Polygon-65537

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\begin{aligned}
a_0 &= -1 \\
x &= 16384a_0 \\
a_1 &= \frac{a_0+\sqrt{a_0^2-4x}}{2} \\
x &= 16384a_0 \\
a_2 &= \frac{a_0-\sqrt{a_0^2-4x}}{2} \\
x &= 4096a_0 \\
a_3 &= \frac{a_1-\sqrt{a_1^2-4x}}{2} \\
x &= 4096a_0 \\
a_4 &= \frac{a_2-\sqrt{a_2^2-4x}}{2} \\
x &= 4096a_0 \\
a_5 &= \frac{a_1+\sqrt{a_1^2-4x}}{2} \\
x &= 4096a_0 \\
a_6 &= \frac{a_2+\sqrt{a_2^2-4x}}{2} \\
x &= 1040a_0-16a_1-32a_3 \\
a_7 &= \frac{a_3-\sqrt{a_3^2-4x}}{2} \\
x &= 1040a_0-16a_2-32a_4 \\
a_8 &= \frac{a_4+\sqrt{a_4^2-4x}}{2} \\
x &= 1040a_0-16a_1-32a_5 \\
a_9 &= \frac{a_5+\sqrt{a_5^2-4x}}{2} \\
x &= 1040a_0-16a_2-32a_6 \\
a_{10} &= \frac{a_6-\sqrt{a_6^2-4x}}{2} \\
x &= 1040a_0-16a_1-32a_3 \\
a_{11} &= \frac{a_3+\sqrt{a_3^2-4x}}{2} \\
x &= 1040a_0-16a_2-32a_4 \\
a_{12} &= \frac{a_4-\sqrt{a_4^2-4x}}{2} \\
x &= 1040a_0-16a_1-32a_5 \\
a_{13} &= \frac{a_5-\sqrt{a_5^2-4x}}{2} \\
x &= 1040a_0-16a_2-32a_6 \\
a_{14} &= \frac{a_6+\sqrt{a_6^2-4x}}{2} \\
x &= 237a_0+19a_1+32a_4+28a_7-32a_8+16a_9 \\
a_{15} &= \frac{a_7+\sqrt{a_7^2-4x}}{2} \\
x &= 237a_0+19a_2+32a_5+28a_8-32a_9+16a_{10} \\
a_{16} &= \frac{a_8+\sqrt{a_8^2-4x}}{2} \\
x &= 237a_0+19a_1+32a_6+28a_9-32a_{10}+16a_{11} \\
a_{17} &= \frac{a_9+\sqrt{a_9^2-4x}}{2} \\
x &= 237a_0+19a_2+32a_3+28a_{10}-32a_{11}+16a_{12} \\
a_{18} &= \frac{a_{10}-\sqrt{a_{10}^2-4x}}{2} \\
x &= 237a_0+19a_1+32a_4+28a_{11}-32a_{12}+16a_{13} \\
a_{19} &= \frac{a_{11}+\sqrt{a_{11}^2-4x}}{2} \\
x &= 237a_0+19a_2+32a_5+28a_{12}-32a_{13}+16a_{14} \\
a_{20} &= \frac{a_{12}-\sqrt{a_{12}^2-4x}}{2} \\
x &= 237a_0+19a_1+32a_6+28a_{13}-32a_{14}+16a_7 \\
a_{21} &= \frac{a_{13}+\sqrt{a_{13}^2-4x}}{2} \\
x &= 237a_0+19a_2+32a_3+28a_{14}-32a_7+16a_8 \\
a_{22} &= \frac{a_{14}-\sqrt{a_{14}^2-4x}}{2} \\
x &= 237a_0+19a_1+32a_4+28a_7-32a_8+16a_9 \\
a_{23} &= \frac{a_7-\sqrt{a_7^2-4x}}{2} \\
x &= 237a_0+19a_2+32a_5+28a_8-32a_9+16a_{10} \\
a_{24} &= \frac{a_8-\sqrt{a_8^2-4x}}{2} \\
x &= 237a_0+19a_1+32a_6+28a_9-32a_{10}+16a_{11} \\
a_{25} &= \frac{a_9-\sqrt{a_9^2-4x}}{2} \\
x &= 237a_0+19a_2+32a_3+28a_{10}-32a_{11}+16a_{12} \\
a_{26} &= \frac{a_{10}+\sqrt{a_{10}^2-4x}}{2} \\
x &= 237a_0+19a_1+32a_4+28a_{11}-32a_{12}+16a_{13} \\
a_{27} &= \frac{a_{11}-\sqrt{a_{11}^2-4x}}{2} \\
x &= 237a_0+19a_2+32a_5+28a_{12}-32a_{13}+16a_{14} \\
a_{28} &= \frac{a_{12}+\sqrt{a_{12}^2-4x}}{2} \\
x &= 237a_0+19a_1+32a_6+28a_{13}-32a_{14}+16a_7 \\
a_{29} &= \frac{a_{13}-\sqrt{a_{13}^2-4x}}{2}
\end{aligned}
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$$x = 237a_0 + 19a_2 + 32a_3 + 28a_{14} - 32a_7 + 16a_8$$

