | 1.61  |
| -6  | 1  | -5 | 9.75   | 1.72  |
| -7  | -1 | -5 | 57.19  | 3.70  |
| -7  | 1  | -5 | 56.95  | 3.69  |
| 7   | -1 | 5  | 59.23  | 3.84  |
| 8   | 1  | 5  | 0.34   | 1.17  |
| -8  | -1 | -5 | -0.40  | 1.14  |
| 8   | -1 | 5  | 0.00   | 1.42  |
| -8  | 1  | -5 | 2.72   | 1.48  |
| -9  | 1  | -5 | 6.52   | 1.98  |
| 9   | 1  | 5  | 2.10   | 1.96  |
| -9  | -1 | -5 | 6.21   | 2.05  |
| 9   | -1 | 5  | 6.97   | 2.23  |
| -10 | -1 | -5 | 1.67   | 1.73  |
| 10  | -1 | 5  | -0.96  | 1.62  |
| -10 | 1  | -5 | 1.05   | 1.73  |
| 10  | 1  | 5  | -2.34  | 1.73  |
| 11  | 2  | -5 | 4.69   | 2.62  |
| -11 | 2  | 5  | 3.50   | 2.16  |
| 10  | 2  | -5 | 7.04   | 2.38  |

|     |    |    |         |       |
|-----|----|----|---------|-------|
| -10 | -2 | 5  | 3.63    | 2.13  |
| -10 | 2  | 5  | 5.84    | 2.17  |
| -9  | 2  | 5  | 4.23    | 1.88  |
| -9  | -2 | 5  | 3.63    | 1.76  |
| -8  | 2  | 5  | -0.54   | 1.20  |
| -8  | -2 | 5  | 1.67    | 1.31  |
| -7  | -2 | 5  | 18.89   | 2.07  |
| -7  | 2  | 5  | 24.03   | 2.57  |
| 6   | -2 | -5 | 3.96    | 1.19  |
| -6  | 2  | 5  | 5.45    | 1.53  |
| -6  | -2 | 5  | 7.25    | 1.28  |
| 5   | -2 | -5 | 5.57    | 1.13  |
| -5  | 2  | 5  | 4.73    | 1.27  |
| -5  | 2  | 5  | 6.94    | 0.82  |
| -5  | -2 | 5  | 6.64    | 1.06  |
| -4  | -2 | 5  | 117.65  | 3.92  |
| -4  | 2  | 5  | 123.38  | 4.63  |
| 4   | 2  | -5 | 116.53  | 4.15  |
| 4   | -2 | -5 | 115.05  | 4.22  |
| -4  | 2  | 5  | 122.17  | 3.32  |
| -3  | 2  | 5  | 1.28    | 0.77  |
| 3   | 2  | -5 | 0.59    | 0.60  |
| -3  | 2  | 5  | 0.58    | 0.28  |
| -3  | -2 | 5  | 1.75    | 0.48  |
| 3   | -2 | -5 | 1.88    | 0.87  |
| -2  | 2  | 5  | 28.84   | 1.90  |
| -2  | -2 | 5  | 28.17   | 1.08  |
| -2  | 2  | 5  | 29.89   | 1.04  |
| 2   | 2  | -5 | 28.89   | 1.75  |
| 2   | -2 | -5 | 27.69   | 1.91  |
| 1   | -2 | -5 | 1161.83 | 27.60 |
| 1   | 2  | -5 | 1164.34 | 27.28 |
| -1  | 2  | 5  | 1204.57 | 28.42 |
| 0   | -2 | 5  | 50.33   | 1.61  |
| 0   | 2  | 5  | 38.14   | 2.25  |
| 0   | -2 | -5 | 46.70   | 2.34  |
| 0   | 2  | -5 | 50.97   | 2.53  |
| -1  | 2  | -5 | 9.45    | 1.35  |
| -1  | 2  | -5 | 5.73    | 0.77  |
| 1   | -2 | 5  | 6.46    | 0.71  |
| -1  | -2 | -5 | 5.33    | 1.00  |
| -1  | -2 | -5 | 4.61    | 0.74  |
| -2  | -2 | -5 | 65.65   | 2.91  |
| -2  | 2  | -5 | 77.99   | 2.55  |
| 2   | -2 | 5  | 72.94   | 2.81  |
| -2  | 2  | -5 | 72.21   | 3.34  |
| -2  | -2 | -5 | 68.51   | 2.89  |
| -3  | -2 | -5 | 273.04  | 7.95  |
| -3  | 2  | -5 | 270.17  | 6.82  |
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| 3   | 2  | 5  | 287.23  | 8.62  |
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| -4  | -2 | -5 | 1.60    | 0.89  |
| 4   | 2  | 5  | 2.23    | 1.04  |
| -4  | 2  | -5 | 2.38    | 1.22  |
| 5   | 2  | 5  | 0.73    | 1.07  |
| -5  | 2  | -5 | 1.41    | 1.06  |
| -5  | -2 | -5 | 1.64    | 0.94  |
| -5  | 2  | -5 | 2.23    | 1.10  |

|     |    |    |         |       |
|-----|----|----|---------|-------|
| -6  | 2  | -5 | 24.00   | 2.44  |
| -6  | 2  | -5 | 22.73   | 2.41  |
| 6   | -2 | 5  | 21.75   | 2.37  |
| 6   | 2  | 5  | 23.75   | 2.58  |
| -6  | -2 | -5 | 24.13   | 2.45  |
| -7  | 2  | -5 | 61.62   | 3.80  |
| 7   | -2 | 5  | 63.22   | 4.00  |
| 7   | 2  | 5  | 54.48   | 3.95  |
| -8  | -2 | -5 | 8.64    | 1.97  |
| -8  | 2  | -5 | 6.34    | 1.80  |
| 8   | -2 | 5  | 4.00    | 1.65  |
| 8   | 2  | 5  | 5.61    | 1.94  |
| -9  | 2  | -5 | 14.00   | 2.49  |
| 9   | -2 | 5  | 14.59   | 2.71  |
| 9   | 2  | 5  | 14.95   | 2.82  |
| 10  | 2  | 5  | -0.81   | 1.49  |
| -10 | 2  | -5 | -0.44   | 1.56  |
| 10  | -2 | 5  | 0.99    | 2.08  |
| -11 | 3  | 5  | -0.54   | 2.04  |
| 10  | 3  | -5 | 0.34    | 1.89  |
| -10 | 3  | 5  | -1.02   | 1.78  |
| -9  | 3  | 5  | -0.27   | 1.49  |
| 9   | 3  | -5 | 0.41    | 1.48  |
| 8   | 3  | -5 | 12.69   | 2.10  |
| -8  | 3  | 5  | 13.53   | 2.39  |
| -7  | 3  | 5  | 1.77    | 1.30  |
| 7   | 3  | -5 | 3.43    | 1.41  |
| 6   | -3 | -5 | 60.23   | 3.09  |
| 6   | 3  | -5 | 56.09   | 3.13  |
| 6   | 3  | -5 | 59.93   | 3.44  |
| 5   | 3  | -5 | 1.31    | 0.89  |
| 5   | 3  | -5 | 0.48    | 0.72  |
| 5   | -3 | -5 | -0.06   | 1.02  |
| -5  | 3  | 5  | -0.09   | 0.50  |
| 4   | -3 | -5 | 22.04   | 1.85  |
| 4   | 3  | -5 | 24.58   | 1.51  |
| 4   | 3  | -5 | 23.74   | 1.83  |
| -4  | 3  | 5  | 19.08   | 1.96  |
| -4  | 3  | 5  | 20.50   | 1.32  |
| -3  | 3  | 5  | 136.81  | 3.86  |
| -3  | 3  | 5  | 130.13  | 5.03  |
| 3   | -3 | -5 | 135.11  | 4.74  |
| 3   | 3  | -5 | 133.55  | 3.79  |
| 3   | 3  | -5 | 128.10  | 4.69  |
| 2   | 3  | -5 | 153.87  | 5.14  |
| -2  | 3  | 5  | 144.70  | 5.26  |
| -2  | 3  | 5  | 153.66  | 4.19  |
| 2   | -3 | -5 | 148.19  | 5.02  |
| -1  | 3  | 5  | 53.30   | 1.99  |
| 1   | 3  | -5 | 48.93   | 2.66  |
| 1   | -3 | -5 | 47.06   | 2.56  |
| -1  | 3  | 5  | 59.35   | 2.89  |
| 0   | 3  | -5 | 56.22   | 3.00  |
| 0   | 3  | 5  | 59.29   | 3.04  |
| 0   | -3 | 5  | 58.47   | 1.75  |
| -1  | -3 | -5 | 1570.36 | 36.18 |
| -1  | 3  | -5 | 1502.43 | 36.36 |
| 1   | 3  | 5  | 1553.56 | 37.47 |
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| -2  | -3 | -5 | 12.39   | 1.46  |

|     |    |    |        |      |
|-----|----|----|--------|------|
| 2   | 3  | 5  | 14.88  | 1.75 |
| -2  | 3  | -5 | 15.36  | 1.27 |
| -3  | 3  | -5 | 3.51   | 1.33 |
| 3   | 3  | 5  | 2.64   | 1.09 |
| -3  | 3  | -5 | 2.19   | 0.83 |
| -4  | 3  | -5 | 2.75   | 1.01 |
| 4   | 3  | 5  | 2.11   | 1.31 |
| -4  | 3  | -5 | 0.95   | 1.16 |
| 5   | 3  | 5  | 20.80  | 2.39 |
| -5  | 3  | -5 | 25.72  | 2.60 |
| -5  | 3  | -5 | 23.35  | 2.28 |
| 6   | 3  | 5  | 22.37  | 2.68 |
| -6  | 3  | -5 | 22.38  | 2.50 |
| -6  | 3  | -5 | 24.52  | 2.54 |
| -7  | 3  | -5 | 0.94   | 1.40 |
| -7  | 3  | -5 | 1.47   | 1.28 |
| 7   | 3  | 5  | 2.84   | 1.70 |
| 8   | 3  | 5  | 11.51  | 2.57 |
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| -8  | 3  | -5 | 14.00  | 2.55 |
| 8   | -3 | 5  | 11.85  | 2.36 |
| 9   | 3  | 5  | 4.70   | 2.26 |
| 9   | -3 | 5  | 4.81   | 2.12 |
| -9  | 3  | -5 | 5.07   | 1.99 |
| 10  | -3 | 5  | 3.98   | 2.31 |
| -10 | 3  | -5 | 2.13   | 2.00 |
| -10 | 4  | 5  | 27.33  | 3.69 |
| -9  | 4  | 5  | 9.52   | 2.41 |
| 9   | 4  | -5 | 10.50  | 2.63 |
| 8   | 4  | -5 | 2.27   | 1.59 |
| -8  | 4  | 5  | -0.70  | 1.29 |
| 7   | 4  | -5 | 7.73   | 1.91 |
| -7  | 4  | 5  | 14.64  | 2.28 |
| 6   | 4  | -5 | 88.61  | 4.54 |
| -6  | 4  | 5  | 79.44  | 4.51 |
| 5   | -4 | -5 | -0.31  | 1.05 |
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| -4  | 4  | 5  | 39.16  | 2.79 |
| 4   | 4  | -5 | 37.66  | 2.60 |
| 4   | -4 | -5 | 38.43  | 2.52 |
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| -3  | 4  | 5  | 6.87   | 1.44 |
| 3   | 4  | -5 | 9.16   | 1.50 |
| 3   | -4 | -5 | 9.90   | 1.42 |
| -2  | 4  | 5  | 133.03 | 5.23 |
| -2  | 4  | 5  | 135.45 | 4.29 |
| 2   | 4  | -5 | 130.98 | 5.09 |
| 2   | -4 | -5 | 136.17 | 4.99 |
| 1   | -4 | -5 | 81.79  | 3.63 |
| -1  | 4  | 5  | 83.49  | 3.85 |
| -1  | 4  | 5  | 86.22  | 3.10 |
| 1   | 4  | -5 | 81.35  | 3.91 |
| 0   | 4  | 5  | 99.95  | 4.32 |
| 0   | -4 | -5 | 96.08  | 4.08 |
| 0   | 4  | -5 | 96.86  | 2.74 |
| 0   | 4  | -5 | 86.86  | 4.26 |
| 0   | 4  | 5  | 96.52  | 3.50 |
| -1  | 4  | -5 | 219.29 | 6.07 |
| 1   | 4  | 5  | 224.00 | 7.52 |

|     |    |    |        |      |
|-----|----|----|--------|------|
| -1  | -4 | -5 | 225.58 | 7.12 |
| -2  | 4  | -5 | 28.98  | 1.82 |
| 2   | 4  | 5  | 29.39  | 2.51 |
| -2  | -4 | -5 | 30.21  | 2.39 |
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| 3   | 4  | 5  | 42.08  | 3.07 |
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| -3  | 4  | -5 | 39.20  | 2.32 |
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| -4  | 4  | -5 | 28.35  | 2.19 |
| 4   | 4  | 5  | 25.87  | 2.66 |
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| -5  | 4  | -5 | 104.94 | 4.82 |
| 5   | 4  | 5  | 113.30 | 5.53 |
| -6  | 4  | -5 | 8.36   | 1.77 |
| -6  | 4  | -5 | 9.58   | 2.07 |
| 6   | 4  | 5  | 8.41   | 2.12 |
| -7  | 4  | -5 | 3.75   | 1.55 |
| 7   | 4  | 5  | 2.43   | 1.72 |
| -7  | 4  | -5 | 3.86   | 1.68 |
| 8   | 4  | 5  | 10.30  | 2.49 |
| -8  | 4  | -5 | 6.91   | 2.00 |
| -8  | 4  | -5 | 3.37   | 1.88 |
| 9   | 4  | 5  | -0.07  | 1.62 |
| -9  | 4  | -5 | 0.32   | 1.67 |
| 9   | -4 | 5  | 1.62   | 1.82 |
| -9  | 4  | -5 | -0.31  | 1.66 |
| -10 | 5  | 5  | 4.75   | 2.27 |
| 10  | 5  | -5 | 0.43   | 2.25 |
| -9  | 5  | 5  | 0.13   | 1.72 |
| 9   | 5  | -5 | 3.41   | 2.30 |
| -8  | 5  | 5  | 3.26   | 1.77 |
| 8   | 5  | -5 | -0.04  | 1.59 |
| 7   | 5  | -5 | 11.44  | 2.43 |
| -7  | 5  | 5  | 19.98  | 2.80 |
| 6   | 5  | -5 | 7.96   | 1.95 |
| -6  | 5  | 5  | 6.92   | 1.88 |
| -5  | 5  | 5  | -0.51  | 0.99 |
| 5   | 5  | -5 | -1.38  | 0.98 |
| 5   | -5 | -5 | -0.09  | 1.16 |
| -4  | 5  | 5  | 49.99  | 3.45 |
| 4   | -5 | -5 | 46.29  | 2.87 |
| 4   | 5  | -5 | 46.23  | 3.27 |
| 3   | 5  | -5 | 26.81  | 2.46 |
| -3  | 5  | 5  | 24.57  | 2.43 |
| 3   | -5 | -5 | 27.06  | 2.34 |
| -2  | 5  | 5  | 0.81   | 1.09 |
| -2  | 5  | 5  | 0.42   | 0.87 |
| 2   | 5  | -5 | -0.85  | 0.93 |
| 2   | -5 | -5 | 1.58   | 1.06 |
| 1   | 5  | -5 | 32.09  | 2.74 |
| -1  | 5  | 5  | 27.69  | 2.43 |
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| 1   | -5 | -5 | 31.30  | 2.48 |
| 0   | 5  | 5  | 29.98  | 2.05 |
| 0   | -5 | -5 | 27.25  | 2.41 |
| 0   | 5  | 5  | 27.74  | 2.52 |
| 1   | 5  | 5  | 0.89   | 0.80 |
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| 1   | 5  | 5  | 2.77   | 1.48 |

|    |    |    |       |      |
|----|----|----|-------|------|
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| 2  | 5  | 5  | 1.34  | 1.38 |
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| -3 | 5  | -5 | 40.43 | 2.48 |
| -3 | 5  | -5 | 39.80 | 3.64 |
| -4 | 5  | -5 | 26.67 | 2.28 |
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| 4  | 5  | 5  | 24.36 | 2.88 |
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| 5  | 5  | 5  | 4.44  | 1.78 |
| -5 | 5  | -5 | 3.76  | 1.78 |
| -6 | 5  | -5 | 0.88  | 1.40 |
| 6  | 5  | 5  | 0.50  | 1.57 |
| -6 | 5  | -5 | -0.09 | 1.20 |
| -7 | 5  | -5 | 0.27  | 1.30 |
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| 1  | 6  | 5  | 20.53 | 2.12 |
| 2  | 6  | 5  | 2.32  | 1.70 |
| 2  | 6  | 5  | 3.73  | 1.46 |
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| 3  | 6  | 5  | 39.73 | 3.54 |
| 3  | 6  | 5  | 47.46 | 3.29 |
| -3 | 6  | -5 | 37.26 | 3.86 |
| 4  | 6  | 5  | 5.47  | 2.11 |

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|----|---|----|-------|------|
| -4 | 6 | -5 | 2.79  | 1.94 |
| 5  | 6 | 5  | 1.28  | 1.78 |
| -5 | 6 | -5 | -0.89 | 1.67 |
| -6 | 6 | -5 | 17.98 | 2.85 |
| 6  | 6 | 5  | 15.44 | 3.00 |
| 7  | 6 | 5  | -0.67 | 2.01 |
| -7 | 6 | -5 | 0.48  | 1.68 |
| -8 | 6 | -5 | 3.18  | 2.09 |
| 8  | 6 | 5  | 3.05  | 2.49 |
| -8 | 7 | 5  | 1.52  | 1.82 |
| 8  | 7 | -5 | 0.54  | 2.22 |
| -7 | 7 | 5  | 2.27  | 1.83 |
| 7  | 7 | -5 | 3.45  | 2.20 |
| -6 | 7 | 5  | 0.39  | 1.58 |
| 6  | 7 | -5 | -0.29 | 1.58 |
| 5  | 7 | -5 | 59.21 | 4.36 |
| -5 | 7 | 5  | 61.83 | 4.31 |
| -4 | 7 | 5  | 10.35 | 2.20 |
| 4  | 7 | -5 | 8.03  | 2.21 |
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| 3  | 7 | -5 | 8.71  | 2.15 |
| 2  | 7 | -5 | 9.41  | 2.12 |
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| 0  | 7 | 5  | -1.31 | 1.20 |
| 0  | 7 | -5 | 2.08  | 2.06 |
| 0  | 7 | 5  | 0.18  | 1.47 |
| 1  | 7 | 5  | 89.58 | 4.59 |
| -1 | 7 | -5 | 82.59 | 5.49 |
| 1  | 7 | 5  | 88.63 | 5.07 |
| 2  | 7 | 5  | 0.57  | 1.20 |
| 2  | 7 | -5 | -0.24 | 1.69 |
| -2 | 7 | -5 | -2.39 | 1.83 |
| 3  | 7 | 5  | 0.18  | 1.36 |
| -3 | 7 | -5 | 1.00  | 2.17 |
| 3  | 7 | 5  | -0.15 | 1.70 |
| 4  | 7 | 5  | 9.50  | 2.62 |
| -4 | 7 | -5 | 11.85 | 2.88 |
| 4  | 7 | 5  | 9.85  | 2.22 |
| 5  | 7 | 5  | 2.79  | 1.65 |
| -5 | 7 | -5 | -1.45 | 1.64 |
| 5  | 7 | 5  | -0.01 | 2.01 |
| -6 | 7 | -5 | 3.59  | 2.08 |
| 6  | 7 | 5  | 6.90  | 2.73 |
| 7  | 7 | 5  | 4.03  | 2.82 |
| -7 | 7 | -5 | 0.62  | 1.86 |
| 8  | 7 | 5  | -6.41 | 2.36 |
| -8 | 7 | -5 | 0.90  | 2.25 |
| -7 | 8 | 5  | 2.76  | 2.20 |
| 7  | 8 | -5 | 3.27  | 2.42 |
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| -4 | 8 | 5  | 0.82  | 1.63 |
| 3  | 8 | -5 | -1.54 | 1.45 |
| -3 | 8 | 5  | -0.84 | 1.44 |

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|-----|----|----|-------|------|
| 2   | 8  | -5 | 5.24  | 2.16 |
| -2  | 8  | 5  | 3.16  | 1.75 |
| -1  | 8  | 5  | 1.18  | 1.57 |
| 1   | 8  | -5 | -2.31 | 1.55 |
| 0   | 8  | -5 | 10.97 | 2.83 |
| 0   | 8  | 5  | 5.56  | 2.00 |
| 1   | 8  | 5  | 0.28  | 1.61 |
| 1   | 8  | 5  | 2.59  | 1.88 |
| -1  | 8  | -5 | 0.44  | 2.00 |
| 2   | 8  | 5  | 5.74  | 2.27 |
| 2   | 8  | 5  | 3.02  | 1.74 |
| -2  | 8  | -5 | 4.92  | 2.54 |
| -3  | 8  | -5 | 5.71  | 2.72 |
| 3   | 8  | 5  | 7.80  | 2.46 |
| 3   | 8  | 5  | 3.41  | 2.03 |
| 4   | 8  | 5  | -2.05 | 1.78 |
| -4  | 8  | -5 | 1.12  | 2.37 |
| 4   | 8  | 5  | 1.16  | 1.90 |
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| 5   | 8  | 5  | 0.92  | 2.10 |
| 5   | 8  | 5  | 0.26  | 2.39 |
| -6  | 8  | -5 | 2.88  | 2.45 |
| 6   | 8  | 5  | 2.50  | 2.40 |
| 6   | 8  | 5  | -0.61 | 2.67 |
| -7  | 8  | -5 | 0.40  | 2.42 |
| -6  | 9  | 5  | 1.31  | 2.08 |
| 5   | 9  | -5 | 1.87  | 2.19 |
| -5  | 9  | 5  | 1.52  | 1.85 |
| 4   | 9  | -5 | 2.79  | 2.36 |
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| 3   | 9  | -5 | -1.30 | 1.93 |
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| 2   | 9  | -5 | 1.82  | 2.02 |
| 1   | 9  | -5 | 9.18  | 2.94 |
| -1  | 9  | 5  | 6.33  | 2.20 |
| 0   | 9  | -5 | 0.27  | 2.13 |
| 0   | 9  | 5  | 1.25  | 1.87 |
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| 2   | 9  | 5  | 17.40 | 3.05 |
| 3   | 9  | 5  | 0.88  | 2.08 |
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| 4   | 9  | 5  | 1.48  | 2.39 |
| -4  | 9  | -5 | 1.77  | 2.75 |
| -5  | 9  | -5 | 1.18  | 2.76 |
| 5   | 9  | 5  | 1.47  | 2.44 |
| 3   | 10 | -5 | 1.22  | 2.63 |
| 2   | 10 | -5 | -0.45 | 2.56 |
| 1   | 10 | -5 | 1.67  | 2.91 |
| 0   | 10 | -5 | 0.08  | 2.72 |
| -1  | 10 | -5 | 1.77  | 3.02 |
| -2  | 10 | -5 | -0.16 | 2.85 |
| -12 | 0  | 6  | 1.96  | 2.45 |
| -11 | 0  | 6  | -0.20 | 2.05 |
| -10 | 0  | 6  | 5.73  | 2.00 |
| -9  | 0  | 6  | -0.55 | 1.26 |
| -8  | 0  | 6  | 3.18  | 1.43 |
| -7  | 0  | 6  | -1.15 | 0.95 |
| 7   | 0  | -6 | 0.28  | 0.85 |

|     |    |    |         |       |
|-----|----|----|---------|-------|
| 6   | 0  | -6 | 15.27   | 1.67  |
| -6  | 0  | 6  | 16.46   | 1.75  |
| 5   | 0  | -6 | 3.38    | 0.96  |
| -5  | 0  | 6  | 3.52    | 1.02  |
| -4  | 0  | 6  | 2521.93 | 59.14 |
| 4   | 0  | -6 | 2559.83 | 56.36 |
| 4   | 0  | -6 | 2546.70 | 57.90 |
| 3   | 0  | -6 | 1.10    | 0.42  |
| -3  | 0  | 6  | 0.06    | 0.57  |
| 3   | 0  | -6 | 1.15    | 0.68  |
| 2   | 0  | -6 | 11.66   | 0.89  |
| -2  | 0  | 6  | 11.69   | 1.09  |
| 2   | 0  | -6 | 12.35   | 1.22  |
| 1   | 0  | -6 | 1.66    | 0.65  |
| -1  | 0  | 6  | 2.35    | 0.75  |
| 1   | 0  | -6 | -0.16   | 0.55  |
| 0   | 0  | -6 | 76.33   | 3.05  |
| 0   | 0  | -6 | 83.05   | 2.80  |
| 0   | 0  | 6  | 80.81   | 3.00  |
| 1   | 0  | 6  | 1.09    | 0.61  |
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| -1  | 0  | -6 | 1.16    | 0.70  |
| -2  | 0  | -6 | 141.13  | 4.61  |
| 2   | 0  | 6  | 129.95  | 4.64  |
| -2  | 0  | -6 | 135.93  | 4.30  |
| 3   | 0  | 6  | 0.21    | 0.68  |
| -3  | 0  | -6 | -1.08   | 0.51  |
| -3  | 0  | -6 | -0.42   | 0.64  |
| 4   | 0  | 6  | 51.38   | 2.97  |
| -4  | 0  | -6 | 48.49   | 2.25  |
| -4  | 0  | -6 | 54.55   | 2.94  |
| -5  | 0  | -6 | -0.53   | 0.84  |
| 5   | 0  | 6  | 0.12    | 0.87  |
| 6   | 0  | 6  | 0.04    | 1.19  |
| -6  | 0  | -6 | 0.20    | 0.70  |
| 7   | 0  | 6  | 1.90    | 1.43  |
| -7  | 0  | -6 | 0.38    | 1.02  |
| 8   | 0  | 6  | 12.60   | 2.50  |
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| -9  | 0  | -6 | -0.37   | 1.34  |
| 9   | 0  | 6  | -1.05   | 1.56  |
| 10  | 0  | 6  | 11.17   | 2.88  |
| -10 | 0  | -6 | 8.95    | 2.62  |
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| -11 | 1  | 6  | 4.00    | 2.16  |
| -11 | -1 | 6  | 0.38    | 2.24  |
| -10 | -1 | 6  | 2.55    | 1.87  |
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| 8   | 1  | -6 | 19.50   | 2.05  |
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| 7   | 1  | -6 | 2.04    | 1.12  |
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| 6   | 1  | -6 | 21.23   | 2.01  |
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| 6   | -1 | -6 | 30.85   | 2.17  |

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|----|----|----|--------|-------|
| -6 | -1 | 6  | 18.16  | 1.80  |
| -5 | 1  | 6  | 78.83  | 3.66  |
| 5  | 1  | -6 | 84.78  | 3.71  |
| -5 | -1 | 6  | 82.62  | 3.43  |
| 5  | -1 | -6 | 81.26  | 3.52  |
| -4 | 1  | 6  | 275.83 | 8.13  |
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| 4  | 1  | -6 | 276.39 | 8.17  |
| 4  | 1  | -6 | 277.68 | 7.34  |
| 4  | -1 | -6 | 265.13 | 7.89  |
| -3 | -1 | 6  | 0.07   | 0.44  |
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| 3  | 1  | -6 | -0.09  | 0.57  |
| 3  | -1 | -6 | -0.82  | 0.63  |
| 3  | 1  | -6 | -0.24  | 0.45  |
| 2  | 1  | -6 | 586.87 | 13.92 |
| 2  | -1 | -6 | 579.63 | 14.61 |
| -2 | 1  | 6  | 574.75 | 14.73 |
| -2 | -1 | 6  | 589.09 | 14.05 |
| -1 | -1 | 6  | 737.93 | 17.32 |
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| 1  | -1 | -6 | 723.45 | 16.41 |
| 1  | 1  | -6 | 720.47 | 17.22 |
| 1  | 1  | -6 | 727.24 | 17.57 |
| 0  | -1 | -6 | 108.16 | 3.30  |
| 0  | -1 | -6 | 112.07 | 3.99  |
| 0  | -1 | 6  | 116.63 | 3.56  |
| 0  | 1  | -6 | 111.46 | 3.90  |
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| -1 | 1  | -6 | 90.73  | 3.48  |
| -2 | 1  | -6 | 165.36 | 4.67  |
| 2  | -1 | 6  | 161.52 | 5.07  |
| -2 | -1 | -6 | 149.75 | 4.90  |
| -2 | 1  | -6 | 152.85 | 5.20  |
| 2  | 1  | 6  | 153.44 | 5.39  |
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| -3 | -1 | -6 | 6.95   | 1.08  |
| 3  | 1  | 6  | 3.29   | 1.02  |
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| 3  | -1 | 6  | 5.72   | 1.10  |
| -3 | 1  | -6 | 3.29   | 1.08  |
| 4  | 1  | 6  | 142.87 | 5.48  |
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| 4  | -1 | 6  | 137.43 | 5.22  |
| -4 | 1  | -6 | 133.20 | 5.19  |
| -4 | -1 | -6 | 141.24 | 5.15  |
| 5  | 1  | 6  | 10.18  | 1.76  |
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| 5  | -1 | 6  | 8.63   | 1.61  |
| 6  | -1 | 6  | 3.81   | 1.50  |
| -6 | -1 | -6 | 3.18   | 1.32  |
| 6  | 1  | 6  | 3.18   | 1.39  |
| -6 | 1  | -6 | 4.67   | 1.42  |

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|-----|----|----|--------|------|
| -7  | 1  | -6 | 8.05   | 1.90 |
| 7   | -1 | 6  | 12.01  | 2.16 |
| 7   | 1  | 6  | 13.20  | 2.31 |
| -8  | -1 | -6 | 1.86   | 1.47 |
| 8   | -1 | 6  | -1.37  | 1.17 |
| -8  | 1  | -6 | 0.25   | 1.22 |
| 8   | 1  | 6  | -0.81  | 1.17 |
| -9  | -1 | -6 | 10.66  | 2.35 |
| -9  | 1  | -6 | 4.37   | 1.87 |
| 9   | 1  | 6  | 0.56   | 1.37 |
| 9   | -1 | 6  | 5.48   | 2.32 |
| 10  | 1  | 6  | 0.40   | 1.68 |
| -10 | 1  | -6 | -0.58  | 1.68 |
| 10  | -1 | 6  | -1.30  | 1.86 |
| -10 | -1 | -6 | 0.92   | 1.90 |
| 11  | 2  | -6 | 4.67   | 2.61 |
| -11 | 2  | 6  | 0.03   | 1.79 |
| -10 | -2 | 6  | 9.57   | 2.49 |
| -10 | 2  | 6  | 7.88   | 2.31 |
| -9  | -2 | 6  | 1.56   | 1.59 |
| -9  | 2  | 6  | -0.88  | 1.54 |
| -8  | -2 | 6  | 7.36   | 1.76 |
| -8  | 2  | 6  | 9.63   | 1.99 |
| -7  | -2 | 6  | 1.39   | 1.01 |
| -7  | 2  | 6  | 1.06   | 1.24 |
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| -6  | -2 | 6  | 52.86  | 2.85 |
| 6   | -2 | -6 | 55.56  | 3.04 |
| 6   | 2  | -6 | 53.49  | 2.95 |
| 5   | 2  | -6 | 5.75   | 1.10 |
| -5  | 2  | 6  | 4.04   | 1.21 |
| 5   | -2 | -6 | 5.47   | 1.26 |
| -5  | -2 | 6  | 4.32   | 0.94 |
| 4   | -2 | -6 | 30.65  | 2.16 |
| -4  | 2  | 6  | 31.61  | 2.25 |
| -4  | -2 | 6  | 33.06  | 1.76 |
| 4   | 2  | -6 | 29.23  | 1.89 |
| -4  | 2  | 6  | 30.81  | 1.15 |
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| 3   | -2 | -6 | 136.25 | 4.87 |
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| 2   | -2 | -6 | 161.00 | 5.36 |
| -1  | 2  | 6  | 3.70   | 1.04 |
| 1   | 2  | -6 | 2.82   | 1.03 |
| -1  | -2 | 6  | 4.64   | 0.45 |
| 1   | -2 | -6 | 3.74   | 1.03 |
| 0   | 2  | 6  | 1.87   | 0.96 |
| 0   | 2  | -6 | 0.80   | 0.57 |
| 0   | -2 | 6  | 1.26   | 0.47 |
| 0   | -2 | -6 | 1.14   | 0.88 |
| 0   | 2  | -6 | 0.86   | 0.94 |
| -1  | -2 | -6 | 116.23 | 4.22 |
| -1  | 2  | -6 | 119.34 | 4.51 |
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| 1   | -2 | 6  | 117.81 | 3.69 |
| -1  | 2  | -6 | 121.74 | 3.86 |

|     |    |    |        |      |
|-----|----|----|--------|------|
| 1   | 2  | 6  | 118.32 | 4.58 |
| -2  | -2 | -6 | 1.15   | 0.66 |
| -2  | -2 | -6 | 2.04   | 0.97 |
| -2  | 2  | -6 | 0.81   | 0.59 |
| 2   | 2  | 6  | 2.46   | 1.04 |
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| -2  | 2  | -6 | 1.20   | 0.97 |
| -3  | -2 | -6 | 94.21  | 3.70 |
| -3  | -2 | -6 | 91.45  | 3.74 |
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| 3   | -2 | 6  | 93.66  | 3.73 |
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| 4   | -2 | 6  | 26.89  | 2.12 |
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| 6   | -3 | -6 | 26.73  | 2.37 |
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| 5   | 3  | -6 | 0.23   | 0.80 |
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| 4   | 3  | -6 | 42.17  | 2.51 |
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| 3   | 3  | -6 | 164.44 | 4.36 |
| 3   | 3  | -6 | 162.14 | 5.49 |
| 2   | 3  | -6 | 27.18  | 2.06 |

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| 2  | -3 | -6 | 23.53  | 1.94 |
| -2 | 3  | 6  | 24.45  | 1.23 |
| -1 | 3  | 6  | -0.31  | 0.80 |
| -1 | 3  | 6  | 0.21   | 0.41 |
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| 0  | -3 | 6  | 315.30 | 7.59 |
| 0  | 3  | 6  | 299.01 | 9.25 |
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| -1 | -3 | -6 | 41.40  | 2.48 |
| -1 | 3  | -6 | 34.35  | 2.65 |
| 1  | 3  | 6  | 42.15  | 2.74 |
| 1  | -3 | 6  | 40.12  | 1.78 |
| -2 | 3  | -6 | 0.20   | 1.20 |
| 2  | 3  | 6  | 0.20   | 0.87 |
| 2  | -3 | 6  | 2.46   | 0.80 |
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| -2 | -3 | -6 | 0.57   | 0.84 |
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| 3  | 3  | 6  | 1.28   | 1.09 |
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| 6  | 3  | 6  | 24.14  | 2.78 |
| 7  | 3  | 6  | 4.90   | 1.90 |
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| 8  | 3  | 6  | 23.82  | 3.36 |
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| 8  | 4  | -6 | 5.69   | 2.00 |
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| 4  | 4  | -6 | 28.06  | 2.42 |
| 3  | 4  | -6 | 69.05  | 3.51 |
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| -2 | 4  | 6  | 79.07  | 2.88 |

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| -2  | 4  | 6  | 74.74  | 3.80 |
| 2   | 4  | -6 | 74.32  | 3.70 |
| 2   | -4 | -6 | 80.02  | 3.74 |
| -1  | 4  | 6  | 66.47  | 2.69 |
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| 0   | -4 | -6 | -0.35  | 0.88 |
| 0   | 4  | 6  | 0.49   | 0.60 |
| 0   | 4  | 6  | 0.99   | 1.17 |
| -1  | 4  | -6 | 111.46 | 5.05 |
| -1  | -4 | -6 | 108.79 | 4.56 |
| -1  | 4  | -6 | 109.84 | 3.53 |
| 1   | 4  | 6  | 110.06 | 4.90 |
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| -2  | -4 | -6 | 219.04 | 7.32 |
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| 10  | 5  | -6 | -0.61  | 2.64 |
| 9   | 5  | -6 | 1.91   | 2.19 |
| -9  | 5  | 6  | 0.90   | 1.71 |
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| 2  | 5  | 6  | 26.26 | 2.78 |
| -2 | 5  | -6 | 26.67 | 3.09 |
| -3 | 5  | -6 | 5.26  | 1.99 |
| 3  | 5  | 6  | 7.00  | 1.98 |
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| 4  | 5  | 6  | 35.63 | 3.46 |
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| 5  | 5  | 6  | 21.37 | 2.90 |
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| 6  | 5  | 6  | 8.66  | 2.46 |
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| -7 | 5  | -6 | -1.36 | 1.34 |
| 7  | 5  | 6  | -1.23 | 1.65 |
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| 8  | 5  | 6  | 9.21  | 2.81 |
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| 10 | 6  | -6 | 5.78  | 3.14 |
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| 9  | 6  | -6 | -1.21 | 1.91 |
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| 8  | 6  | -6 | 4.63  | 2.26 |
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| 1  | 6  | -6 | 49.45 | 3.73 |
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| 0  | 6  | 6  | 96.46 | 4.20 |
| 0  | 6  | 6  | 97.25 | 5.05 |

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|----|----|----|--------|------|
| 0  | -6 | -6 | 90.45  | 4.53 |
| -1 | 6  | -6 | 144.45 | 6.89 |
| 1  | 6  | 6  | 150.23 | 6.50 |
| 1  | 6  | 6  | 141.17 | 5.55 |
| 2  | 6  | 6  | 37.03  | 3.30 |
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| 2  | 6  | 6  | 36.52  | 2.83 |
| 3  | 6  | 6  | 3.30   | 1.80 |
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| 4  | 6  | 6  | 1.68   | 1.71 |
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| 5  | 6  | 6  | 1.73   | 1.72 |
| 6  | 6  | 6  | 7.53   | 2.49 |
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| -7 | 6  | -6 | 1.52   | 1.81 |
| 7  | 6  | 6  | 0.31   | 1.98 |
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| 8  | 6  | 6  | 3.61   | 2.68 |
| 8  | 7  | -6 | 2.73   | 2.42 |
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| 7  | 7  | -6 | -2.10  | 1.60 |
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| 1  | 7  | -6 | -0.15  | 1.35 |
| 0  | 7  | 6  | 129.57 | 5.43 |
| 0  | 7  | -6 | 125.83 | 6.55 |
| 0  | 7  | 6  | 123.70 | 6.03 |
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| 1  | 7  | 6  | 17.62  | 2.74 |
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| 2  | 7  | 6  | 7.33   | 1.93 |
| 2  | 7  | 6  | 4.73   | 2.00 |
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| 3  | 7  | 6  | 0.27   | 1.35 |
| 3  | 7  | 6  | 0.80   | 1.81 |
| 4  | 7  | 6  | 9.77   | 2.62 |
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| 4  | 7  | 6  | 8.50   | 2.07 |
| 5  | 7  | 6  | 3.72   | 1.85 |
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| 5  | 7  | 6  | 1.39   | 1.98 |
| -6 | 7  | -6 | 2.89   | 2.21 |
| 6  | 7  | 6  | 2.96   | 2.50 |
| -7 | 7  | -6 | 3.35   | 2.40 |
| 7  | 7  | 6  | -1.38  | 2.43 |
| 7  | 8  | -6 | -4.07  | 1.53 |

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| 6   | 8  | -6 | 0.65  | 1.93 |
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| 5   | 8  | -6 | 5.91  | 2.33 |
| -4  | 8  | 6  | 0.94  | 1.53 |
| 4   | 8  | -6 | -2.95 | 1.50 |
| 3   | 8  | -6 | 12.26 | 2.65 |
| -3  | 8  | 6  | 13.22 | 2.49 |
| 2   | 8  | -6 | 0.98  | 1.78 |
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| 0   | 8  | -6 | 13.74 | 3.12 |
| 0   | 8  | 6  | 11.71 | 2.38 |
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| 1   | 8  | 6  | 6.46  | 2.28 |
| 2   | 8  | 6  | 0.32  | 1.65 |
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| 3   | 8  | 6  | -2.06 | 1.44 |
| 3   | 8  | 6  | -2.01 | 1.57 |
| 4   | 8  | 6  | -0.71 | 2.08 |
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| 5   | 8  | 6  | 2.72  | 2.16 |
| 5   | 8  | 6  | 1.58  | 2.42 |
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| 6   | 8  | 6  | -1.15 | 2.73 |
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| 1   | 9  | 6  | 4.25  | 2.31 |
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| 2   | 9  | 6  | 1.37  | 2.28 |
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| -3  | 9  | -6 | 0.55  | 2.65 |
| 4   | 9  | 6  | 16.87 | 3.45 |
| -4  | 9  | -6 | 16.68 | 4.01 |
| 5   | 9  | 6  | -3.04 | 2.03 |
| 2   | 10 | -6 | -2.29 | 2.66 |
| 1   | 10 | -6 | 3.77  | 3.18 |
| 0   | 10 | -6 | -2.79 | 2.70 |
| -1  | 10 | -6 | 3.31  | 3.50 |
| -12 | 0  | 7  | 1.25  | 2.62 |
| -11 | 0  | 7  | 7.21  | 2.61 |

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|-----|----|----|---------|-------|
| -10 | 0  | 7  | 1.99    | 1.86  |
| -9  | 0  | 7  | 18.56   | 2.52  |
| -8  | 0  | 7  | -0.70   | 1.10  |
| 8   | 0  | -7 | 0.15    | 1.06  |
| -7  | 0  | 7  | 18.97   | 2.17  |
| 7   | 0  | -7 | 22.28   | 2.22  |
| 6   | 0  | -7 | -0.82   | 0.72  |
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| -5  | 0  | 7  | 59.54   | 3.02  |
| 5   | 0  | -7 | 61.06   | 3.18  |
| 5   | 0  | -7 | 61.63   | 2.39  |
| 4   | 0  | -7 | 3.19    | 1.00  |
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| 3   | 0  | -7 | 576.00  | 13.32 |
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| -1  | 0  | 7  | 796.82  | 19.43 |
| 1   | 0  | -7 | 785.11  | 19.31 |
| 1   | 0  | -7 | 801.78  | 18.41 |
| 0   | 0  | -7 | 1.01    | 0.71  |
| 0   | 0  | -7 | 0.63    | 0.73  |
| 0   | 0  | 7  | 0.58    | 0.73  |
| 1   | 0  | 7  | 1026.84 | 25.20 |
| -1  | 0  | -7 | 1052.52 | 24.37 |
| -1  | 0  | -7 | 1036.91 | 24.54 |
| -2  | 0  | -7 | -0.26   | 0.81  |
| 2   | 0  | 7  | -0.01   | 0.65  |
| -2  | 0  | -7 | -0.24   | 0.65  |
| -3  | 0  | -7 | 70.46   | 2.92  |
| 3   | 0  | 7  | 66.20   | 3.28  |
| -3  | 0  | -7 | 70.55   | 3.36  |
| 4   | 0  | 7  | -0.02   | 0.82  |
| -4  | 0  | -7 | -0.10   | 0.83  |
| 5   | 0  | 7  | 9.42    | 1.84  |
| -5  | 0  | -7 | 8.17    | 1.64  |
| -6  | 0  | -7 | 0.85    | 1.07  |
| 6   | 0  | 7  | -0.08   | 1.14  |
| 7   | 0  | 7  | 16.78   | 2.74  |
| -8  | 0  | -7 | -0.30   | 1.22  |
| 8   | 0  | 7  | -0.74   | 1.48  |
| 9   | 0  | 7  | -0.26   | 1.77  |
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| -11 | 1  | 7  | 4.87    | 2.32  |
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| 8   | 1  | -7 | 6.62    | 1.64  |
| -8  | -1 | 7  | 6.79    | 1.69  |
| -7  | -1 | 7  | 0.87    | 1.03  |
| 7   | 1  | -7 | 1.15    | 0.96  |
| 7   | -1 | -7 | 1.42    | 1.19  |
| -7  | 1  | 7  | -0.15   | 1.14  |
| 6   | -1 | -7 | 12.65   | 1.72  |

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|----|----|----|--------|------|
| -6 | 1  | 7  | 12.84  | 1.75 |
| 6  | 1  | -7 | 10.87  | 1.59 |
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| 6  | 1  | -7 | 11.72  | 1.39 |
| -5 | -1 | 7  | 0.20   | 0.64 |
| 5  | 1  | -7 | 0.17   | 0.62 |
| 5  | 1  | -7 | 0.57   | 0.83 |
| -5 | 1  | 7  | -0.33  | 0.82 |
| 5  | -1 | -7 | 0.24   | 0.86 |
| 4  | -1 | -7 | 99.44  | 4.10 |
| 4  | -1 | -7 | 103.05 | 2.70 |
| -4 | 1  | 7  | 101.75 | 4.14 |
| 4  | 1  | -7 | 106.46 | 3.53 |
| 4  | 1  | -7 | 105.31 | 4.20 |
| -4 | -1 | 7  | 106.17 | 3.74 |
| 3  | 1  | -7 | 0.54   | 0.66 |
| -3 | 1  | 7  | -0.57  | 0.60 |
| -3 | -1 | 7  | 0.72   | 0.55 |
| 3  | -1 | -7 | 2.40   | 0.95 |
| 3  | 1  | -7 | 0.43   | 0.62 |
| 2  | -1 | -7 | 209.15 | 6.48 |
| 2  | 1  | -7 | 203.92 | 5.85 |
| -2 | -1 | 7  | 210.71 | 5.68 |
| 2  | 1  | -7 | 209.29 | 6.38 |
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| 1  | -1 | -7 | 29.65  | 1.25 |
| -1 | 1  | 7  | 32.67  | 2.06 |
| 1  | 1  | -7 | 28.12  | 1.83 |
| -1 | -1 | 7  | 27.52  | 1.56 |
| 0  | 1  | -7 | 0.64   | 0.86 |
| 0  | -1 | -7 | 1.77   | 0.88 |
| 0  | -1 | -7 | 1.55   | 0.57 |
| 0  | -1 | 7  | 1.39   | 0.68 |
| 0  | 1  | -7 | 0.16   | 0.62 |
| 0  | 1  | 7  | 2.73   | 0.95 |
| 1  | -1 | 7  | 16.17  | 1.35 |
| -1 | -1 | -7 | 12.03  | 1.18 |
| -1 | -1 | -7 | 15.36  | 1.53 |
| -1 | 1  | -7 | 15.19  | 1.35 |
| -1 | 1  | -7 | 13.56  | 1.49 |
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| 2  | 1  | 7  | 193.53 | 6.50 |
| 2  | -1 | 7  | 193.72 | 6.08 |
| -2 | -1 | -7 | 193.51 | 6.01 |
| -2 | 1  | -7 | 199.17 | 6.34 |
| -2 | -1 | -7 | 197.86 | 6.01 |
| -3 | -1 | -7 | 24.65  | 1.88 |
| 3  | -1 | 7  | 21.68  | 1.79 |
| -3 | 1  | -7 | 25.54  | 2.18 |
| -3 | 1  | -7 | 22.23  | 1.62 |
| 3  | 1  | 7  | 24.07  | 2.10 |
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| -4 | 1  | -7 | -1.02  | 0.92 |
| 4  | -1 | 7  | 2.28   | 1.02 |
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| -4 | -1 | -7 | 1.39   | 0.99 |
| 4  | 1  | 7  | 1.26   | 1.05 |

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|-----|----|----|--------|------|
| 5   | 1  | 7  | 3.24   | 1.41 |
| -5  | -1 | -7 | 2.21   | 1.13 |
| 5   | -1 | 7  | 4.64   | 1.38 |
| -5  | 1  | -7 | 4.15   | 1.40 |
| 6   | -1 | 7  | 0.67   | 1.23 |
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| 6   | 1  | 7  | -0.62  | 1.08 |
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| 7   | -1 | 7  | 55.90  | 3.97 |
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| 7   | 1  | 7  | 59.12  | 4.23 |
| -7  | -1 | -7 | 59.45  | 3.86 |
| 8   | 1  | 7  | 16.82  | 2.90 |
| -8  | 1  | -7 | 16.29  | 2.62 |
| 8   | -1 | 7  | 14.51  | 2.71 |
| 9   | -1 | 7  | 3.06   | 2.09 |
| -9  | 1  | -7 | 1.63   | 1.60 |
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| 9   | 1  | 7  | 0.47   | 1.65 |
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| -9  | 2  | 7  | -0.80  | 1.46 |
| 9   | 2  | -7 | 0.52   | 1.19 |
| 8   | 2  | -7 | 15.24  | 2.16 |
| -8  | -2 | 7  | 12.76  | 2.04 |
| -8  | 2  | 7  | 15.39  | 2.38 |
| 7   | 2  | -7 | -1.19  | 0.87 |
| -7  | 2  | 7  | 0.43   | 1.21 |
| -7  | -2 | 7  | 0.52   | 0.91 |
| 7   | -2 | -7 | 0.89   | 1.31 |
| 6   | 2  | -7 | 5.88   | 1.25 |
| -6  | 2  | 7  | 3.50   | 1.43 |
| -6  | -2 | 7  | 3.87   | 1.09 |
| 6   | -2 | -7 | 4.53   | 1.42 |
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| 5   | -2 | -7 | 32.89  | 2.45 |
| 4   | 2  | -7 | 4.08   | 0.97 |
| 4   | -2 | -7 | 4.53   | 1.21 |
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| -4  | 2  | 7  | 6.18   | 1.29 |
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| 3   | -2 | -7 | 31.51  | 2.30 |
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| 1   | 2  | -7 | 107.54 | 4.03 |
| -1  | -2 | 7  | 102.35 | 3.01 |
| 0   | 2  | 7  | 0.15   | 0.87 |
| 0   | 2  | -7 | 1.44   | 1.03 |
| 0   | 2  | -7 | -0.08  | 0.59 |
| 0   | -2 | 7  | 0.66   | 0.55 |
| 0   | -2 | -7 | 0.98   | 0.92 |
| 0   | -2 | -7 | 0.32   | 0.46 |

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| -1  | 2  | -7 | 220.73 | 6.41 |
| -1  | -2 | -7 | 221.11 | 6.25 |
| -1  | -2 | -7 | 224.29 | 6.87 |
| 1   | 2  | 7  | 225.39 | 7.30 |
| 1   | -2 | 7  | 210.67 | 6.17 |
| -1  | 2  | -7 | 218.13 | 7.04 |
| 2   | -2 | 7  | 58.09  | 2.72 |
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| -2  | -2 | -7 | 56.54  | 2.73 |
| 2   | 2  | 7  | 64.74  | 3.38 |
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| 3   | -2 | 7  | 2.04   | 0.90 |
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| 3   | 2  | 7  | 2.90   | 1.24 |
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| -3  | -2 | -7 | 2.03   | 1.06 |
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| -4  | -2 | -7 | -0.14  | 0.91 |
| 4   | -2 | 7  | 1.61   | 0.98 |
| -4  | -2 | -7 | 0.76   | 0.79 |
| 4   | 2  | 7  | 1.50   | 1.25 |
| 5   | 2  | 7  | 60.72  | 3.90 |
| -5  | -2 | -7 | 79.23  | 4.04 |
| 5   | -2 | 7  | 72.12  | 3.90 |
| 6   | -2 | 7  | 5.54   | 1.75 |
| -6  | 2  | -7 | 7.74   | 1.79 |
| -6  | -2 | -7 | 4.14   | 1.46 |
| -7  | 2  | -7 | 34.82  | 3.19 |
| 7   | -2 | 7  | 32.70  | 3.22 |
| -7  | -2 | -7 | 37.25  | 3.41 |
| 8   | 2  | 7  | 1.37   | 1.73 |
| -8  | -2 | -7 | 2.68   | 1.68 |
| 8   | -2 | 7  | 0.26   | 1.62 |
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| -9  | 2  | -7 | 0.92   | 1.64 |
| 9   | 2  | 7  | 2.26   | 2.12 |
| 9   | -2 | 7  | -0.99  | 1.64 |
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| -11 | 3  | 7  | 1.44   | 2.22 |
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| 9   | 3  | -7 | 11.53  | 2.54 |
| -8  | 3  | 7  | 22.71  | 2.88 |
| 8   | 3  | -7 | 27.34  | 2.88 |
| 7   | 3  | -7 | 0.93   | 1.19 |
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| 6   | 3  | -7 | 124.04 | 5.12 |
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| 4   | 3  | -7 | 12.33  | 1.54 |
| 4   | -3 | -7 | 11.08  | 1.75 |
| 3   | 3  | -7 | 134.15 | 4.94 |
| 3   | -3 | -7 | 140.43 | 5.29 |
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| -2  | 3  | 7  | 2.39   | 0.56 |
| 2   | 3  | -7 | 4.15   | 1.18 |
| 2   | -3 | -7 | 5.09   | 1.23 |
| 1   | 3  | -7 | 327.29 | 9.48 |
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| 0   | -3 | -7 | 177.73 | 5.90 |
| 0   | 3  | -7 | 164.97 | 6.07 |
| 0   | -3 | 7  | 166.14 | 4.51 |
| 1   | -3 | 7  | 2.82   | 0.67 |
| -1  | 3  | -7 | 1.64   | 0.79 |
| 1   | 3  | 7  | 1.17   | 0.93 |
| -1  | -3 | -7 | 1.82   | 1.12 |
| -1  | 3  | -7 | 2.87   | 1.38 |
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| 3   | 3  | 7  | 21.22  | 2.35 |
| -3  | 3  | -7 | 21.65  | 2.42 |
| 4   | 3  | 7  | 2.94   | 1.49 |
| -4  | 3  | -7 | 0.77   | 0.65 |
| 4   | -3 | 7  | 2.85   | 1.08 |
| 5   | -3 | 7  | 15.87  | 2.06 |
| -5  | 3  | -7 | 15.33  | 2.28 |
| 5   | 3  | 7  | 11.89  | 2.34 |
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| 6   | 3  | 7  | 9.52   | 2.36 |
| 6   | -3 | 7  | 6.82   | 1.80 |
| 7   | 3  | 7  | -0.20  | 1.43 |
| 7   | -3 | 7  | 2.60   | 1.60 |
| -7  | 3  | -7 | 1.81   | 1.44 |
| -8  | 3  | -7 | -0.04  | 1.39 |
| 8   | 3  | 7  | 0.13   | 1.58 |
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| 9   | 3  | 7  | 11.18  | 2.91 |
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| 6   | 4  | -7 | 146.50 | 6.12 |
| 6   | -4 | -7 | 152.00 | 5.82 |
| 5   | -4 | -7 | 19.05  | 2.16 |
| -5  | 4  | 7  | 13.78  | 2.09 |
| 5   | 4  | -7 | 16.57  | 2.09 |
| -4  | 4  | 7  | 8.35   | 1.81 |
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| 4   | 4  | -7 | 10.85  | 1.74 |
| 3   | 4  | -7 | 63.11  | 3.40 |
| 3   | -4 | -7 | 59.68  | 3.38 |

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| -3  | 4  | 7  | 60.06  | 3.52 |
| 2   | 4  | -7 | 2.13   | 1.29 |
| 2   | -4 | -7 | 1.30   | 1.20 |
| -2  | 4  | 7  | 2.56   | 1.15 |
| 1   | -4 | -7 | 120.53 | 4.94 |
| -1  | 4  | 7  | 121.56 | 3.89 |
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| 1   | 4  | -7 | 116.87 | 5.16 |
| 0   | 4  | -7 | 86.14  | 4.45 |
| 0   | 4  | 7  | 83.80  | 4.35 |
| 1   | 4  | 7  | 157.44 | 6.31 |
| -1  | -4 | -7 | 154.91 | 5.81 |
| -1  | 4  | -7 | 159.59 | 6.51 |
| -2  | -4 | -7 | 2.82   | 1.25 |
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| 2   | 4  | 7  | 5.02   | 1.71 |
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| -3  | -4 | -7 | 42.07  | 2.94 |
| 3   | 4  | 7  | 37.48  | 3.26 |
| 4   | -4 | 7  | 4.89   | 1.41 |
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| 4   | 4  | 7  | 6.71   | 1.93 |
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| 5   | -4 | 7  | 2.47   | 1.43 |
| 5   | 4  | 7  | 1.94   | 1.55 |
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| 6   | -4 | 7  | 27.60  | 2.76 |
| 6   | 4  | 7  | 30.38  | 3.39 |
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| 10  | 5  | -7 | -0.29  | 2.65 |
| -9  | 5  | 7  | 2.70   | 1.99 |
| 9   | 5  | -7 | -0.01  | 2.05 |
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| 8   | 5  | -7 | 2.27   | 1.86 |
| -7  | 5  | 7  | 46.17  | 4.03 |
| 7   | 5  | -7 | 45.13  | 3.86 |
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| 3   | 5  | -7 | 15.99  | 2.18 |
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| 2   | 5  | -7 | 9.29   | 1.94 |
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| 1   | -5 | -7 | 0.17   | 1.03 |

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|----|----|----|--------|------|
| 1  | 5  | -7 | 1.78   | 1.47 |
| -1 | 5  | 7  | -1.07  | 1.18 |
| 0  | 5  | 7  | 20.09  | 1.75 |
| 0  | 5  | -7 | 17.05  | 2.52 |
| 0  | 5  | 7  | 20.48  | 2.57 |
| 0  | -5 | -7 | 20.52  | 2.26 |
| 1  | 5  | 7  | 158.90 | 6.64 |
| -1 | -5 | -7 | 145.59 | 5.97 |
| -1 | 5  | -7 | 150.17 | 6.75 |
| -2 | 5  | -7 | 0.27   | 0.98 |
| 2  | 5  | 7  | 0.58   | 1.71 |
| -2 | -5 | -7 | 1.40   | 1.24 |
| 3  | 5  | 7  | 16.00  | 2.53 |
| -3 | 5  | -7 | 17.48  | 2.75 |
| -4 | 5  | -7 | 24.80  | 3.04 |
| 4  | 5  | 7  | 25.05  | 3.03 |
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| 5  | 5  | 7  | 42.02  | 3.94 |
| 6  | 5  | 7  | 4.60   | 2.00 |
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| 7  | 5  | 7  | 2.24   | 2.15 |
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| -8 | 5  | -7 | 0.76   | 1.78 |
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| 10 | 6  | -7 | 3.20   | 3.06 |
| 9  | 6  | -7 | -2.01  | 2.16 |
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| 8  | 6  | -7 | 6.30   | 2.53 |
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| 5  | -6 | -7 | 2.27   | 1.42 |
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| 5  | 6  | -7 | 1.26   | 1.52 |
| 4  | 6  | -7 | 0.27   | 1.25 |
| -4 | 6  | 7  | -0.57  | 1.28 |
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| 3  | -6 | -7 | 0.40   | 1.21 |
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| 2  | -6 | -7 | 37.30  | 3.06 |
| 2  | 6  | -7 | 28.90  | 3.07 |
| -2 | 6  | 7  | 33.43  | 3.11 |
| -1 | 6  | 7  | 77.54  | 4.46 |
| 1  | 6  | -7 | 66.20  | 4.52 |
| 1  | -6 | -7 | 85.68  | 4.44 |
| 0  | -6 | -7 | 16.59  | 2.24 |
| 0  | 6  | -7 | 17.26  | 2.81 |
| 0  | 6  | 7  | 19.37  | 2.70 |
| 0  | 6  | 7  | 17.91  | 2.04 |
| 1  | 6  | 7  | 11.56  | 1.76 |
| 1  | 6  | 7  | 10.20  | 2.19 |
| -2 | 6  | -7 | 3.61   | 2.17 |
| 2  | 6  | 7  | 5.75   | 2.03 |
| 2  | 6  | 7  | 2.50   | 1.36 |
| -3 | 6  | -7 | 1.64   | 1.93 |
| 3  | 6  | 7  | 1.07   | 1.71 |
| 4  | 6  | 7  | 21.31  | 3.16 |

|    |    |    |       |      |
|----|----|----|-------|------|
| -4 | 6  | -7 | 13.40 | 2.85 |
| 5  | 6  | 7  | -0.51 | 1.75 |
| -5 | 6  | -7 | 3.00  | 2.04 |
| 6  | 6  | 7  | -2.00 | 1.79 |
| -6 | 6  | -7 | 4.82  | 2.18 |
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| 7  | 6  | 7  | 4.97  | 2.69 |
| -8 | 7  | 7  | 2.54  | 2.02 |
| 8  | 7  | -7 | 0.65  | 2.22 |
| -7 | 7  | 7  | 5.77  | 2.35 |
| 7  | 7  | -7 | 2.92  | 2.25 |
| -6 | 7  | 7  | 12.79 | 2.71 |
| 6  | 7  | -7 | 10.61 | 2.76 |
| 5  | 7  | -7 | 1.49  | 1.69 |
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| 4  | -7 | -7 | 11.71 | 2.17 |
| 4  | 7  | -7 | 12.60 | 2.65 |
| 3  | -7 | -7 | 12.04 | 2.10 |
| 3  | 7  | -7 | 14.49 | 2.64 |
| -3 | 7  | 7  | 15.33 | 2.45 |
| 2  | 7  | -7 | 4.20  | 1.93 |
| -2 | 7  | 7  | 5.64  | 1.85 |
| 2  | -7 | -7 | 3.73  | 1.60 |
| 1  | 7  | -7 | 2.30  | 1.79 |
| -1 | 7  | 7  | 1.70  | 1.60 |
| 0  | 7  | -7 | -0.78 | 1.36 |
| 0  | 7  | 7  | 2.91  | 1.82 |
| 1  | 7  | 7  | 4.44  | 2.16 |
| 1  | 7  | 7  | 3.38  | 1.62 |
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| 2  | 7  | 7  | 1.88  | 1.42 |
| -2 | 7  | -7 | 1.15  | 2.22 |
| 2  | 7  | 7  | 1.54  | 1.86 |
| 3  | 7  | 7  | 6.16  | 2.28 |
| -3 | 7  | -7 | 9.94  | 2.99 |
| 3  | 7  | 7  | 10.94 | 2.19 |
| 4  | 7  | 7  | 1.36  | 1.93 |
| 4  | 7  | 7  | 4.14  | 1.78 |
| -4 | 7  | -7 | -0.52 | 2.00 |
| -5 | 7  | -7 | 3.19  | 2.16 |
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| -6 | 7  | -7 | 2.75  | 2.12 |
| 6  | 7  | 7  | 2.69  | 2.67 |
| -7 | 7  | -7 | 0.80  | 2.03 |
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| 7  | 8  | -7 | 3.05  | 2.43 |
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| -6 | 8  | 7  | 1.76  | 1.86 |
| 6  | 8  | -7 | 2.65  | 2.44 |
| 5  | 8  | -7 | -0.07 | 1.69 |
| -5 | 8  | 7  | 0.83  | 1.65 |
| -4 | 8  | 7  | 26.99 | 3.27 |
| 4  | 8  | -7 | 27.40 | 3.56 |
| 3  | 8  | -7 | 4.28  | 2.20 |
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| 2  | 8  | -7 | 0.57  | 1.86 |
| -2 | 8  | 7  | 0.02  | 1.59 |
| -1 | 8  | 7  | -0.22 | 1.66 |
| 1  | 8  | -7 | 0.63  | 1.83 |

|     |    |    |        |       |
|-----|----|----|--------|-------|
| 0   | 8  | 7  | 18.60  | 2.88  |
| 0   | 8  | -7 | 12.43  | 3.10  |
| 1   | 8  | 7  | 5.81   | 2.24  |
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| 2   | 8  | 7  | 0.44   | 1.94  |
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| 3   | 8  | 7  | 3.88   | 2.09  |
| -3  | 8  | -7 | 3.39   | 2.61  |
| 3   | 8  | 7  | 1.54   | 2.14  |
| 4   | 8  | 7  | 4.37   | 2.43  |
| 4   | 8  | 7  | 2.83   | 2.20  |
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| 5   | 8  | 7  | 2.77   | 2.10  |
| 5   | 8  | 7  | 0.79   | 2.62  |
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| 6   | 8  | 7  | -3.80  | 1.92  |
| 6   | 8  | 7  | -3.22  | 2.72  |
| -6  | 9  | 7  | -0.40  | 2.09  |
| -5  | 9  | 7  | 2.46   | 2.30  |
| 5   | 9  | -7 | -1.72  | 2.06  |
| -4  | 9  | 7  | 5.28   | 2.25  |
| 4   | 9  | -7 | -1.95  | 2.08  |
| -3  | 9  | 7  | 2.41   | 2.10  |
| 3   | 9  | -7 | 0.46   | 2.22  |
| 2   | 9  | -7 | -2.11  | 2.09  |
| -2  | 9  | 7  | 1.50   | 2.13  |
| 1   | 9  | -7 | 0.55   | 2.32  |
| -1  | 9  | 7  | 1.60   | 1.97  |
| 0   | 9  | -7 | 0.95   | 2.75  |
| 0   | 9  | 7  | 4.93   | 2.36  |
| -1  | 9  | -7 | 4.18   | 2.71  |
| 1   | 9  | 7  | -1.09  | 2.01  |
| 2   | 9  | 7  | -1.44  | 2.23  |
| -2  | 9  | -7 | 0.32   | 2.58  |
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| 3   | 9  | 7  | -0.34  | 2.60  |
| -4  | 9  | -7 | -1.33  | 2.64  |
| 4   | 9  | 7  | -2.59  | 2.53  |
| 4   | 9  | 7  | 1.23   | 2.55  |
| -4  | 10 | 7  | -0.34  | 2.35  |
| -3  | 10 | 7  | 0.47   | 2.17  |
| -2  | 10 | 7  | 4.15   | 2.61  |
| -12 | 0  | 8  | 0.78   | 2.60  |
| -11 | 0  | 8  | 1.82   | 1.99  |
| -10 | 0  | 8  | 10.45  | 2.46  |
| -9  | 0  | 8  | -0.56  | 1.41  |
| 8   | 0  | -8 | 23.87  | 2.50  |
| -8  | 0  | 8  | 26.89  | 2.71  |
| 7   | 0  | -8 | -0.84  | 1.00  |
| -7  | 0  | 8  | 0.52   | 1.17  |
| 6   | 0  | -8 | 17.34  | 2.00  |
| -6  | 0  | 8  | 13.10  | 1.72  |
| 5   | 0  | -8 | 0.49   | 0.98  |
| -5  | 0  | 8  | -0.36  | 0.76  |
| 5   | 0  | -8 | -0.10  | 0.59  |
| 4   | 0  | -8 | 382.91 | 9.28  |
| 4   | 0  | -8 | 382.59 | 10.83 |
| -4  | 0  | 8  | 384.91 | 10.52 |
| 3   | 0  | -8 | 0.20   | 0.63  |
| 3   | 0  | -8 | -0.02  | 0.76  |

|     |    |    |        |       |
|-----|----|----|--------|-------|
| -3  | 0  | 8  | 0.54   | 0.70  |
| 2   | 0  | -8 | 256.46 | 6.53  |
| -2  | 0  | 8  | 243.99 | 7.15  |
| 1   | 0  | -8 | 0.62   | 0.67  |
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| 1   | 0  | -8 | 1.12   | 0.78  |
| 0   | 0  | 8  | 4.26   | 1.07  |
| 0   | 0  | -8 | 4.44   | 1.13  |
| 0   | 0  | -8 | 2.80   | 0.86  |
| -1  | 0  | -8 | 1.00   | 0.91  |
| -1  | 0  | -8 | -1.19  | 0.61  |
| 1   | 0  | 8  | -0.71  | 0.69  |
| -2  | 0  | -8 | 28.14  | 2.02  |
| 2   | 0  | 8  | 27.83  | 2.15  |
| -2  | 0  | -8 | 24.77  | 1.99  |
| -3  | 0  | -8 | -0.10  | 0.77  |
| 3   | 0  | 8  | -0.78  | 0.78  |
| -3  | 0  | -8 | 0.17   | 0.91  |
| -4  | 0  | -8 | 182.47 | 6.52  |
| 4   | 0  | 8  | 185.78 | 6.80  |
| 5   | 0  | 8  | 0.61   | 1.07  |
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| -6  | 0  | -8 | 15.23  | 2.22  |
| 6   | 0  | 8  | 13.75  | 2.32  |
| -7  | 0  | -8 | 0.60   | 1.14  |
| 7   | 0  | 8  | -0.14  | 1.35  |
| -8  | 0  | -8 | 0.06   | 1.11  |
| 8   | 0  | 8  | -0.31  | 1.51  |
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| 9   | 0  | 8  | -0.09  | 1.76  |
| -11 | 1  | 8  | 1.06   | 2.09  |
| -10 | -1 | 8  | 1.12   | 1.83  |
| -10 | 1  | 8  | -0.29  | 1.58  |
| -9  | 1  | 8  | 0.36   | 1.64  |
| -9  | -1 | 8  | 3.80   | 1.83  |
| 8   | 1  | -8 | 5.86   | 1.58  |
| -8  | -1 | 8  | 4.02   | 1.57  |
| -8  | 1  | 8  | 4.11   | 1.61  |
| 7   | -1 | -8 | 0.95   | 1.30  |
| -7  | 1  | 8  | 0.36   | 1.11  |
| 7   | 1  | -8 | 0.05   | 0.90  |
| -7  | -1 | 8  | -0.65  | 0.87  |
| 6   | 1  | -8 | 0.19   | 0.93  |
| 6   | 1  | -8 | 0.30   | 0.73  |
| 6   | -1 | -8 | 2.96   | 1.29  |
| -6  | 1  | 8  | 1.18   | 1.07  |
| -6  | -1 | 8  | 1.05   | 0.91  |
| 5   | 1  | -8 | 49.67  | 2.39  |
| 5   | -1 | -8 | 51.88  | 3.03  |
| -5  | 1  | 8  | 46.62  | 2.83  |
| 5   | 1  | -8 | 42.39  | 2.79  |
| -5  | -1 | 8  | 47.87  | 2.59  |
| 4   | 1  | -8 | 113.54 | 3.81  |
| 4   | 1  | -8 | 111.01 | 4.55  |
| -4  | -1 | 8  | 116.05 | 4.02  |
| 4   | -1 | -8 | 114.61 | 4.60  |
| -4  | 1  | 8  | 110.83 | 4.46  |
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| 3   | -1 | -8 | 478.67 | 13.03 |
| -3  | -1 | 8  | 489.45 | 12.28 |

|    |    |    |        |       |
|----|----|----|--------|-------|
| 3  | 1  | -8 | 494.89 | 12.05 |
| 3  | 1  | -8 | 465.02 | 12.93 |
| 2  | -1 | -8 | 7.56   | 0.59  |
| 2  | 1  | -8 | 5.09   | 1.09  |
| 2  | -1 | -8 | 7.07   | 1.34  |
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| 2  | 1  | -8 | 5.32   | 1.09  |
| -2 | -1 | 8  | 6.32   | 0.90  |
| 1  | 1  | -8 | 71.84  | 3.26  |
| -1 | -1 | 8  | 78.39  | 2.91  |
| 1  | 1  | -8 | 75.14  | 3.15  |
| 1  | -1 | -8 | 76.24  | 2.43  |
| -1 | 1  | 8  | 77.51  | 3.48  |
| 1  | -1 | -8 | 70.45  | 3.36  |
| 0  | -1 | -8 | 232.26 | 6.34  |
| 0  | -1 | -8 | 242.00 | 7.34  |
| 0  | -1 | 8  | 236.75 | 6.81  |
| 0  | 1  | 8  | 235.46 | 7.40  |
| 0  | 1  | -8 | 242.92 | 7.10  |
| 0  | 1  | -8 | 236.47 | 7.01  |
| -1 | -1 | -8 | 5.56   | 1.20  |
| -1 | 1  | -8 | 6.95   | 1.33  |
| 1  | -1 | 8  | 6.09   | 1.06  |
| -1 | 1  | -8 | 7.65   | 1.18  |
| 1  | 1  | 8  | 9.92   | 1.51  |
| -1 | -1 | -8 | 7.74   | 1.04  |
| -2 | -1 | -8 | 174.89 | 5.71  |
| 2  | 1  | 8  | 179.76 | 6.20  |
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| 2  | -1 | 8  | 173.94 | 5.80  |
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| -3 | -1 | -8 | 1.33   | 1.02  |
| 3  | 1  | 8  | -0.35  | 0.99  |
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| 3  | -1 | 8  | 1.56   | 0.90  |
| -4 | -1 | -8 | 59.38  | 3.28  |
| 4  | 1  | 8  | 56.69  | 3.49  |
| 4  | -1 | 8  | 50.17  | 3.12  |
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| 5  | 1  | 8  | 5.34   | 1.66  |
| 5  | -1 | 8  | 3.51   | 1.53  |
| -5 | 1  | -8 | 4.93   | 1.43  |
| -5 | -1 | -8 | 6.88   | 1.53  |
| -6 | -1 | -8 | -0.15  | 0.97  |
| 6  | -1 | 8  | 0.80   | 1.42  |
| 6  | 1  | 8  | 1.86   | 1.46  |
| -6 | 1  | -8 | 1.58   | 1.20  |
| -7 | -1 | -8 | -0.52  | 1.06  |
| 7  | 1  | 8  | 1.27   | 1.57  |
| -7 | 1  | -8 | 1.18   | 1.02  |
| 7  | -1 | 8  | 0.00   | 1.39  |
| -8 | 1  | -8 | 1.06   | 1.59  |
| 8  | 1  | 8  | 0.63   | 1.53  |
| 8  | -1 | 8  | -0.64  | 1.70  |
| -8 | -1 | -8 | -0.69  | 1.29  |
| 9  | 1  | 8  | 1.87   | 2.02  |

|     |    |    |        |      |
|-----|----|----|--------|------|
| 9   | -1 | 8  | -2.99  | 1.63 |
| -9  | -1 | -8 | 0.01   | 1.39 |
| -9  | 1  | -8 | 3.77   | 1.84 |
| -11 | 2  | 8  | -3.18  | 1.70 |
| -10 | 2  | 8  | 0.88   | 2.00 |
| -9  | 2  | 8  | 7.68   | 2.19 |
| 9   | 2  | -8 | 9.50   | 1.96 |
| -8  | 2  | 8  | 4.35   | 1.70 |
| 8   | 2  | -8 | 4.99   | 1.47 |
| 7   | 2  | -8 | -0.24  | 0.93 |
| 7   | -2 | -8 | -1.58  | 1.18 |
| 7   | 2  | -8 | 1.24   | 1.11 |
| -7  | 2  | 8  | 0.60   | 1.34 |
| -6  | -2 | 8  | 139.17 | 5.06 |
| 6   | 2  | -8 | 135.63 | 5.77 |
| 6   | -2 | -8 | 139.17 | 5.52 |
| -6  | 2  | 8  | 137.59 | 5.77 |
| 6   | 2  | -8 | 138.01 | 5.04 |
| 5   | 2  | -8 | 2.86   | 0.97 |
| 5   | -2 | -8 | 2.65   | 1.27 |
| -5  | -2 | 8  | 3.63   | 0.92 |
| -5  | 2  | 8  | -0.06  | 0.95 |
| -4  | -2 | 8  | 35.49  | 1.88 |
| 4   | 2  | -8 | 36.23  | 2.22 |
| 4   | 2  | -8 | 38.28  | 2.66 |
| 4   | -2 | -8 | 39.48  | 2.63 |
| -4  | 2  | 8  | 38.89  | 2.72 |
| 3   | 2  | -8 | 18.68  | 1.69 |
| 3   | -2 | -8 | 16.55  | 1.88 |
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| -3  | 2  | 8  | 18.89  | 1.88 |
| 2   | 2  | -8 | 67.54  | 3.19 |
| 2   | 2  | -8 | 62.82  | 3.13 |
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| 2   | -2 | -8 | 62.11  | 3.29 |
| -2  | -2 | 8  | 65.08  | 2.20 |
| 1   | 2  | -8 | 69.34  | 3.34 |
| -1  | -2 | 8  | 67.17  | 2.41 |
| -1  | 2  | 8  | 68.40  | 3.44 |
| 1   | 2  | -8 | 69.80  | 3.17 |
| 0   | 2  | -8 | 238.56 | 7.24 |
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| 0   | -2 | -8 | 243.21 | 7.63 |
| 0   | -2 | 8  | 243.23 | 6.71 |
| 0   | 2  | 8  | 251.30 | 7.96 |
| 0   | 2  | -8 | 239.63 | 7.57 |
| -1  | 2  | -8 | 103.43 | 3.81 |
| 1   | 2  | 8  | 103.72 | 4.53 |
| 1   | -2 | 8  | 97.06  | 3.58 |
| -1  | -2 | -8 | 99.71  | 3.60 |
| -1  | -2 | -8 | 101.62 | 4.16 |
| -1  | 2  | -8 | 92.92  | 4.19 |
| 2   | 2  | 8  | 16.24  | 1.95 |
| -2  | 2  | -8 | 14.04  | 1.41 |
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| 2   | -2 | 8  | 18.61  | 1.55 |
| -2  | 2  | -8 | 14.20  | 1.87 |
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| -3  | -2 | -8 | 1.29   | 1.05 |

|     |    |    |        |      |
|-----|----|----|--------|------|
| -3  | 2  | -8 | 1.60   | 1.24 |
| -3  | -2 | -8 | 1.06   | 0.82 |
| 3   | -2 | 8  | 0.12   | 0.80 |
| -4  | -2 | -8 | 8.07   | 1.51 |
| 4   | -2 | 8  | 7.94   | 1.54 |
| -4  | -2 | -8 | 5.72   | 1.41 |
| 4   | 2  | 8  | 9.39   | 1.92 |
| -4  | 2  | -8 | 6.51   | 1.72 |
| 5   | -2 | 8  | 53.60  | 3.54 |
| 5   | 2  | 8  | 54.71  | 3.84 |
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| -5  | -2 | -8 | 52.99  | 3.40 |
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| 6   | -2 | 8  | 155.11 | 6.70 |
| 6   | 2  | 8  | 154.38 | 7.03 |
| -7  | -2 | -8 | 1.44   | 1.44 |
| 7   | -2 | 8  | 1.28   | 1.55 |
| 7   | 2  | 8  | 3.33   | 1.99 |
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| 8   | 2  | 8  | -1.49  | 1.32 |
| 8   | -2 | 8  | 1.72   | 1.92 |
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| 9   | 2  | 8  | -1.20  | 1.57 |
| 9   | -2 | 8  | 0.52   | 2.13 |
| -9  | -2 | -8 | 1.31   | 1.74 |
| -9  | 2  | -8 | 2.24   | 1.84 |
| -11 | 3  | 8  | 7.11   | 2.92 |
| -10 | 3  | 8  | -2.86  | 1.73 |
| -9  | 3  | 8  | 6.96   | 2.21 |
| 8   | 3  | -8 | 0.61   | 1.33 |
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| 6   | -3 | -8 | 8.95   | 1.85 |
| 5   | -3 | -8 | 44.01  | 3.06 |
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| 4   | -3 | -8 | 2.12   | 1.36 |
| 4   | 3  | -8 | 1.67   | 1.05 |
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| -3  | 3  | 8  | 12.61  | 1.74 |
| 2   | -3 | -8 | 151.76 | 5.74 |
| -2  | 3  | 8  | 156.39 | 5.84 |
| 2   | 3  | -8 | 153.21 | 5.68 |
| 1   | -3 | -8 | 2.88   | 1.17 |
| 1   | 3  | -8 | 3.51   | 1.45 |
| -1  | 3  | 8  | 4.31   | 1.40 |
| 0   | 3  | -8 | 3.75   | 1.08 |
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| 0   | -3 | -8 | 3.13   | 1.26 |
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| 1   | -3 | 8  | 178.92 | 5.36 |
| -1  | 3  | -8 | 175.15 | 6.66 |
| 1   | 3  | 8  | 181.29 | 6.79 |

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|-----|----|----|--------|------|
| -1  | 3  | -8 | 182.61 | 5.83 |
| -2  | 3  | -8 | 43.93  | 2.34 |
| 2   | -3 | 8  | 39.10  | 2.23 |
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| 4   | 3  | 8  | -0.51  | 1.19 |
| 5   | 3  | 8  | 3.59   | 1.73 |
| 5   | -3 | 8  | 5.31   | 1.57 |
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| -6  | 3  | -8 | 19.37  | 2.58 |
| 6   | 3  | 8  | 17.94  | 2.84 |
| 6   | -3 | 8  | 16.80  | 2.39 |
| 7   | 3  | 8  | 12.87  | 2.75 |
| 7   | -3 | 8  | 16.19  | 2.61 |
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| -8  | 3  | -8 | 5.56   | 2.03 |
| 8   | -3 | 8  | 4.11   | 2.23 |
| 8   | 3  | 8  | 2.65   | 2.17 |
| 9   | -3 | 8  | -2.29  | 1.94 |
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| 5   | -4 | -8 | 2.87   | 1.56 |
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| 4   | 4  | -8 | 15.67  | 1.96 |
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| 3   | 4  | -8 | 14.26  | 1.99 |
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| 2   | -4 | -8 | 0.70   | 1.25 |
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| 1   | -4 | -8 | 17.93  | 2.12 |
| -1  | 4  | 8  | 17.06  | 2.20 |
| 0   | 4  | -8 | 90.49  | 4.60 |
| 0   | 4  | 8  | 84.35  | 4.38 |
| 0   | -4 | -8 | 59.60  | 3.52 |
| 1   | 4  | 8  | 39.38  | 3.21 |
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| 2   | 4  | 8  | 81.01  | 4.70 |
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| -3  | -4 | -8 | 8.26   | 1.77 |

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|-----|----|----|--------|-------|
| -3  | 4  | -8 | 2.96   | 1.78  |
| 3   | 4  | 8  | 8.28   | 2.08  |
| 4   | 4  | 8  | 21.63  | 2.80  |
| 5   | 4  | 8  | 8.04   | 2.25  |
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| 8   | 4  | 8  | 0.59   | 2.05  |
| -10 | 5  | 8  | 1.75   | 2.09  |
| 9   | 5  | -8 | 2.97   | 2.29  |
| -9  | 5  | 8  | 2.91   | 2.18  |
| 8   | 5  | -8 | 1.89   | 1.96  |
| -8  | 5  | 8  | 2.83   | 1.93  |
| 7   | 5  | -8 | 0.79   | 1.44  |
| -7  | 5  | 8  | 1.29   | 1.56  |
| 6   | 5  | -8 | 46.01  | 3.51  |
| 6   | -5 | -8 | 45.09  | 3.46  |
| -6  | 5  | 8  | 49.27  | 3.82  |
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| 5   | -5 | -8 | 2.32   | 1.52  |
| 5   | 5  | -8 | 3.64   | 1.58  |
| 4   | -5 | -8 | -0.86  | 1.27  |
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| 4   | 5  | -8 | 1.25   | 1.22  |
| 3   | 5  | -8 | 4.58   | 1.62  |
| 3   | -5 | -8 | 1.72   | 1.42  |
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| 1   | -5 | -8 | 13.59  | 2.01  |
| 1   | 5  | -8 | 5.42   | 2.04  |
| -1  | 5  | 8  | 9.77   | 1.99  |
| 0   | 5  | 8  | 46.52  | 3.62  |
| 0   | 5  | 8  | 51.24  | 2.74  |
| 0   | -5 | -8 | 57.31  | 3.53  |
| 0   | 5  | -8 | 53.61  | 4.01  |
| -1  | -5 | -8 | 3.12   | 1.43  |
| 1   | 5  | 8  | 3.93   | 1.82  |
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| -2  | -5 | -8 | 291.58 | 9.61  |
| 2   | 5  | 8  | 303.63 | 10.51 |
| -3  | 5  | -8 | 0.71   | 0.99  |
| 3   | 5  | 8  | 6.15   | 2.05  |
| -4  | 5  | -8 | 5.20   | 1.95  |
| 4   | 5  | 8  | 3.69   | 2.01  |
| 5   | 5  | 8  | -0.85  | 1.64  |
| -5  | 5  | -8 | -2.12  | 1.31  |
| -6  | 5  | -8 | 5.46   | 2.14  |
| 6   | 5  | 8  | -0.58  | 1.73  |
| 7   | 5  | 8  | 0.85   | 1.95  |
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| 8   | 5  | 8  | 5.89   | 2.92  |
| 9   | 6  | -8 | -0.11  | 2.34  |
| -9  | 6  | 8  | 1.31   | 2.24  |

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|----|----|----|-------|------|
| 8  | 6  | -8 | -1.60 | 1.93 |
| -8 | 6  | 8  | 3.50  | 2.19 |
| 7  | 6  | -8 | 1.77  | 1.62 |
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| 6  | 6  | -8 | 10.95 | 2.47 |
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| 5  | 6  | -8 | 13.25 | 2.57 |
| 5  | -6 | -8 | 12.57 | 2.14 |
| -5 | 6  | 8  | 12.18 | 2.40 |
| 4  | -6 | -8 | 6.06  | 1.76 |
| 4  | 6  | -8 | 5.04  | 1.91 |
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| 3  | -6 | -8 | -0.04 | 1.20 |
| -3 | 6  | 8  | -0.07 | 1.14 |
| -2 | 6  | 8  | 2.03  | 1.48 |
| 2  | 6  | -8 | 4.76  | 1.89 |
| 2  | -6 | -8 | 4.21  | 1.50 |
| 1  | 6  | -8 | 57.76 | 4.34 |
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| 0  | 6  | -8 | 76.43 | 5.07 |
| 0  | -6 | -8 | 83.50 | 4.56 |
| 1  | 6  | 8  | 0.09  | 1.15 |
| -1 | -6 | -8 | 1.20  | 1.07 |
| 1  | 6  | 8  | 2.66  | 1.79 |
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| 2  | 6  | 8  | 1.37  | 1.14 |
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| 4  | 6  | 8  | 8.75  | 2.62 |
| 5  | 6  | 8  | 1.82  | 2.18 |
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| -7 | 6  | -8 | 1.55  | 2.09 |
| 7  | 6  | 8  | -1.51 | 2.30 |
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| 8  | 7  | -8 | 0.60  | 2.29 |
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| 7  | 7  | -8 | 6.45  | 2.64 |
| 6  | 7  | -8 | 50.95 | 4.56 |
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| 5  | 7  | -8 | 10.59 | 2.50 |
| 4  | 7  | -8 | 16.08 | 2.86 |
| 4  | -7 | -8 | 15.33 | 2.37 |
| -4 | 7  | 8  | 15.60 | 2.67 |
| 3  | 7  | -8 | 2.45  | 1.73 |
| 3  | -7 | -8 | 0.25  | 1.31 |
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| 1  | 7  | -8 | 0.38  | 1.77 |

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|----|----|----|-------|------|
| 1  | -7 | -8 | -0.50 | 1.10 |
| 0  | 7  | -8 | 4.89  | 2.33 |
| 0  | 7  | 8  | 1.97  | 1.73 |
| 1  | 7  | 8  | 33.82 | 3.58 |
| 2  | 7  | 8  | 0.44  | 1.90 |
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| 3  | 7  | 8  | 0.63  | 1.93 |
| 3  | 7  | 8  | -1.18 | 1.31 |
| -3 | 7  | -8 | 1.39  | 2.07 |
| 4  | 7  | 8  | 1.66  | 2.07 |
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| 6  | 7  | 8  | 1.45  | 2.73 |
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| 6  | 8  | -8 | 1.98  | 2.23 |
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| 5  | 8  | -8 | -0.30 | 2.10 |
| -4 | 8  | 8  | 5.32  | 2.22 |
| 4  | 8  | -8 | 5.68  | 2.54 |
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| 3  | 8  | -8 | 0.49  | 1.75 |
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| 1  | 8  | -8 | 13.20 | 3.07 |
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| 1  | 8  | 8  | 1.03  | 2.02 |
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| 4  | 8  | 8  | 12.89 | 2.90 |
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| 5  | 8  | 8  | -1.05 | 2.53 |
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| 5  | 9  | -8 | -0.24 | 2.34 |
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| 4  | 9  | -8 | 2.27  | 2.52 |
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| 3  | 9  | -8 | 0.36  | 2.23 |
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| -2 | 9  | 8  | 0.50  | 1.92 |
| 2  | 9  | -8 | 0.65  | 2.29 |
| 1  | 9  | -8 | -0.21 | 2.16 |
| -1 | 9  | 8  | 2.04  | 2.07 |
| 0  | 9  | 8  | 1.15  | 2.07 |
| 0  | 9  | -8 | -1.24 | 2.39 |
| 1  | 9  | 8  | 4.11  | 2.50 |
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| 2  | 9  | 8  | 8.59  | 2.96 |
| -2 | 9  | -8 | 9.63  | 3.50 |

|     |    |    |         |       |
|-----|----|----|---------|-------|
| -3  | 9  | -8 | 5.69    | 3.22  |
| 3   | 9  | 8  | 2.06    | 2.84  |
| 4   | 9  | 8  | 3.64    | 3.01  |
| -3  | 10 | 8  | 2.64    | 2.48  |
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| -1  | 10 | 8  | 4.96    | 2.64  |
| 0   | 10 | 8  | 3.02    | 2.62  |
| 1   | 10 | 8  | 2.02    | 2.60  |
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| 8   | 0  | -9 | 0.38    | 1.16  |
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| 7   | 0  | -9 | 73.47   | 4.03  |
| 6   | 0  | -9 | 1.95    | 1.15  |
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| 5   | 0  | -9 | 308.44  | 9.37  |
| -4  | 0  | 9  | 0.40    | 0.78  |
| 4   | 0  | -9 | 0.48    | 0.92  |
| 3   | 0  | -9 | 23.22   | 1.50  |
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| 3   | 0  | -9 | 24.09   | 2.12  |
| 2   | 0  | -9 | -0.03   | 0.67  |
| -2  | 0  | 9  | 0.19    | 0.81  |
| 2   | 0  | -9 | 1.48    | 0.75  |
| -1  | 0  | 9  | 1112.65 | 26.77 |
| 1   | 0  | -9 | 1126.63 | 25.39 |
| 1   | 0  | -9 | 1057.54 | 26.51 |
| 0   | 0  | -9 | -0.16   | 0.87  |
| 0   | 0  | 9  | 1.70    | 0.94  |
| 0   | 0  | -9 | 0.32    | 0.73  |
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| 1   | 0  | 9  | 2.81    | 1.17  |
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| -2  | 0  | -9 | -1.52   | 0.90  |
| 2   | 0  | 9  | -0.24   | 0.90  |
| -2  | 0  | -9 | 0.05    | 0.75  |
| 3   | 0  | 9  | 0.26    | 0.84  |
| -3  | 0  | -9 | 0.25    | 1.05  |
| -3  | 0  | -9 | 0.83    | 0.95  |
| -4  | 0  | -9 | -1.07   | 0.94  |
| 4   | 0  | 9  | 2.43    | 1.27  |
| 5   | 0  | 9  | 4.92    | 1.70  |
| -5  | 0  | -9 | 5.31    | 1.53  |
| 6   | 0  | 9  | 0.17    | 1.35  |
| -6  | 0  | -9 | -0.09   | 1.00  |
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| 7   | 0  | 9  | 1.70    | 1.50  |
| 8   | 0  | 9  | -1.45   | 1.67  |
| -8  | 0  | -9 | 0.47    | 1.37  |
| -9  | 0  | -9 | 0.57    | 1.51  |
| 9   | 0  | 9  | 6.61    | 2.57  |
| -11 | 1  | 9  | 2.19    | 2.21  |
| -10 | 1  | 9  | 4.33    | 2.10  |
| -9  | -1 | 9  | 5.44    | 1.86  |
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| 9   | 1  | -9 | 4.16    | 1.72  |
| -8  | 1  | 9  | 5.11    | 1.85  |

|    |    |    |        |      |
|----|----|----|--------|------|
| -8 | -1 | 9  | 4.99   | 1.62 |
| 8  | -1 | -9 | 6.46   | 1.80 |
| 8  | 1  | -9 | 3.26   | 1.48 |
| -7 | -1 | 9  | 1.35   | 1.08 |
| 7  | 1  | -9 | 1.77   | 1.25 |
| -7 | 1  | 9  | 0.35   | 1.13 |
| 7  | -1 | -9 | -0.15  | 1.21 |
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| -6 | -1 | 9  | 8.72   | 1.51 |
| 6  | 1  | -9 | 9.75   | 1.77 |
| 5  | -1 | -9 | 158.42 | 6.00 |
| 5  | 1  | -9 | 151.86 | 4.94 |
| 5  | 1  | -9 | 157.47 | 6.04 |
| -5 | 1  | 9  | 156.76 | 5.78 |
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| 4  | -1 | -9 | 94.20  | 4.22 |
| -4 | -1 | 9  | 90.43  | 3.50 |
| 4  | 1  | -9 | 84.80  | 4.06 |
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| 2  | 1  | -9 | 17.57  | 1.64 |
| 2  | 1  | -9 | 19.05  | 1.85 |
| 2  | -1 | -9 | 18.97  | 0.98 |
| -2 | 1  | 9  | 19.22  | 1.81 |
| 1  | 1  | -9 | 51.28  | 2.75 |
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| 1  | 1  | -9 | 49.58  | 2.69 |
| 1  | -1 | -9 | 52.92  | 3.01 |
| 1  | -1 | -9 | 48.36  | 1.96 |
| 0  | -1 | 9  | 191.19 | 5.91 |
| 0  | 1  | -9 | 191.54 | 6.22 |
| 0  | 1  | 9  | 192.22 | 6.51 |
| 0  | -1 | -9 | 189.49 | 6.43 |
| 0  | -1 | -9 | 189.86 | 5.45 |
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| 1  | 1  | 9  | 55.17  | 3.22 |
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| -2 | -1 | -9 | 5.02   | 1.29 |
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| 2  | 1  | 9  | 6.63   | 1.54 |
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| -2 | -1 | -9 | 6.61   | 1.23 |
| -3 | -1 | -9 | 7.77   | 1.48 |
| -3 | 1  | -9 | 9.31   | 1.69 |
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| 3  | 1  | 9  | 10.15  | 1.81 |
| -3 | -1 | -9 | 12.61  | 1.71 |
| 4  | -1 | 9  | 5.30   | 1.46 |

|     |    |    |       |      |
|-----|----|----|-------|------|
| -4  | -1 | -9 | 5.56  | 1.37 |
| 4   | 1  | 9  | 6.84  | 1.77 |
| -4  | 1  | -9 | 4.87  | 1.48 |
| 5   | 1  | 9  | 50.75 | 3.60 |
| 5   | -1 | 9  | 44.88 | 3.27 |
| -5  | -1 | -9 | 52.37 | 3.38 |
| -5  | 1  | -9 | 43.87 | 3.24 |
| -6  | -1 | -9 | 0.33  | 1.20 |
| -6  | 1  | -9 | 5.24  | 1.64 |
| 6   | 1  | 9  | 2.56  | 1.67 |
| 6   | -1 | 9  | 2.33  | 1.62 |
| 7   | 1  | 9  | 12.45 | 2.68 |
| -7  | 1  | -9 | 19.66 | 2.78 |
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| 7   | -1 | 9  | 13.45 | 2.56 |
| -8  | -1 | -9 | -2.72 | 1.22 |
| 8   | -1 | 9  | -0.77 | 1.51 |
| 8   | 1  | 9  | -1.35 | 1.64 |
| -8  | 1  | -9 | 0.10  | 1.12 |
| 9   | -1 | 9  | 12.07 | 2.88 |
| 9   | 1  | 9  | 6.20  | 2.77 |
| -9  | 1  | -9 | 15.55 | 2.85 |
| -11 | 2  | 9  | 0.78  | 2.38 |
| -10 | 2  | 9  | -0.28 | 1.90 |
| -9  | 2  | 9  | 0.47  | 1.51 |
| 9   | 2  | -9 | 0.22  | 1.32 |
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| 8   | 2  | -9 | 1.40  | 1.33 |
| 7   | 2  | -9 | 10.03 | 1.85 |
| -7  | 2  | 9  | 6.43  | 1.87 |
| 7   | -2 | -9 | 5.76  | 1.75 |
| 6   | 2  | -9 | 75.92 | 4.06 |
| 6   | -2 | -9 | 76.35 | 4.11 |
| -6  | 2  | 9  | 73.60 | 4.13 |
| 6   | 2  | -9 | 77.47 | 3.58 |
| 5   | -2 | -9 | 60.62 | 3.59 |
| -5  | 2  | 9  | 56.49 | 3.55 |
| 5   | 2  | -9 | 59.95 | 3.50 |
| 5   | 2  | -9 | 68.59 | 3.19 |
| 4   | 2  | -9 | 3.85  | 1.18 |
| 4   | 2  | -9 | 3.00  | 1.09 |
| 4   | -2 | -9 | 3.13  | 1.39 |
| -4  | 2  | 9  | 4.56  | 1.37 |
| 3   | 2  | -9 | 78.15 | 3.50 |
| 3   | -2 | -9 | 80.69 | 3.97 |
| 3   | 2  | -9 | 79.09 | 3.80 |
| -3  | 2  | 9  | 82.63 | 3.91 |
| -2  | -2 | 9  | 0.95  | 0.58 |
| 2   | -2 | -9 | 0.14  | 1.10 |
| -2  | 2  | 9  | 1.98  | 1.09 |
| 2   | 2  | -9 | 2.84  | 1.20 |
| 2   | 2  | -9 | 2.76  | 0.98 |
| 1   | 2  | -9 | 8.26  | 1.58 |
| 1   | -2 | -9 | 6.11  | 1.48 |
| -1  | -2 | 9  | 5.62  | 0.92 |
| 1   | 2  | -9 | 8.19  | 1.38 |
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| 0   | -2 | 9  | 71.54 | 2.91 |
| 0   | -2 | -9 | 67.32 | 2.71 |