$$a_{30} = \frac{a_{14} + \sqrt{a_{14}^2 - 4x}}{2}$$
$$x = 70a_0 - 9a_1 + 4a_3 + 3a_7 - 6a_8 + 3a_9 - 12a_{10} + 12a_{15} - 2a_{16} - 4a_{17} + 6a_{18} - 8a_{19} - 10a_{20} - 10a_{22}$$

$$a_{31} = \frac{a_{15} + \sqrt{a_{15}^2 - 4x}}{2}$$
$$x = 70a_0 - 9a_2 + 4a_4 + 3a_8 - 6a_9 + 3a_{10} - 12a_{11} + 12a_{16} - 2a_{17} - 4a_{18} + 6a_{19} - 8a_{20} - 10a_{21} - 10a_{23}$$

$$a_{32} = \frac{a_{16} - \sqrt{a_{16}^2 - 4x}}{2}$$
$$x = 70a_0 - 9a_1 + 4a_5 + 3a_9 - 6a_{10} + 3a_{11} - 12a_{12} + 12a_{17} - 2a_{18} - 4a_{19} + 6a_{20} - 8a_{21} - 10a_{22} - 10a_{24}$$

$$a_{33} = \frac{a_{17} + \sqrt{a_{17}^2 - 4x}}{2}$$
$$x = 70a_0 - 9a_2 + 4a_6 + 3a_{10} - 6a_{11} + 3a_{12} - 12a_{13} + 12a_{18} - 2a_{19} - 4a_{20} + 6a_{21} - 8a_{22} - 10a_{23} - 10a_{25}$$

$$a_{34} = \frac{a_{18} + \sqrt{a_{18}^2 - 4x}}{2}$$
$$x = 70a_0 - 9a_1 + 4a_3 + 3a_{11} - 6a_{12} + 3a_{13} - 12a_{14} + 12a_{19} - 2a_{20} - 4a_{21} + 6a_{22} - 8a_{23} - 10a_{24} - 10a_{26}$$

$$a_{35} = \frac{a_{19} + \sqrt{a_{19}^2 - 4x}}{2}$$
$$x = 70a_0 - 9a_2 + 4a_4 + 3a_{12} - 6a_{13} + 3a_{14} - 12a_7 + 12a_{20} - 2a_{21} - 4a_{22} + 6a_{23} - 8a_{24} - 10a_{25} - 10a_{27}$$

$$a_{36} = \frac{a_{20} - \sqrt{a_{20}^2 - 4x}}{2}$$
$$x = 70a_0 - 9a_1 + 4a_5 + 3a_{13} - 6a_{14} + 3a_7 - 12a_8 + 12a_{21} - 2a_{22} - 4a_{23} + 6a_{24} - 8a_{25} - 10a_{26} - 10a_{28}$$