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|-----|----|----|--------|-------|
| 0   | -2 | -9 | 71.25  | 3.66  |
| 0   | 2  | 9  | 77.08  | 3.87  |
| 0   | 2  | -9 | 73.81  | 3.42  |
| -1  | 2  | -9 | 152.69 | 5.81  |
| -1  | -2 | -9 | 165.39 | 5.84  |
| 1   | -2 | 9  | 151.37 | 5.08  |
| 1   | 2  | 9  | 159.02 | 6.13  |
| -1  | -2 | -9 | 159.25 | 5.07  |
| -1  | 2  | -9 | 154.57 | 5.31  |
| -2  | 2  | -9 | 1.96   | 1.19  |
| -2  | -2 | -9 | 2.37   | 0.91  |
| -2  | 2  | -9 | 0.97   | 1.02  |
| -2  | -2 | -9 | 3.88   | 1.34  |
| 2   | -2 | 9  | 2.26   | 1.02  |
| 2   | 2  | 9  | 4.32   | 1.54  |
| -3  | -2 | -9 | 82.40  | 3.84  |
| -3  | -2 | -9 | 82.67  | 3.89  |
| 3   | 2  | 9  | 85.59  | 4.54  |
| -3  | 2  | -9 | 84.47  | 4.33  |
| 3   | -2 | 9  | 84.42  | 3.84  |
| -4  | 2  | -9 | 0.59   | 1.29  |
| 4   | -2 | 9  | 0.31   | 1.05  |
| -4  | -2 | -9 | 0.33   | 1.11  |
| 4   | 2  | 9  | 1.69   | 1.42  |
| -4  | -2 | -9 | -0.52  | 0.91  |
| -5  | -2 | -9 | 31.31  | 2.80  |
| 5   | 2  | 9  | 39.77  | 3.60  |
| 5   | -2 | 9  | 26.49  | 2.70  |
| -5  | 2  | -9 | 33.55  | 3.00  |
| -6  | -2 | -9 | 1.26   | 1.25  |
| -6  | 2  | -9 | 2.14   | 1.45  |
| 6   | 2  | 9  | 0.84   | 1.54  |
| 6   | -2 | 9  | 0.53   | 1.52  |
| 7   | -2 | 9  | 1.70   | 1.69  |
| -7  | -2 | -9 | 0.48   | 1.34  |
| 7   | 2  | 9  | 0.64   | 1.76  |
| -7  | 2  | -9 | 1.02   | 0.95  |
| -8  | -2 | -9 | 8.99   | 2.34  |
| 8   | 2  | 9  | 3.34   | 2.09  |
| 8   | -2 | 9  | 7.50   | 2.57  |
| -8  | 2  | -9 | 11.50  | 2.39  |
| 9   | -2 | 9  | -3.30  | 1.95  |
| -11 | 3  | 9  | -3.34  | 2.18  |
| -10 | 3  | 9  | 3.90   | 2.28  |
| 9   | 3  | -9 | 1.75   | 1.50  |
| -9  | 3  | 9  | 1.30   | 1.82  |
| 8   | 3  | -9 | 1.76   | 1.35  |
| -8  | 3  | 9  | 4.08   | 1.93  |
| 7   | -3 | -9 | 7.83   | 1.92  |
| 7   | 3  | -9 | 4.56   | 1.50  |
| -7  | 3  | 9  | 9.37   | 2.17  |
| 6   | 3  | -9 | 15.85  | 2.00  |
| 6   | -3 | -9 | 17.58  | 2.26  |
| -6  | 3  | 9  | 16.42  | 2.43  |
| 5   | -3 | -9 | 297.68 | 9.57  |
| 5   | 3  | -9 | 295.28 | 9.07  |
| -5  | 3  | 9  | 308.14 | 10.04 |
| -4  | 3  | 9  | 0.32   | 1.11  |
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| 4   | 3  | -9 | 0.48   | 1.07  |

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|-----|----|----|-------|------|
| 3   | 3  | -9 | 26.14 | 2.33 |
| 3   | -3 | -9 | 20.70 | 2.34 |
| -3  | 3  | 9  | 28.80 | 2.52 |
| 2   | 3  | -9 | 11.30 | 1.78 |
| 2   | 3  | -9 | 7.12  | 1.50 |
| 2   | -3 | -9 | 8.30  | 1.73 |
| -2  | 3  | 9  | 7.25  | 1.61 |
| 1   | 3  | -9 | 37.80 | 3.00 |
| -1  | 3  | 9  | 41.49 | 3.01 |
| 1   | 3  | -9 | 38.97 | 2.60 |
| 0   | -3 | -9 | 65.75 | 3.77 |
| 0   | 3  | 9  | 81.26 | 4.22 |
| 0   | 3  | -9 | 78.26 | 3.56 |
| 0   | 3  | -9 | 72.66 | 4.11 |
| -1  | 3  | -9 | 7.56  | 1.85 |
| 1   | 3  | 9  | 7.61  | 1.92 |
| -1  | 3  | -9 | 8.77  | 1.38 |
| -1  | -3 | -9 | 7.96  | 1.64 |
| -2  | 3  | -9 | 5.09  | 1.74 |
| -2  | 3  | -9 | 6.43  | 1.29 |
| -2  | -3 | -9 | 3.74  | 1.46 |
| 2   | 3  | 9  | 6.10  | 1.78 |
| -3  | -3 | -9 | 28.90 | 2.54 |
| 3   | 3  | 9  | 18.06 | 2.53 |
| -3  | -3 | -9 | 23.26 | 2.13 |
| -3  | 3  | -9 | 17.78 | 2.50 |
| 3   | -3 | 9  | 19.29 | 1.91 |
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| 4   | 3  | 9  | 16.63 | 2.50 |
| 4   | -3 | 9  | 14.08 | 1.88 |
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| 5   | -3 | 9  | 3.42  | 1.54 |
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| -5  | -3 | -9 | -0.25 | 1.12 |
| 5   | 3  | 9  | -0.46 | 1.11 |
| 6   | -3 | 9  | 1.03  | 1.65 |
| -6  | 3  | -9 | 0.01  | 0.87 |
| 6   | 3  | 9  | -0.90 | 1.21 |
| 7   | 3  | 9  | 17.67 | 3.31 |
| 7   | -3 | 9  | 19.71 | 2.91 |
| -7  | 3  | -9 | 17.11 | 2.73 |
| -8  | 3  | -9 | 3.33  | 1.91 |
| 8   | -3 | 9  | 3.69  | 2.29 |
| 8   | 3  | 9  | 5.40  | 2.61 |
| 9   | -3 | 9  | -1.13 | 2.19 |
| -10 | 4  | 9  | 6.87  | 2.86 |
| 10  | 4  | -9 | 5.95  | 2.24 |
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| 7   | 4  | -9 | 26.02 | 2.84 |
| -7  | 4  | 9  | 34.91 | 3.49 |
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| 6   | 4  | -9 | 69.70 | 4.04 |
| 6   | -4 | -9 | 69.15 | 4.09 |
| 5   | 4  | -9 | 2.49  | 1.45 |
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| 5   | -4 | -9 | 2.72  | 1.55 |
| -4  | 4  | 9  | 15.29 | 2.24 |

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|----|----|----|--------|------|
| 4  | -4 | -9 | 16.30  | 2.26 |
| 4  | 4  | -9 | 11.41  | 1.92 |
| 3  | 4  | -9 | 0.57   | 1.25 |
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| 2  | -4 | -9 | 3.17   | 1.42 |
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| 2  | 4  | -9 | 0.61   | 1.50 |
| 1  | 4  | -9 | 19.40  | 2.50 |
| 1  | -4 | -9 | 20.26  | 2.39 |
| 0  | 4  | -9 | 12.79  | 1.80 |
| 0  | -4 | -9 | 13.57  | 2.13 |
| 0  | 4  | -9 | 12.93  | 2.30 |
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| -1 | -4 | -9 | 26.71  | 2.56 |
| 1  | 4  | 9  | 28.36  | 2.96 |
| -1 | 4  | -9 | 30.23  | 2.28 |
| 2  | 4  | 9  | 52.08  | 3.87 |
| -2 | -4 | -9 | 46.49  | 3.22 |
| -2 | 4  | -9 | 49.66  | 3.81 |
| -3 | 4  | -9 | 39.29  | 3.50 |
| 3  | 4  | 9  | 39.81  | 3.56 |
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| -4 | 4  | -9 | 4.15   | 1.74 |
| 4  | 4  | 9  | 1.49   | 1.49 |
| 5  | 4  | 9  | 9.79   | 2.44 |
| -5 | 4  | -9 | 0.43   | 0.85 |
| 6  | 4  | 9  | 0.50   | 1.87 |
| -6 | 4  | -9 | 4.51   | 1.73 |
| -7 | 4  | -9 | 12.22  | 2.51 |
| 7  | 4  | 9  | 4.38   | 2.30 |
| 8  | 4  | 9  | -0.81  | 2.17 |
| -8 | 4  | -9 | 1.34   | 1.93 |
| -9 | 5  | 9  | 2.59   | 2.19 |
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| 8  | 5  | -9 | -0.74  | 1.72 |
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| 7  | 5  | -9 | 0.89   | 1.61 |
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| 6  | -5 | -9 | 1.08   | 1.48 |
| 5  | 5  | -9 | 1.38   | 1.54 |
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| 1  | 5  | -9 | 0.45   | 1.77 |
| -1 | 5  | 9  | -1.85  | 1.33 |
| 1  | -5 | -9 | -0.05  | 1.30 |
| 0  | 5  | 9  | 76.70  | 4.77 |
| 0  | 5  | -9 | 70.00  | 4.77 |
| -1 | 5  | -9 | 182.15 | 8.05 |

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|----|----|----|--------|------|
| -1 | -5 | -9 | 196.17 | 7.35 |
| 1  | 5  | 9  | 196.83 | 8.07 |
| 2  | 5  | 9  | 102.47 | 5.68 |
| -2 | 5  | -9 | 98.85  | 5.61 |
| -2 | -5 | -9 | 89.34  | 4.70 |
| -3 | -5 | -9 | 6.84   | 1.75 |
| 3  | 5  | 9  | 7.17   | 2.23 |
| -3 | 5  | -9 | 7.15   | 2.24 |
| 4  | 5  | 9  | 9.86   | 2.64 |
| 5  | 5  | 9  | -0.15  | 1.94 |
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| 6  | 5  | 9  | 0.68   | 2.07 |
| 7  | 5  | 9  | 10.20  | 3.05 |
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| 9  | 6  | -9 | 1.99   | 2.46 |
| -8 | 6  | 9  | 2.28   | 1.98 |
| 8  | 6  | -9 | 1.78   | 2.20 |
| -7 | 6  | 9  | 0.68   | 1.56 |
| 7  | 6  | -9 | 3.00   | 2.02 |
| -6 | 6  | 9  | 13.83  | 2.59 |
| 6  | 6  | -9 | 16.96  | 2.93 |
| -5 | 6  | 9  | 8.00   | 2.12 |
| 5  | 6  | -9 | 6.04   | 2.12 |
| 5  | -6 | -9 | 10.41  | 2.14 |
| 4  | -6 | -9 | 1.60   | 1.46 |
| 4  | 6  | -9 | 0.56   | 1.45 |
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| 3  | -6 | -9 | 54.07  | 3.64 |
| 3  | 6  | -9 | 45.63  | 3.83 |
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| 2  | -6 | -9 | 19.70  | 2.45 |
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| 2  | 6  | -9 | 20.12  | 3.03 |
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| 1  | -6 | -9 | 1.26   | 1.35 |
| 1  | 6  | -9 | 0.40   | 1.61 |
| 0  | 6  | 9  | 1.70   | 1.69 |
| 0  | -6 | -9 | 2.12   | 1.49 |
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| -1 | 6  | -9 | 34.85  | 3.94 |
| 1  | 6  | 9  | 29.38  | 3.30 |
| -2 | -6 | -9 | 0.07   | 1.29 |
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| 3  | 6  | 9  | 4.01   | 2.08 |
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| 4  | 6  | 9  | 3.30   | 2.28 |
| 5  | 6  | 9  | 0.11   | 2.05 |
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| -6 | 6  | -9 | 0.64   | 1.80 |
| 6  | 6  | 9  | -0.13  | 2.38 |
| 8  | 7  | -9 | 1.57   | 2.56 |
| -8 | 7  | 9  | 0.40   | 2.03 |
| -7 | 7  | 9  | 33.28  | 4.03 |
| 7  | 7  | -9 | 29.49  | 4.04 |
| -6 | 7  | 9  | 0.80   | 1.52 |

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|----|----|----|-------|------|
| 6  | 7  | -9 | 0.92  | 1.89 |
| -5 | 7  | 9  | -0.51 | 1.51 |
| 5  | 7  | -9 | -3.13 | 1.54 |
| 5  | -7 | -9 | 1.38  | 1.75 |
| 4  | 7  | -9 | 8.73  | 2.49 |
| 4  | -7 | -9 | 11.04 | 2.36 |
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| 3  | -7 | -9 | 16.63 | 2.57 |
| -3 | 7  | 9  | 17.43 | 2.70 |
| 3  | 7  | -9 | 15.34 | 2.98 |
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| 2  | 7  | -9 | 4.11  | 2.21 |
| 2  | -7 | -9 | 9.10  | 2.11 |
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| -1 | 7  | 9  | 10.02 | 2.37 |
| 1  | -7 | -9 | 13.72 | 2.40 |
| 0  | 7  | -9 | 6.46  | 2.62 |
| 0  | 7  | 9  | 4.22  | 2.02 |
| 0  | -7 | -9 | 0.42  | 1.31 |
| -1 | 7  | -9 | -1.56 | 1.94 |
| 1  | 7  | 9  | -1.54 | 1.78 |
| 2  | 7  | 9  | 15.89 | 2.92 |
| -2 | 7  | -9 | -0.63 | 1.58 |
| -3 | 7  | -9 | 4.56  | 2.43 |
| 3  | 7  | 9  | 0.25  | 1.87 |
| 4  | 7  | 9  | 3.96  | 2.51 |
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| 5  | 7  | 9  | -1.02 | 2.20 |
| -5 | 7  | -9 | 1.26  | 2.29 |
| 6  | 7  | 9  | 0.47  | 2.72 |
| 7  | 8  | -9 | -2.18 | 1.92 |
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| 6  | 8  | -9 | 0.07  | 2.43 |
| 5  | 8  | -9 | -1.47 | 1.90 |
| -5 | 8  | 9  | 2.53  | 2.15 |
| 4  | -8 | -9 | -0.04 | 1.62 |
| 4  | 8  | -9 | 1.59  | 2.10 |
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| 3  | -8 | -9 | 4.60  | 2.04 |
| 3  | 8  | -9 | 0.22  | 1.80 |
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| 2  | -8 | -9 | 0.49  | 1.38 |
| -2 | 8  | 9  | -1.97 | 1.49 |
| 2  | 8  | -9 | -2.29 | 1.78 |
| -1 | 8  | 9  | 0.08  | 1.78 |
| 1  | 8  | -9 | 0.41  | 2.15 |
| 0  | 8  | 9  | -0.51 | 1.75 |
| 0  | 8  | -9 | 2.09  | 2.48 |
| -1 | 8  | -9 | -0.29 | 1.82 |
| 1  | 8  | 9  | 0.98  | 1.95 |
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| 2  | 8  | 9  | 1.27  | 2.27 |
| 3  | 8  | 9  | 1.29  | 2.52 |
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| 4  | 8  | 9  | -2.83 | 2.28 |
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| 5  | 8  | 9  | -2.22 | 2.05 |
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| 4  | 9  | -9 | 0.48  | 2.54 |

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|-----|---|-----|--------|-------|
| 3   | 9 | -9  | -3.11  | 2.26  |
| -3  | 9 | 9   | 4.62   | 2.41  |
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| 2   | 9 | -9  | -0.61  | 2.13  |
| 1   | 9 | -9  | 1.76   | 2.56  |
| -1  | 9 | 9   | -1.26  | 2.02  |
| 0   | 9 | -9  | -3.62  | 2.10  |
| 0   | 9 | 9   | 4.29   | 2.51  |
| 1   | 9 | 9   | 6.99   | 2.71  |
| -1  | 9 | -9  | 7.73   | 3.53  |
| 2   | 9 | 9   | 2.66   | 2.62  |
| -2  | 9 | -9  | 1.03   | 2.94  |
| 3   | 9 | 9   | -0.38  | 2.76  |
| -10 | 0 | 10  | -2.27  | 1.57  |
| -9  | 0 | 10  | -4.01  | 1.23  |
| 8   | 0 | -10 | 1.87   | 1.44  |
| -8  | 0 | 10  | 2.89   | 1.52  |
| -7  | 0 | 10  | 0.85   | 1.28  |
| 7   | 0 | -10 | 2.00   | 1.34  |
| -6  | 0 | 10  | 488.91 | 13.70 |
| 6   | 0 | -10 | 483.22 | 13.95 |
| 5   | 0 | -10 | 0.21   | 0.94  |
| -5  | 0 | 10  | -0.03  | 0.93  |
| 4   | 0 | -10 | 61.58  | 3.48  |
| -4  | 0 | 10  | 59.56  | 3.01  |
| -3  | 0 | 10  | 1.40   | 0.89  |
| 3   | 0 | -10 | -1.24  | 0.71  |
| 3   | 0 | -10 | 0.43   | 0.78  |
| -2  | 0 | 10  | 42.00  | 2.47  |
| 2   | 0 | -10 | 43.19  | 2.76  |
| 2   | 0 | -10 | 44.35  | 2.11  |
| 1   | 0 | -10 | 0.18   | 0.75  |
| 1   | 0 | -10 | 0.21   | 0.97  |
| -1  | 0 | 10  | 0.45   | 0.95  |
| 0   | 0 | 10  | 13.84  | 1.72  |
| 0   | 0 | -10 | 13.39  | 1.75  |
| 0   | 0 | -10 | 11.89  | 1.40  |
| -1  | 0 | -10 | -0.58  | 0.79  |
| -1  | 0 | -10 | 0.84   | 1.12  |
| 1   | 0 | 10  | -0.01  | 1.10  |
| -2  | 0 | -10 | 32.63  | 2.52  |
| -2  | 0 | -10 | 40.07  | 2.61  |
| 2   | 0 | 10  | 39.56  | 2.77  |
| -3  | 0 | -10 | 1.05   | 0.92  |
| -3  | 0 | -10 | 0.09   | 1.17  |
| 3   | 0 | 10  | -1.07  | 1.00  |
| -4  | 0 | -10 | 17.95  | 2.20  |
| 4   | 0 | 10  | 17.41  | 2.28  |
| -5  | 0 | -10 | 0.45   | 1.06  |
| 5   | 0 | 10  | 1.12   | 1.44  |
| -6  | 0 | -10 | 16.90  | 2.54  |
| 6   | 0 | 10  | 10.01  | 2.32  |
| 7   | 0 | 10  | 0.57   | 1.67  |
| -7  | 0 | -10 | -1.13  | 1.06  |
| -8  | 0 | -10 | 13.06  | 2.66  |
| 8   | 0 | 10  | 4.16   | 2.32  |
| -11 | 1 | 10  | -2.52  | 2.00  |
| -10 | 1 | 10  | -1.02  | 1.86  |
| -9  | 1 | 10  | 16.37  | 2.57  |
| 9   | 1 | -10 | 11.92  | 2.42  |

|    |    |     |        |      |
|----|----|-----|--------|------|
| 8  | -1 | -10 | 4.51   | 1.81 |
| 8  | 1  | -10 | 2.10   | 1.50 |
| -8 | 1  | 10  | 2.44   | 1.62 |
| 7  | -1 | -10 | -0.20  | 1.12 |
| 7  | 1  | -10 | 1.54   | 1.35 |
| -7 | 1  | 10  | 2.86   | 1.54 |
| -7 | -1 | 10  | 1.68   | 1.21 |
| -6 | -1 | 10  | 3.79   | 1.28 |
| 6  | 1  | -10 | 3.56   | 1.36 |
| 6  | -1 | -10 | 5.61   | 1.69 |
| -6 | 1  | 10  | 1.91   | 1.35 |
| 5  | 1  | -10 | 58.24  | 3.56 |
| -5 | -1 | 10  | 57.31  | 2.94 |
| -5 | 1  | 10  | 54.84  | 3.21 |
| 5  | -1 | -10 | 55.11  | 3.54 |
| 4  | 1  | -10 | 0.50   | 0.99 |
| 4  | 1  | -10 | 0.74   | 1.03 |
| -4 | 1  | 10  | 0.82   | 1.03 |
| 4  | -1 | -10 | 0.02   | 1.06 |
| -4 | -1 | 10  | 1.41   | 0.85 |
| 3  | 1  | -10 | 63.23  | 2.97 |
| 3  | -1 | -10 | 58.92  | 3.52 |
| -3 | 1  | 10  | 59.89  | 3.20 |
| -3 | -1 | 10  | 62.46  | 2.74 |
| 2  | -1 | -10 | 11.47  | 1.63 |
| 2  | 1  | -10 | 22.31  | 1.89 |
| -2 | 1  | 10  | 19.03  | 1.94 |
| 2  | 1  | -10 | 22.50  | 2.12 |
| -2 | -1 | 10  | 20.09  | 1.61 |
| 1  | 1  | -10 | 55.44  | 2.85 |
| 1  | 1  | -10 | 48.88  | 2.89 |
| 1  | -1 | -10 | 51.06  | 3.09 |
| -1 | 1  | 10  | 52.69  | 3.15 |
| -1 | -1 | 10  | 51.34  | 2.65 |
| 1  | -1 | -10 | 50.29  | 2.14 |
| 0  | -1 | 10  | 100.96 | 4.11 |
| 0  | -1 | -10 | 109.16 | 3.73 |
| 0  | -1 | -10 | 103.97 | 4.59 |
| 0  | 1  | -10 | 109.42 | 4.41 |
| 0  | 1  | 10  | 109.03 | 4.61 |
| 0  | 1  | -10 | 99.38  | 4.15 |
| 1  | -1 | 10  | 24.89  | 2.04 |
| -1 | 1  | -10 | 20.25  | 1.97 |
| -1 | -1 | -10 | 22.13  | 2.26 |
| 1  | 1  | 10  | 17.25  | 2.07 |
| -1 | 1  | -10 | 21.84  | 2.03 |
| -1 | -1 | -10 | 23.20  | 1.79 |
| -2 | 1  | -10 | 12.25  | 1.65 |
| -2 | -1 | -10 | 9.89   | 1.73 |
| 2  | 1  | 10  | 10.98  | 1.86 |
| -2 | -1 | -10 | 11.41  | 1.53 |
| 2  | -1 | 10  | 15.64  | 1.80 |
| -2 | 1  | -10 | 10.12  | 1.72 |
| -3 | 1  | -10 | 0.87   | 1.15 |
| -3 | -1 | -10 | 0.71   | 0.98 |
| -3 | -1 | -10 | -0.42  | 1.16 |
| 3  | 1  | 10  | -0.69  | 1.07 |
| 3  | -1 | 10  | 1.79   | 1.18 |
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| -4 | -1 | -10 | 3.37   | 1.22 |

|     |    |     |        |      |
|-----|----|-----|--------|------|
| 4   | -1 | 10  | 0.68   | 1.27 |
| 4   | 1  | 10  | 0.08   | 1.40 |
| 5   | -1 | 10  | 5.82   | 1.83 |
| 5   | 1  | 10  | 5.26   | 1.90 |
| -5  | 1  | -10 | 3.48   | 1.45 |
| -5  | -1 | -10 | 5.09   | 1.55 |
| 6   | -1 | 10  | 25.73  | 3.02 |
| 6   | 1  | 10  | 26.44  | 3.18 |
| -6  | 1  | -10 | 27.01  | 2.97 |
| -6  | -1 | -10 | 31.50  | 3.10 |
| 7   | 1  | 10  | -1.52  | 1.69 |
| -7  | 1  | -10 | 4.58   | 1.88 |
| 7   | -1 | 10  | 3.20   | 1.83 |
| -7  | -1 | -10 | 4.76   | 1.73 |
| 8   | 1  | 10  | -0.10  | 2.02 |
| -8  | -1 | -10 | 2.97   | 1.80 |
| -8  | 1  | -10 | -0.42  | 1.54 |
| 8   | -1 | 10  | -0.82  | 1.68 |
| -11 | 2  | 10  | 1.60   | 2.17 |
| -10 | 2  | 10  | 2.52   | 1.95 |
| 9   | 2  | -10 | 0.98   | 1.46 |
| -9  | 2  | 10  | 0.13   | 1.51 |
| -8  | 2  | 10  | 10.88  | 2.31 |
| 8   | 2  | -10 | 14.12  | 2.27 |
| 7   | 2  | -10 | 2.84   | 1.38 |
| 7   | -2 | -10 | -0.77  | 1.36 |
| -7  | 2  | 10  | 1.29   | 1.38 |
| 6   | 2  | -10 | 1.84   | 1.26 |
| 6   | -2 | -10 | 0.51   | 1.40 |
| -6  | 2  | 10  | 1.82   | 1.51 |
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| 5   | 2  | -10 | 45.46  | 2.73 |
| 5   | -2 | -10 | 43.02  | 3.25 |
| 5   | 2  | -10 | 41.81  | 3.09 |
| 4   | 2  | -10 | 20.57  | 2.22 |
| 4   | 2  | -10 | 25.99  | 2.13 |
| 4   | -2 | -10 | 26.42  | 2.63 |
| -4  | 2  | 10  | 26.11  | 2.47 |
| -3  | 2  | 10  | 41.99  | 2.98 |
| 3   | 2  | -10 | 52.14  | 3.16 |
| 3   | -2 | -10 | 47.41  | 3.18 |
| 3   | 2  | -10 | 49.62  | 2.91 |
| -2  | 2  | 10  | 108.61 | 4.76 |
| 2   | 2  | -10 | 103.63 | 4.56 |
| 2   | 2  | -10 | 106.41 | 4.47 |
| 2   | -2 | -10 | 112.83 | 4.92 |
| 1   | -2 | -10 | 184.26 | 6.78 |
| 1   | 2  | -10 | 178.16 | 6.34 |
| 1   | -2 | -10 | 184.28 | 5.03 |
| -1  | 2  | 10  | 177.50 | 6.69 |
| 1   | 2  | -10 | 185.21 | 6.45 |
| 0   | -2 | -10 | 22.07  | 2.28 |
| 0   | 2  | -10 | 18.75  | 1.86 |
| 0   | -2 | -10 | 18.01  | 1.44 |
| 0   | -2 | 10  | 20.38  | 1.73 |
| 0   | 2  | 10  | 28.97  | 2.55 |
| 0   | 2  | -10 | 22.33  | 2.26 |
| -1  | -2 | -10 | 123.15 | 5.08 |
| -1  | 2  | -10 | 123.57 | 4.77 |
| -1  | 2  | -10 | 115.34 | 5.00 |

|     |    |     |        |      |
|-----|----|-----|--------|------|
| 1   | 2  | 10  | 132.66 | 5.63 |
| 1   | -2 | 10  | 125.47 | 4.54 |
| -1  | -2 | -10 | 123.82 | 4.37 |
| 2   | -2 | 10  | 70.25  | 3.49 |
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| -2  | 2  | -10 | 70.62  | 3.81 |
| 2   | 2  | 10  | 71.57  | 4.25 |
| -2  | 2  | -10 | 70.66  | 3.35 |
| -2  | -2 | -10 | 71.48  | 3.69 |
| -3  | 2  | -10 | 61.68  | 3.88 |
| 3   | 2  | 10  | 64.21  | 4.16 |
| -3  | -2 | -10 | 68.66  | 3.49 |
| -3  | -2 | -10 | 68.68  | 3.71 |
| 3   | -2 | 10  | 63.53  | 3.56 |
| 4   | -2 | 10  | 18.85  | 2.19 |
| -4  | -2 | -10 | 16.76  | 2.11 |
| -4  | -2 | -10 | 17.32  | 2.15 |
| -4  | 2  | -10 | 17.81  | 2.35 |
| 4   | 2  | 10  | 14.09  | 2.37 |
| 5   | 2  | 10  | 5.02   | 1.94 |
| -5  | 2  | -10 | 1.63   | 1.36 |
| 5   | -2 | 10  | 1.83   | 1.47 |
| -5  | -2 | -10 | 0.64   | 1.20 |
| 6   | -2 | 10  | 0.72   | 1.48 |
| 6   | 2  | 10  | 1.35   | 1.90 |
| -6  | 2  | -10 | -0.34  | 1.20 |
| -6  | -2 | -10 | 0.64   | 1.30 |
| 7   | 2  | 10  | -0.33  | 1.99 |
| -7  | 2  | -10 | 1.62   | 1.55 |
| 7   | -2 | 10  | 0.77   | 1.57 |
| -7  | -2 | -10 | 0.49   | 1.51 |
| -8  | 2  | -10 | 0.91   | 1.33 |
| -8  | -2 | -10 | 1.43   | 1.69 |
| 8   | -2 | 10  | 0.48   | 2.02 |
| 8   | 2  | 10  | -0.60  | 2.12 |
| 10  | 3  | -10 | 2.25   | 1.86 |
| -10 | 3  | 10  | 3.62   | 2.23 |
| 9   | 3  | -10 | 0.30   | 1.38 |
| -9  | 3  | 10  | 1.86   | 1.93 |
| 8   | 3  | -10 | 4.13   | 1.65 |
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| 7   | -3 | -10 | 4.71   | 1.82 |
| 7   | 3  | -10 | 2.09   | 1.31 |
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| 6   | 3  | -10 | 23.79  | 2.74 |
| 6   | -3 | -10 | 24.12  | 2.68 |
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| 6   | 3  | -10 | 20.92  | 2.30 |
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| 5   | 3  | -10 | 43.91  | 3.29 |
| 5   | 3  | -10 | 48.72  | 3.06 |
| 5   | -3 | -10 | 43.38  | 3.40 |
| 4   | 3  | -10 | 0.65   | 1.27 |
| -4  | 3  | 10  | 0.25   | 1.17 |
| 4   | -3 | -10 | 1.85   | 1.43 |
| 4   | 3  | -10 | 1.79   | 0.78 |
| 3   | 3  | -10 | 8.43   | 1.74 |
| -3  | 3  | 10  | 12.61  | 2.05 |
| 3   | 3  | -10 | 10.32  | 1.90 |
| 3   | -3 | -10 | 11.22  | 2.01 |

|     |    |     |       |      |
|-----|----|-----|-------|------|
| 2   | 3  | -10 | 1.17  | 1.37 |
| -2  | 3  | 10  | 1.89  | 1.42 |
| 2   | -3 | -10 | 0.64  | 1.34 |
| 2   | 3  | -10 | 0.28  | 0.89 |
| -1  | 3  | 10  | 1.06  | 1.59 |
| 1   | 3  | -10 | 1.95  | 1.59 |
| 1   | 3  | -10 | -0.10 | 0.86 |
| 1   | -3 | -10 | -1.12 | 0.82 |
| 0   | 3  | -10 | 49.46 | 2.98 |
| 0   | 3  | -10 | 58.23 | 3.78 |
| 0   | -3 | -10 | 54.42 | 3.52 |
| 0   | 3  | 10  | 49.76 | 3.58 |
| -1  | 3  | -10 | -0.90 | 1.40 |
| 1   | 3  | 10  | 2.00  | 1.63 |
| -1  | -3 | -10 | -0.36 | 1.23 |
| -1  | 3  | -10 | 0.53  | 1.07 |
| -2  | 3  | -10 | 74.67 | 4.28 |
| 2   | 3  | 10  | 84.50 | 4.79 |
| -2  | -3 | -10 | 71.81 | 4.06 |
| -3  | 3  | -10 | -1.03 | 1.23 |
| -3  | -3 | -10 | -0.63 | 1.26 |
| 3   | 3  | 10  | 0.12  | 1.65 |
| -3  | -3 | -10 | -0.44 | 0.93 |
| 4   | 3  | 10  | 12.59 | 2.40 |
| -4  | -3 | -10 | 13.96 | 1.97 |
| -4  | -3 | -10 | 10.03 | 1.89 |
| -4  | 3  | -10 | 13.88 | 2.36 |
| 5   | 3  | 10  | 4.23  | 1.94 |
| -5  | -3 | -10 | 1.76  | 1.33 |
| -5  | 3  | -10 | 1.21  | 1.36 |
| 6   | 3  | 10  | 8.86  | 2.48 |
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| 7   | 3  | 10  | 0.92  | 1.89 |
| -7  | 3  | -10 | 2.97  | 1.35 |
| -8  | 3  | -10 | 2.95  | 1.88 |
| 8   | 3  | 10  | -0.69 | 1.73 |
| 10  | 4  | -10 | 2.48  | 1.91 |
| -10 | 4  | 10  | 2.01  | 2.33 |
| 9   | 4  | -10 | 1.81  | 1.68 |
| -9  | 4  | 10  | 2.01  | 2.08 |
| -8  | 4  | 10  | 3.49  | 2.04 |
| 7   | -4 | -10 | 1.08  | 1.77 |
| -7  | 4  | 10  | 2.07  | 1.69 |
| 7   | 4  | -10 | 2.33  | 1.63 |
| 6   | 4  | -10 | 7.57  | 1.89 |
| 6   | -4 | -10 | 9.55  | 2.13 |
| -6  | 4  | 10  | 12.48 | 2.35 |
| 5   | -4 | -10 | 9.38  | 2.07 |
| 5   | 4  | -10 | 3.35  | 1.63 |
| -5  | 4  | 10  | 3.70  | 1.76 |
| 4   | 4  | -10 | 4.77  | 1.67 |
| 4   | -4 | -10 | 6.16  | 1.96 |
| -4  | 4  | 10  | 3.98  | 1.67 |
| 3   | -4 | -10 | 1.49  | 1.40 |
| -3  | 4  | 10  | 2.78  | 1.57 |
| 3   | 4  | -10 | 2.28  | 1.67 |
| -2  | 4  | 10  | 3.12  | 1.57 |
| 2   | 4  | -10 | 4.12  | 1.74 |
| 2   | -4 | -10 | 4.20  | 1.70 |
| 1   | 4  | -10 | 3.42  | 1.82 |

|    |    |     |        |      |
|----|----|-----|--------|------|
| 1  | -4 | -10 | 3.42   | 1.52 |
| -1 | 4  | 10  | 2.78   | 1.65 |
| 1  | 4  | -10 | 4.28   | 1.34 |
| 0  | 4  | 10  | 7.88   | 2.18 |
| 0  | 4  | -10 | 6.99   | 2.13 |
| 0  | 4  | -10 | 4.13   | 1.31 |
| 0  | -4 | -10 | 4.37   | 1.61 |
| -1 | 4  | -10 | 175.15 | 7.35 |
| 1  | 4  | 10  | 137.11 | 6.77 |
| -1 | 4  | -10 | 185.99 | 6.26 |
| -1 | -4 | -10 | 178.28 | 6.74 |
| -2 | -4 | -10 | 58.63  | 3.69 |
| -2 | 4  | -10 | 66.70  | 4.36 |
| -3 | 4  | -10 | 0.01   | 1.29 |
| 3  | 4  | 10  | -1.64  | 1.22 |
| -3 | -4 | -10 | -0.36  | 1.33 |
| -4 | -4 | -10 | -0.09  | 1.20 |
| 4  | 4  | 10  | -0.68  | 1.73 |
| -4 | 4  | -10 | 3.56   | 1.68 |
| 5  | 4  | 10  | 1.56   | 1.87 |
| -5 | 4  | -10 | 3.71   | 1.79 |
| 6  | 4  | 10  | 0.73   | 1.81 |
| -6 | 4  | -10 | 0.39   | 1.03 |
| 7  | 4  | 10  | 0.15   | 2.21 |
| -7 | 4  | -10 | 2.88   | 1.88 |
| -9 | 5  | 10  | 0.10   | 2.04 |
| 8  | 5  | -10 | -2.48  | 1.62 |
| -8 | 5  | 10  | -2.19  | 1.60 |
| -7 | 5  | 10  | 4.63   | 2.09 |
| 7  | 5  | -10 | 3.99   | 2.05 |
| 6  | 5  | -10 | 6.54   | 2.05 |
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| 6  | -5 | -10 | 7.86   | 2.10 |
| 5  | 5  | -10 | 5.00   | 1.87 |
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| 5  | -5 | -10 | 8.53   | 2.06 |
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| 4  | 5  | -10 | 3.00   | 1.72 |
| 4  | -5 | -10 | 2.18   | 1.48 |
| 3  | -5 | -10 | -0.02  | 1.36 |
| -3 | 5  | 10  | -0.42  | 1.30 |
| 3  | 5  | -10 | 0.49   | 1.55 |
| 2  | 5  | -10 | -2.03  | 1.33 |
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| 2  | -5 | -10 | 0.42   | 1.43 |
| 1  | -5 | -10 | 4.60   | 1.83 |
| 1  | 5  | -10 | 5.37   | 2.28 |
| -1 | 5  | 10  | 4.89   | 1.96 |
| 0  | 5  | 10  | 35.60  | 3.55 |
| 0  | -5 | -10 | 24.12  | 2.70 |
| 0  | 5  | -10 | 34.97  | 3.58 |
| -1 | -5 | -10 | -0.25  | 1.37 |
| 1  | 5  | 10  | 2.21   | 1.93 |
| -1 | 5  | -10 | -2.44  | 1.58 |
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| 2  | 5  | 10  | 24.06  | 3.11 |
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| -3 | -5 | -10 | 7.54   | 1.89 |
| -3 | 5  | -10 | 6.05   | 2.13 |

|    |    |     |       |      |
|----|----|-----|-------|------|
| -4 | 5  | -10 | 1.80  | 1.82 |
| 4  | 5  | 10  | 0.81  | 1.78 |
| -5 | 5  | -10 | 0.92  | 1.13 |
| 5  | 5  | 10  | -0.74 | 1.87 |
| 6  | 5  | 10  | 6.20  | 2.77 |
| -6 | 5  | -10 | 4.88  | 2.02 |
| 7  | 5  | 10  | 7.17  | 2.93 |
| -7 | 5  | -10 | 7.00  | 2.45 |
| 8  | 6  | -10 | 4.84  | 2.41 |
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| -7 | 6  | 10  | 0.26  | 1.66 |
| 7  | 6  | -10 | -1.64 | 1.86 |
| -6 | 6  | 10  | 11.46 | 2.56 |
| 6  | 6  | -10 | 15.38 | 2.83 |
| 6  | -6 | -10 | 18.49 | 2.75 |
| 5  | 6  | -10 | 3.22  | 1.77 |
| 5  | -6 | -10 | 2.99  | 1.91 |
| -5 | 6  | 10  | 2.89  | 1.68 |
| 4  | 6  | -10 | 33.05 | 3.55 |
| -4 | 6  | 10  | 39.68 | 3.77 |
| 4  | -6 | -10 | 34.84 | 3.34 |
| -3 | 6  | 10  | 22.76 | 2.88 |
| 3  | -6 | -10 | 23.62 | 2.81 |
| 3  | 6  | -10 | 27.47 | 3.24 |
| 2  | 6  | -10 | 31.65 | 3.62 |
| 2  | -6 | -10 | 27.15 | 2.91 |
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| 0  | -6 | -10 | 31.34 | 3.10 |
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| 3  | 6  | 10  | 7.38  | 2.51 |
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| 4  | 6  | 10  | 0.10  | 2.02 |
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| -5 | 6  | -10 | 0.05  | 1.64 |
| -6 | 6  | -10 | 4.66  | 2.45 |
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| 3  | 7  | -10 | 8.51  | 2.65 |

|    |    |     |       |      |
|----|----|-----|-------|------|
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| 2  | -7 | -10 | 3.85  | 1.90 |
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| 0  | 7  | 10  | 5.37  | 2.13 |
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| -1 | -7 | -10 | 2.87  | 1.47 |
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| -3 | 7  | -10 | 2.59  | 1.70 |
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| 1  | -8 | -10 | 2.83  | 1.62 |
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| 1  | 8  | 10  | 0.40  | 2.05 |
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| -3 | 8  | -10 | 1.92  | 2.65 |
| 3  | 8  | 10  | 1.20  | 2.27 |
| 4  | 8  | 10  | -2.32 | 2.35 |
| -4 | 9  | 10  | 0.90  | 2.11 |
| -3 | 9  | 10  | 2.66  | 2.40 |
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| 1  | 9  | -10 | -1.93 | 2.35 |
| -1 | 9  | 10  | 0.43  | 2.02 |
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| -8 | 0  | 11  | -1.11 | 1.32 |

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|-----|----|-----|--------|-------|
| 8   | 0  | -11 | -1.20  | 1.36  |
| 7   | 0  | -11 | 7.60   | 1.94  |
| -7  | 0  | 11  | 4.69   | 1.65  |
| -6  | 0  | 11  | 0.47   | 1.14  |
| 6   | 0  | -11 | 0.69   | 1.26  |
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| 5   | 0  | -11 | -0.01  | 1.25  |
| 4   | 0  | -11 | 0.29   | 0.98  |
| -4  | 0  | 11  | -1.36  | 0.79  |
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| 3   | 0  | -11 | 1.13   | 0.97  |
| -2  | 0  | 11  | -1.24  | 0.82  |
| 2   | 0  | -11 | -1.29  | 0.99  |
| 2   | 0  | -11 | 0.80   | 0.83  |
| 1   | 0  | -11 | 28.23  | 2.44  |
| 1   | 0  | -11 | 23.27  | 1.80  |
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| 0   | 0  | -11 | -0.63  | 0.81  |
| 0   | 0  | -11 | -0.76  | 0.99  |
| 0   | 0  | 11  | -0.02  | 1.20  |
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| 1   | 0  | 11  | 15.07  | 2.00  |
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| -2  | 0  | -11 | 0.86   | 1.29  |
| -2  | 0  | -11 | -0.37  | 0.98  |
| 2   | 0  | 11  | 0.21   | 1.01  |
| 3   | 0  | 11  | 3.32   | 1.59  |
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| 4   | 0  | 11  | 1.93   | 1.53  |
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| 5   | 0  | 11  | 4.52   | 1.92  |
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| 7   | 0  | 11  | 5.77   | 2.24  |
| -7  | 0  | -11 | 3.64   | 1.85  |
| -8  | 0  | -11 | -0.46  | 1.60  |
| 8   | 0  | 11  | 0.80   | 2.26  |
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| -10 | 1  | 11  | -2.91  | 1.72  |
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| 9   | 1  | -11 | -0.07  | 1.51  |
| -8  | 1  | 11  | 2.69   | 1.72  |
| 8   | 1  | -11 | 1.13   | 1.52  |
| 8   | -1 | -11 | 1.01   | 1.53  |
| 7   | 1  | -11 | 22.31  | 2.72  |
| 7   | -1 | -11 | 29.89  | 3.05  |
| -7  | 1  | 11  | 24.53  | 2.64  |
| 6   | -1 | -11 | 33.33  | 3.01  |
| 6   | 1  | -11 | 32.88  | 3.01  |
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| 5   | 1  | -11 | 346.37 | 11.35 |
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| 4   | 1  | -11 | 12.70  | 1.92  |
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| -3  | 1  | 11  | 13.42  | 1.80  |

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|-----|----|-----|--------|------|
| -3  | -1 | 11  | 13.95  | 1.51 |
| 3   | 1  | -11 | 15.54  | 1.96 |
| 3   | 1  | -11 | 15.95  | 1.79 |
| 2   | 1  | -11 | 7.67   | 1.60 |
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| 1   | -1 | -11 | 75.20  | 3.94 |
| 1   | 1  | -11 | 75.00  | 3.44 |
| 1   | 1  | -11 | 63.75  | 3.54 |
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| 1   | -1 | -11 | 73.43  | 2.75 |
| 0   | 1  | 11  | 21.24  | 2.34 |
| 0   | 1  | -11 | 20.55  | 2.03 |
| 0   | -1 | -11 | 21.90  | 2.35 |
| 0   | 1  | -11 | 20.22  | 2.10 |
| 0   | -1 | -11 | 19.81  | 1.63 |
| 0   | -1 | 11  | 18.67  | 1.94 |
| 1   | -1 | 11  | 0.54   | 1.17 |
| -1  | 1  | -11 | 1.25   | 1.17 |
| -1  | -1 | -11 | 0.75   | 0.81 |
| -1  | 1  | -11 | 0.38   | 1.08 |
| -1  | -1 | -11 | -0.04  | 1.22 |
| 1   | 1  | 11  | 0.00   | 1.18 |
| -2  | -1 | -11 | 3.83   | 1.20 |
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| 2   | 1  | 11  | 3.65   | 1.63 |
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| -3  | 1  | -11 | 93.09  | 4.57 |
| 3   | 1  | 11  | 99.88  | 5.07 |
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| 3   | -1 | 11  | 93.10  | 4.67 |
| -3  | -1 | -11 | 94.73  | 4.40 |
| -4  | 1  | -11 | 0.23   | 1.08 |
| -4  | -1 | -11 | 0.05   | 0.94 |
| 4   | -1 | 11  | 0.82   | 1.31 |
| 4   | 1  | 11  | 0.12   | 1.45 |
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| 5   | -1 | 11  | 7.51   | 2.07 |
| 5   | 1  | 11  | 11.29  | 2.55 |
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| 6   | 1  | 11  | 2.26   | 2.09 |
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| 7   | 1  | 11  | 20.08  | 3.46 |
| -7  | 1  | -11 | 18.90  | 3.02 |
| 7   | -1 | 11  | 20.28  | 3.29 |
| -7  | -1 | -11 | 22.24  | 3.07 |
| 8   | 1  | 11  | 0.64   | 2.39 |
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| 10  | 2  | -11 | 0.84   | 1.92 |

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|----|----|-----|--------|------|
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| -9 | 2  | 11  | -0.50  | 1.73 |
| -8 | 2  | 11  | 1.22   | 1.68 |
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| 8  | -2 | -11 | 0.26   | 1.61 |
| 7  | -2 | -11 | 25.27  | 2.93 |
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| -7 | 2  | 11  | 30.29  | 3.05 |
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| 6  | -2 | -11 | 28.90  | 2.94 |
| 6  | 2  | -11 | 23.73  | 2.69 |
| 5  | -2 | -11 | 33.08  | 2.96 |
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| 4  | -2 | -11 | -0.22  | 1.32 |
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| -3 | 2  | 11  | 2.44   | 1.30 |
| 3  | 2  | -11 | 3.58   | 1.38 |
| 3  | -2 | -11 | 0.60   | 1.23 |
| 3  | 2  | -11 | 2.42   | 1.40 |
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| 2  | -2 | -11 | 1.72   | 1.12 |
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| 1  | 2  | -11 | 102.10 | 4.60 |
| 1  | 2  | -11 | 101.11 | 4.63 |
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| -1 | -2 | -11 | 0.58   | 1.25 |
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| 4  | 2  | 11  | 0.99   | 1.59 |
| -5 | -2 | -11 | 23.08  | 2.68 |
| 5  | 2  | 11  | 19.38  | 2.97 |
| 5  | -2 | 11  | 22.00  | 2.63 |
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| 6  | -2 | 11  | 11.31  | 2.42 |

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|-----|----|-----|--------|------|
| 6   | 2  | 11  | 7.97   | 2.55 |
| -6  | -2 | -11 | 8.53   | 2.12 |
| -6  | 2  | -11 | 13.23  | 2.40 |
| -7  | -2 | -11 | 2.15   | 1.69 |
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| 8   | -2 | 11  | 2.25   | 2.20 |
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| 10  | 3  | -11 | 22.53  | 3.22 |
| -10 | 3  | 11  | 13.56  | 3.11 |
| -9  | 3  | 11  | 1.10   | 1.81 |
| 9   | 3  | -11 | 0.08   | 1.39 |
| 8   | 3  | -11 | 14.49  | 2.42 |
| -8  | 3  | 11  | 13.70  | 2.65 |
| 7   | -3 | -11 | 26.71  | 2.97 |
| 7   | 3  | -11 | 24.94  | 2.82 |
| -7  | 3  | 11  | 30.00  | 3.17 |
| 6   | 3  | -11 | 29.08  | 2.89 |
| 6   | -3 | -11 | 26.47  | 2.84 |
| -6  | 3  | 11  | 26.13  | 2.86 |
| 5   | -3 | -11 | 23.44  | 2.75 |
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| 5   | 3  | -11 | 25.80  | 2.47 |
| 5   | 3  | -11 | 23.52  | 2.61 |
| 4   | 3  | -11 | 10.15  | 1.85 |
| 4   | -3 | -11 | 9.40   | 2.05 |
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| 3   | 3  | -11 | 30.75  | 2.71 |
| 3   | -3 | -11 | 36.17  | 3.17 |
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| 3   | 3  | -11 | 35.71  | 2.93 |
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| 2   | 3  | -11 | 1.19   | 1.05 |
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| 2   | -3 | -11 | -0.11  | 1.25 |
| 1   | 3  | -11 | -1.05  | 1.35 |
| 1   | 3  | -11 | -0.15  | 1.06 |
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| 1   | -3 | -11 | -0.22  | 1.28 |
| 0   | 3  | 11  | 10.46  | 2.30 |
| 0   | -3 | -11 | 9.45   | 2.10 |
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| -2  | 3  | -11 | 140.31 | 6.02 |
| -2  | -3 | -11 | 132.10 | 5.79 |
| 2   | 3  | 11  | 136.15 | 6.43 |
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| 3   | 3  | 11  | 32.56  | 3.50 |
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| 4   | 3  | 11  | 5.01   | 2.15 |

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|-----|----|-----|--------|------|
| -4  | -3 | -11 | 1.57   | 1.24 |
| -4  | 3  | -11 | 0.86   | 1.45 |
| 5   | 3  | 11  | -1.41  | 1.56 |
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| -5  | -3 | -11 | 0.89   | 1.19 |
| 6   | 3  | 11  | 8.07   | 2.75 |
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| -6  | -3 | -11 | 2.65   | 1.62 |
| 7   | 3  | 11  | -0.68  | 2.22 |
| -7  | 3  | -11 | 1.39   | 1.74 |
| 10  | 4  | -11 | 5.22   | 2.22 |
| -10 | 4  | 11  | 2.38   | 2.65 |
| -9  | 4  | 11  | 3.08   | 2.40 |
| 9   | 4  | -11 | 1.69   | 1.68 |
| 8   | 4  | -11 | 2.35   | 1.51 |
| -8  | 4  | 11  | -0.92  | 1.70 |
| -7  | 4  | 11  | 11.30  | 2.61 |
| 7   | -4 | -11 | 6.47   | 2.18 |
| 7   | 4  | -11 | 9.69   | 2.23 |
| 6   | -4 | -11 | -0.38  | 1.45 |
| 6   | 4  | -11 | 0.14   | 1.42 |
| -6  | 4  | 11  | 0.13   | 1.36 |
| 5   | -4 | -11 | 2.55   | 1.60 |
| 5   | 4  | -11 | 0.27   | 1.35 |
| -5  | 4  | 11  | 1.44   | 1.63 |
| 4   | 4  | -11 | 57.58  | 3.83 |
| 4   | -4 | -11 | 63.44  | 4.15 |
| -4  | 4  | 11  | 63.91  | 4.25 |
| -3  | 4  | 11  | 35.58  | 3.28 |
| 3   | 4  | -11 | 36.29  | 3.18 |
| 3   | 4  | -11 | 36.05  | 3.28 |
| 3   | -4 | -11 | 37.84  | 3.25 |
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| 2   | -4 | -11 | -0.38  | 1.47 |
| 2   | 4  | -11 | -1.15  | 1.59 |
| 2   | 4  | -11 | -0.01  | 0.93 |
| 1   | 4  | -11 | 0.76   | 1.78 |
| 1   | 4  | -11 | 4.86   | 1.40 |
| -1  | 4  | 11  | 1.65   | 1.66 |
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| 0   | 4  | 11  | -0.30  | 1.76 |
| 0   | 4  | -11 | -1.24  | 1.49 |
| 0   | -4 | -11 | 1.06   | 1.43 |
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| -1  | -4 | -11 | 133.41 | 6.01 |
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| 2   | 4  | 11  | -1.15  | 1.52 |
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| 5   | 4  | 11  | -1.19  | 1.23 |
| -5  | 4  | -11 | 2.57   | 1.78 |
| 6   | 4  | 11  | 1.21   | 2.01 |

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|----|----|-----|-------|------|
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| -7 | 4  | -11 | 1.69  | 1.55 |
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| 5  | -5 | -11 | 2.60  | 1.67 |
| 5  | 5  | -11 | 0.88  | 1.49 |
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| -4 | 5  | 11  | 26.03 | 3.01 |
| 4  | -5 | -11 | 22.70 | 2.85 |
| -3 | 5  | 11  | 1.34  | 1.47 |
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| 2  | 5  | -11 | 16.71 | 2.77 |
| 2  | -5 | -11 | 23.40 | 2.83 |
| 1  | 5  | -11 | 18.22 | 2.88 |
| 1  | 5  | 11  | 15.94 | 2.31 |
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| 4  | 5  | 11  | 1.63  | 2.07 |
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| 6  | -6 | -11 | 10.79 | 2.48 |
| 6  | 6  | -11 | 7.57  | 2.33 |
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| 3  | 6  | -11 | -2.37 | 1.57 |
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|----|----|-----|-------|------|
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| 1  | -6 | -11 | 11.63 | 2.36 |
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| 1  | 6  | -11 | 11.61 | 2.91 |
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| 0  | -6 | -11 | 1.62  | 1.16 |
| 0  | 6  | -11 | -2.06 | 1.74 |
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| -1 | -6 | -11 | 18.31 | 2.68 |
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| -4 | 6  | -11 | 2.35  | 1.92 |
| 4  | 6  | 11  | 2.56  | 2.22 |
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| 4  | 7  | -11 | -0.74 | 1.63 |
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| 0  | 7  | -11 | 12.40 | 3.13 |
| 0  | 7  | 11  | 9.78  | 2.65 |
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| -1 | 7  | -11 | 2.47  | 2.39 |
| -1 | -7 | -11 | 4.65  | 1.88 |
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| 3  | 7  | 11  | -2.29 | 1.70 |
| 4  | 7  | 11  | 2.62  | 2.52 |
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| 6  | 8  | -11 | 3.34  | 2.77 |
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| 4  | -8 | -11 | 1.94  | 2.04 |
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| 4  | 8  | -11 | -0.14 | 2.29 |
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|-----|----|-----|-------|------|
| 3   | -8 | -11 | -0.59 | 1.67 |
| 2   | -8 | -11 | 0.58  | 1.79 |
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| 1   | -8 | -11 | 0.25  | 1.73 |
| 1   | 8  | -11 | -2.31 | 2.28 |
| 0   | 8  | -11 | 6.52  | 3.12 |
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| 2   | 8  | 11  | 0.44  | 2.37 |
| 3   | 8  | 11  | 0.52  | 2.27 |
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| -1  | 9  | 11  | 8.04  | 2.93 |
| 0   | 9  | 11  | 2.61  | 2.26 |
| 9   | 0  | -12 | -1.21 | 1.57 |
| 8   | 0  | -12 | 4.90  | 1.95 |
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| 7   | 0  | -12 | 0.04  | 1.43 |
| -6  | 0  | 12  | 2.30  | 1.37 |
| 6   | 0  | -12 | 1.09  | 1.37 |
| 5   | 0  | -12 | -0.47 | 1.24 |
| -5  | 0  | 12  | 0.53  | 1.04 |
| -4  | 0  | 12  | 10.21 | 1.58 |
| 4   | 0  | -12 | 9.94  | 1.90 |
| -3  | 0  | 12  | -0.17 | 0.96 |
| 3   | 0  | -12 | 0.65  | 0.91 |
| 2   | 0  | -12 | 12.46 | 2.13 |
| -2  | 0  | 12  | 11.08 | 1.69 |
| 1   | 0  | -12 | 2.15  | 1.23 |
| -1  | 0  | 12  | -0.33 | 1.14 |
| 1   | 0  | -12 | -1.11 | 0.87 |
| 0   | 0  | -12 | 3.69  | 1.48 |
| 0   | 0  | 12  | 6.25  | 1.69 |
| 0   | 0  | -12 | 3.74  | 1.17 |
| 1   | 0  | 12  | 2.07  | 1.46 |
| -1  | 0  | -12 | 0.23  | 0.96 |
| -1  | 0  | 12  | 1.80  | 1.49 |
| -2  | 0  | -12 | 48.30 | 3.02 |
| 2   | 0  | 12  | 48.49 | 3.54 |
| -2  | 0  | -12 | 46.37 | 3.29 |
| 3   | 0  | 12  | -0.52 | 1.45 |
| -3  | 0  | -12 | 0.23  | 1.13 |
| -4  | 0  | -12 | 3.66  | 1.41 |
| 4   | 0  | 12  | 1.94  | 1.67 |
| 5   | 0  | 12  | -1.03 | 1.56 |
| -5  | 0  | -12 | -0.02 | 1.25 |
| 6   | 0  | 12  | 4.61  | 2.17 |
| -6  | 0  | -12 | 3.67  | 1.71 |
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| 7   | 0  | 12  | -0.93 | 1.95 |
| 8   | 0  | 12  | 1.28  | 2.59 |
| -10 | 1  | 12  | 9.05  | 2.63 |
| 9   | 1  | -12 | 0.09  | 1.57 |
| -9  | 1  | 12  | 0.19  | 1.68 |
| -8  | 1  | 12  | 2.27  | 1.73 |
| 8   | -1 | -12 | 2.23  | 1.83 |
| 8   | 1  | -12 | 0.05  | 1.36 |

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|----|----|-----|--------|------|
| 7  | 1  | -12 | -1.19  | 1.07 |
| 7  | -1 | -12 | 0.77   | 1.61 |
| -7 | 1  | 12  | 0.21   | 1.43 |
| 6  | -1 | -12 | 55.55  | 3.86 |
| -6 | 1  | 12  | 57.68  | 3.69 |
| 6  | 1  | -12 | 58.77  | 3.91 |
| 5  | -1 | -12 | 259.05 | 9.10 |
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| 5  | 1  | -12 | 257.48 | 9.08 |
| 4  | -1 | -12 | 13.41  | 2.16 |
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| 3  | -1 | -12 | 14.87  | 2.24 |
| 3  | 1  | -12 | 18.00  | 2.26 |
| -3 | 1  | 12  | 20.80  | 2.17 |
| -2 | 1  | 12  | 2.88   | 1.40 |
| 2  | -1 | -12 | 1.91   | 1.45 |
| 2  | 1  | -12 | 2.69   | 1.28 |
| 2  | 1  | -12 | 1.94   | 1.18 |
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| 0  | 1  | 12  | 25.40  | 2.62 |
| 0  | -1 | -12 | 22.15  | 2.46 |
| 0  | 1  | -12 | 24.49  | 2.21 |
| 0  | -1 | -12 | 24.03  | 1.92 |
| 0  | -1 | 12  | 22.97  | 2.27 |
| 0  | 1  | -12 | 22.79  | 2.38 |
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| 1  | -1 | 12  | 0.02   | 1.21 |
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| -1 | 1  | -12 | 1.01   | 1.27 |
| -2 | -1 | -12 | 150.65 | 5.64 |
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| -2 | -1 | -12 | 150.17 | 6.01 |
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| 2  | -1 | 12  | 152.34 | 5.97 |
| 2  | 1  | 12  | 153.04 | 6.54 |
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| 3  | 1  | 12  | 15.99  | 2.42 |
| 3  | -1 | 12  | 13.98  | 2.19 |
| -4 | -1 | -12 | 20.81  | 2.45 |
| 4  | -1 | 12  | 25.24  | 2.77 |
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| 5  | -1 | 12  | 2.17   | 1.84 |
| 6  | -1 | 12  | 3.28   | 1.86 |
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| 7  | -1 | 12  | 0.52   | 1.97 |

|     |    |     |       |      |
|-----|----|-----|-------|------|
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| -7  | -1 | -12 | 2.32  | 1.79 |
| 7   | 1  | 12  | 1.38  | 2.40 |
| 8   | -1 | 12  | 2.28  | 2.73 |
| -11 | 2  | 12  | 0.67  | 2.45 |
| 10  | 2  | -12 | -0.10 | 1.98 |
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| -9  | 2  | 12  | 3.78  | 2.18 |
| 9   | 2  | -12 | 2.03  | 1.76 |
| 8   | 2  | -12 | 0.27  | 1.52 |
| 8   | -2 | -12 | -1.79 | 1.58 |
| -8  | 2  | 12  | 0.79  | 1.75 |
| 7   | -2 | -12 | 1.09  | 1.47 |
| 7   | 2  | -12 | 1.50  | 1.51 |
| -7  | 2  | 12  | 1.75  | 1.47 |
| -6  | 2  | 12  | -0.82 | 1.33 |
| 6   | -2 | -12 | 0.44  | 1.34 |
| 6   | 2  | -12 | -0.50 | 1.08 |
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| 5   | 2  | -12 | 27.23 | 2.85 |
| 5   | -2 | -12 | 38.53 | 3.39 |
| -4  | 2  | 12  | 2.74  | 1.41 |
| 4   | 2  | -12 | 1.01  | 0.97 |
| 4   | -2 | -12 | 3.70  | 1.76 |
| -3  | 2  | 12  | 19.05 | 2.36 |
| 3   | 2  | -12 | 24.99 | 2.43 |
| 3   | -2 | -12 | 20.85 | 2.60 |
| 3   | 2  | -12 | 26.77 | 2.64 |
| 2   | -2 | -12 | 0.83  | 1.26 |
| 2   | 2  | -12 | 1.28  | 1.25 |
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| 2   | 2  | -12 | 0.90  | 1.43 |
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| 1   | -2 | -12 | 10.06 | 2.12 |
| 1   | 2  | -12 | 6.32  | 1.55 |
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| 0   | -2 | -12 | 39.48 | 3.25 |
| 0   | 2  | 12  | 46.30 | 3.47 |
| 0   | 2  | -12 | 42.64 | 2.96 |
| 0   | 2  | -12 | 49.00 | 3.29 |
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| 1   | 2  | 12  | 31.27 | 3.08 |
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| 2   | 2  | 12  | 12.59 | 2.46 |
| -2  | -2 | -12 | 16.47 | 2.37 |
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| -4  | -2 | -12 | 18.40 | 2.38 |
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| 4   | 2  | 12  | 19.70 | 2.95 |
| 5   | 2  | 12  | -1.73 | 1.68 |
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| -6  | 2  | -12 | 1.44  | 1.45 |

|     |    |     |       |      |
|-----|----|-----|-------|------|
| -6  | -2 | -12 | 5.20  | 1.92 |
| 6   | 2  | 12  | 0.08  | 1.99 |
| 7   | 2  | 12  | 0.13  | 2.37 |
| -7  | 2  | -12 | 2.82  | 1.70 |
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| 10  | 3  | -12 | 1.01  | 2.06 |
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| 9   | 3  | -12 | 3.58  | 1.84 |
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| -8  | 3  | 12  | 6.46  | 2.31 |
| 8   | 3  | -12 | 9.04  | 2.25 |
| 7   | -3 | -12 | -2.31 | 1.49 |
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| 6   | -3 | -12 | 0.04  | 1.56 |
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| 5   | -3 | -12 | 30.44 | 3.16 |
| 5   | 3  | -12 | 28.20 | 2.94 |
| 4   | 3  | -12 | 4.20  | 1.46 |
| 4   | 3  | 12  | 6.97  | 1.90 |
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| 4   | -3 | -12 | 5.20  | 1.87 |
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| 3   | 3  | -12 | 14.99 | 2.34 |
| 3   | -3 | -12 | 13.11 | 2.39 |
| 3   | 3  | -12 | 19.74 | 2.41 |
| 2   | 3  | -12 | 10.06 | 2.12 |
| 2   | -3 | -12 | 10.58 | 2.15 |
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| 2   | 3  | -12 | 11.16 | 1.92 |
| 1   | -3 | -12 | 2.96  | 1.64 |
| -1  | 3  | 12  | 0.22  | 1.53 |
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| 1   | 3  | 12  | 2.20  | 1.73 |
| 0   | 3  | -12 | 7.59  | 2.07 |
| 0   | 3  | -12 | 8.48  | 1.79 |
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| 0   | 3  | 12  | 8.32  | 2.23 |
| 1   | 3  | 12  | 46.97 | 3.93 |
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| -1  | -3 | -12 | 45.81 | 3.60 |
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| -2  | -3 | 12  | 56.08 | 3.76 |
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| 3   | 3  | 12  | 8.34  | 2.34 |
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| 4   | 3  | 12  | 0.95  | 2.02 |
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| -5  | 3  | -12 | 0.86  | 1.36 |
| 5   | 3  | 12  | 0.65  | 2.14 |
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| 6   | 3  | 12  | -0.53 | 2.02 |

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| 0  | -4 | -12 | 15.91 | 2.48 |
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| 0  | 6  | 12  | 0.43  | 1.93 |
| 0  | 6  | -12 | 1.97  | 2.32 |

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|----|----|-----|-------|------|
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| -1 | -6 | -12 | 6.64  | 2.04 |
| 1  | 6  | 12  | 3.41  | 2.34 |
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| 7  | 7  | -12 | 4.01  | 2.73 |
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| 5  | -7 | -12 | 3.90  | 2.20 |
| 4  | -7 | -12 | 2.73  | 2.07 |
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| 1  | 7  | -12 | -1.32 | 1.94 |
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| 1  | 8  | -12 | -0.74 | 2.41 |
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| 1  | 8  | 12  | 1.90  | 2.54 |

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| 8  | 0  | -13 | -0.79 | 1.58 |
| 7  | 0  | -13 | -0.51 | 1.25 |
| 6  | 0  | -13 | -0.72 | 1.28 |
| -5 | 0  | 13  | 16.25 | 1.98 |
| 5  | 0  | -13 | 17.17 | 2.52 |
| 4  | 0  | -13 | -0.25 | 1.18 |
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| -4 | 0  | -13 | -0.18 | 1.11 |
| 5  | 0  | 13  | 0.38  | 1.73 |
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| 6  | 0  | 13  | -3.07 | 1.72 |
| -6 | 0  | -13 | 1.40  | 1.51 |
| 7  | 0  | 13  | 36.08 | 4.46 |
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| 10 | 1  | -13 | 0.63  | 1.92 |
| 9  | 1  | -13 | 6.60  | 2.24 |
| 9  | -1 | -13 | 8.39  | 2.68 |
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| 8  | -1 | -13 | 8.26  | 2.41 |
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| -1 | 1  | 13  | 3.30  | 1.73 |

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| 1   | 1  | -13 | 4.81  | 1.41 |
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| 9   | 2  | -13 | 5.93  | 2.37 |
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| 8   | -2 | -13 | 0.92  | 1.91 |
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| 2   | 2  | -13 | 10.93 | 2.00 |
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| 6   | 2  | 13  | 1.83  | 2.33 |
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| 7   | -3 | -13 | -0.94 | 1.70 |
| 7   | 3  | -13 | -0.60 | 1.30 |
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|----|----|-----|-------|------|
| 2  | 3  | -13 | 7.92  | 1.93 |
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| 0  | 3  | -13 | 12.03 | 2.32 |
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| 2  | 3  | 13  | 15.07 | 2.72 |
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|----|----|-----|-------|------|
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| 1  | 8  | -13 | 2.07  | 2.85 |
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| 8  | 0  | -14 | 6.76  | 2.23 |
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| 6  | 0  | -14 | 64.25 | 4.52 |
| 5  | 0  | -14 | -0.27 | 1.39 |
| 4  | 0  | -14 | 93.78 | 5.15 |
| 3  | 0  | -14 | -0.62 | 1.25 |
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| 2  | 0  | -14 | 0.08  | 1.39 |
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| 0  | 0  | -14 | 15.38 | 2.36 |
| 0  | 0  | 14  | 19.32 | 2.53 |
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| 2  | 0  | 14  | 32.04 | 3.32 |
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| 10 | 1  | -14 | 5.74  | 2.77 |
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| 9  | -1 | -14 | 9.43  | 2.81 |
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| 9   | 2  | -14 | 3.17  | 1.95 |
| 8   | -2 | -14 | -0.49 | 1.90 |
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| 2  | 3  | -14 | 6.17  | 1.90 |
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| 1  | 4  | 14  | 1.30  | 2.09 |

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| 5  | 6  | -14 | 7.32  | 2.38 |

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| 2  | -6 | -14 | -1.21 | 1.73 |
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| 2  | 6  | -14 | -1.57 | 1.47 |
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| 4  | -7 | -14 | -2.04 | 1.87 |
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| 2  | 7  | -14 | -0.60 | 2.29 |
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| 0  | -7 | -14 | 4.66  | 2.16 |
| 0  | 7  | -14 | 3.47  | 2.69 |
| 0  | 7  | 14  | 1.34  | 2.19 |
| 1  | 7  | 14  | 2.33  | 2.58 |
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| -1 | -7 | -14 | -1.22 | 1.73 |
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| 3  | 8  | -14 | 2.45  | 2.60 |

|    |    |     |       |      |
|----|----|-----|-------|------|
| 3  | 8  | -14 | -0.75 | 3.05 |
| 2  | 8  | -14 | -3.06 | 2.62 |
| 9  | 0  | -15 | 26.28 | 3.78 |
| 8  | 0  | -15 | -0.88 | 1.79 |
| 7  | 0  | -15 | 4.17  | 2.12 |
| 6  | 0  | -15 | -2.15 | 1.45 |
| 5  | 0  | -15 | 59.80 | 4.43 |
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| 3  | 0  | -15 | 6.13  | 2.08 |
| 2  | 0  | -15 | 0.88  | 1.59 |
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| 0  | 0  | -15 | -0.17 | 1.63 |
| 1  | 0  | 15  | -2.75 | 1.75 |
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| 2  | 0  | 15  | 2.29  | 2.07 |
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| -3 | 0  | -15 | 25.05 | 2.83 |
| 3  | 0  | 15  | 16.18 | 3.04 |
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| 4  | 0  | 15  | 1.50  | 2.33 |
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| 5  | 0  | 15  | 2.63  | 2.55 |
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| 6  | 0  | 15  | -4.61 | 2.40 |
| 10 | 1  | -15 | 0.96  | 2.36 |
| 9  | 1  | -15 | -0.22 | 2.04 |
| 9  | -1 | -15 | -2.11 | 2.06 |
| 8  | -1 | -15 | 4.92  | 2.51 |
| 8  | 1  | -15 | 6.36  | 2.35 |
| 7  | -1 | -15 | 2.91  | 2.15 |
| 7  | 1  | -15 | -1.49 | 1.36 |
| 6  | 1  | -15 | 1.68  | 1.68 |
| 6  | -1 | -15 | -1.08 | 1.52 |
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|----|----|-----|-------|------|
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| 7  | 2  | -15 | -0.46 | 1.41 |
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| 4  | -2 | -15 | 24.24 | 3.21 |
| 4  | 2  | -15 | 22.86 | 2.92 |
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|    |    |     |       |      |
|----|----|-----|-------|------|
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| 7  | -3 | -15 | -2.52 | 1.87 |
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| 6  | -3 | -15 | -0.65 | 1.71 |
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| 6  | 3  | -15 | 1.54  | 1.61 |
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| 5  | -3 | -15 | 17.61 | 3.09 |
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| 3  | -3 | -15 | 0.44  | 1.66 |
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| 1  | 3  | -15 | 2.53  | 1.85 |
| 1  | 3  | -15 | 2.90  | 1.83 |
| 1  | -3 | -15 | 1.68  | 1.83 |
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| 0  | 3  | 15  | 2.89  | 2.09 |
| 0  | 3  | -15 | 3.61  | 1.88 |
| 0  | 3  | -15 | 2.64  | 1.73 |
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| 2  | 3  | 15  | -1.51 | 1.80 |
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| -3 | -3 | -15 | 0.41  | 1.79 |
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| 5  | -4 | -15 | 0.51  | 1.99 |
| 5  | 4  | -15 | 0.11  | 1.72 |
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| 4  | -4 | -15 | 0.05  | 1.82 |
| 4  | 4  | -15 | -0.26 | 1.41 |
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| 3  | 4  | -15 | 1.50  | 1.67 |
| 3  | -4 | -15 | -0.72 | 1.62 |

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| 0  | 4  | 15  | 3.45  | 1.98 |
| 0  | 4  | 15  | 4.88  | 2.52 |
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| 2  | -5 | -15 | 10.59 | 2.72 |
| 2  | 5  | 15  | 9.71  | 2.80 |
| 1  | 5  | -15 | 0.23  | 1.73 |
| 1  | 5  | 15  | 0.47  | 2.01 |
| -1 | 5  | 15  | 0.43  | 2.15 |
| 1  | -5 | -15 | 0.22  | 1.62 |
| 0  | -5 | -15 | 2.60  | 2.00 |
| 0  | 5  | -15 | 2.60  | 2.09 |
| 0  | 5  | 15  | 3.46  | 2.71 |
| 1  | 5  | 15  | 2.30  | 2.42 |
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| 3  | 5  | 15  | 5.35  | 3.15 |
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| 7  | -6 | -15 | -0.39 | 2.45 |

|    |    |     |       |      |
|----|----|-----|-------|------|
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| 6  | -6 | -15 | 0.74  | 2.33 |
| -6 | 6  | 15  | -0.18 | 2.41 |
| 5  | 6  | -15 | 0.99  | 1.68 |
| 5  | -6 | -15 | -0.61 | 2.09 |
| -5 | 6  | 15  | 0.53  | 2.08 |
| 4  | 6  | -15 | 2.51  | 2.01 |
| 4  | -6 | -15 | 0.34  | 1.93 |
| 4  | 6  | 15  | -0.98 | 2.46 |
| -4 | 6  | 15  | -0.35 | 2.14 |
| 3  | 6  | -15 | -1.70 | 2.24 |
| -3 | 6  | 15  | -0.31 | 1.97 |
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| 3  | -6 | -15 | 2.02  | 2.11 |
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| 2  | 6  | 15  | 0.79  | 1.90 |
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| 0  | 6  | 15  | 21.17 | 3.69 |
| 0  | -6 | -15 | 19.15 | 3.29 |
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| -2 | 6  | -15 | 0.55  | 2.20 |
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| 2  | -7 | -15 | 0.51  | 1.78 |
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| 9  | 0  | -16 | 0.17  | 2.30 |
| 8  | 0  | -16 | -2.29 | 1.86 |
| 7  | 0  | -16 | -0.34 | 1.66 |
| 6  | 0  | -16 | 0.40  | 1.69 |
| 5  | 0  | -16 | 1.43  | 1.68 |
| 4  | 0  | -16 | 7.91  | 2.25 |
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| 0  | 0  | -16 | -0.85 | 1.64 |

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| 9  | -1 | -16 | -0.27 | 2.44 |
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| 5  | -1 | -16 | 18.51 | 2.99 |
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| 9  | -2 | -16 | 2.28  | 2.69 |
| 9  | 2  | -16 | 2.65  | 2.45 |
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| 8  | -2 | -16 | 0.77  | 2.35 |
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| 7  | 2  | -16 | 1.02  | 1.82 |
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| 6  | -2 | -16 | 1.35  | 1.91 |
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| 5  | 2  | -16 | 4.13  | 1.93 |
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| 4  | 2  | -16 | 16.60 | 2.91 |
| 4  | -2 | -16 | 22.16 | 3.26 |
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| 2  | -2 | -16 | 7.82  | 2.42 |

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| 2  | 2  | -16 | 5.45  | 1.98 |
| 1  | 2  | -16 | 0.81  | 1.63 |
| 1  | -2 | -16 | 1.81  | 1.74 |
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| 0  | 2  | 16  | 12.57 | 2.70 |
| 0  | -2 | -16 | 18.04 | 2.80 |
| 0  | 2  | -16 | 15.90 | 2.75 |
| -1 | -2 | -16 | -1.17 | 1.58 |
| -1 | 2  | -16 | 0.13  | 1.47 |
| 1  | 2  | 16  | 0.84  | 2.18 |
| 2  | 2  | 16  | 3.01  | 2.50 |
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| -2 | 2  | -16 | 3.22  | 1.70 |
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| 3  | 2  | 16  | 2.52  | 2.38 |
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| 5  | 2  | 16  | -3.67 | 2.79 |
| -9 | 3  | 16  | 0.70  | 2.39 |
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| 7  | -3 | -16 | -2.70 | 1.73 |
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| 6  | -3 | -16 | -0.71 | 1.91 |
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| 4  | -3 | -16 | 7.34  | 2.36 |
| 4  | 3  | -16 | 6.83  | 2.29 |
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| 0  | 3  | -16 | 2.18  | 1.89 |
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| 2  | 3  | 16  | -0.17 | 2.37 |
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| 3  | 3  | 16  | 0.73  | 2.60 |
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| 4  | 3  | 16  | 3.20  | 2.88 |
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|----|----|-----|-------|------|
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| 8  | -4 | -16 | 2.52  | 2.64 |
| 7  | -4 | -16 | -0.72 | 2.24 |
| -7 | 4  | 16  | 3.18  | 2.30 |
| 7  | 4  | -16 | -0.58 | 1.67 |
| 6  | -4 | -16 | 0.59  | 2.03 |
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| 5  | -4 | -16 | 1.26  | 1.95 |
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| 4  | -4 | -16 | 0.64  | 1.75 |
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| 3  | 4  | -16 | 0.36  | 1.74 |
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| 2  | -4 | -16 | 2.38  | 2.15 |
| -2 | 4  | 16  | 4.39  | 2.27 |
| 2  | 4  | -16 | 2.25  | 1.96 |
| 1  | 4  | -16 | 1.84  | 2.08 |
| 1  | -4 | -16 | -1.28 | 1.90 |
| 1  | 4  | -16 | -0.09 | 1.63 |
| -1 | 4  | 16  | 0.29  | 2.20 |
| 0  | -4 | -16 | -0.19 | 1.88 |
| 0  | 4  | 16  | 1.99  | 2.47 |
| 0  | 4  | -16 | 3.19  | 2.02 |
| -1 | 4  | -16 | -0.14 | 1.85 |
| 1  | 4  | 16  | 1.86  | 2.51 |
| -1 | -4 | -16 | 1.24  | 1.94 |
| -2 | -4 | -16 | 0.56  | 1.93 |
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| 3  | 4  | 16  | 0.37  | 2.37 |
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| -4 | 4  | -16 | 3.94  | 2.32 |
| 7  | -5 | -16 | 0.09  | 2.37 |
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| 4  | -5 | -16 | -1.84 | 1.74 |
| 4  | 5  | -16 | -0.04 | 1.90 |
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| 3  | 5  | -16 | -0.01 | 1.74 |
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| 3  | -5 | -16 | -0.37 | 1.72 |
| 2  | 5  | -16 | 2.82  | 2.25 |
| 2  | 5  | -16 | 0.29  | 2.34 |
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| 1  | -5 | -16 | 10.86 | 2.81 |
| 1  | 5  | -16 | 10.86 | 2.99 |
| 0  | -5 | -16 | 7.67  | 2.67 |
| 0  | 5  | -16 | 3.59  | 2.49 |

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|----|----|-----|-------|------|
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| -1 | -5 | -16 | 5.29  | 2.50 |
| 1  | 5  | 16  | 2.75  | 2.57 |
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| 2  | 5  | 16  | 2.37  | 2.96 |
| -3 | -5 | -16 | 1.93  | 2.31 |
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| 6  | -6 | -16 | 2.81  | 2.63 |
| 5  | -6 | -16 | 4.24  | 2.61 |
| 5  | 6  | -16 | 0.53  | 1.96 |
| -5 | 6  | 16  | 2.04  | 2.59 |
| 4  | 6  | -16 | -0.25 | 1.90 |
| -4 | 6  | 16  | -1.63 | 1.99 |
| 4  | -6 | -16 | -0.92 | 2.06 |
| 3  | -6 | -16 | 0.99  | 2.08 |
| 3  | 6  | -16 | -0.62 | 1.96 |
| 3  | 6  | -16 | 0.70  | 2.58 |
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| 2  | 6  | -16 | 3.11  | 2.75 |
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| 1  | 6  | -16 | 3.23  | 2.83 |
| 1  | -6 | -16 | -0.56 | 1.78 |
| 0  | 6  | 16  | -0.62 | 2.71 |
| 0  | 6  | -16 | 3.71  | 2.81 |
| 0  | -6 | -16 | 1.56  | 2.06 |
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| 3  | 7  | -16 | 3.09  | 2.44 |
| 3  | 7  | -16 | -0.27 | 2.87 |
| 2  | 7  | -16 | 0.98  | 2.84 |
| 1  | 7  | -16 | 0.55  | 2.98 |
| 9  | 0  | -17 | -0.29 | 2.47 |
| 8  | 0  | -17 | -0.02 | 2.06 |
| 7  | 0  | -17 | -2.04 | 1.94 |
| 6  | 0  | -17 | -0.44 | 1.87 |
| 5  | 0  | -17 | 21.47 | 3.36 |
| 4  | 0  | -17 | -1.07 | 1.72 |
| 3  | 0  | -17 | 1.32  | 1.74 |
| 2  | 0  | -17 | -0.19 | 1.76 |
| 1  | 0  | -17 | 9.32  | 2.47 |
| 0  | 0  | -17 | -1.76 | 1.80 |
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| 9  | -1 | -17 | -0.13 | 2.68 |
| 8  | 1  | -17 | 0.53  | 2.14 |
| 8  | -1 | -17 | 0.13  | 2.35 |
| 7  | -1 | -17 | -0.41 | 1.83 |
| 7  | 1  | -17 | 0.34  | 1.99 |
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| 5  | -1 | -17 | 8.90  | 2.49 |

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|----|----|-----|-------|------|
| 5  | 1  | -17 | 1.10  | 1.60 |
| 4  | -1 | -17 | -1.22 | 1.38 |
| 4  | 1  | -17 | 4.06  | 1.96 |
| 3  | 1  | -17 | -0.17 | 1.72 |
| 3  | -1 | -17 | 3.66  | 1.94 |
| 2  | 1  | -17 | -0.03 | 1.60 |
| 2  | -1 | -17 | -0.05 | 1.63 |
| 1  | 1  | -17 | 2.85  | 2.10 |
| 1  | -1 | -17 | 2.91  | 1.95 |
| 0  | 1  | -17 | 1.13  | 1.86 |
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| 1  | 1  | 17  | 28.47 | 3.67 |
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| 3  | 1  | 17  | 3.56  | 2.80 |
| 4  | 1  | 17  | 0.98  | 2.87 |
| -4 | 1  | -17 | 6.56  | 2.31 |
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| 9  | -2 | -17 | -0.49 | 2.69 |
| 8  | -2 | -17 | -0.49 | 2.45 |
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| 7  | -2 | -17 | 7.19  | 2.88 |
| 7  | 2  | -17 | 7.51  | 2.65 |
| 6  | 2  | -17 | 0.72  | 1.84 |
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| 5  | -2 | -17 | 6.94  | 2.57 |
| -5 | 2  | 17  | 6.07  | 2.28 |
| 5  | 2  | -17 | 4.35  | 2.19 |
| 4  | 2  | -17 | 10.71 | 2.68 |
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| 4  | -2 | -17 | 14.41 | 2.95 |
| 3  | -2 | -17 | 13.28 | 2.90 |
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| 2  | 2  | -17 | -0.33 | 1.72 |
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| 2  | -2 | -17 | 0.25  | 1.77 |
| 1  | 2  | -17 | 9.14  | 2.53 |
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| 0  | -2 | -17 | 6.89  | 2.42 |
| 0  | 2  | -17 | 7.16  | 2.28 |
| 0  | 2  | 17  | 10.39 | 2.86 |
| 1  | 2  | 17  | 6.22  | 2.66 |
| -1 | -2 | -17 | 6.58  | 2.54 |
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| 2  | 2  | 17  | -1.22 | 2.43 |
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| 4  | 2  | 17  | 3.26  | 3.17 |
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| 7  | -3 | -17 | -0.10 | 2.39 |
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| -6 | 3  | 17  | 3.51  | 2.45 |

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|----|----|-----|-------|------|
| 6  | -3 | -17 | 0.42  | 2.17 |
| 6  | 3  | -17 | 0.89  | 1.80 |
| 5  | -3 | -17 | -0.17 | 1.77 |
| 5  | 3  | -17 | -2.64 | 1.49 |
| -5 | 3  | 17  | 0.96  | 2.11 |
| -4 | 3  | 17  | -0.49 | 1.90 |
| 4  | 3  | -17 | -0.81 | 1.66 |
| 4  | -3 | -17 | 1.74  | 2.12 |
| 3  | 3  | -17 | -0.47 | 1.62 |
| 3  | -3 | -17 | -0.53 | 1.19 |
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| 2  | 3  | -17 | -0.12 | 1.83 |
| 2  | -3 | -17 | 1.38  | 1.81 |
| 1  | -3 | -17 | -0.57 | 1.99 |
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| 1  | 3  | -17 | 0.71  | 1.90 |
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| 0  | -3 | -17 | -0.24 | 1.87 |
| -1 | -3 | -17 | 2.16  | 1.96 |
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| 3  | 4  | 17  | 8.46  | 3.55 |

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| -6 | 5  | 17  | -1.60 | 2.37 |
| 6  | -5 | -17 | -1.15 | 2.26 |
| 5  | 5  | -17 | 0.25  | 2.13 |
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| 4  | -5 | -17 | 2.10  | 2.37 |
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| 3  | -5 | -17 | 1.39  | 2.24 |
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| 2  | 5  | -17 | -0.07 | 2.03 |
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| 7  | -1 | -18 | 1.97  | 2.15 |
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| 0  | -1 | -18 | 5.04  | 2.45 |

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| 6  | -3 | -18 | 4.30  | 2.74 |
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| 2  | 2  | -19 | -2.56 | 1.90 |
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| 2  | 3  | -19 | -1.64 | 1.99 |
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| 1  | -3 | -19 | 2.04  | 2.46 |
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| 1  | 3  | 19  | 5.77  | 3.37 |
| 2  | 3  | 19  | 0.99  | 3.14 |
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| 3  | -4 | -19 | 0.27  | 1.87 |
| -3 | 4  | 19  | 2.59  | 2.82 |
| 3  | 4  | -19 | -0.83 | 2.33 |
| 2  | -4 | -19 | 2.34  | 2.66 |
| -2 | 4  | 19  | 2.48  | 2.66 |
| 2  | 4  | -19 | -0.08 | 2.19 |
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| 1  | -4 | -19 | -0.50 | 2.16 |
| 0  | -4 | -19 | -0.59 | 2.42 |
| 0  | 4  | 19  | 4.51  | 3.39 |
| 3  | 5  | -19 | -0.90 | 2.43 |
| 5  | 0  | -20 | -0.45 | 2.16 |
| 4  | 0  | -20 | -0.64 | 2.40 |
| 3  | 0  | -20 | 2.52  | 2.44 |
| 2  | 0  | -20 | 9.28  | 3.17 |
| 1  | 0  | -20 | -0.85 | 2.42 |
| 0  | 0  | -20 | 1.67  | 2.51 |
| 5  | -1 | -20 | -1.85 | 2.17 |
| 5  | 1  | -20 | -1.75 | 2.39 |
| 4  | 1  | -20 | 2.04  | 2.60 |
| 4  | -1 | -20 | 0.14  | 2.51 |
| 3  | 1  | -20 | 1.67  | 2.32 |
| 3  | -1 | -20 | 0.69  | 2.28 |
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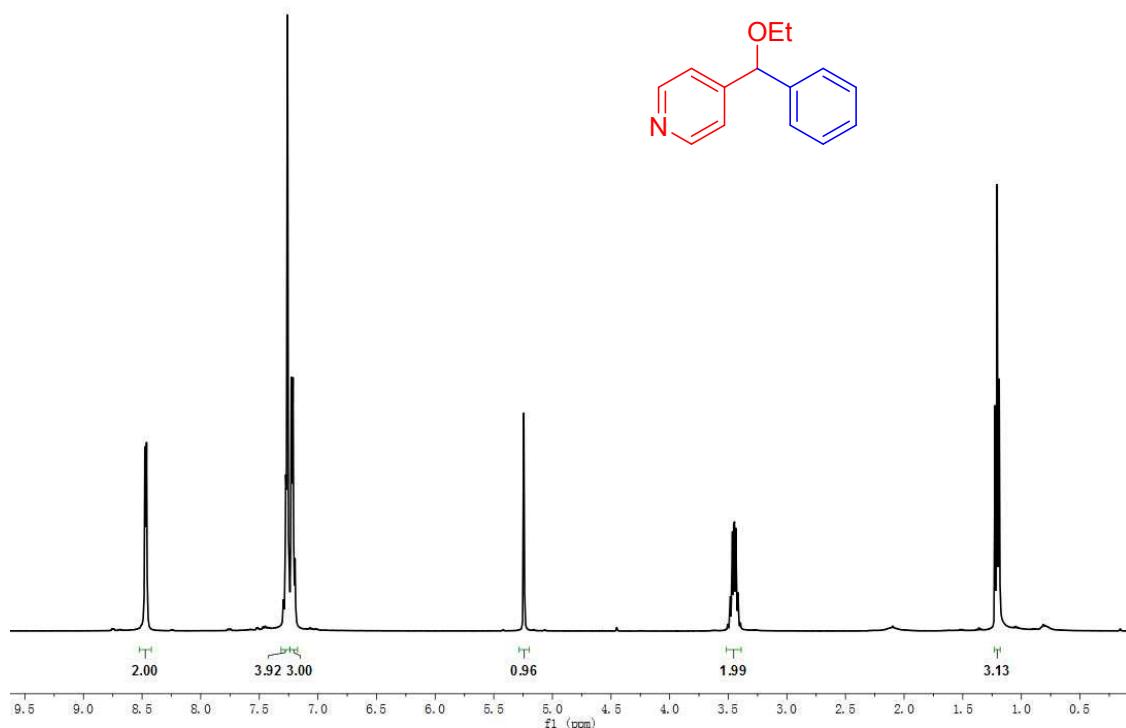
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2 -2 -20  3.52  2.72
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0 -2 -20  1.50  2.86
4  3 -20 -2.86  2.28
3  3 -20 -2.98  2.39
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## 9. References.

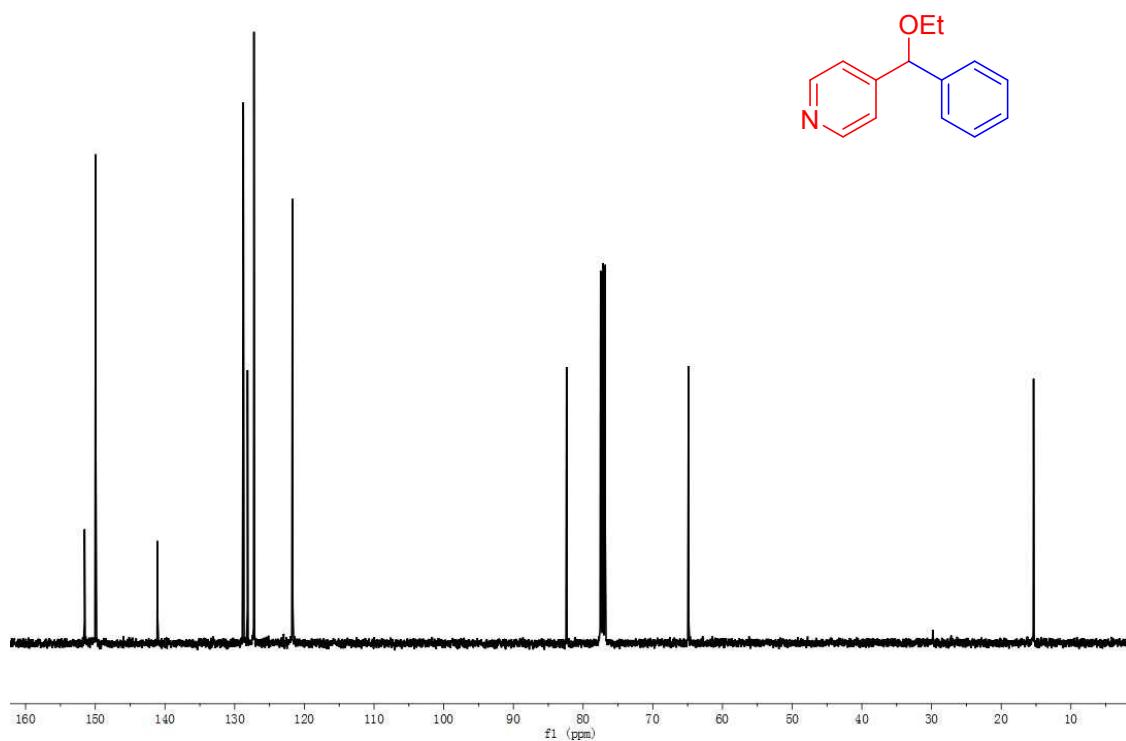
1. F. Gao, B.-S. Kim, P. J. Walsh, *Chem. Sci.*, **2016**, *7*, 976-983.
2. J. Yang , G. B. Dudley, *J. Org. Chem.*, **2009**, *74*, 7998.
3. A. R. Rivero, B.-S. Kim, P. J. Walsh, *Org. Lett.*, **2016**, *18*, 1590-1593.