$$a_{37} = \frac{a_{21} - \sqrt{a_{21}^2 - 4x}}{2}$$
$$x = 70a_0 - 9a_2 + 4a_6 + 3a_{14} - 6a_7 + 3a_8 - 12a_9 + 12a_{22} - 2a_{23} - 4a_{24} + 6a_{25} - 8a_{26} - 10a_{27} - 10a_{29}$$

$$a_{38} = \frac{a_{22} + \sqrt{a_{22}^2 - 4x}}{2}$$
$$x = 70a_0 - 9a_1 + 4a_3 + 3a_7 - 6a_8 + 3a_9 - 12a_{10} + 12a_{23} - 2a_{24} - 4a_{25} + 6a_{26} - 8a_{27} - 10a_{28} - 10a_{30}$$

$$a_{39} = \frac{a_{23} + \sqrt{a_{23}^2 - 4x}}{2}$$
$$x = 70a_0 - 9a_2 + 4a_4 + 3a_8 - 6a_9 + 3a_{10} - 12a_{11} + 12a_{24} - 2a_{25} - 4a_{26} + 6a_{27} - 8a_{28} - 10a_{29} - 10a_{15}$$

$$a_{40} = \frac{a_{24} + \sqrt{a_{24}^2 - 4x}}{2}$$
$$x = 70a_0 - 9a_1 + 4a_5 + 3a_9 - 6a_{10} + 3a_{11} - 12a_{12} + 12a_{25} - 2a_{26} - 4a_{27} + 6a_{28} - 8a_{29} - 10a_{30} - 10a_{16}$$

$$a_{41} = \frac{a_{25} - \sqrt{a_{25}^2 - 4x}}{2}$$
$$x = 70a_0 - 9a_2 + 4a_6 + 3a_{10} - 6a_{11} + 3a_{12} - 12a_{13} + 12a_{26} - 2a_{27} - 4a_{28} + 6a_{29} - 8a_{30} - 10a_{15} - 10a_{17}$$

$$a_{42} = \frac{a_{26} + \sqrt{a_{26}^2 - 4x}}{2}$$
$$x = 70a_0 - 9a_1 + 4a_3 + 3a_{11} - 6a_{12} + 3a_{13} - 12a_{14} + 12a_{27} - 2a_{28} - 4a_{29} + 6a_{30} - 8a_{15} - 10a_{16} - 10a_{18}$$

$$a_{43} = \frac{a_{27} + \sqrt{a_{27}^2 - 4x}}{2}$$
$$x = 70a_0 - 9a_2 + 4a_4 + 3a_{12} - 6a_{13} + 3a_{14} - 12a_7 + 12a_{28} - 2a_{29} - 4a_{30} + 6a_{15} - 8a_{16} - 10a_{17} - 10a_{19}$$

$$a_{44} = \frac{a_{28} - \sqrt{a_{28}^2 - 4x}}{2}$$
$$x = 70a_0 - 9a_1 + 4a_5 + 3a_{13} - 6a_{14} + 3a_7 - 12a_8 + 12a_{29} - 2a_{30} - 4a_{15} + 6a_{16} - 8a_{17} - 10a_{18} - 10a_{20}$$

$$a_{45} = \frac{a_{29} + \sqrt{a_{29}^2 - 4x}}{2}$$
$$x = 70a_0 - 9a_2 + 4a_6 + 3a_{14} - 6a_7 + 3a_8 - 12a_9 + 12a_{30} - 2a_{15} - 4a_{16} + 6a_{17} - 8a_{18} - 10a_{19} - 10a_{21}$$

$$a_{46} = \frac{a_{30} - \sqrt{a_{30}^2 - 4x}}{2}$$
$$x = 70a_0 - 9a_1 + 4a_3 + 3a_7 - 6a_8 + 3a_9 - 12a_{10} + 12a_{15} - 2a_{16} - 4a_{17} + 6a_{18} - 8a_{19} - 10a_{20} - 10a_{22}$$

$$a_{47} = \frac{a_{15} - \sqrt{a_{15}^2 - 4x}}{2}$$
$$x = 70a_0 - 9a_2 + 4a_4 + 3a_8 - 6a_9 + 3a_{10} - 12a_{11} + 12a_{16} - 2a_{17} - 4a_{18} + 6a_{19} - 8a_{20} - 10a_{21} - 10a_{23}$$

$$a_{48} = \frac{a_{16} + \sqrt{a_{16}^2 - 4x}}{2}$$
$$x = 70a_0 - 9a_1 + 4a_5 + 3a_9 - 6a_{10} + 3a_{11} - 12a_{12} + 12a_{17} - 2a_{18} - 4a_{19} + 6a_{20} - 8a_{21} - 10a_{22} - 10a_{24}$$

$$a_{49} = \frac{a_{17} - \sqrt{a_{17}^2 - 4x}}{2}$$
$$x = 70a_0 - 9a_2 + 4a_6 + 3a_{10} - 6a_{11} + 3a_{12} - 12a_{13} + 12a_{18} - 2a_{19} - 4a_{20} + 6a_{21} - 8a_{22} - 10a_{23} - 10a_{25}$$

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\begin{aligned}
a_{50} &= \frac{a_{18} - \sqrt{a_{18}^2 - 4x}}{2} \\
x &= 70a_0 - 9a_1 + 4a_3 + 3a_{11} - 6a_{12} + 3a_{13} - \\
&\quad 12a_{14} + 12a_{19} - 2a_{20} - 4a_{21} + 6a_{22} - 8a_{23} - \\
&\quad 10a_{24} - 10a_{26} \\
a_{51} &= \frac{a_{19} - \sqrt{a_{19}^2 - 4x}}{2} \\
x &= 70a_0 - 9a_2 + 4a_4 + 3a_{12} - 6a_{13} + 3a_{14} - \\
&\quad 12a_7 + 12a_{20} - 2a_{21} - 4a_{22} + 6a_{23} - 8a_{24} - \\
&\quad 10a_{25} - 10a_{27} \\
a_{52} &= \frac{a_{20} + \sqrt{a_{20}^2 - 4x}}{2} \\
x &= 70a_0 - 9a_1 + 4a_5 + 3a_{13} - 6a_{14} + 3a_7 - \\
&\quad 12a_8 + 12a_{21} - 2a_{22} - 4a_{23} + 6a_{24} - 8a_{25} - \\
&\quad 10a_{26} - 10a_{28} \\
a_{53} &= \frac{a_{21} + \sqrt{a_{21}^2 - 4x}}{2} \\
x &= 70a_0 - 9a_2 + 4a_6 + 3a_{14} - 6a_7 + 3a_8 - \\
&\quad 12a_9 + 12a_{22} - 2a_{23} - 4a_{24} + 6a_{25} - 8a_{26} - \\
&\quad 10a_{27} - 10a_{29} \\
a_{54} &= \frac{a_{22} - \sqrt{a_{22}^2 - 4x}}{2} \\
x &= 70a_0 - 9a_1 + 4a_3 + 3a_7 - 6a_8 + 3a_9 - \\
&\quad 12a_{10} + 12a_{23} - 2a_{24} - 4a_{25} + 6a_{26} - 8a_{27} - \\
&\quad 10a_{28} - 10a_{30} \\
a_{55} &= \frac{a_{23} - \sqrt{a_{23}^2 - 4x}}{2} \\
x &= 70a_0 - 9a_2 + 4a_4 + 3a_8 - 6a_9 + 3a_{10} - \\
&\quad 12a_{11} + 12a_{24} - 2a_{25} - 4a_{26} + 6a_{27} - 8a_{28} - \\
&\quad 10a_{29} - 10a_{15} \\
a_{56} &= \frac{a_{24} - \sqrt{a_{24}^2 - 4x}}{2} \\
x &= 70a_0 - 9a_1 + 4a_5 + 3a_9 - 6a_{10} + 3a_{11} - \\
&\quad 12a_{12} + 12a_{25} - 2a_{26} - 4a_{27} + 6a_{28} - 8a_{29} - \\