## 10. NMR Spectra.

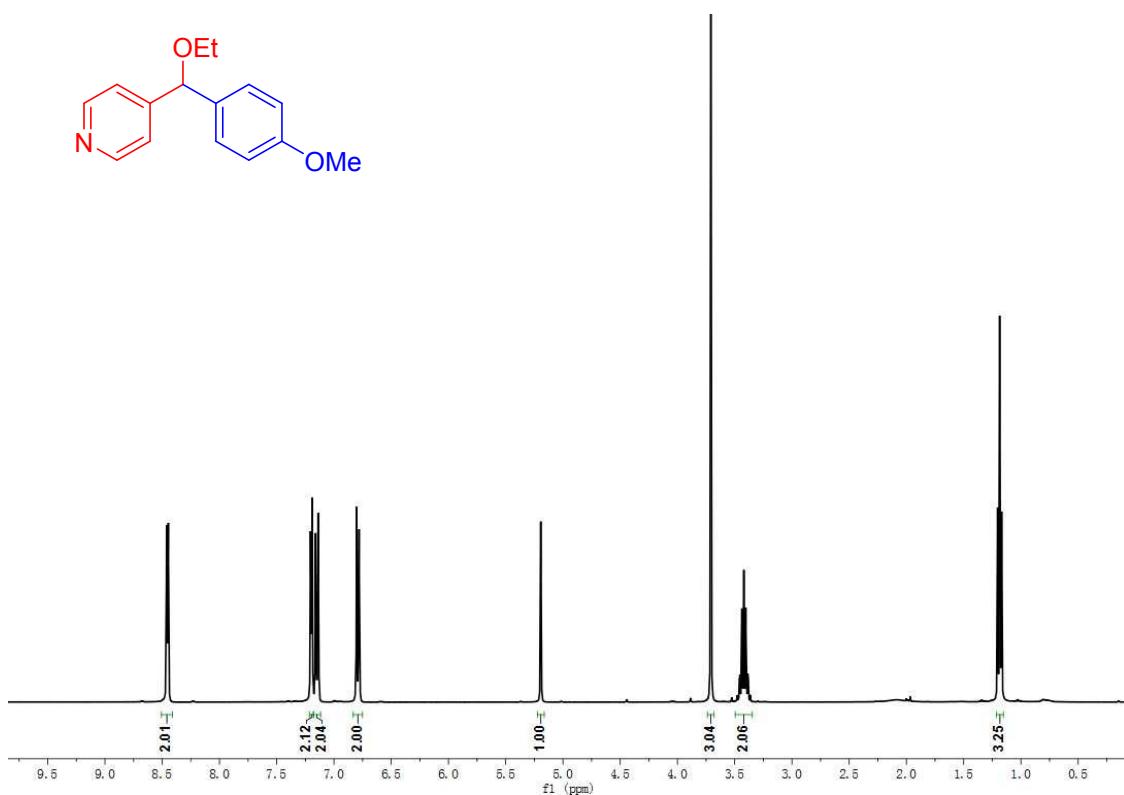
<sup>1</sup>H NMR spectra (400 MHz, Chloroform-*d*) of 4-(Ethoxy(phenyl)methyl)pyridine (3aa)



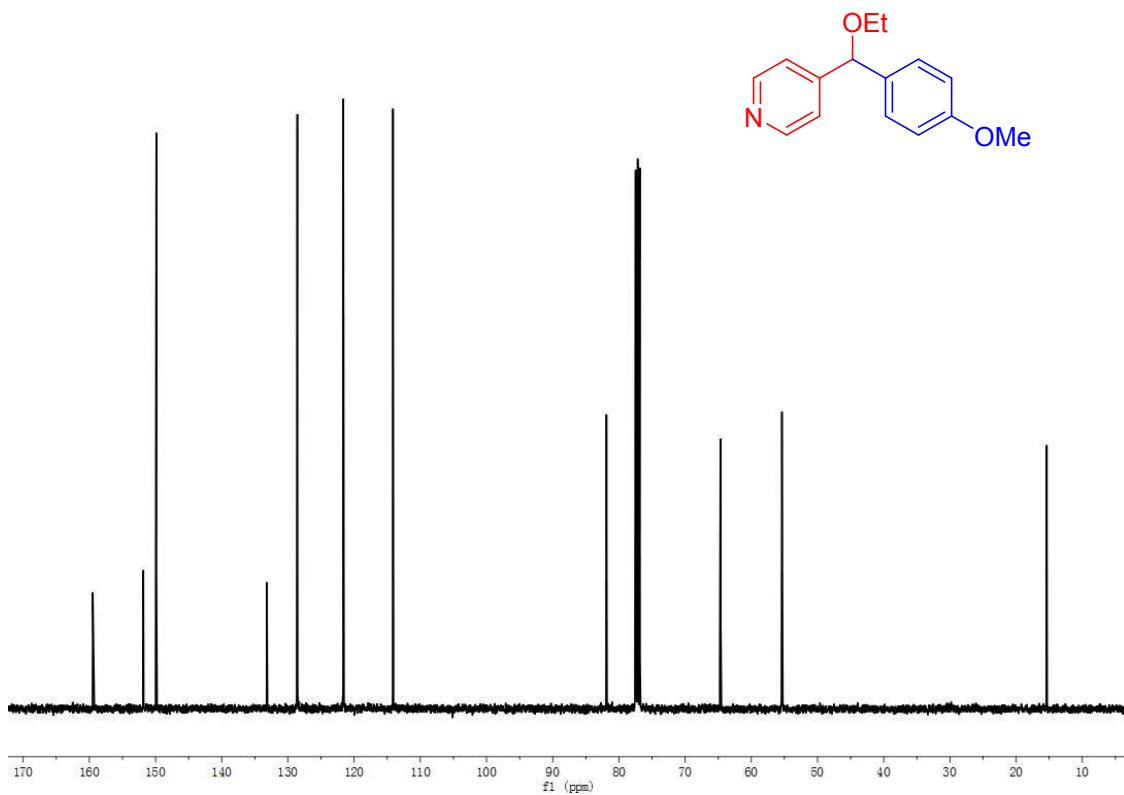
<sup>13</sup>C{<sup>1</sup>H} NMR spectra (100 MHz, Chloroform-*d*) of 4-(Ethoxy(phenyl)methyl)pyridine (3aa)



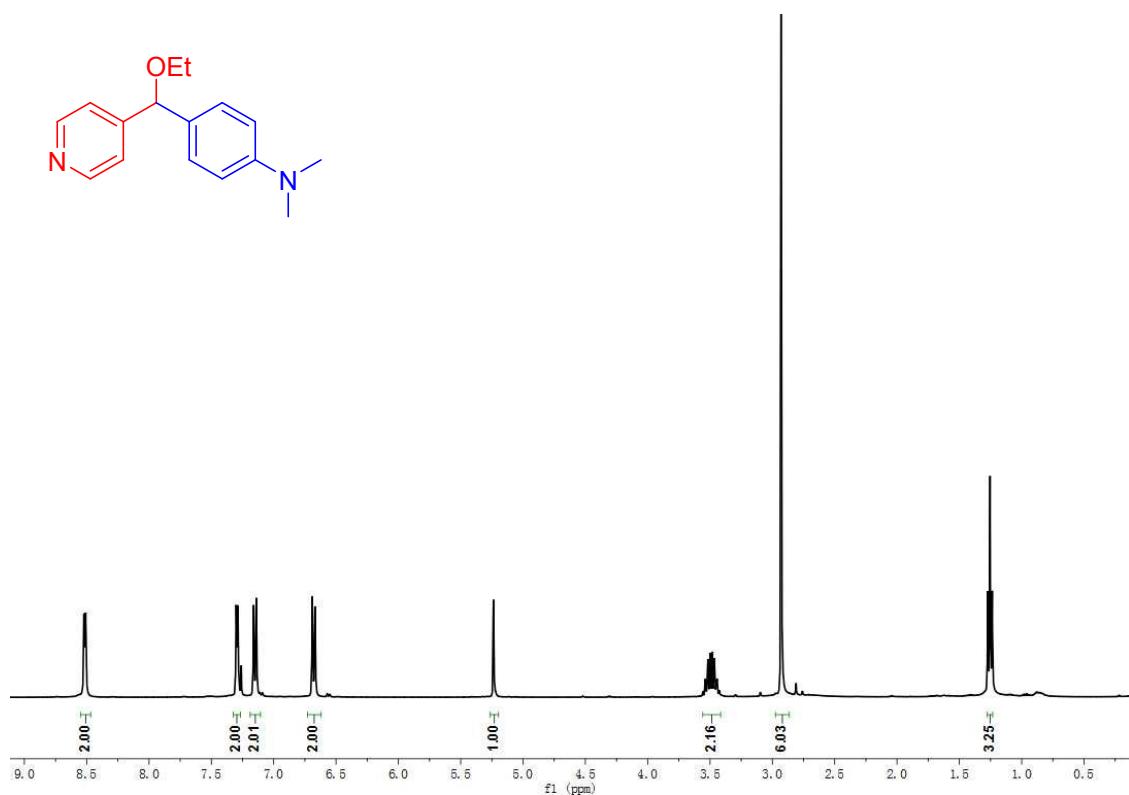
<sup>1</sup>H NMR spectra (400 MHz, Chloroform-*d*) of 4-(Ethoxy(4-methoxyphenyl)methyl)pyridine (3ab)



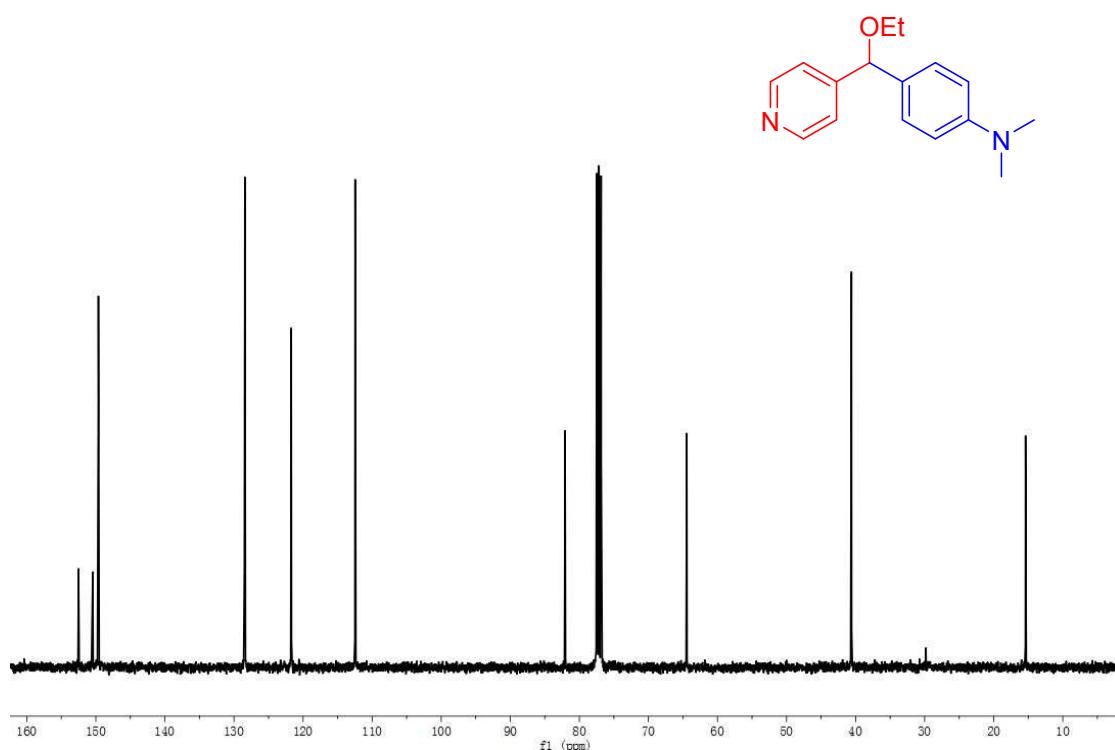
<sup>13</sup>C{<sup>1</sup>H} NMR spectra (100 MHz, Chloroform-*d*) of 4-(Ethoxy(4-methoxyphenyl)methyl)pyridine (3ab)



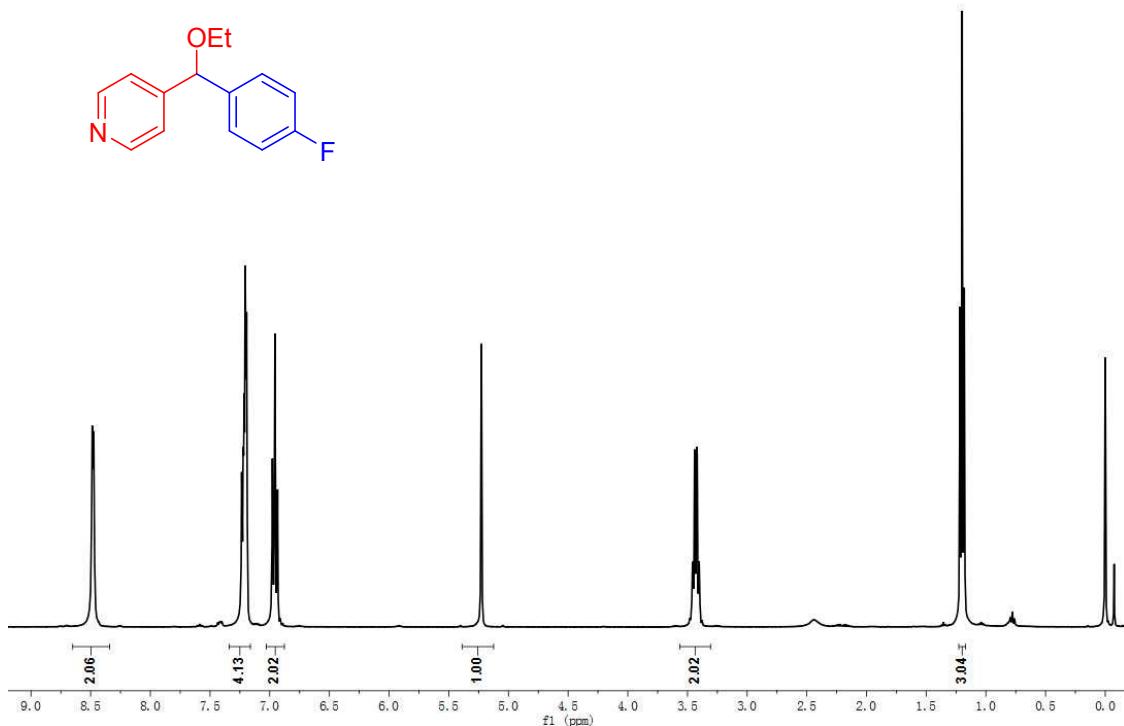
<sup>1</sup>H NMR spectra (400 MHz, Chloroform-*d*) of 4-(Ethoxy(pyridin-4-yl)methyl)-N,N-dimethylaniline (3ac)



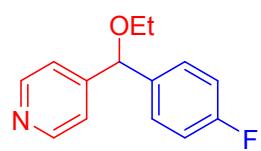
<sup>13</sup>C{<sup>1</sup>H} NMR spectra (100 MHz, Chloroform-*d*) of 4-(Ethoxy(pyridin-4-yl)methyl)-N,N-dimethylaniline (3ac)

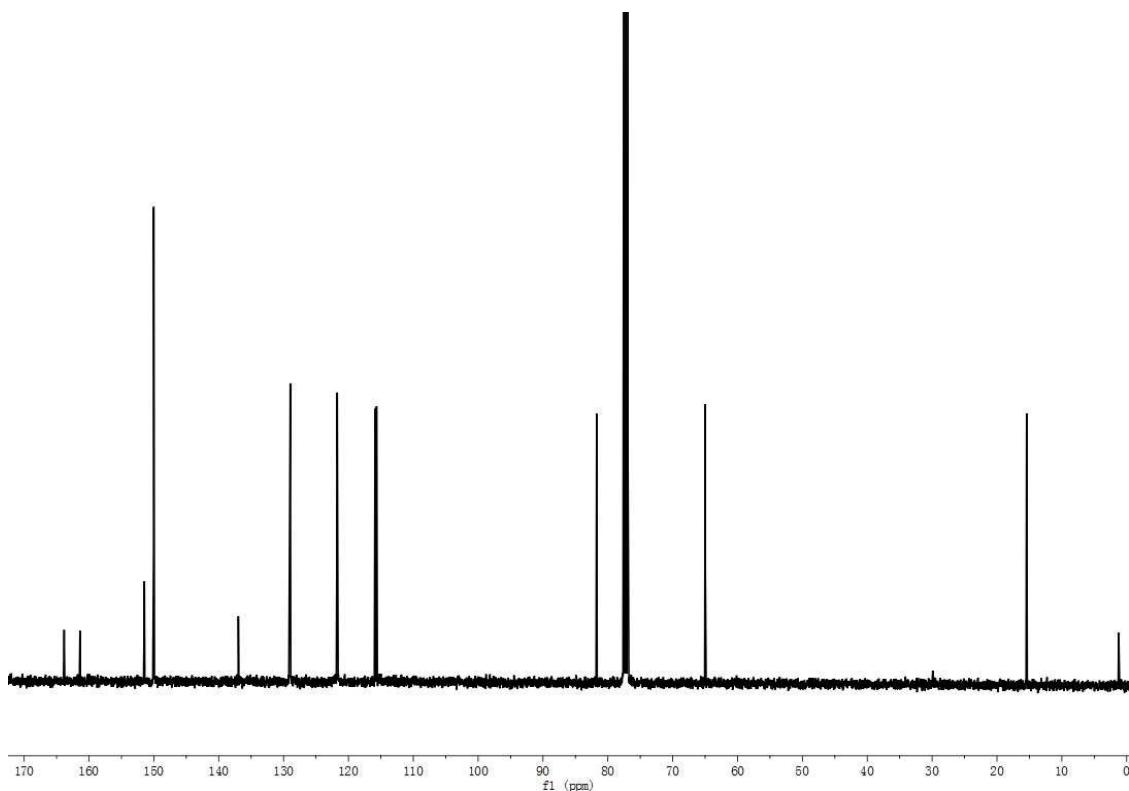


<sup>1</sup>H NMR spectra (400 MHz, Chloroform-*d*) of 4-(Ethoxy(4-fluorophenyl)methyl)pyridine (3ad)

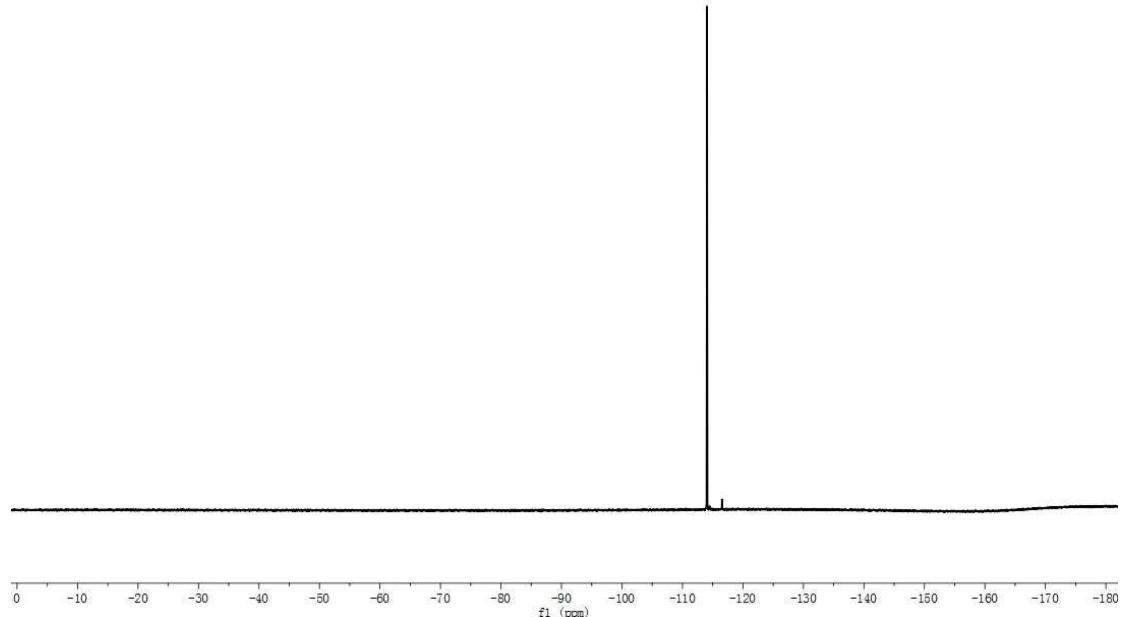


<sup>13</sup>C{<sup>1</sup>H} NMR spectra (100 MHz, Chloroform-*d*) of 4-(Ethoxy(4-fluorophenyl)methyl)pyridine (3ad)

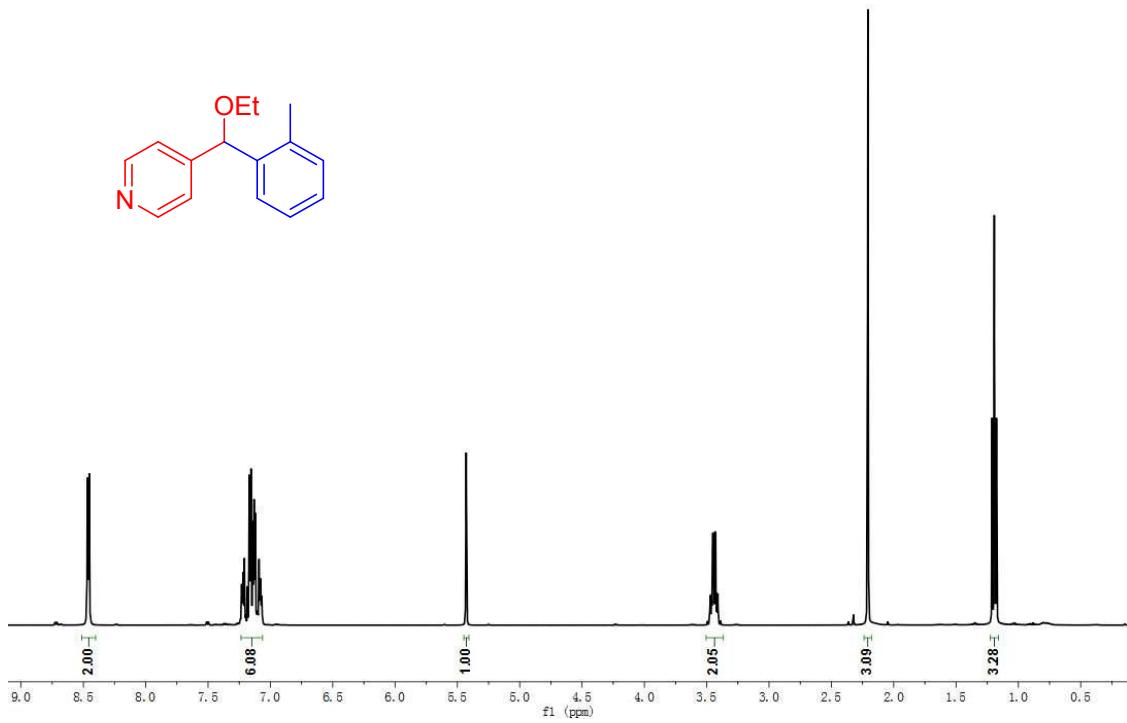




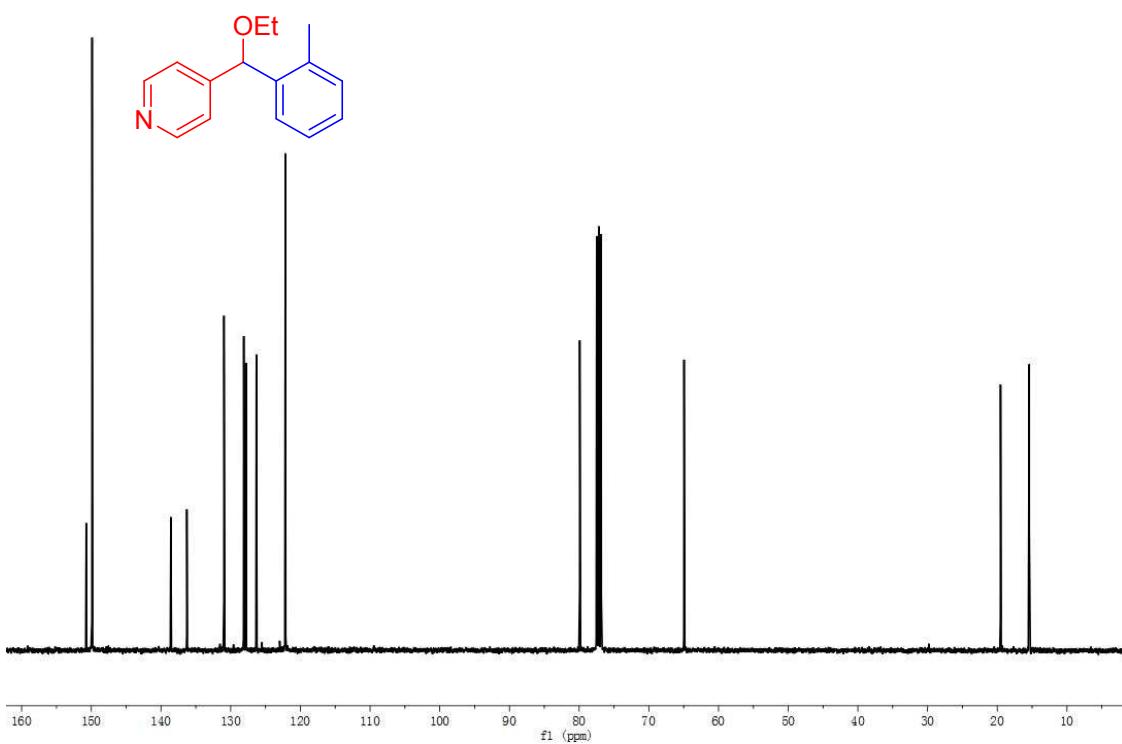
<sup>19</sup>F NMR spectra (376 MHz, Chloroform-*d*) of 4-(Ethoxy(4-fluorophenyl)methyl)pyridine (3ad)



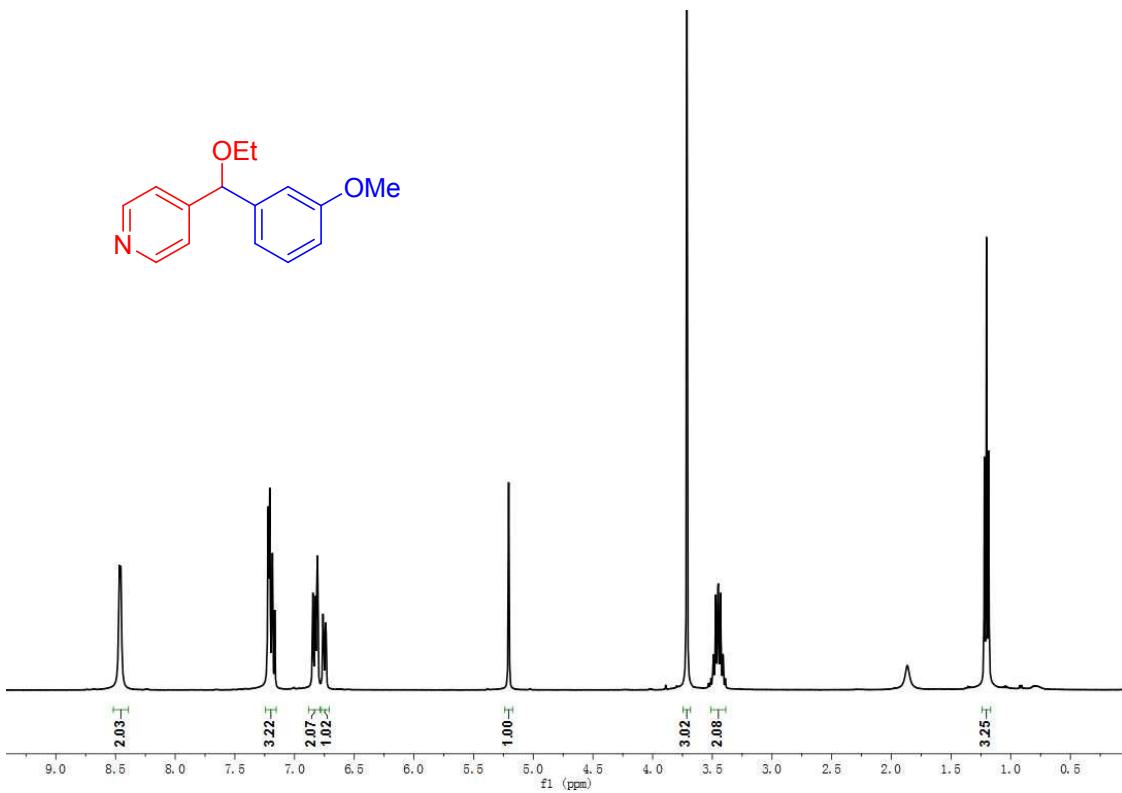
<sup>1</sup>H NMR spectra (400 MHz, Chloroform-*d*) of 4-(Ethoxy(o-tolyl)methyl)pyridine (3ae)



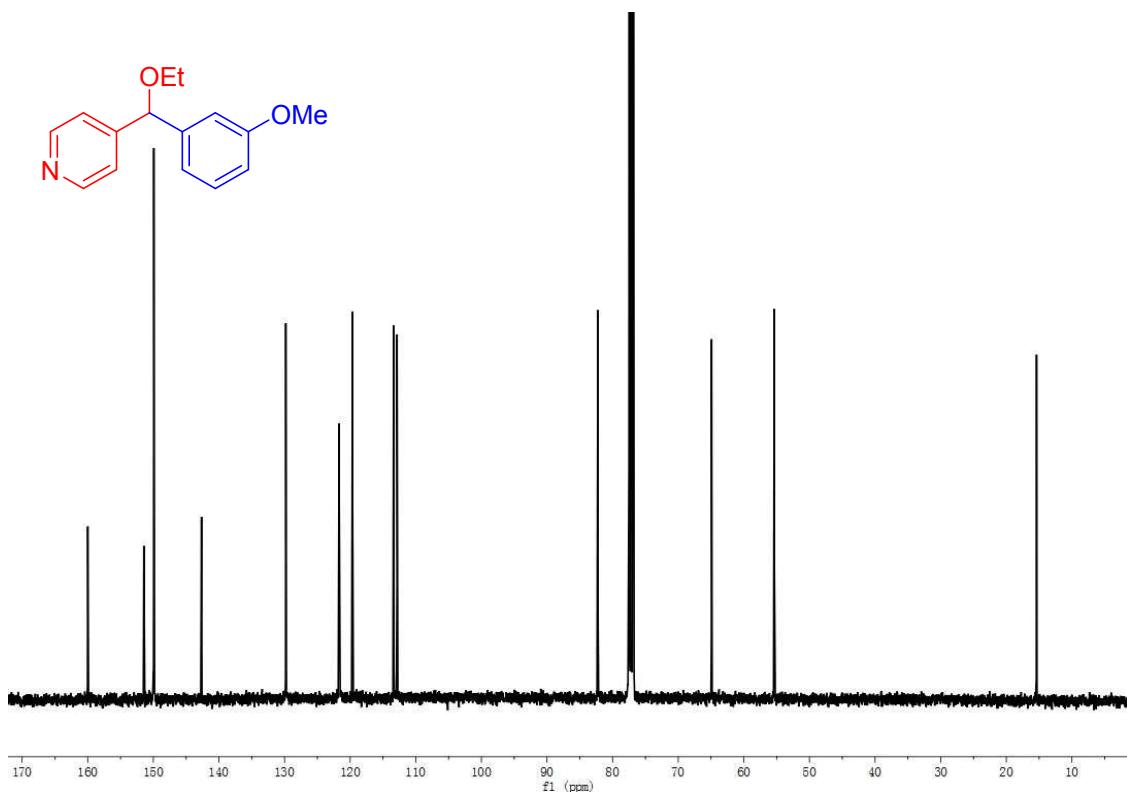
<sup>13</sup>C{<sup>1</sup>H} NMR spectra (100 MHz, Chloroform-*d*) of 4-(Ethoxy(o-tolyl)methyl)pyridine (3ae)



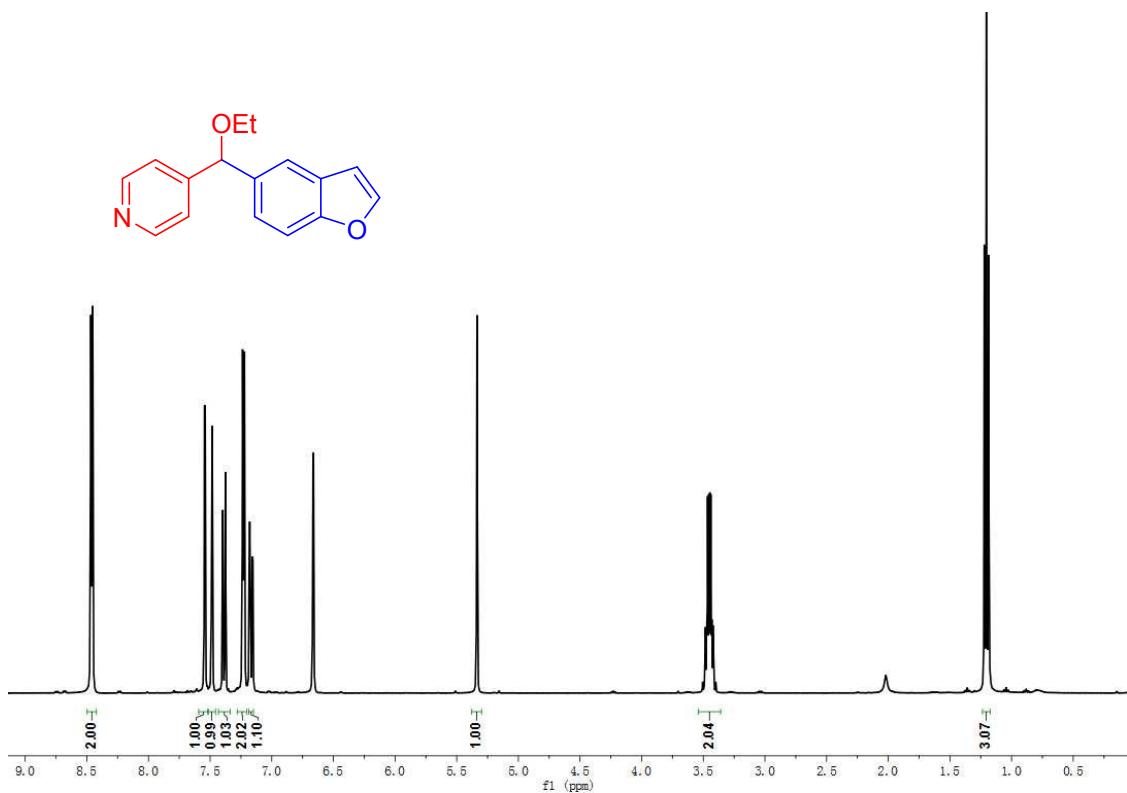
$^1\text{H}$  NMR spectra (400 MHz, Chloroform-*d*) of 4-(Ethoxy(3-methoxyphenyl)methyl)pyridine (3af)



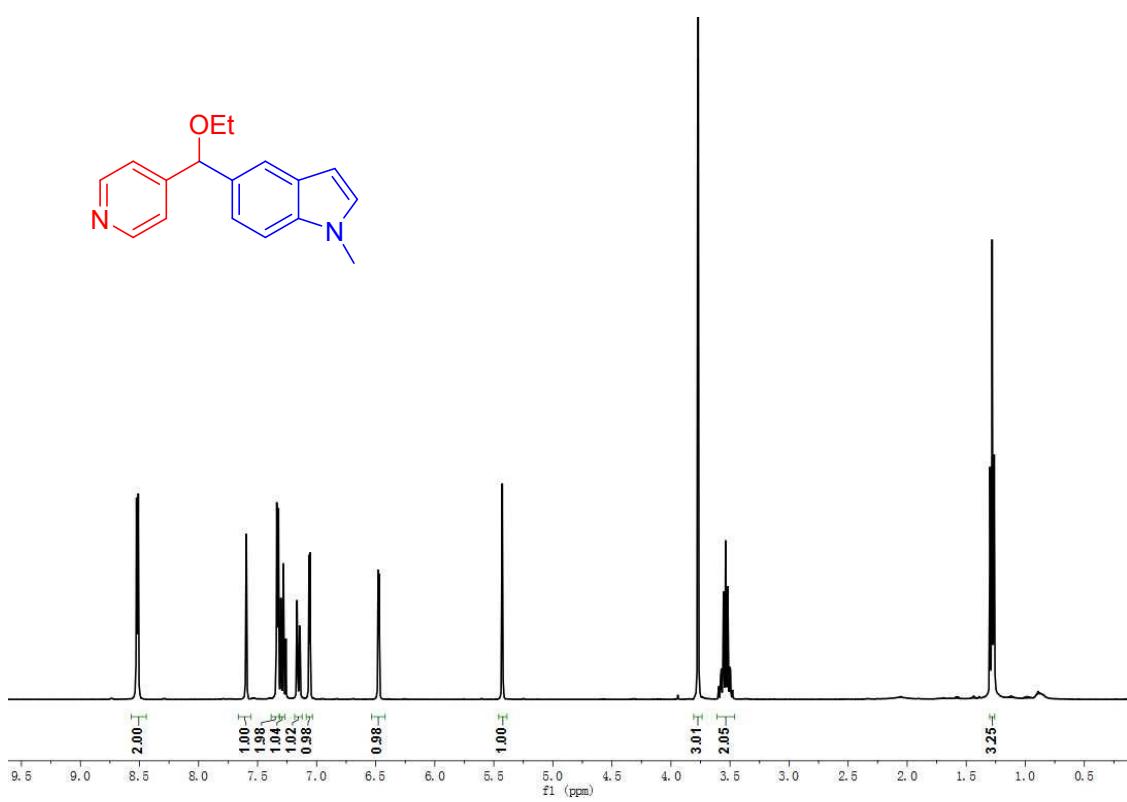
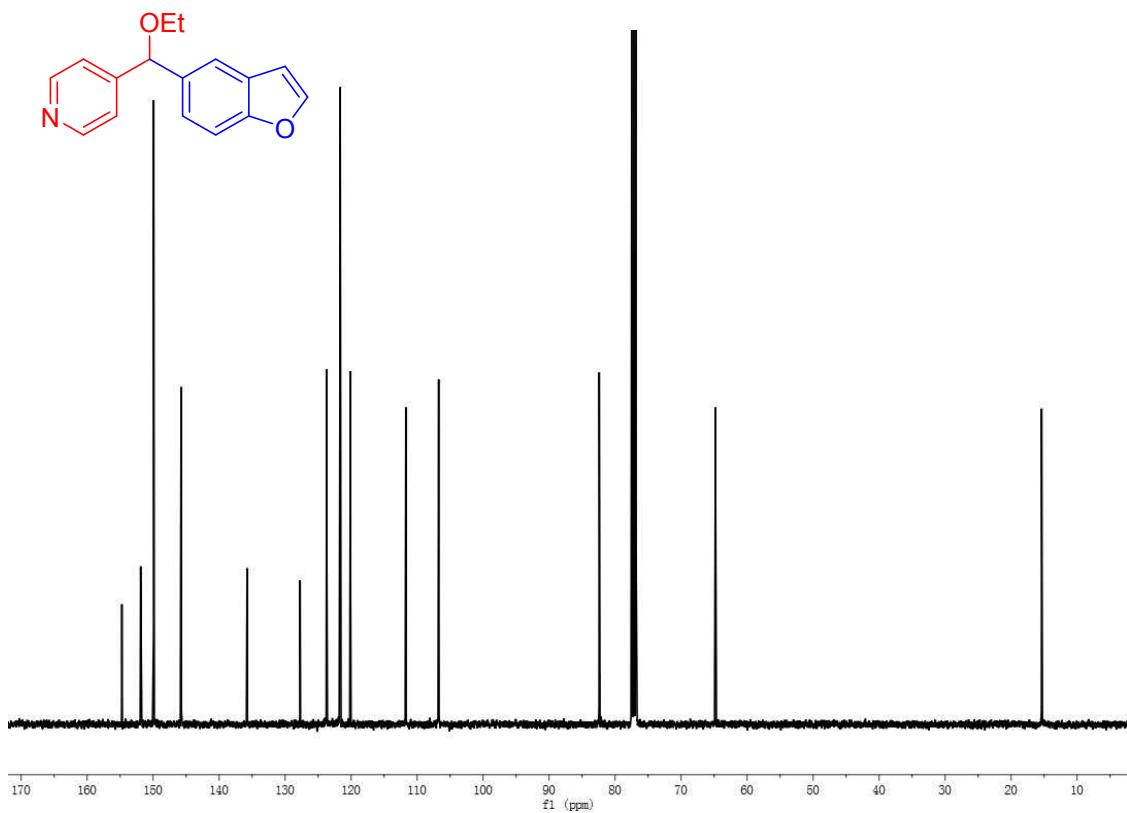
$^{13}\text{C}\{^1\text{H}\}$  NMR spectra (100 MHz, Chloroform-*d*) of 4-(Ethoxy(3-methoxyphenyl)methyl)pyridine (3af)



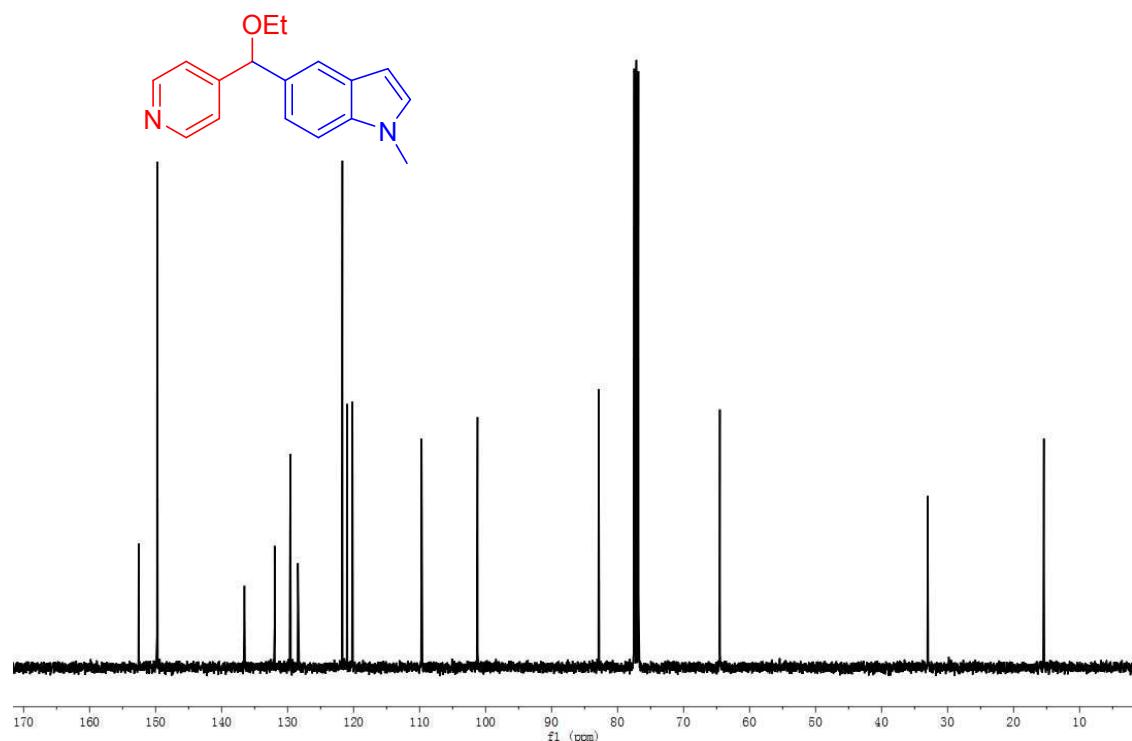
$^1\text{H}$  NMR spectra (400 MHz, Chloroform-*d*) of 4-(Benzofuran-5-yl(ethoxy)methyl)pyridine (3ag)



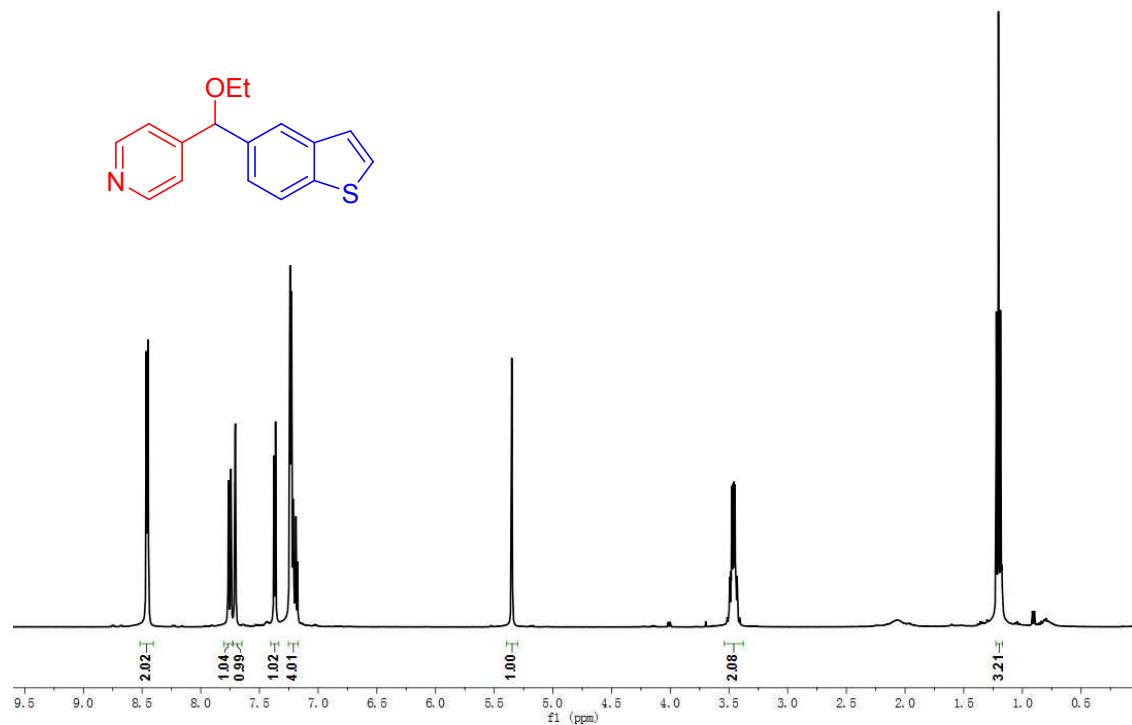
$^{13}\text{C}\{^1\text{H}\}$  NMR spectra (100 MHz, Chloroform-*d*) of 4-(Benzofuran-5-yl(ethoxy)methyl)pyridine (3ag)



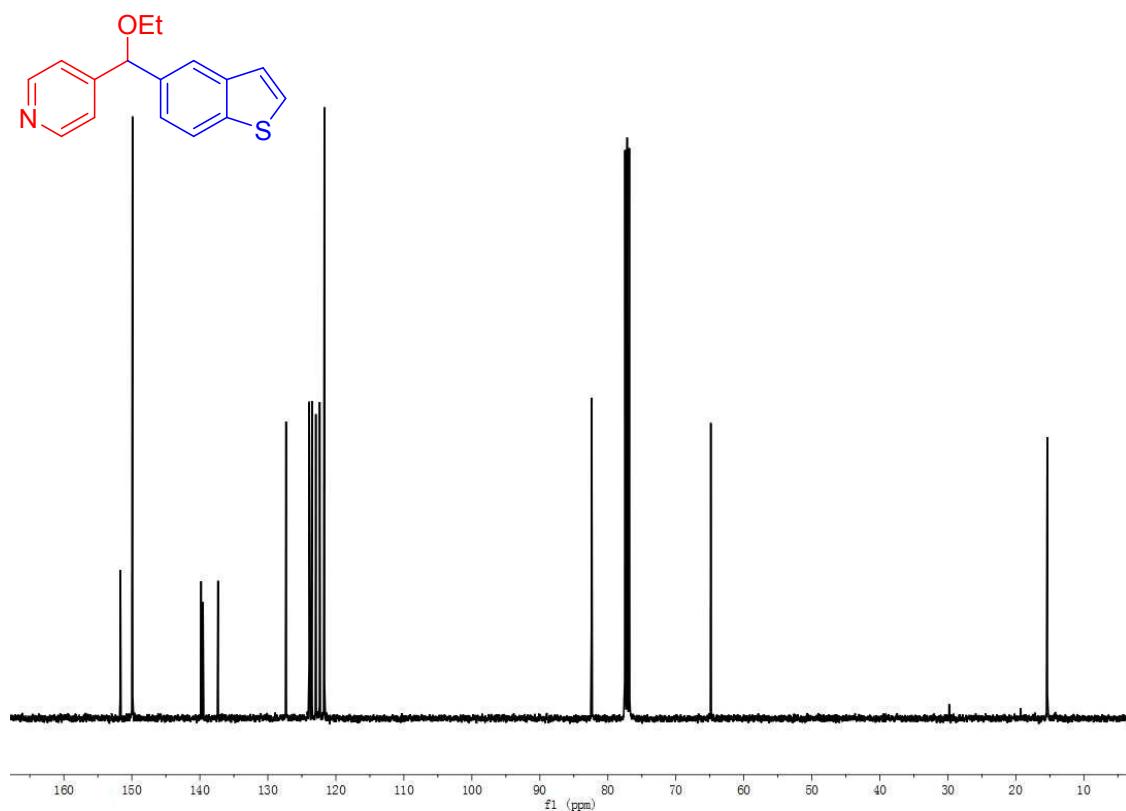
$^{13}\text{C}\{^1\text{H}\}$  NMR spectra (100 MHz, Chloroform-*d*) of 5-(Ethoxy(pyridin-4-yl)methyl)-1-methyl-1*H*-indole (3ah)



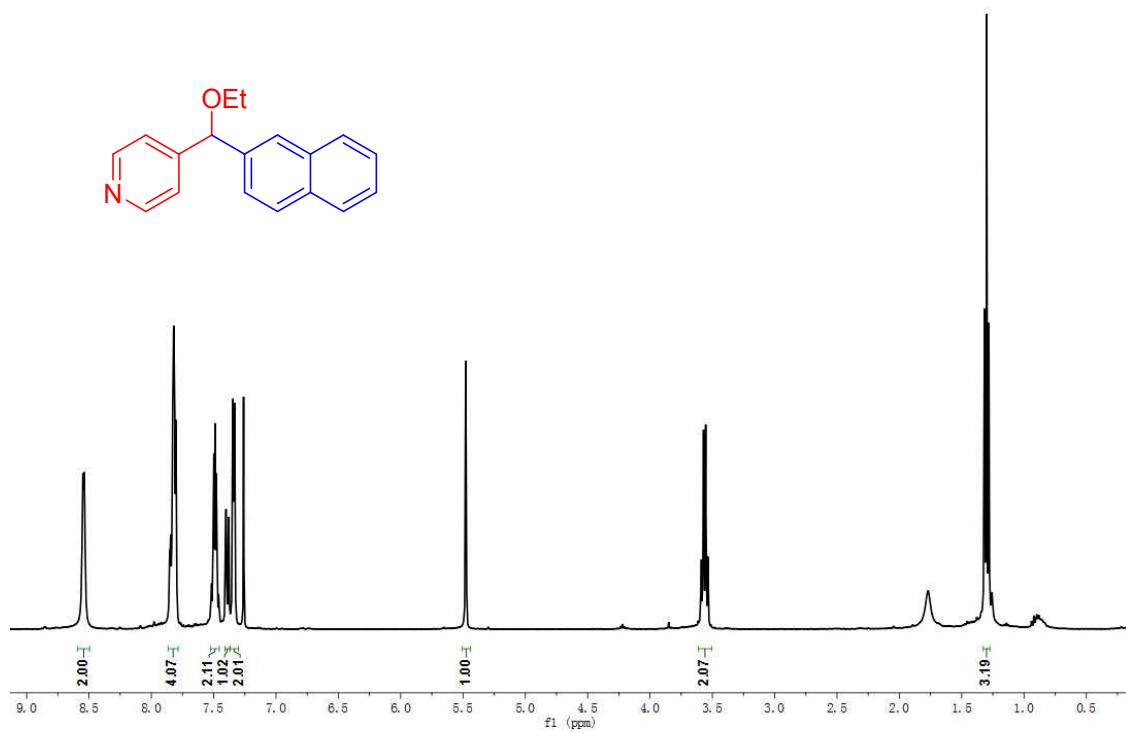
$^1\text{H}$  NMR spectra (400 MHz, Chloroform-*d*) of 4-(Benzo[b]thiophen-5-yl(ethoxy)methyl)pyridine (3ai)



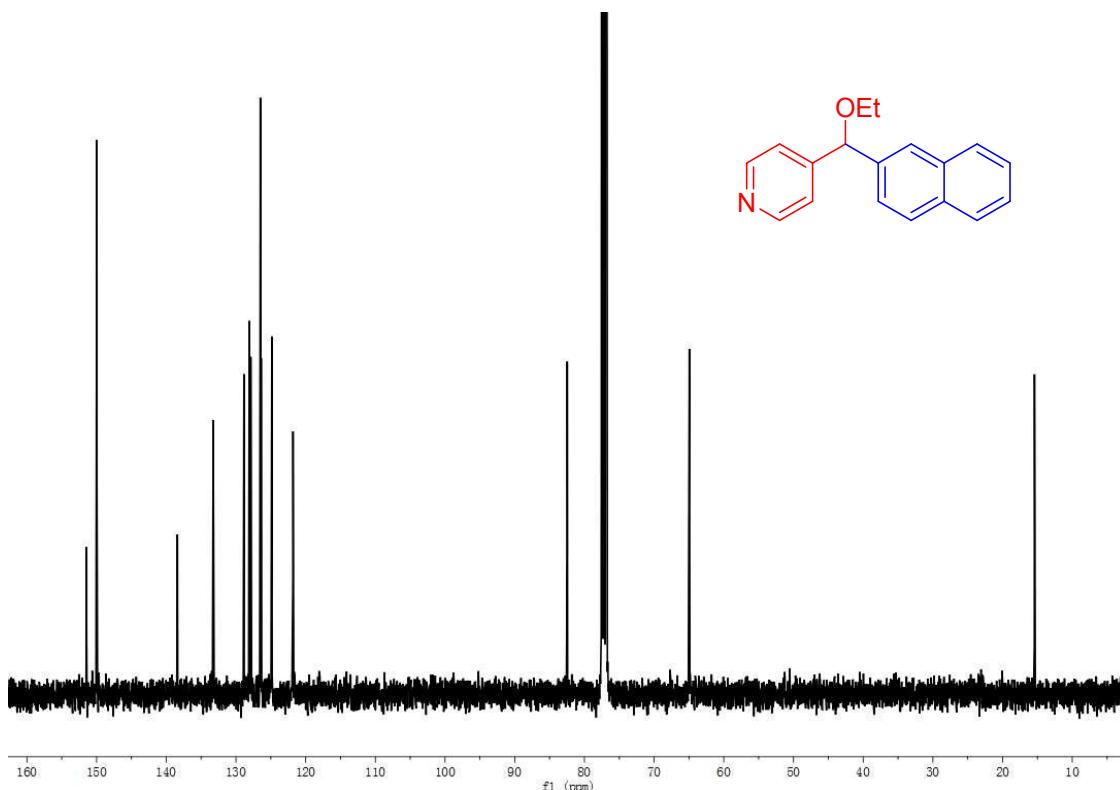
$^{13}\text{C}\{^1\text{H}\}$  NMR spectra (100 MHz, Chloroform-*d*) of 4-(Benzo[b]thiophen-5-yl(ethoxy)methyl)pyridine (3ai)



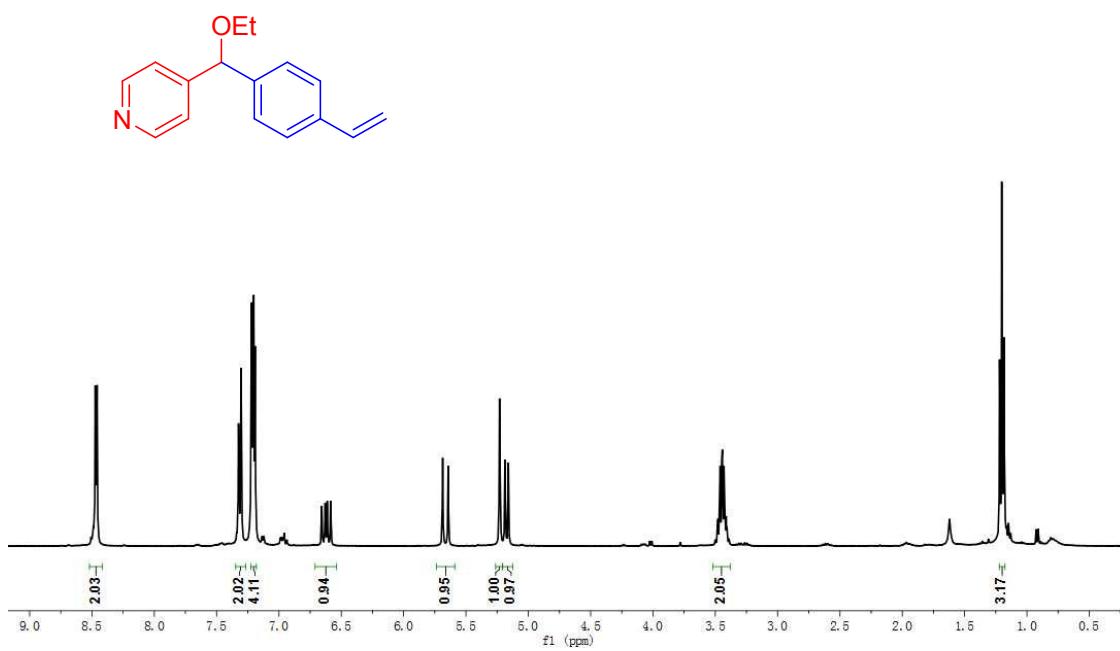
$^1\text{H}$  NMR spectra (400 MHz, Chloroform-*d*) of 4-(Ethoxy(naphthalen-2-yl)methyl)pyridine (3aj)



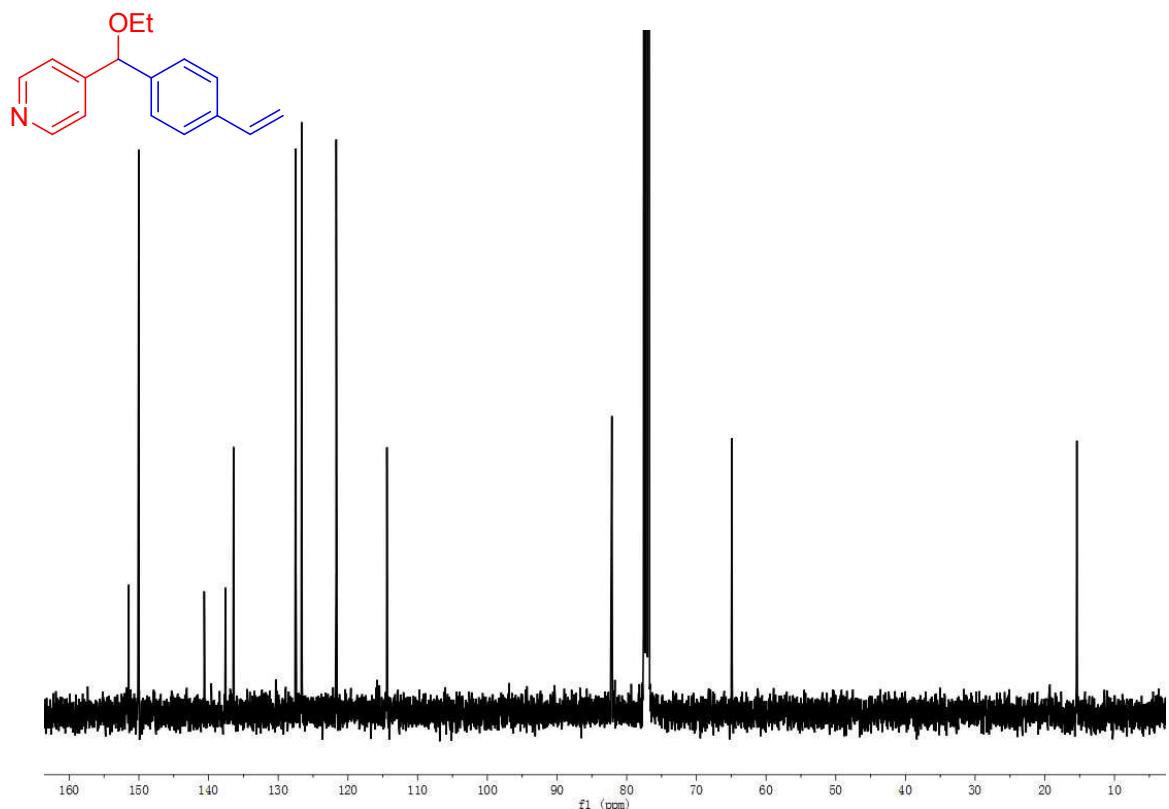
$^{13}\text{C}\{^1\text{H}\}$  NMR spectra (100 MHz, Chloroform-*d*) of 4-(Ethoxy(naphthalen-2-yl)methyl)pyridine (3aj)



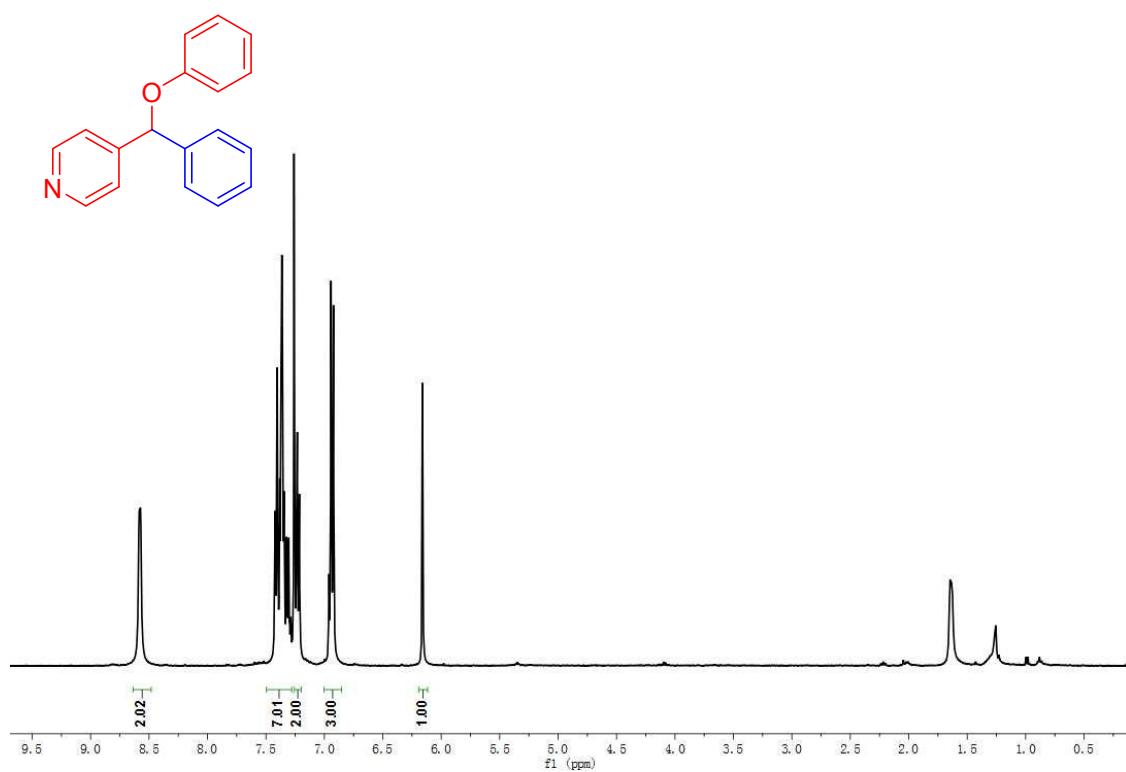
$^1\text{H}$  NMR spectra (400 MHz, Chloroform-*d*) of 4-(Ethoxy(4-vinylphenyl)methyl)pyridine (3ak)



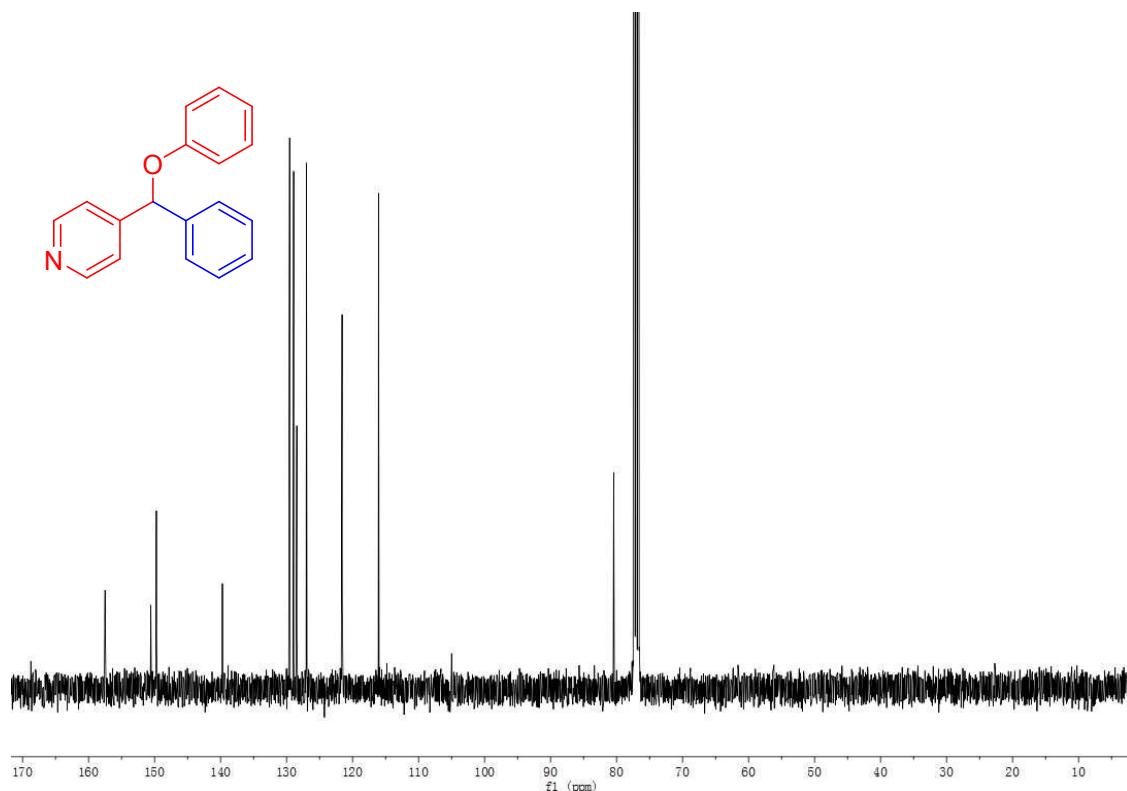
$^{13}\text{C}\{\text{H}\}$  NMR spectra (100 MHz, Chloroform-*d*) of 4-(Ethoxy(4-vinylphenyl)methyl)pyridine (3ak)



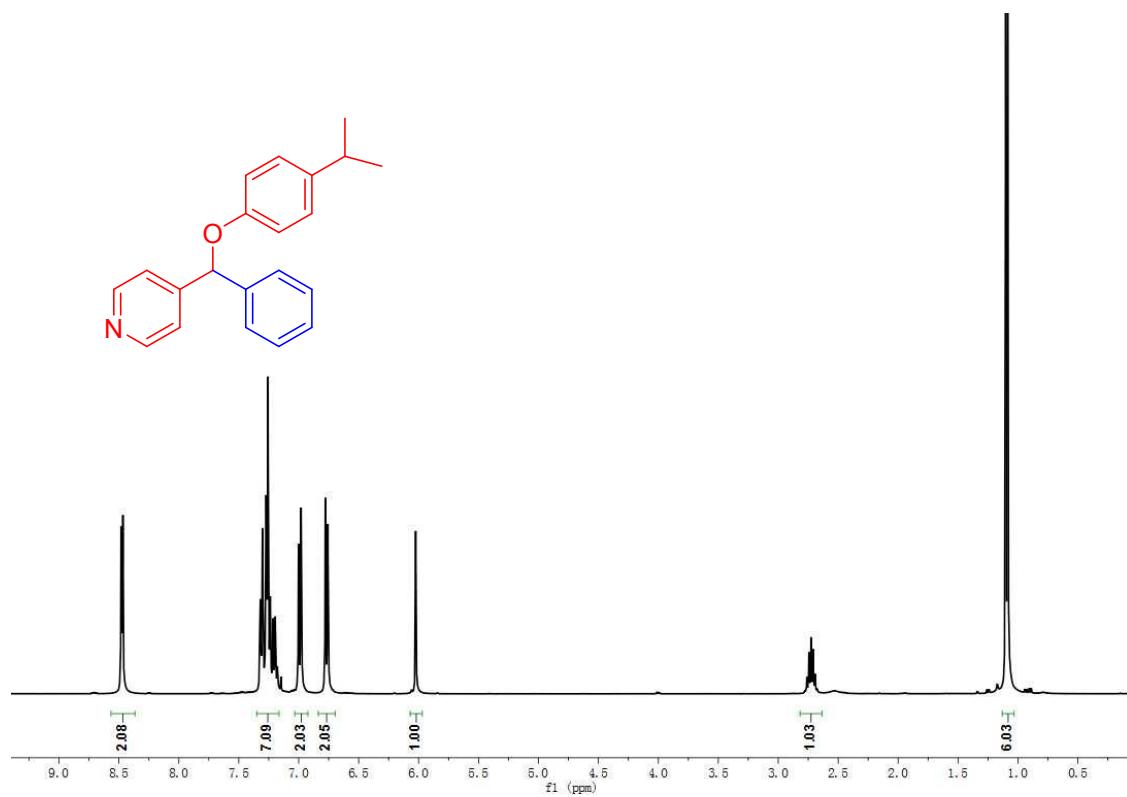
$^1\text{H}$  NMR spectra (400 MHz, Chloroform-*d*) of 4-(Phenoxy(phenyl)methyl)pyridine (3ba)



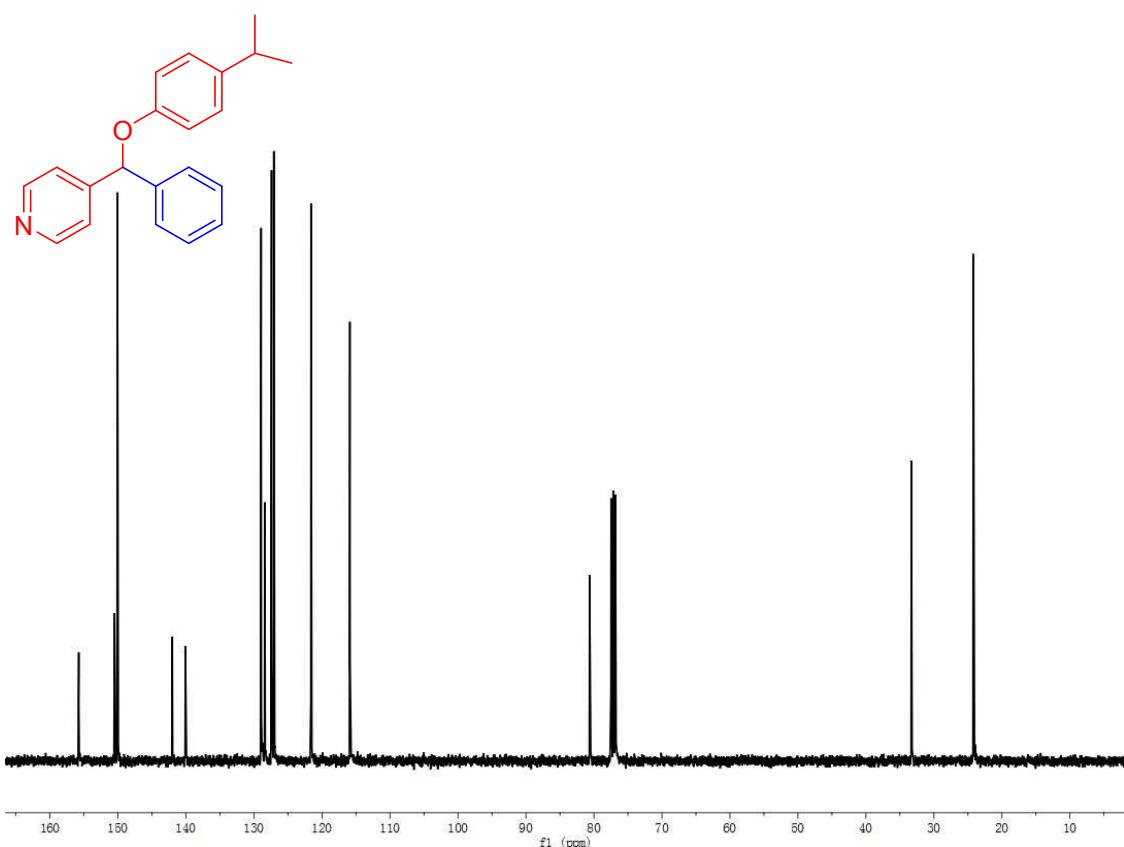
$^{13}\text{C}\{\text{H}\}$  NMR spectra (100 MHz, Chloroform-*d*) of 4-(Phenoxy(phenyl)methyl)pyridine (3ba)



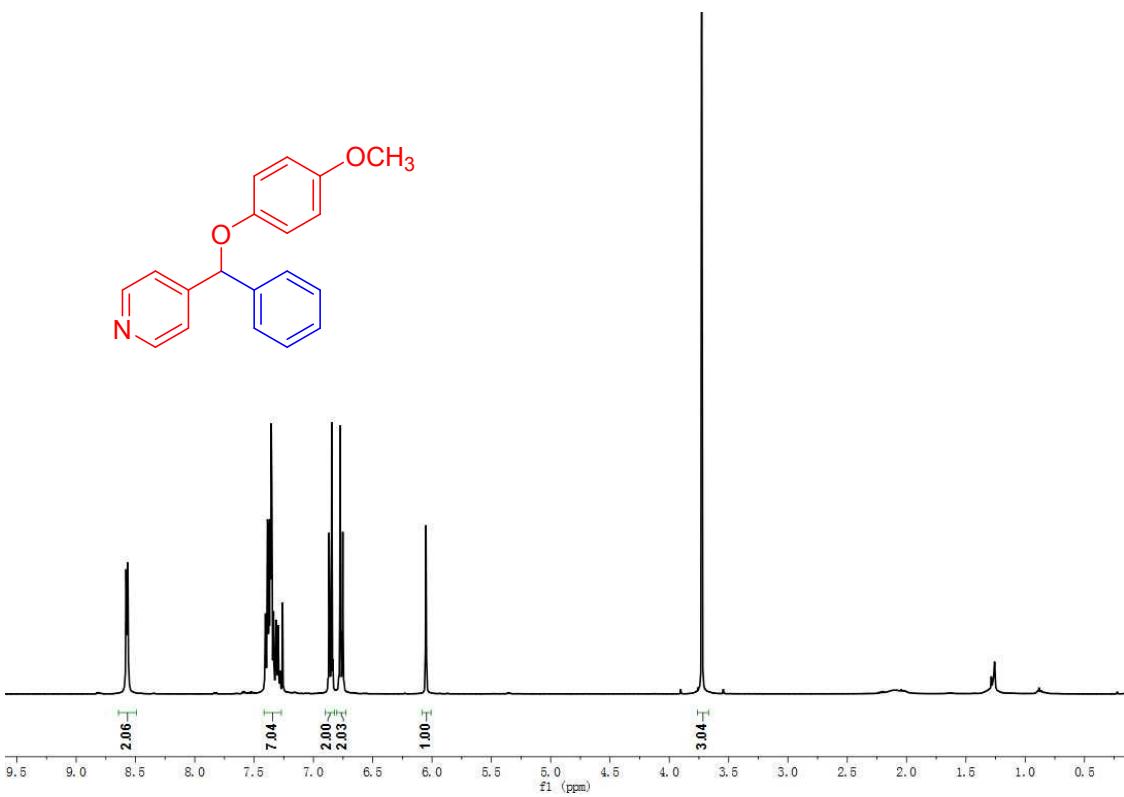
$^1\text{H}$  NMR spectra (400 MHz, Chloroform-*d*) of 4-((4-Isopropylphenoxy)(phenyl)methyl)pyridine (3ca)



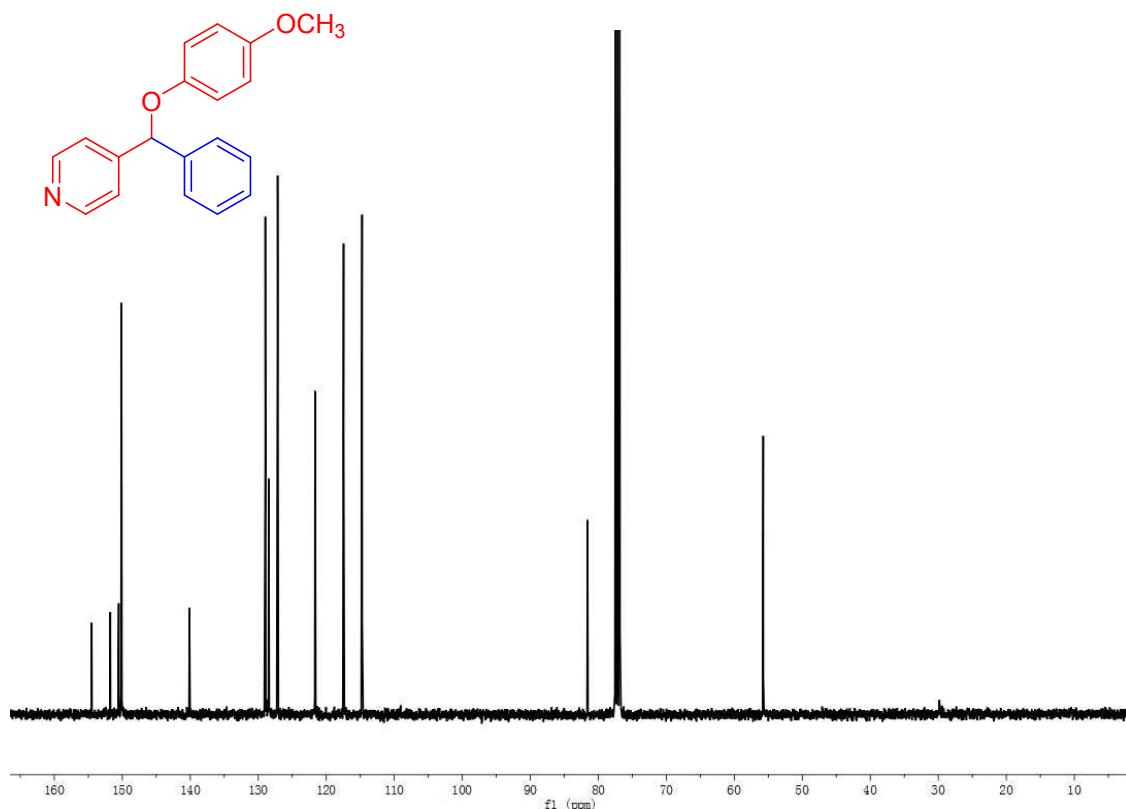
$^{13}\text{C}\{^1\text{H}\}$  NMR spectra (100 MHz, Chloroform-*d*) of 4-((4-Isopropylphenoxy)(phenyl)methyl)pyridine (3ca)



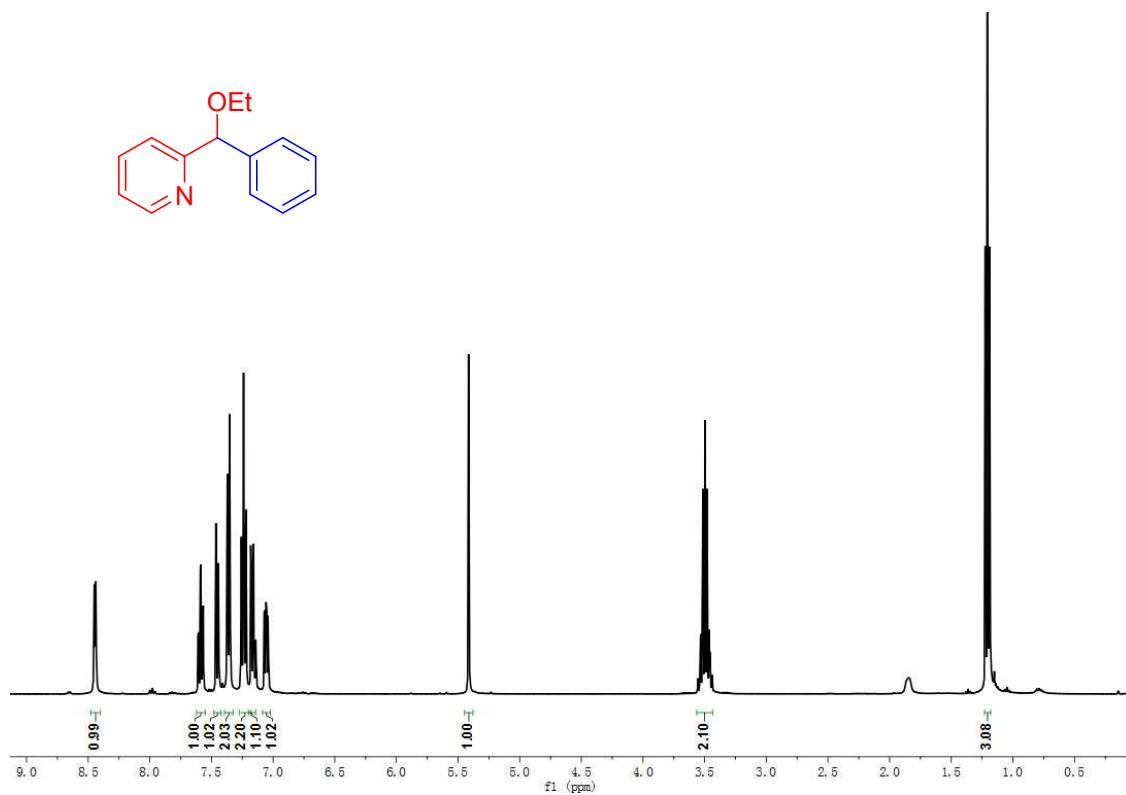
$^1\text{H}$  NMR spectra (400 MHz, Chloroform-*d*) of 4-((4-Methoxyphenoxy)(phenyl)methyl)pyridine (3da)



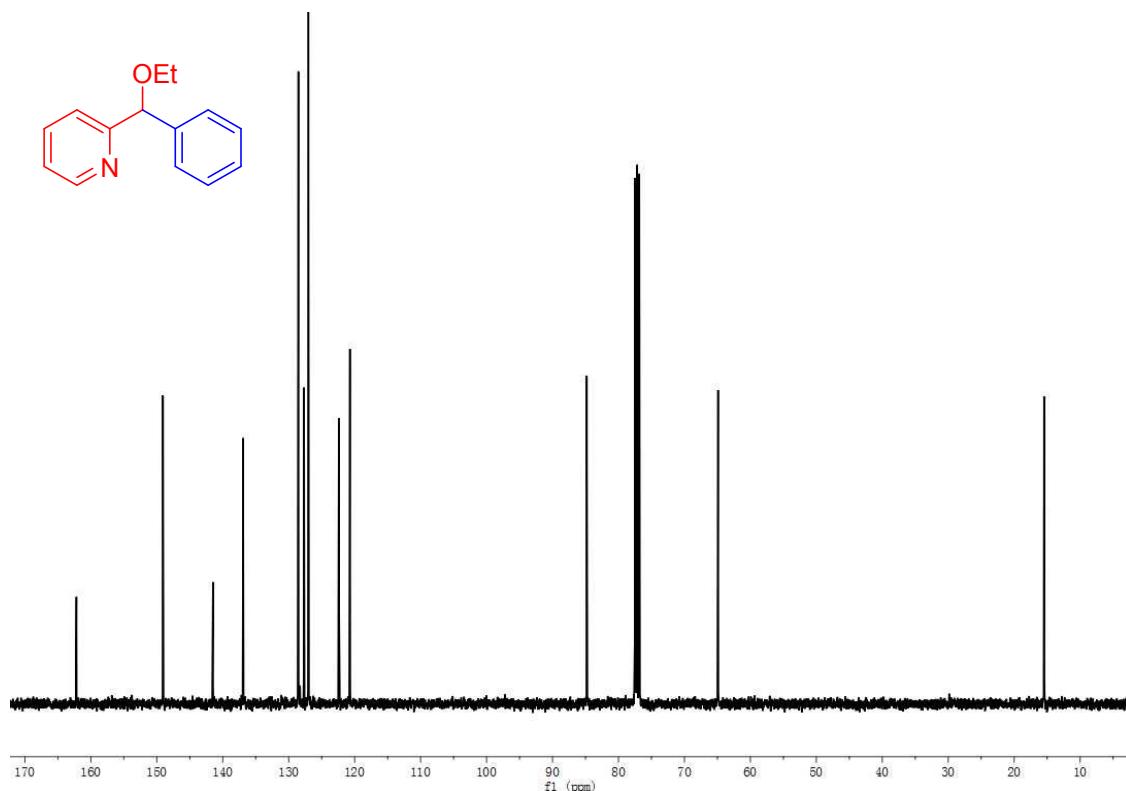
$^{13}\text{C}\{^1\text{H}\}$  NMR spectra (100 MHz, Chloroform-*d*) of 4-((4-Methoxyphenoxy)(phenyl)methyl)pyridine (3da)



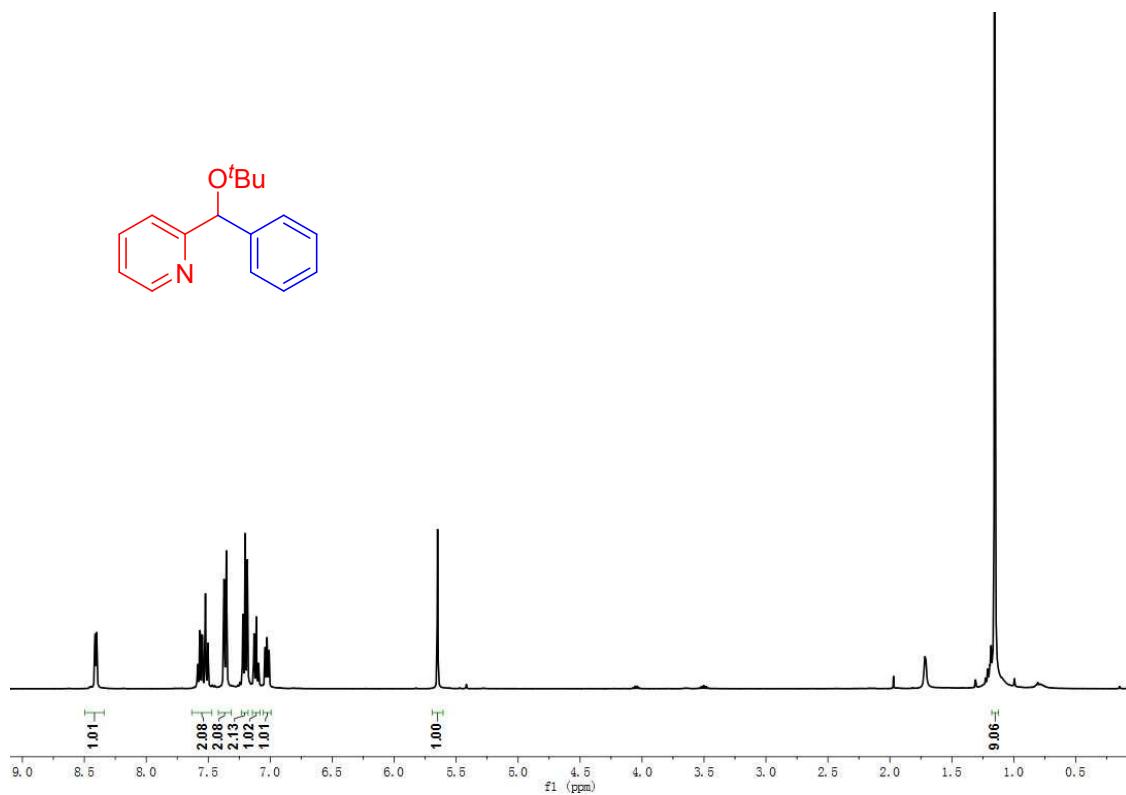
$^1\text{H}$  NMR spectra (400 MHz, Chloroform-*d*) of 2-(Ethoxy(phenyl)methyl)pyridine (3ea)



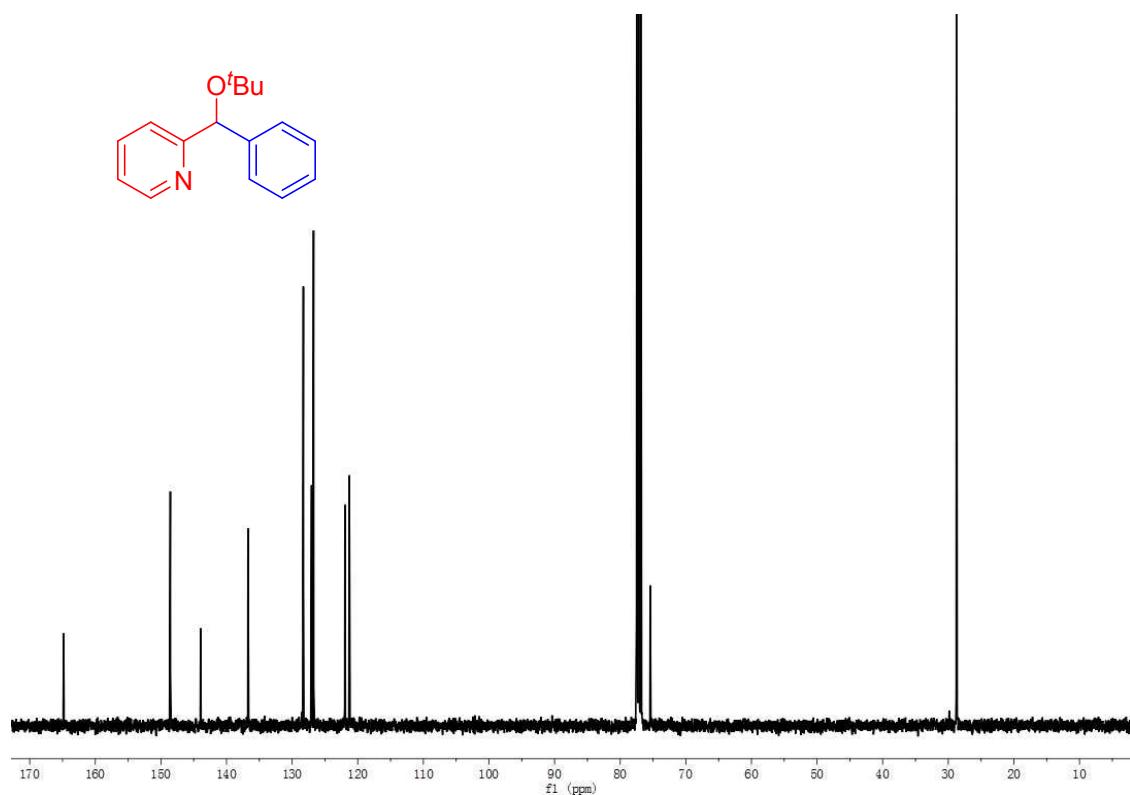
$^{13}\text{C}\{^1\text{H}\}$  NMR spectra (100 MHz, Chloroform-*d*) of 2-(Ethoxy(phenyl)methyl)pyridine (3ea)



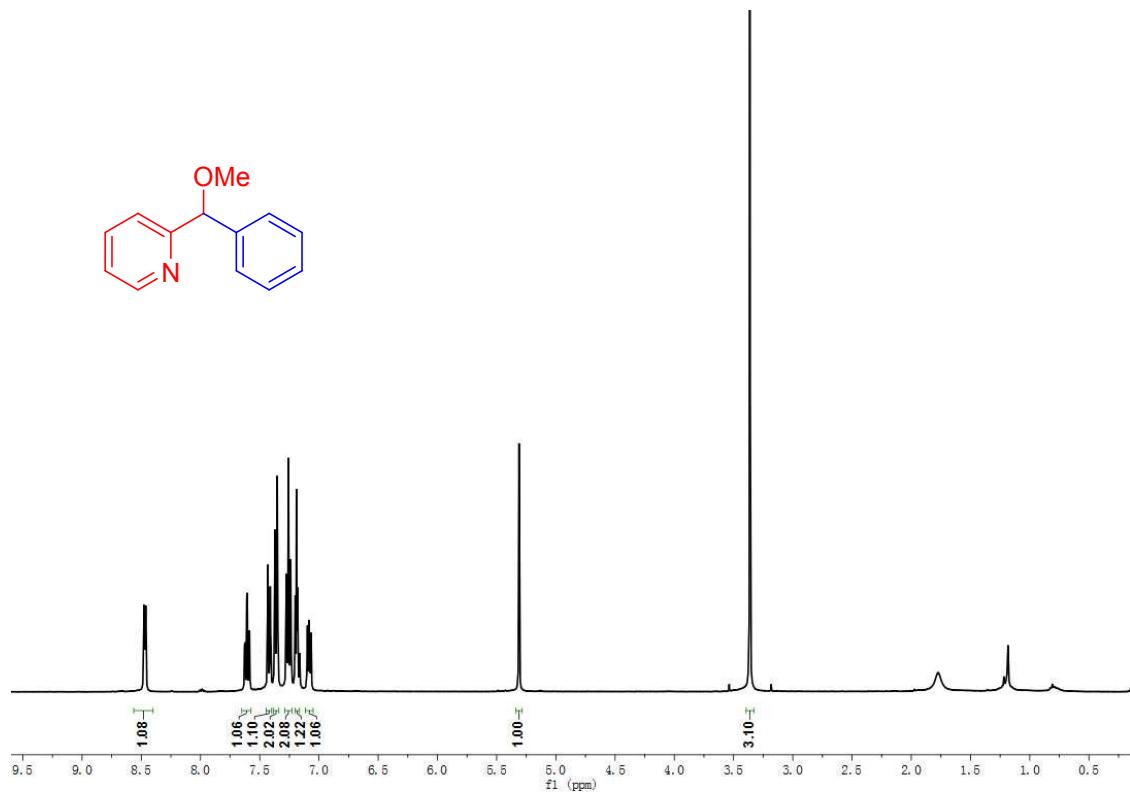
$^1\text{H}$  NMR spectra (400 MHz, Chloroform-*d*) of 2-(*tert*-Butoxy(phenyl)methyl)pyridine (3fa)



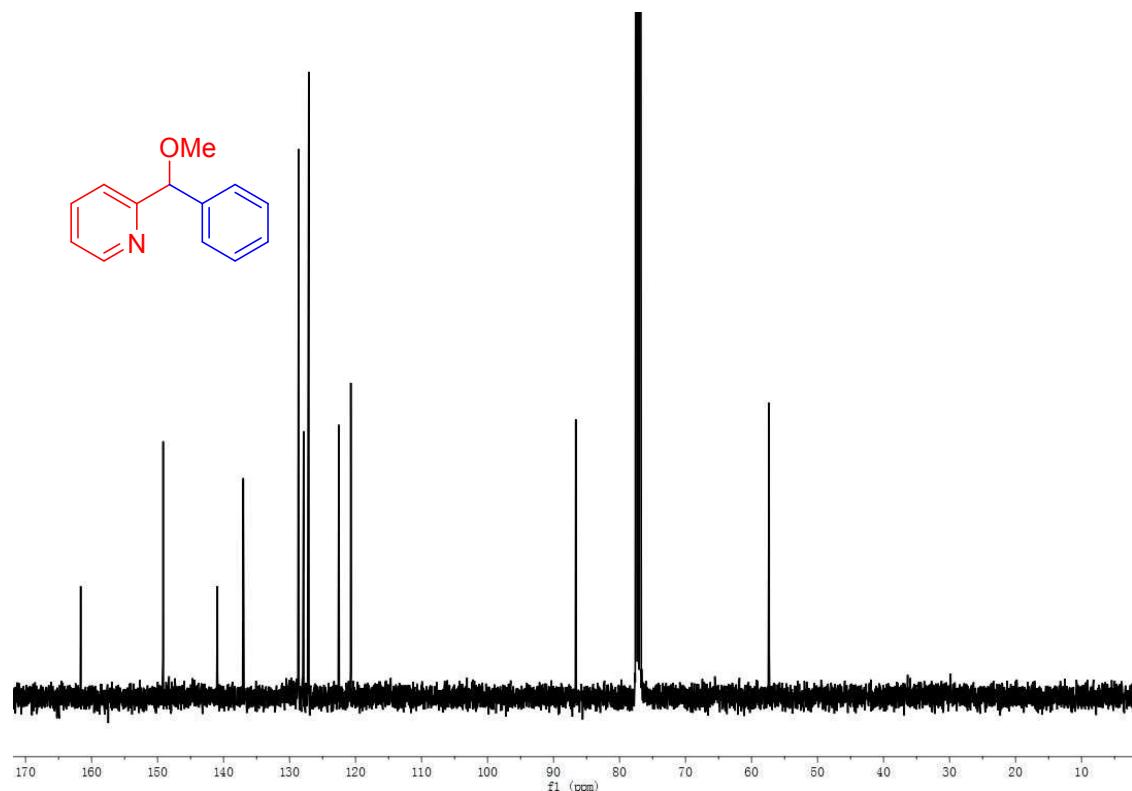
$^{13}\text{C}\{^1\text{H}\}$  NMR spectra (100 MHz, Chloroform-*d*) of 2-(*tert*-Butoxy(phenyl)methyl)pyridine (3fa)