&\quad 10a_{30} - 10a_{16} \\
a_{57} &= \frac{a_{25} + \sqrt{a_{25}^2 - 4x}}{2} \\
x &= 70a_0 - 9a_2 + 4a_6 + 3a_{10} - 6a_{11} + 3a_{12} - \\
&\quad 12a_{13} + 12a_{26} - 2a_{27} - 4a_{28} + 6a_{29} - 8a_{30} - \\
&\quad 10a_{15} - 10a_{17} \\
a_{58} &= \frac{a_{26} - \sqrt{a_{26}^2 - 4x}}{2} \\
x &= 70a_0 - 9a_1 + 4a_3 + 3a_{11} - 6a_{12} + 3a_{13} - \\
&\quad 12a_{14} + 12a_{27} - 2a_{28} - 4a_{29} + 6a_{30} - 8a_{15} - \\
&\quad 10a_{16} - 10a_{18} \\
a_{59} &= \frac{a_{27} - \sqrt{a_{27}^2 - 4x}}{2} \\
x &= 70a_0 - 9a_2 + 4a_4 + 3a_{12} - 6a_{13} + 3a_{14} - \\
&\quad 12a_7 + 12a_{28} - 2a_{29} - 4a_{30} + 6a_{15} - 8a_{16} - \\
&\quad 10a_{17} - 10a_{19}
\end{aligned}
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\begin{aligned}
a_{60} &= \frac{a_{28} + \sqrt{a_{28}^2 - 4x}}{2} \\
x &= 70a_0 - 9a_1 + 4a_5 + 3a_{13} - 6a_{14} + 3a_7 - \\
&\quad 12a_8 + 12a_{29} - 2a_{30} - 4a_{15} + 6a_{16} - 8a_{17} - \\
&\quad 10a_{18} - 10a_{20} \\
a_{61} &= \frac{a_{29} - \sqrt{a_{29}^2 - 4x}}{2} \\
x &= 70a_0 - 9a_2 + 4a_6 + 3a_{14} - 6a_7 + 3a_8 - \\
&\quad 12a_9 + 12a_{30} - 2a_{15} - 4a_{16} + 6a_{17} - 8a_{18} - \\
&\quad 10a_{19} - 10a_{21} \\
a_{62} &= \frac{a_{30} + \sqrt{a_{30}^2 - 4x}}{2} \\
x &= a_0 + 2a_1 + 6a_4 + 16a_7 - a_8 - 6a_9 + \\
&\quad 6a_{10} - 9a_{15} - a_{16} + 18a_{17} - 5a_{18} + 3a_{19} - \\
&\quad 5a_{20} + 3a_{21} + 6a_{22} - 16a_{31} - 3a_{32} - 5a_{33} + \\
&\quad a_{34} + 4a_{35} + 6a_{36} + 2a_{38} - 10a_{39} + 6a_{40} + \\
&\quad 5a_{41} + 5a_{42} - 4a_{44} - 2a_{45} + a_{46} \\
a_{63} &= \frac{a_{31} + \sqrt{a_{31}^2 - 4x}}{2} \\
x &= a_0 + 2a_2 + 6a_5 + 16a_8 - a_9 - 6a_{10} + \\
&\quad 6a_{11} - 9a_{16} - a_{17} + 18a_{18} - 5a_{19} + 3a_{20} - \\
&\quad 5a_{21} + 3a_{22} + 6a_{23} - 16a_{32} - 3a_{33} - 5a_{34} + \\
&\quad a_{35} + 4a_{36} + 6a_{37} + 2a_{39} - 10a_{40} + 6a_{41} + \\
&\quad 5a_{42} + 5a_{43} - 4a_{45} - 2a_{46} + a_{47} \\
a_{64} &= \frac{a_{32} + \sqrt{a_{32}^2 - 4x}}{2} \\
x &= a_0 + 2a_1 + 6a_6 + 16a_9 - a_{10} - 6a_{11} + \\
&\quad 6a_{12} - 9a_{17} - a_{18} + 18a_{19} - 5a_{20} + 3a_{21} - \\