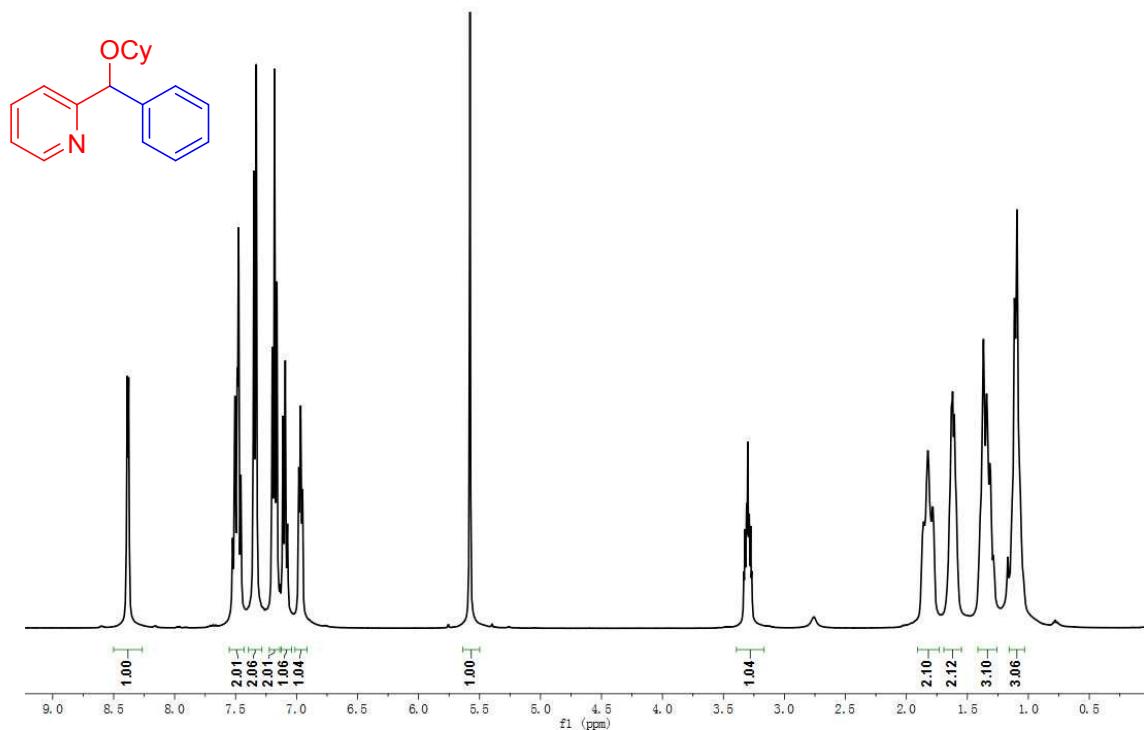
$^1\text{H}$  NMR spectra (400 MHz, Chloroform-*d*) of 2-(Methoxy(phenyl)methyl)pyridine (3ga)



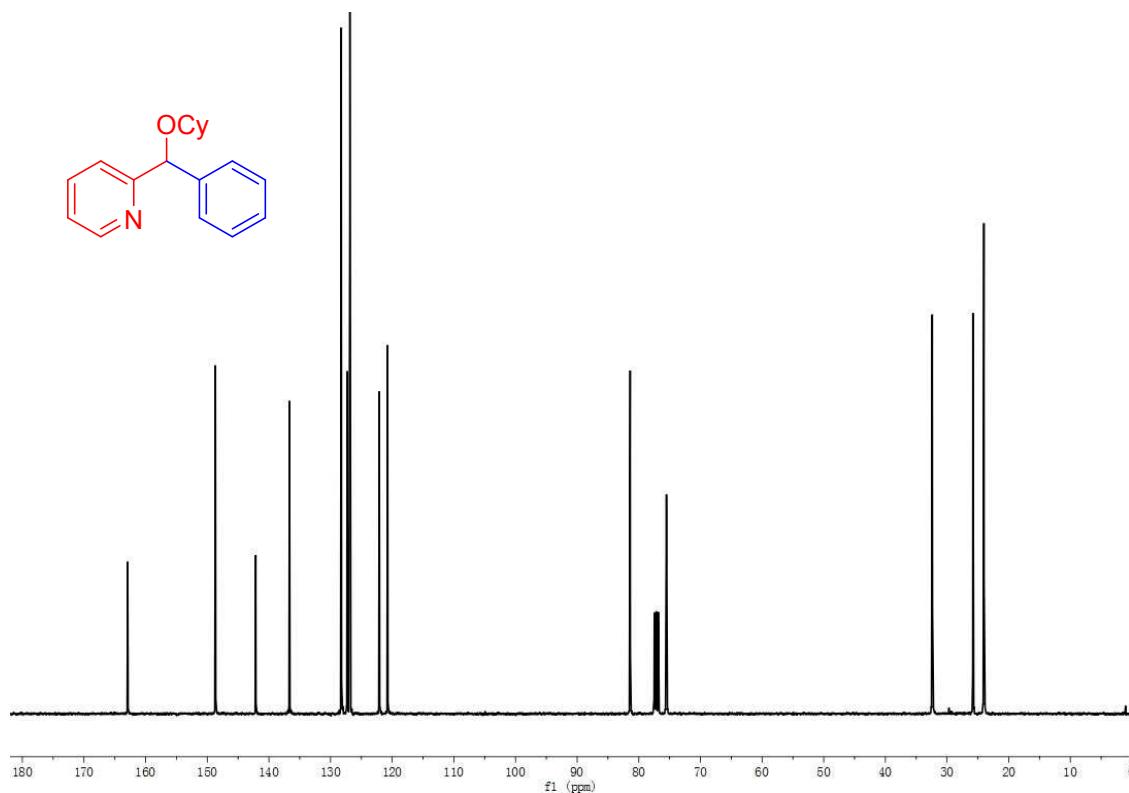
$^{13}\text{C}\{^1\text{H}\}$  NMR spectra (100 MHz, Chloroform-*d*) of 2-(Methoxy(phenyl)methyl)pyridine (3ga)



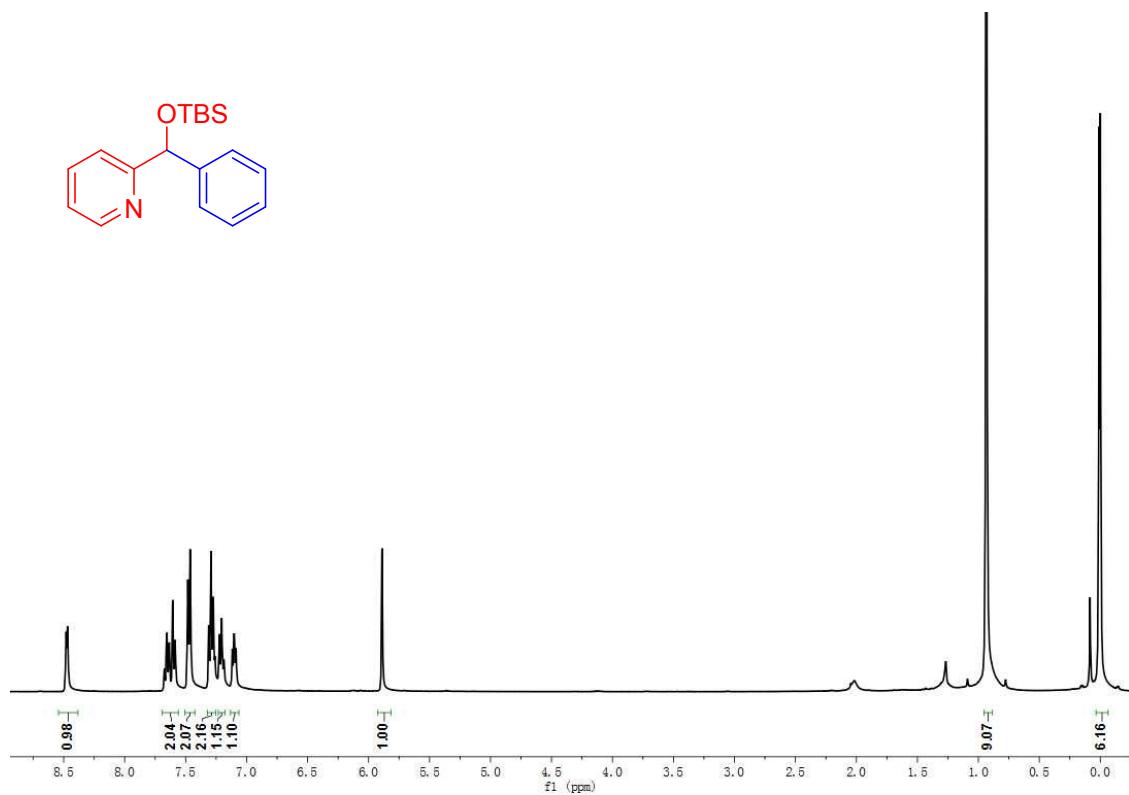
$^1\text{H}$  NMR spectra (400 MHz, Chloroform-*d*) of 2-((Cyclohexyloxy)(phenyl)methyl)pyridine (3ha)



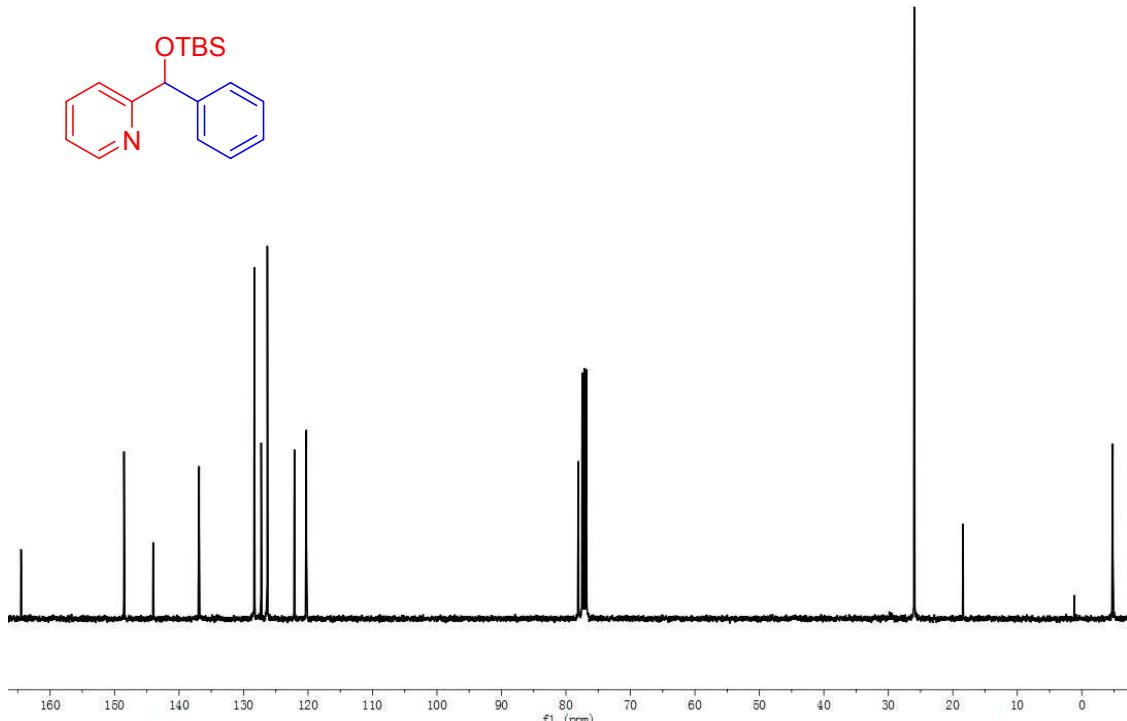
$^{13}\text{C}\{^1\text{H}\}$  NMR spectra (100 MHz, Chloroform-*d*) of 2-((Cyclohexyloxy)(phenyl)methyl)pyridine (3ha)



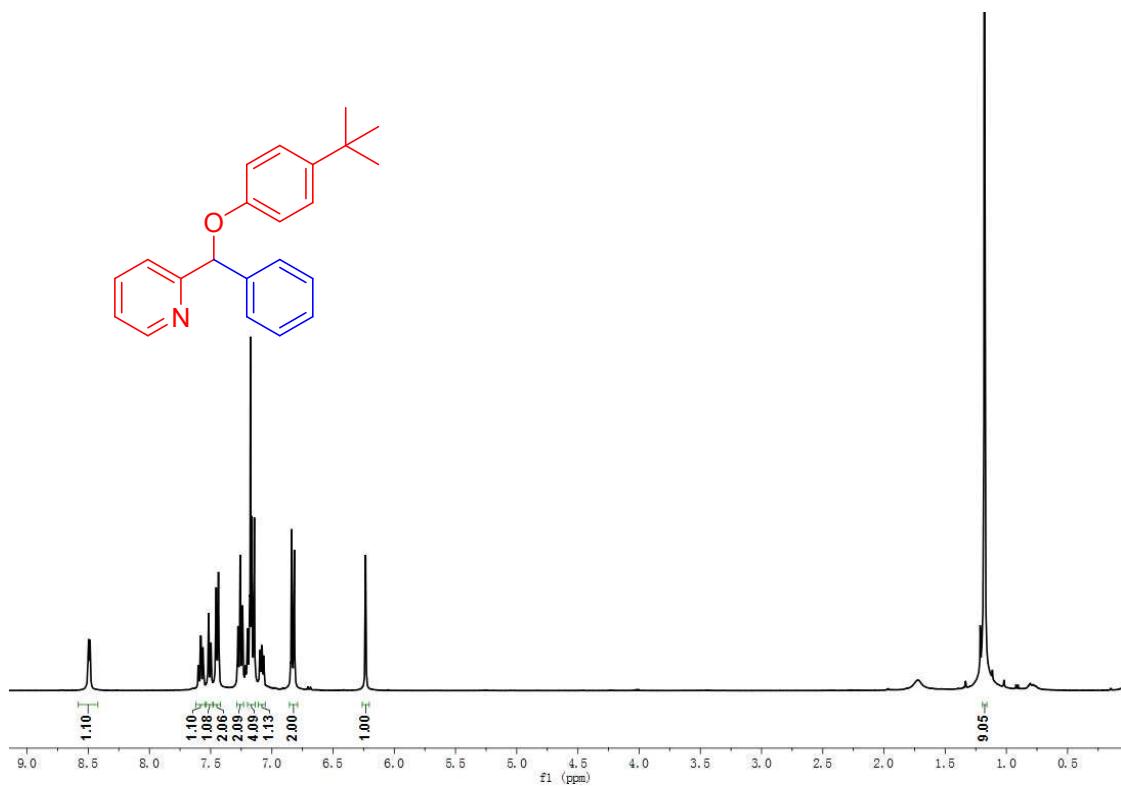
$^1\text{H}$  NMR spectra (400 MHz, Chloroform-*d*) of 2-((*tert*-Butyldimethylsilyloxy)(phenyl)methyl)pyridine (3ia)



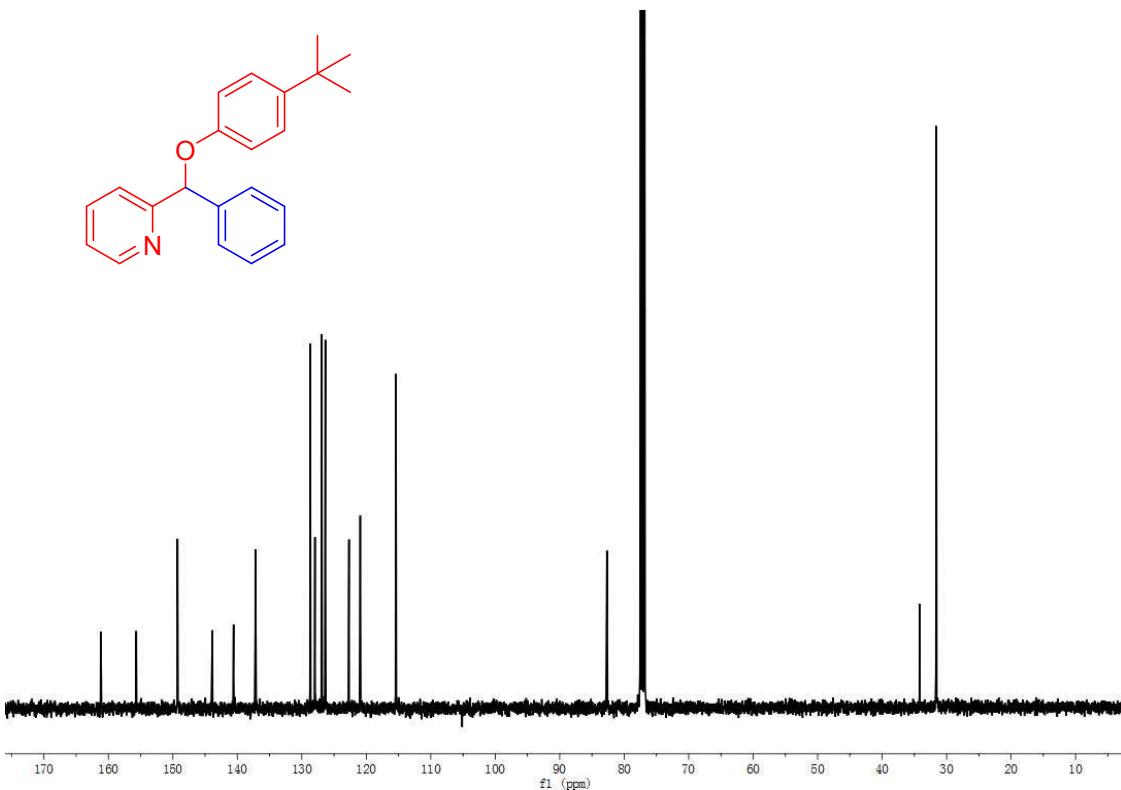
$^{13}\text{C}\{\text{H}\}$  NMR spectra (100 MHz, Chloroform-*d*) of 2-((*tert*-Butyldimethylsilyl)oxy)(phenyl)methyl)pyridine (3ia)



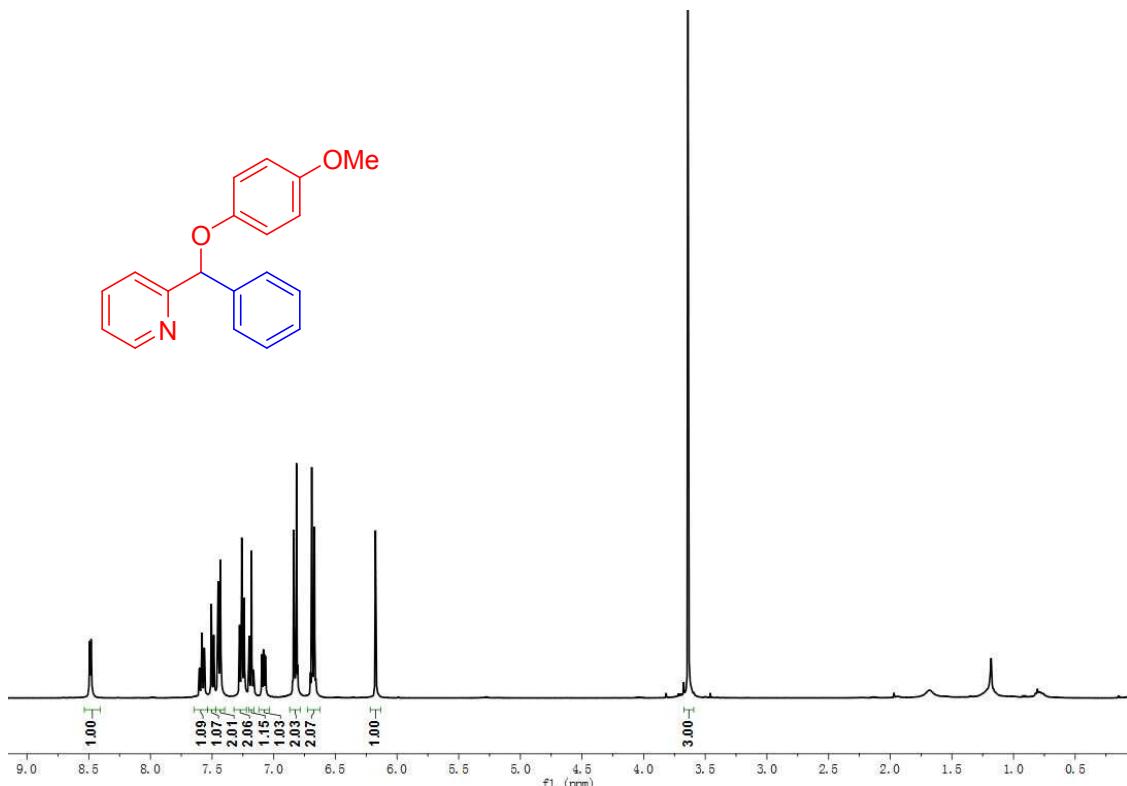
$^1\text{H}$  NMR spectra (400 MHz, Chloroform-*d*) of 2-((4-(*tert*-Butyl)phenoxy)(phenyl)methyl)pyridine (3ja)



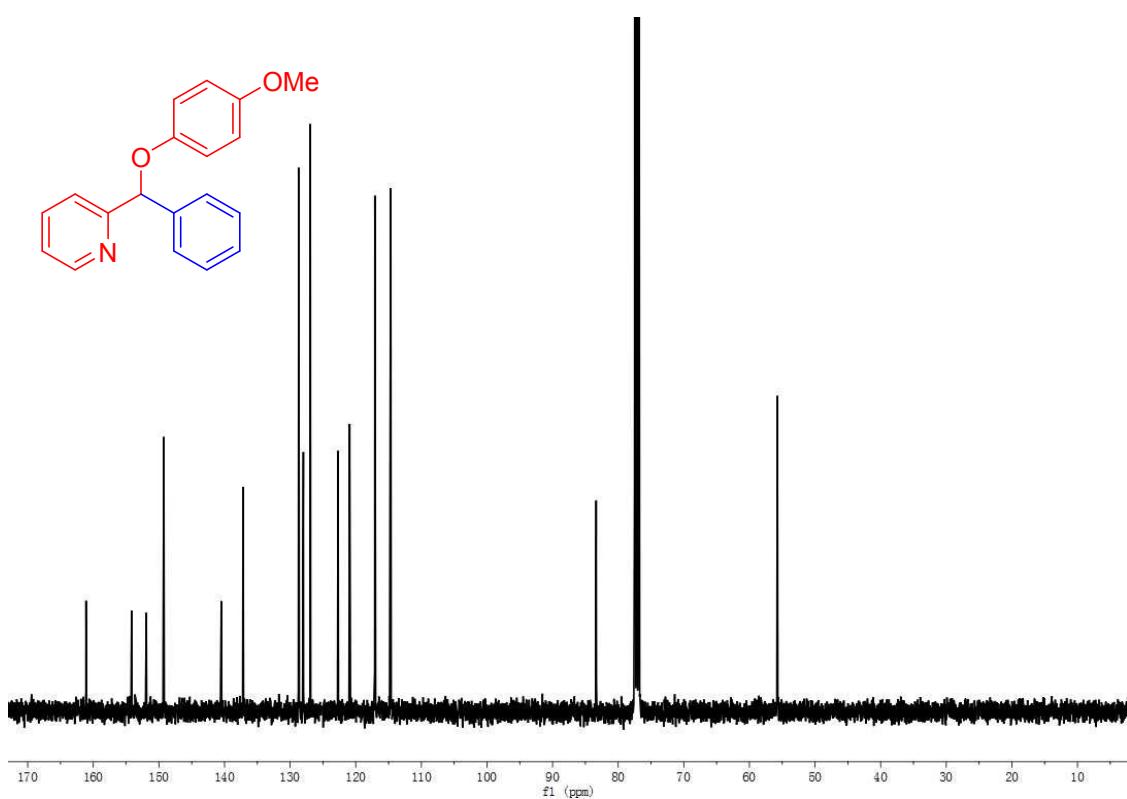
$^{13}\text{C}\{^1\text{H}\}$  NMR spectra (100 MHz, Chloroform-*d*) of 2-((4-(*tert*-Butyl)phenoxy)(phenyl)methyl)pyridine (3ja)



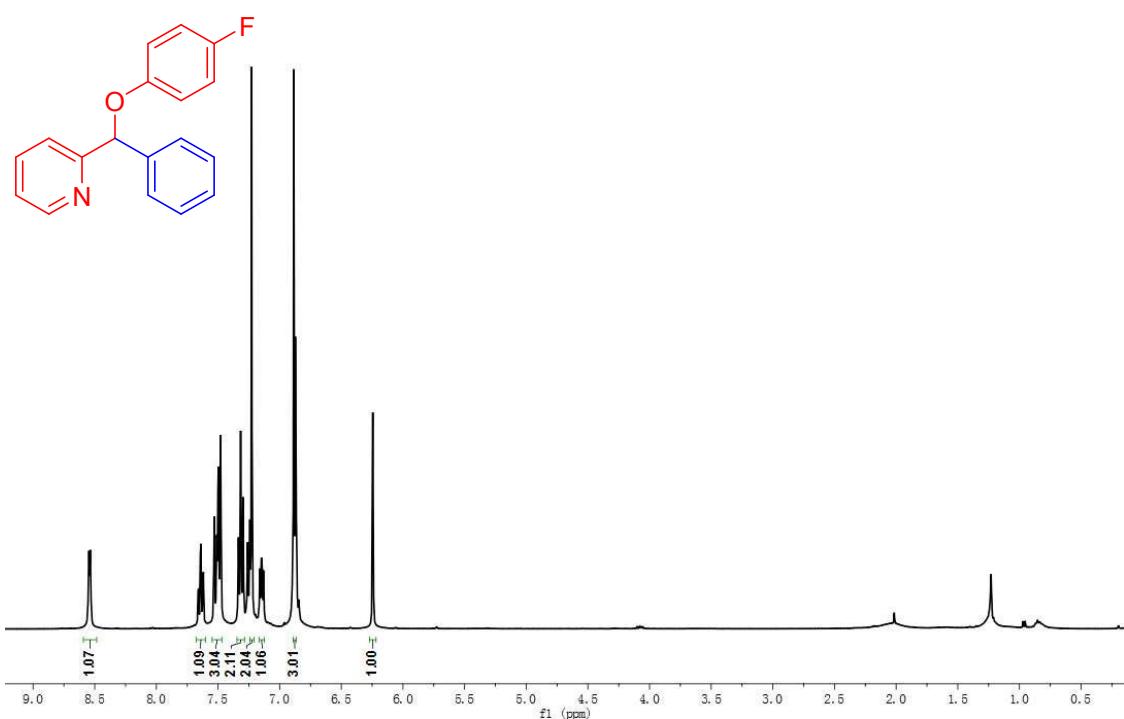
$^1\text{H}$  NMR spectra (400 MHz, Chloroform-*d*) of 2-((4-Methoxyphenoxy)(phenyl)methyl)pyridine (3ka)



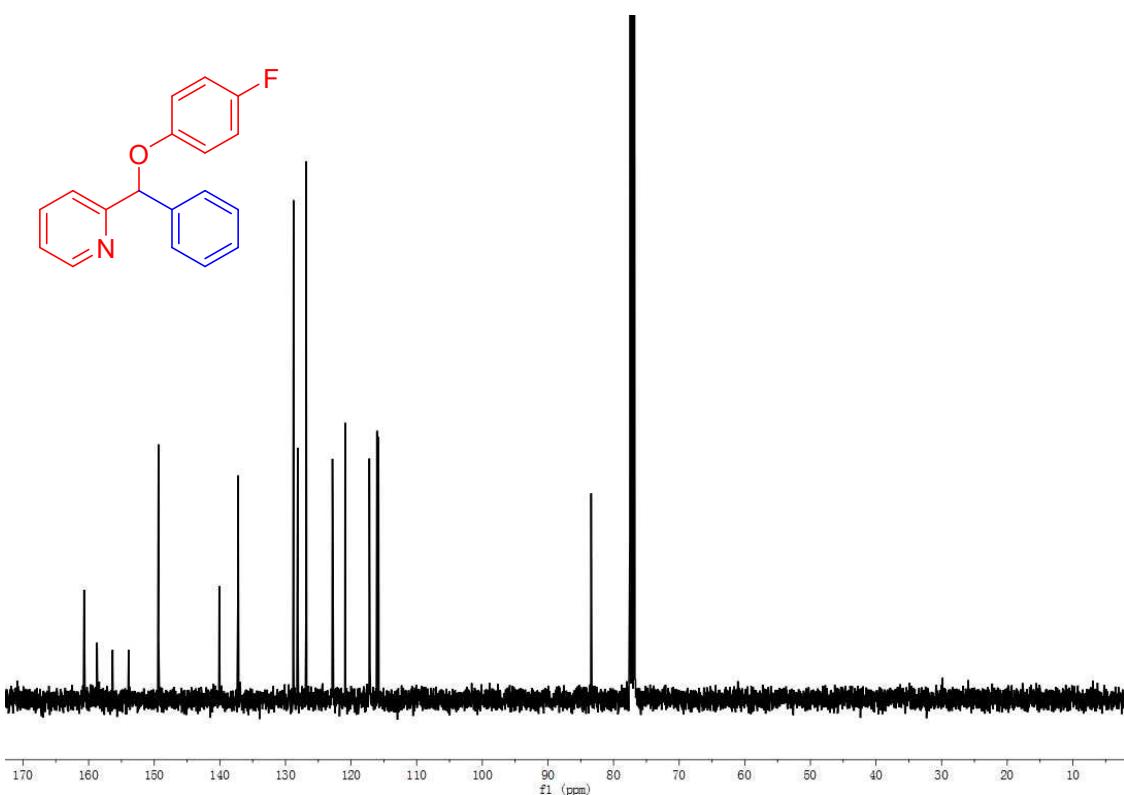
$^{13}\text{C}\{\text{H}\}$  NMR spectra (100 MHz, Chloroform-*d*) of 2-((4-Methoxyphenoxy)(phenyl)methyl)pyridine (**3ka**)



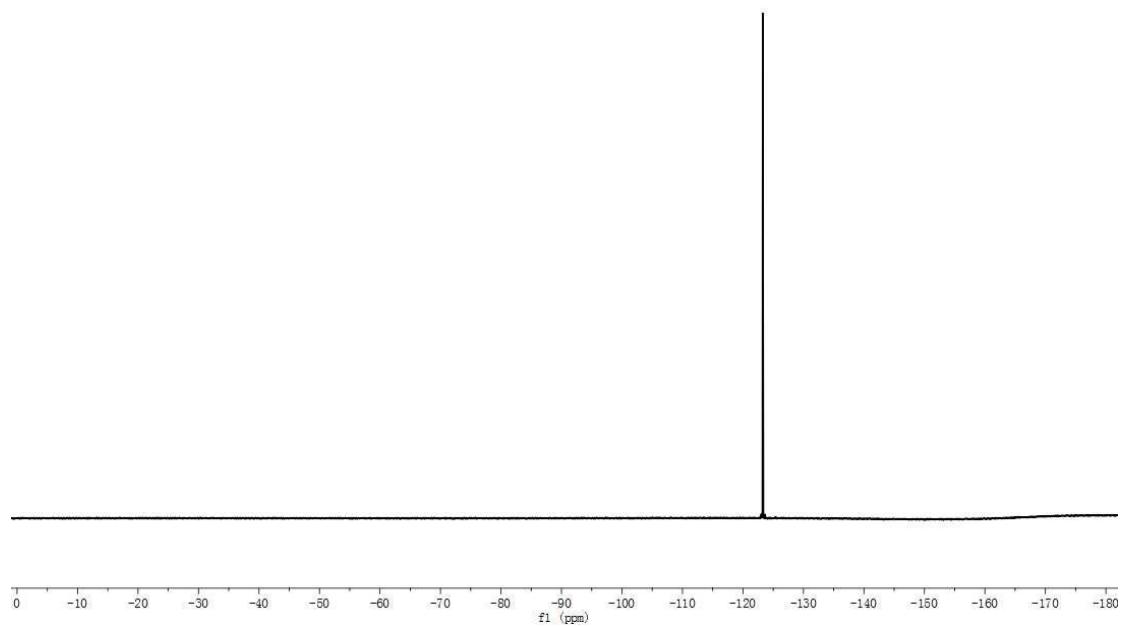
$^1\text{H}$  NMR spectra (400 MHz, Chloroform-*d*) of 2-((4-Fluorophenoxy)(phenyl)methyl)pyridine (**3la**)



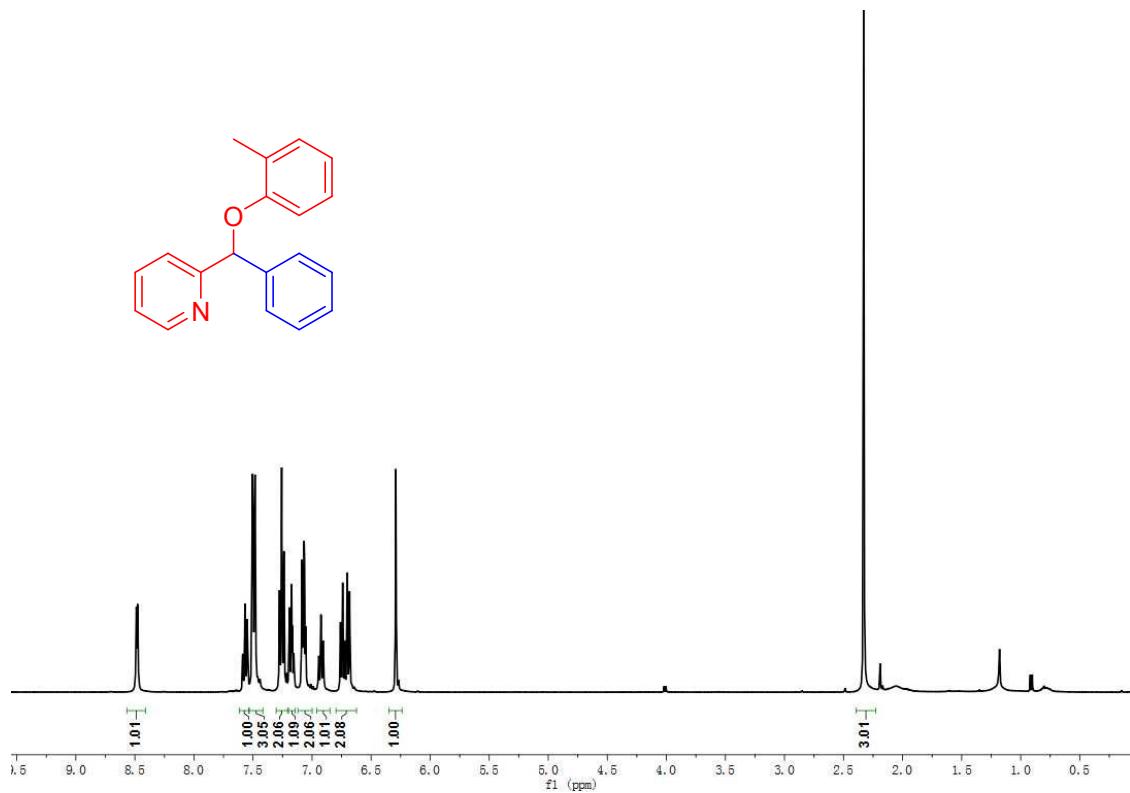
$^{13}\text{C}\{\text{H}\}$  NMR spectra (100 MHz, Chloroform-*d*) of 2-((4-Fluorophenoxy)(phenyl)methyl)pyridine (3la)



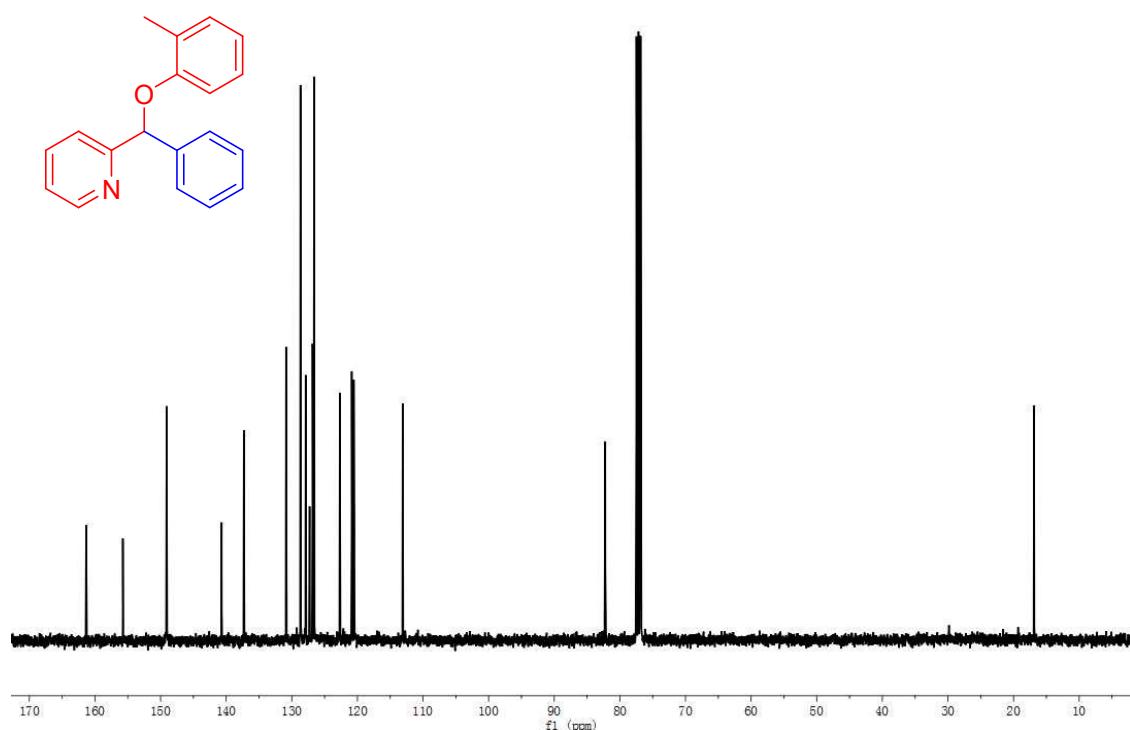
$^{19}\text{F}$  NMR spectra (376 MHz, Chloroform-*d*) of 2-((4-Fluorophenoxy)(phenyl)methyl)pyridine (3la)



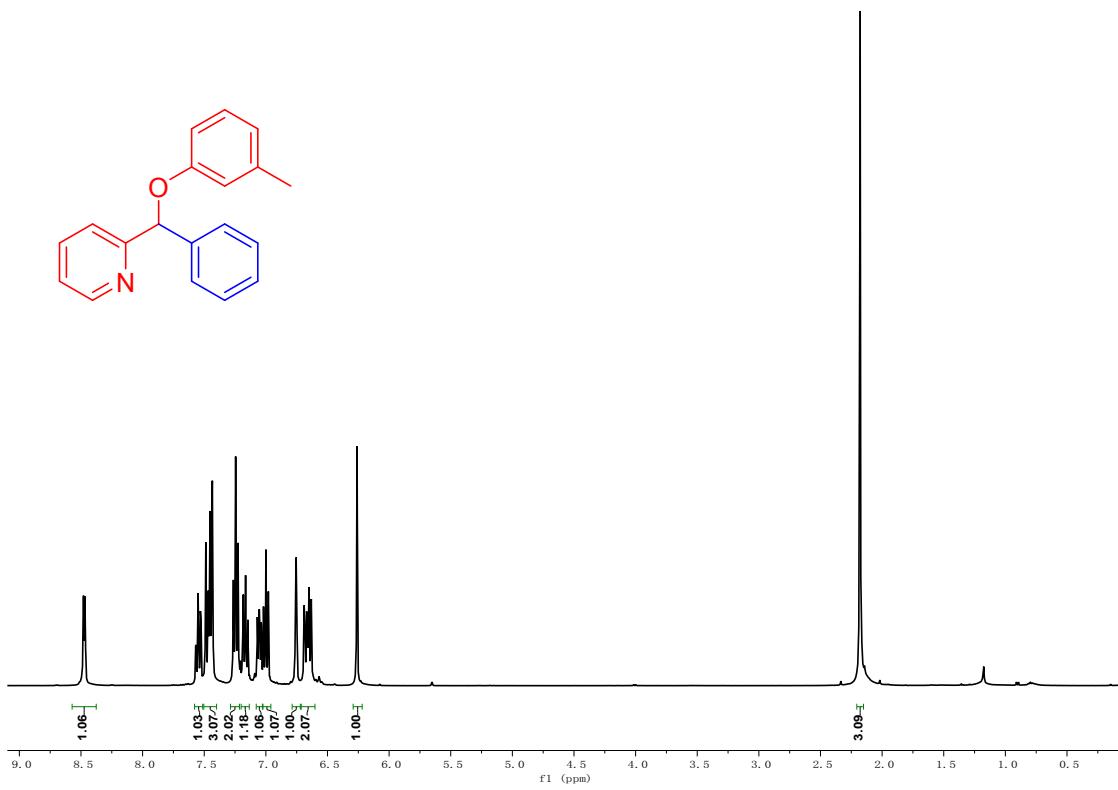
<sup>1</sup>H NMR spectra (400 MHz, Chloroform-d) of 2-(Phenyl(o-tolyloxy)methyl)pyridine (3ma)



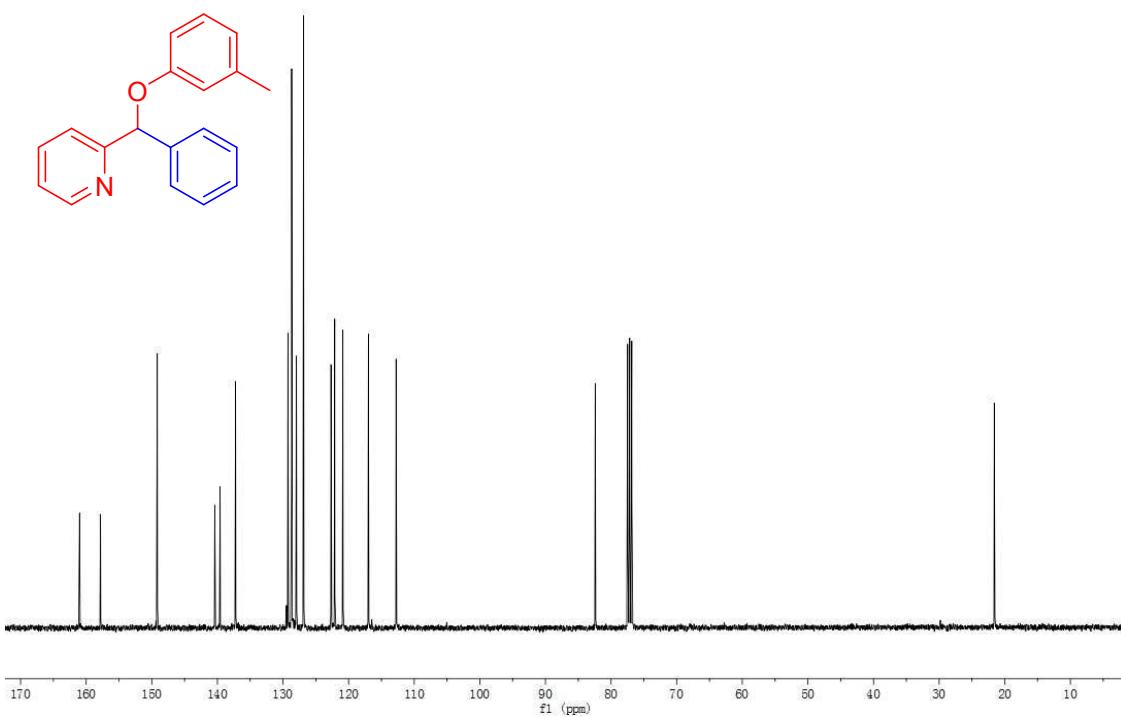
$^{13}\text{C}\{\text{H}\}$  NMR spectra (100 MHz, Chloroform-*d*) of 2-(Phenyl(o-tolyloxy)methyl)pyridine (3ma)



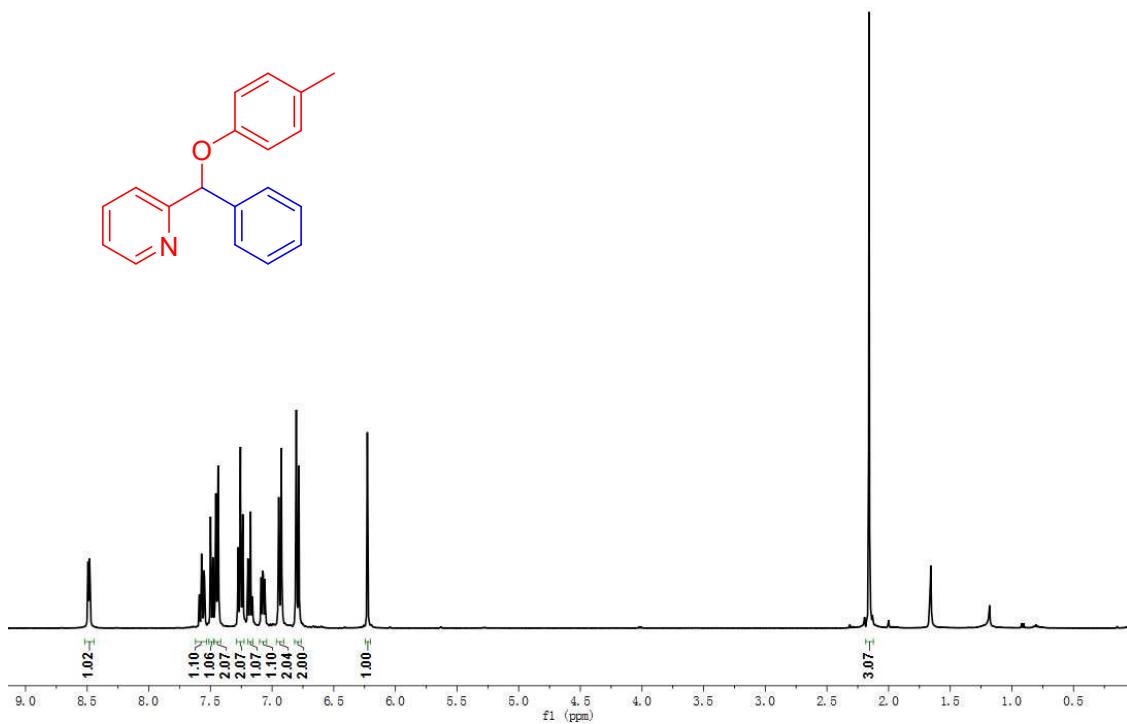
$^1\text{H}$  NMR spectra (400 MHz, Chloroform-*d*) of 2-(Phenyl(m-tolyloxy)methyl)pyridine (3na)



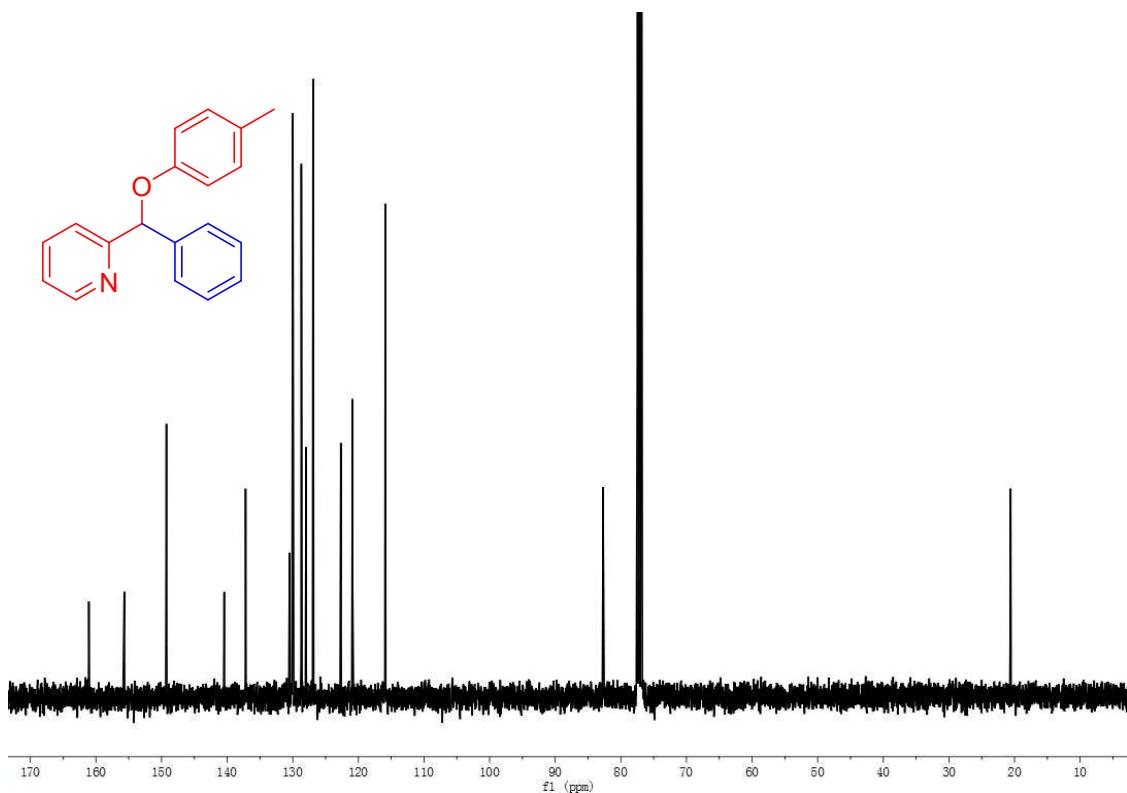
<sup>1</sup>H NMR spectra (400 MHz, Chloroform-*d*) of 2-(Phenyl(p-tolyloxy)methyl)pyridine (3na)



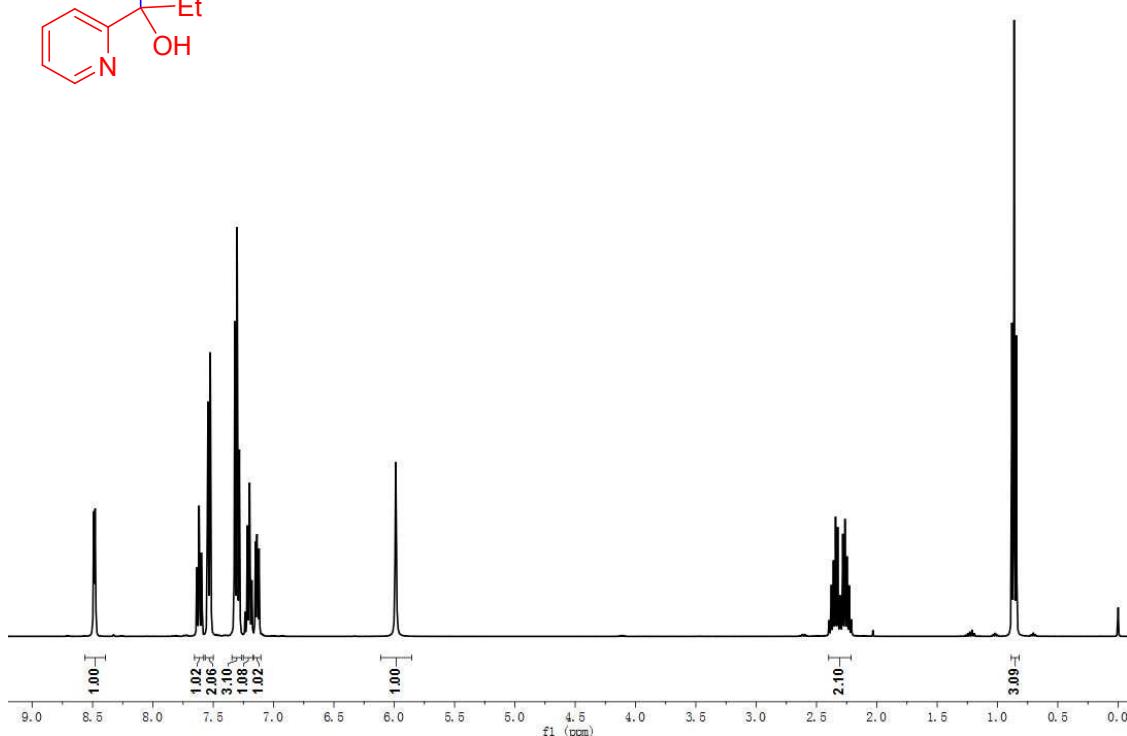
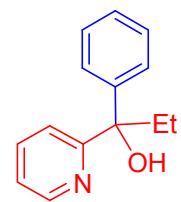
<sup>13</sup>C{<sup>1</sup>H} NMR spectra (100 MHz, Chloroform-*d*) of 2-(Phenyl(p-tolyloxy)methyl)pyridine (3oa)



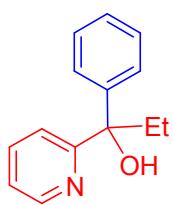
$^{13}\text{C}\{^1\text{H}\}$  NMR spectra (100 MHz, Chloroform-*d*) of 2-(Phenyl(p-tolyloxy)methyl)pyridine (3oa)

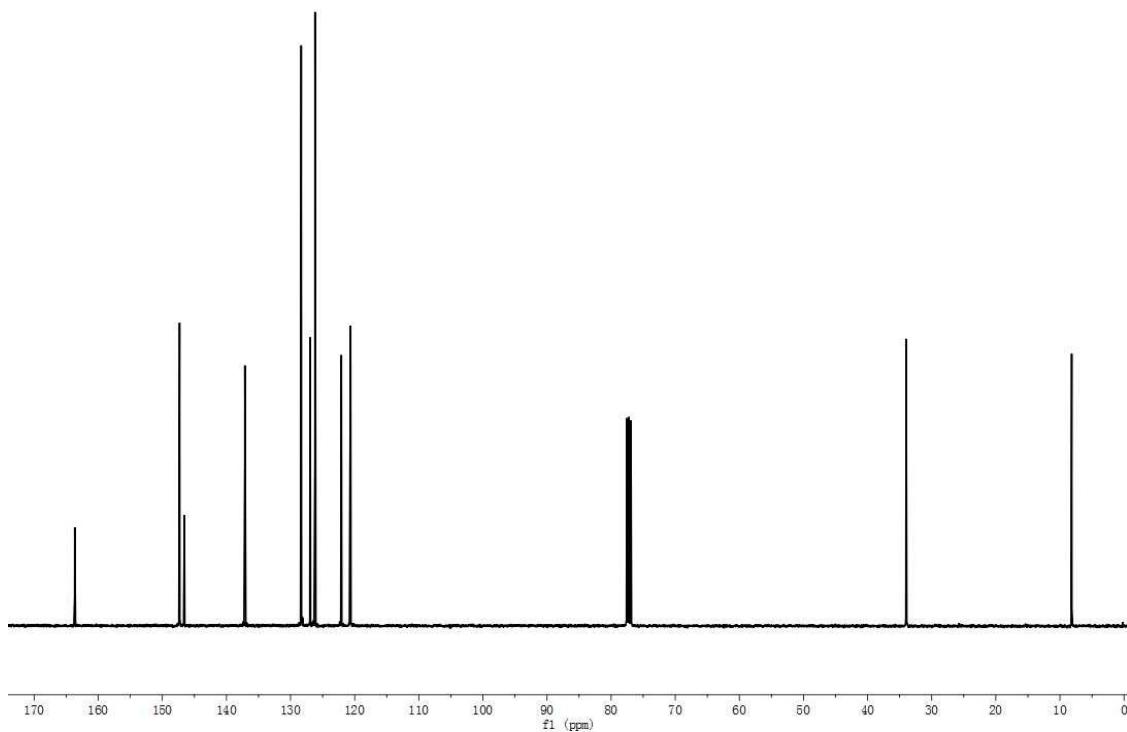


$^1\text{H}$  NMR spectra (400 MHz, Chloroform-*d*) of 1-Phenyl-1-(pyridin-2-yl)propan-1-ol (4ea)

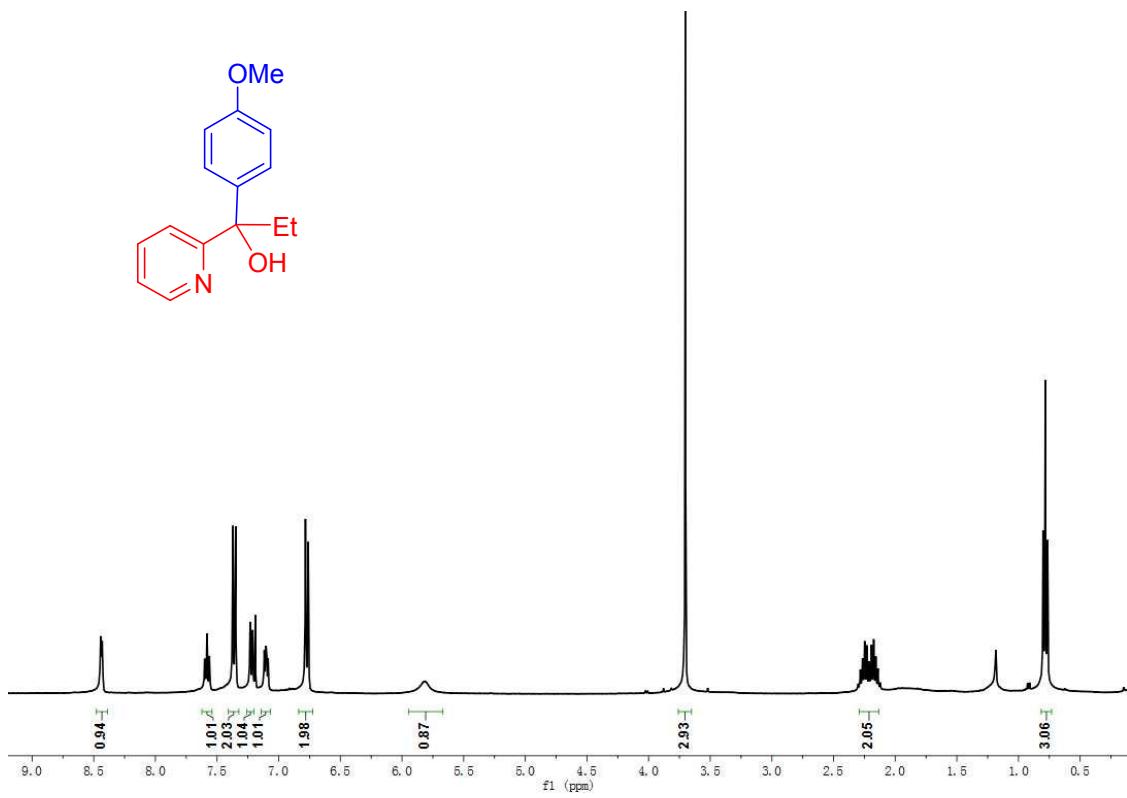


$^{13}\text{C}\{\text{H}\}$  NMR spectra (100 MHz, Chloroform-*d*) of 1-Phenyl-1-(pyridin-2-yl)propan-1-ol (4ea)

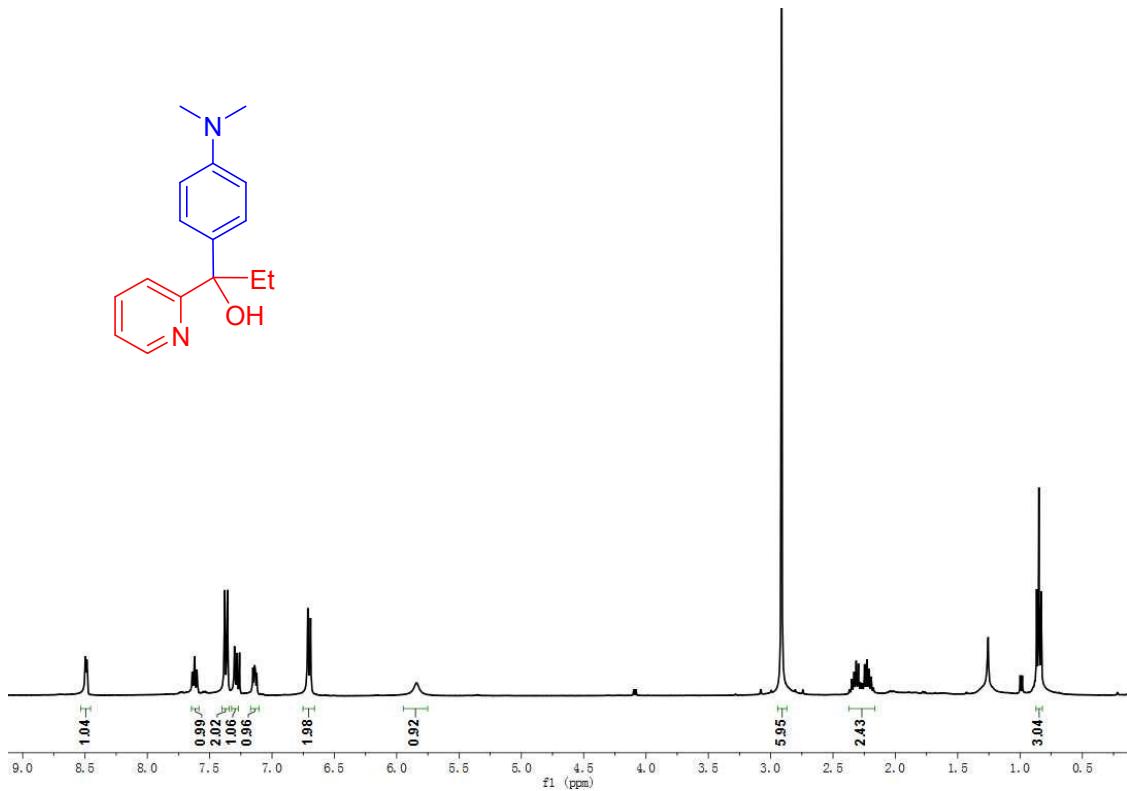
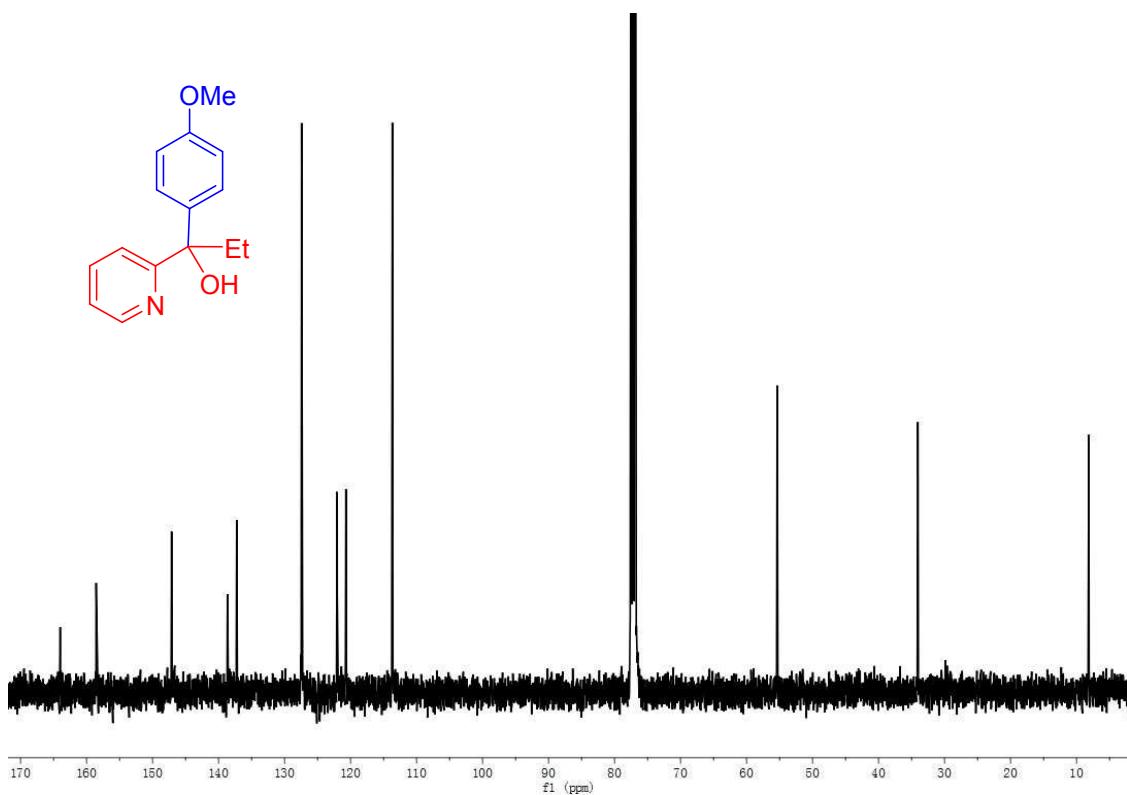


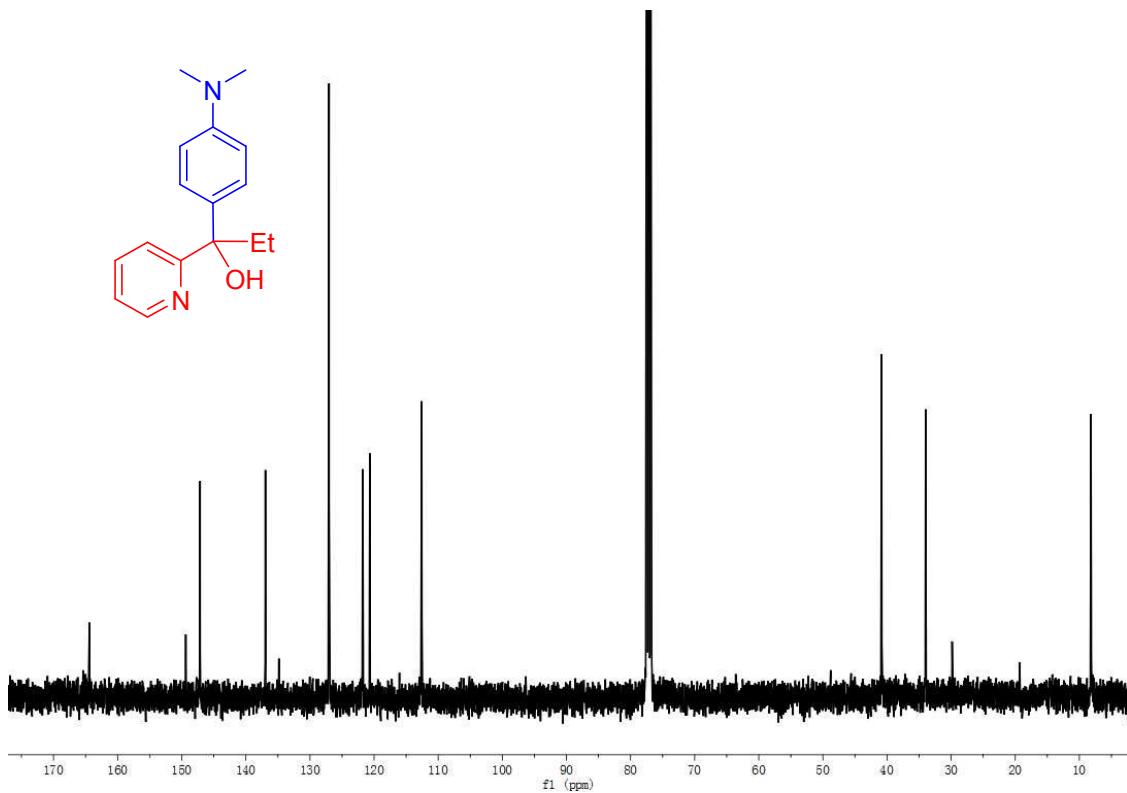


<sup>1</sup>H NMR spectra (400 MHz, Chloroform-d) of 1-(4-Methoxyphenyl)-1-(pyridin-2-yl)propan-1-ol (4eb)

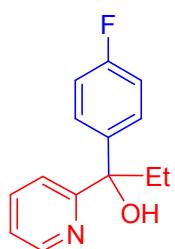


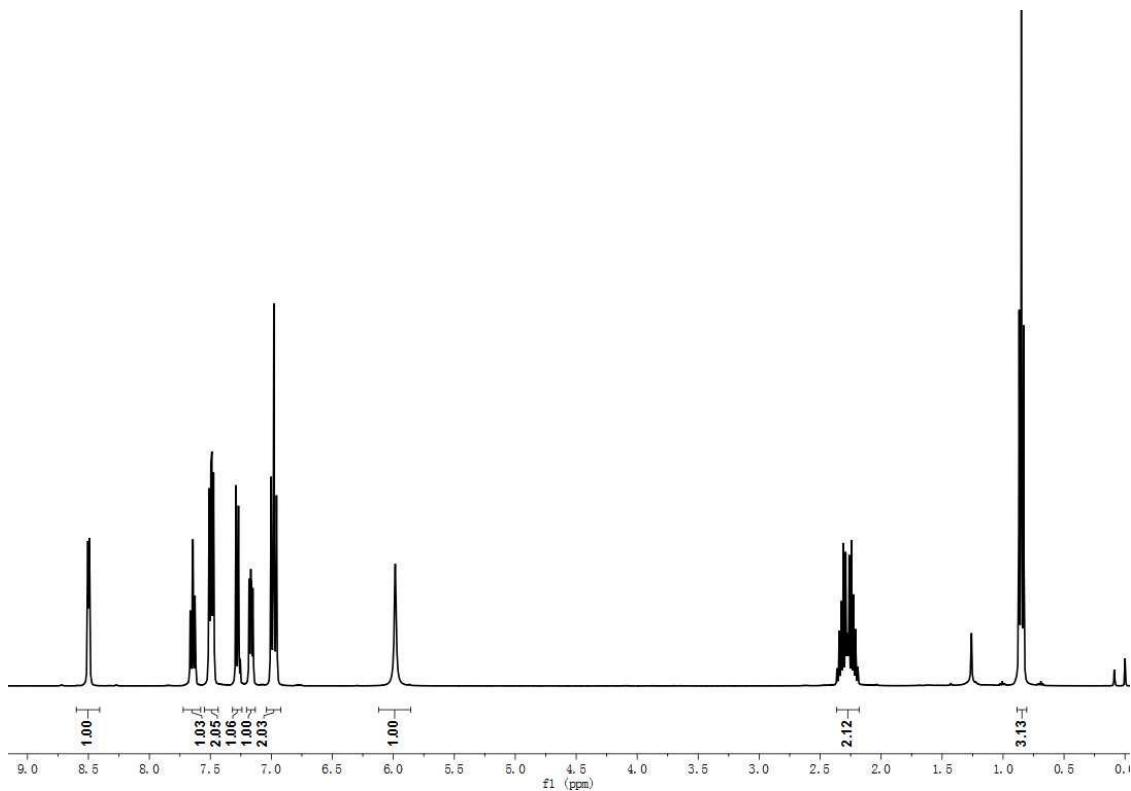
<sup>13</sup>C{<sup>1</sup>H} NMR spectra (100 MHz, Chloroform-d) of 1-(4-Methoxyphenyl)-1-(pyridin-2-yl)propan-1-ol (4eb)



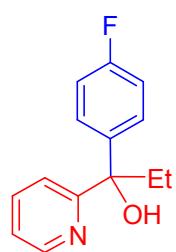


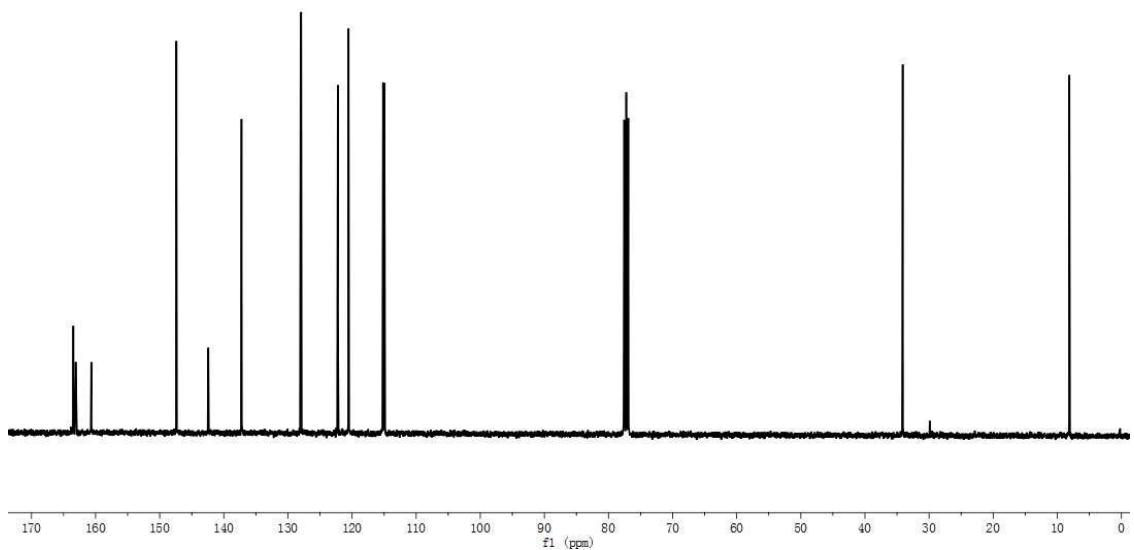
<sup>1</sup>H NMR spectra (400 MHz, Chloroform-*d*) of 1-(4-Fluorophenyl)-1-(pyridin-2-yl)propan-1-ol (4ed)



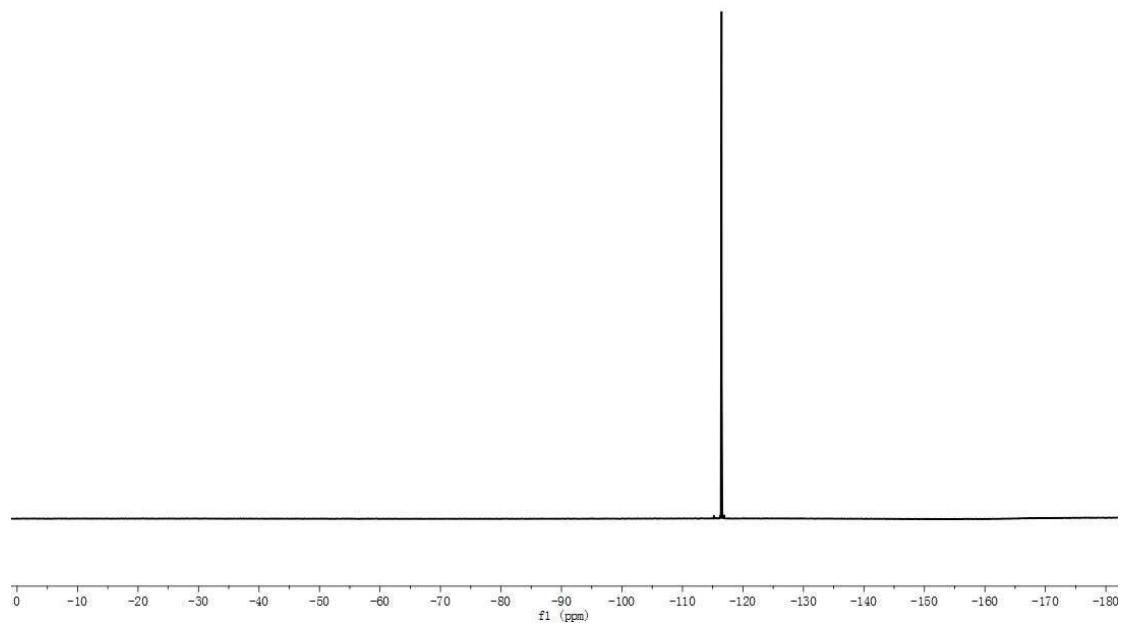


$^{13}\text{C}\{\text{H}\}$  NMR spectra (100 MHz, Chloroform-*d*) of 1-(4-Fluorophenyl)-1-(pyridin-2-yl)propan-1-ol (4ed)

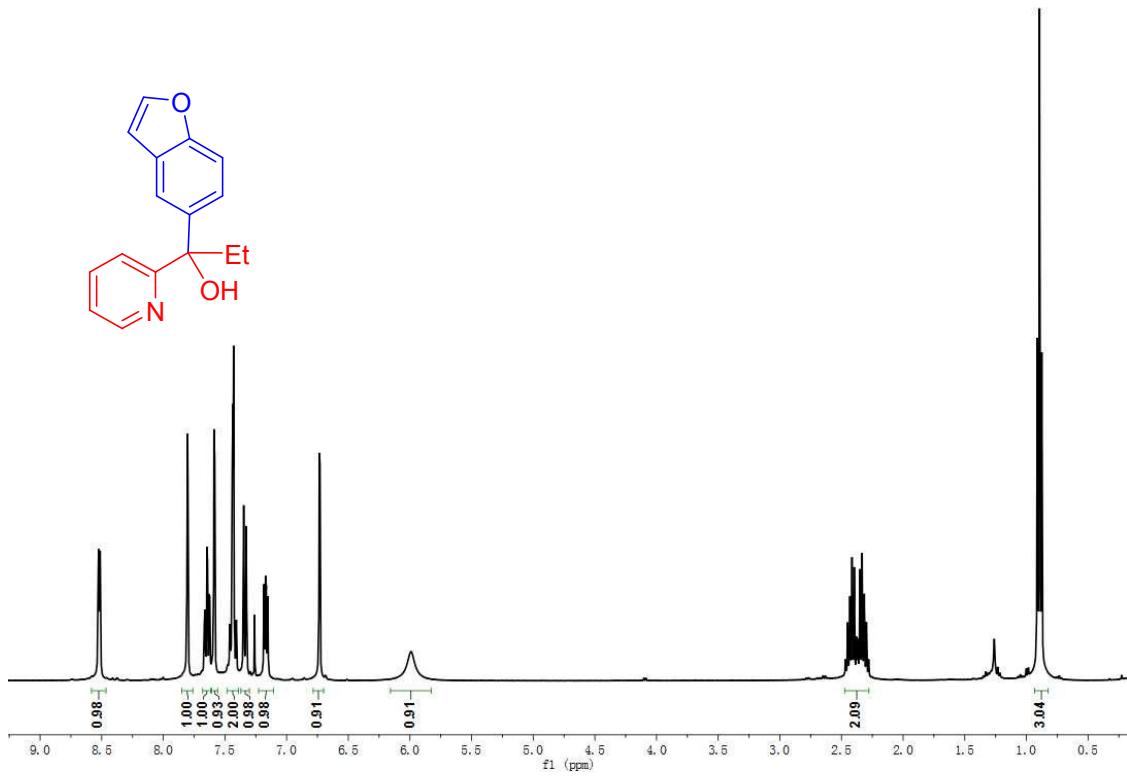




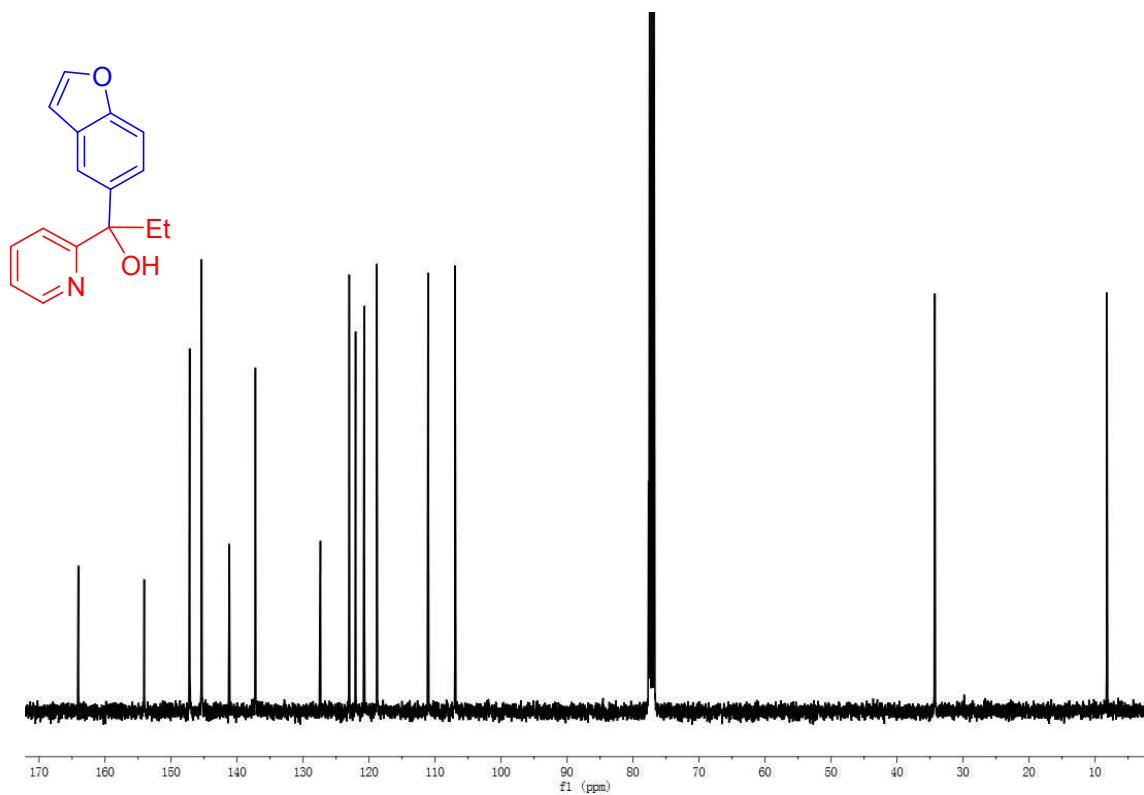
<sup>1</sup>F NMR spectra (376 MHz, Chloroform-*d*) of 1-(4-Fluorophenyl)-1-(pyridin-2-yl)propan-1-ol (4ed)



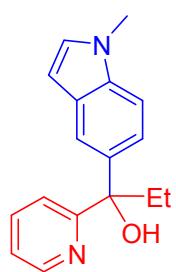
<sup>1</sup>H NMR spectra (400 MHz, Chloroform-*d*) of 1-(Benzofuran-5-yl)-1-(pyridin-2-yl)propan-1-ol (4eg)

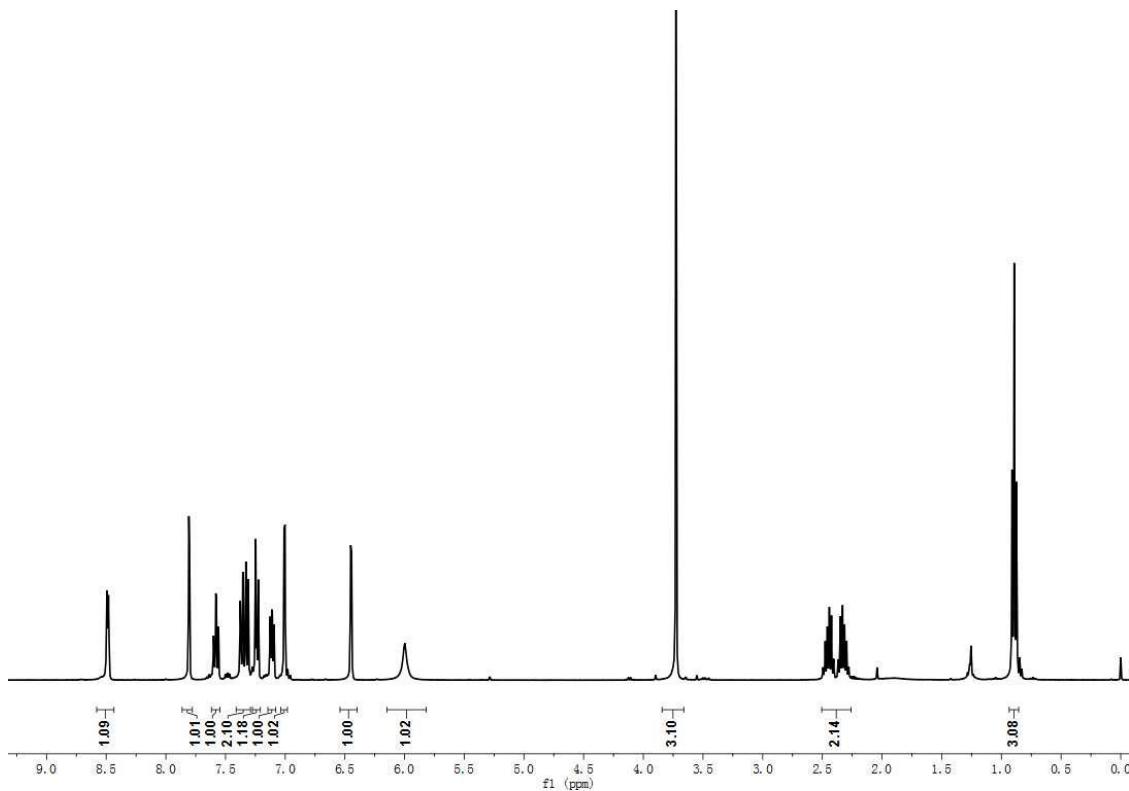


<sup>13</sup>C{<sup>1</sup>H} NMR spectra (100 MHz, Chloroform-*d*) of 1-(Benzofuran-5-yl)-1-(pyridin-2-yl)propan-1-ol (4eg)

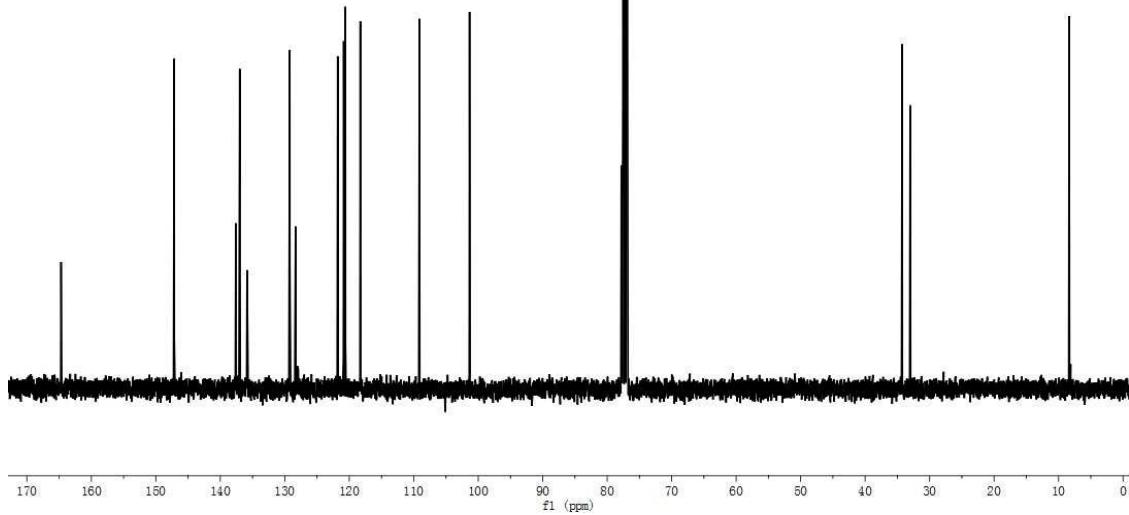
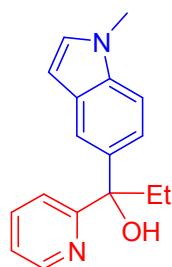


<sup>1</sup>H NMR spectra (400 MHz, Chloroform-*d*) of 1-(1-Methyl-1*H*-indol-5-yl)-1-(pyridin-2-yl)propan-1-ol (4eh)

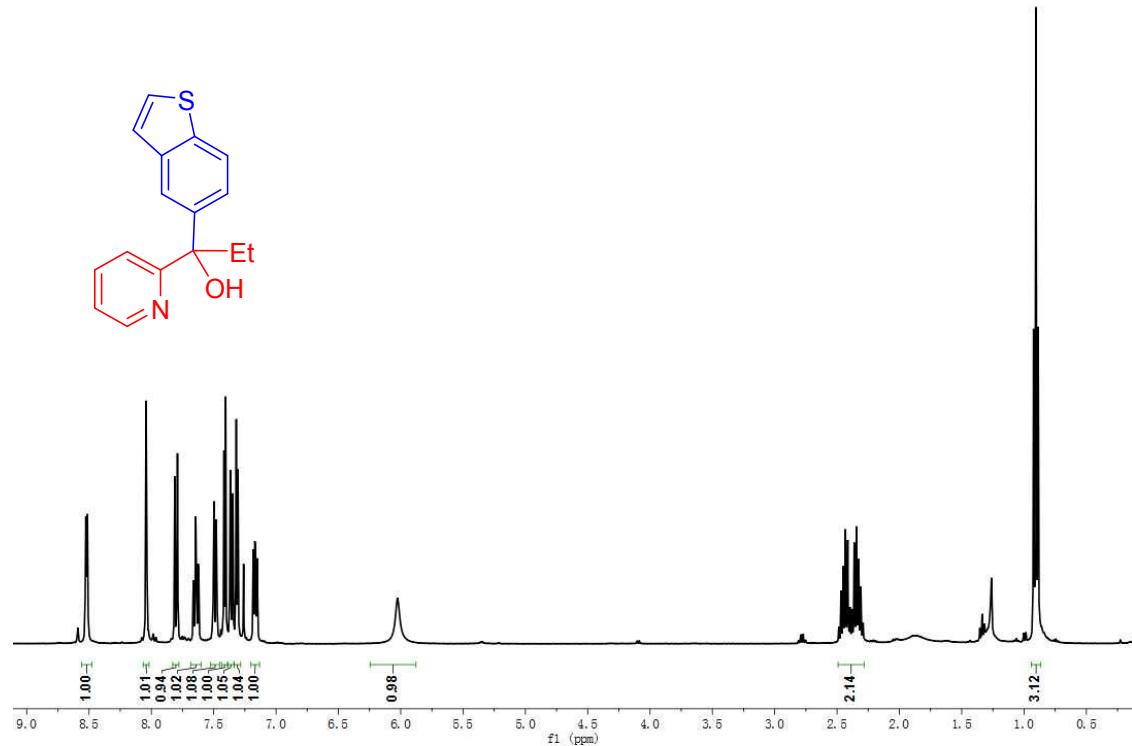




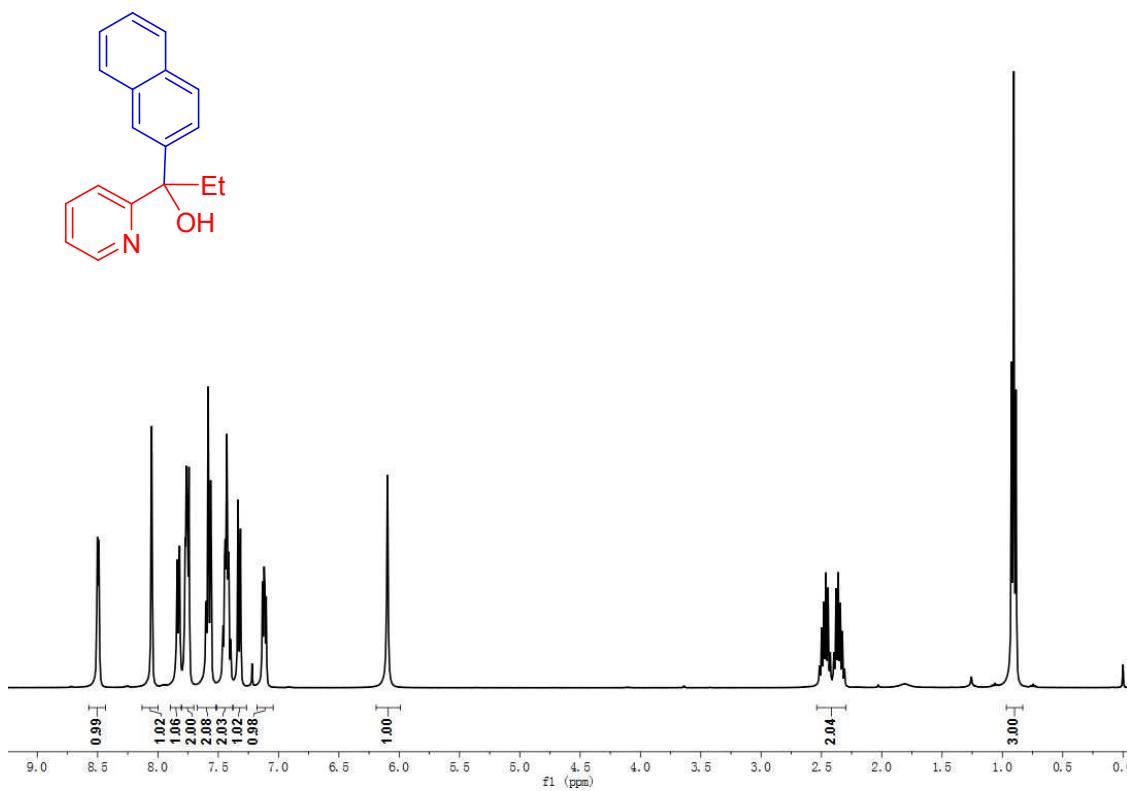
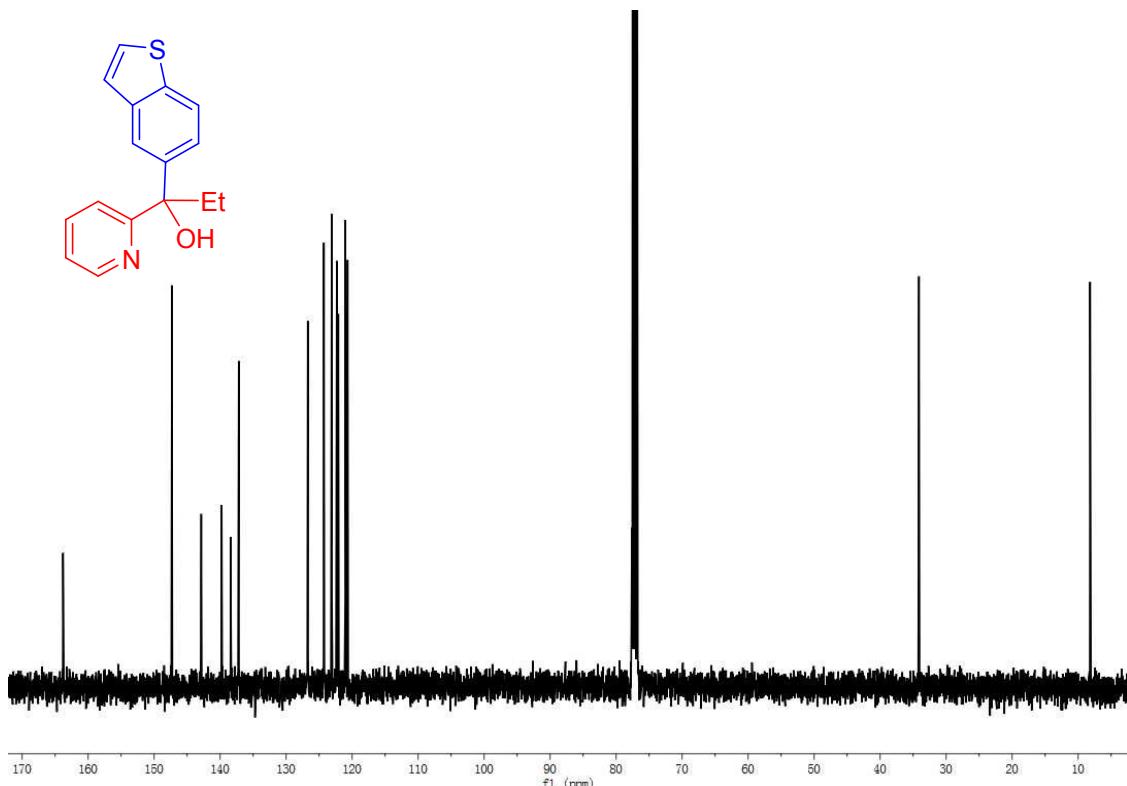
**<sup>13</sup>C{<sup>1</sup>H} NMR spectra (100 MHz, Chloroform-*d*) of 1-(1-Methyl-1H-indol-5-yl)-1-(pyridin-2-yl)propan-1-ol (4eh)**



<sup>1</sup>H NMR spectra (400 MHz, Chloroform-d) of 1-(Benzo[b]thiophen-5-yl)-1-(pyridin-2-yl)propan-1-ol (4ei)



<sup>13</sup>C{<sup>1</sup>H} NMR spectra (100 MHz, Chloroform-d) of 1-(Benzo[b]thiophen-5-yl)-1-(pyridin-2-yl)propan-1-ol (4ei)



$^{13}\text{C}\{\text{H}\}$  NMR spectra (100 MHz, Chloroform-*d*) of 1-(Naphthalen-2-yl)-1-(pyridin-2-yl)propan-1-ol (4ej)