&\quad 5a_{22} + 3a_{23} + 6a_{24} - 16a_{33} - 3a_{34} - 5a_{35} + \\
&\quad a_{36} + 4a_{37} + 6a_{38} + 2a_{40} - 10a_{41} + 6a_{42} + \\
&\quad 5a_{43} + 5a_{44} - 4a_{46} - 2a_{47} + a_{48} \\
a_{65} &= \frac{a_{33} - \sqrt{a_{33}^2 - 4x}}{2} \\
x &= a_0 + 2a_2 + 6a_3 + 16a_{10} - a_{11} - 6a_{12} + \\
&\quad 6a_{13} - 9a_{18} - a_{19} + 18a_{20} - 5a_{21} + 3a_{22} - \\
&\quad 5a_{23} + 3a_{24} + 6a_{25} - 16a_{34} - 3a_{35} - 5a_{36} + \\
&\quad a_{37} + 4a_{38} + 6a_{39} + 2a_{41} - 10a_{42} + 6a_{43} + \\
&\quad 5a_{44} + 5a_{45} - 4a_{47} - 2a_{48} + a_{49} \\
a_{66} &= \frac{a_{34} + \sqrt{a_{34}^2 - 4x}}{2} \\
x &= a_0 + 2a_1 + 6a_4 + 16a_{11} - a_{12} - 6a_{13} + \\
&\quad 6a_{14} - 9a_{19} - a_{20} + 18a_{21} - 5a_{22} + 3a_{23} - \\
&\quad 5a_{24} + 3a_{25} + 6a_{26} - 16a_{35} - 3a_{36} - 5a_{37} + \\
&\quad a_{38} + 4a_{39} + 6a_{40} + 2a_{42} - 10a_{43} + 6a_{44} + \\
&\quad 5a_{45} + 5a_{46} - 4a_{48} - 2a_{49} + a_{50} \\
a_{67} &= \frac{a_{35} + \sqrt{a_{35}^2 - 4x}}{2} \\
x &= a_0 + 2a_2 + 6a_5 + 16a_{12} - a_{13} - 6a_{14} + \\
&\quad 6a_7 - 9a_{20} - a_{21} + 18a_{22} - 5a_{23} + 3a_{24} - \\
&\quad 5a_{25} + 3a_{26} + 6a_{27} - 16a_{36} - 3a_{37} - 5a_{38} + \\
&\quad a_{39} + 4a_{40} + 6a_{41} + 2a_{43} - 10a_{44} + 6a_{45} +
\end{aligned}
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\begin{aligned}
& 5a_{46} + 5a_{47} - 4a_{49} - 2a_{50} + a_{51} \\
a_{68} &= \frac{a_{36} - \sqrt{a_{36}^2 - 4x}}{2} \\
x &= a_0 + 2a_1 + 6a_6 + 16a_{13} - a_{14} - 6a_7 + \\
& 6a_8 - 9a_{21} - a_{22} + 18a_{23} - 5a_{24} + 3a_{25} - \\
& 5a_{26} + 3a_{27} + 6a_{28} - 16a_{37} - 3a_{38} - 5a_{39} + \\
& a_{40} + 4a_{41} + 6a_{42} + 2a_{44} - 10a_{45} + 6a_{46} + \\
& 5a_{47} + 5a_{48} - 4a_{50} - 2a_{51} + a_{52} \\
a_{69} &= \frac{a_{37} - \sqrt{a_{37}^2 - 4x}}{2} \\
x &= a_0 + 2a_2 + 6a_3 + 16a_{14} - a_7 - 6a_8 + \\
& 6a_9 - 9a_{22} - a_{23} + 18a_{24} - 5a_{25} + 3a_{26} - \\
& 5a_{27} + 3a_{28} + 6a_{29} - 16a_{38} - 3a_{39} - 5a_{40} + \\
& a_{41} + 4a_{42} + 6a_{43} + 2a_{45} - 10a_{46} + 6a_{47} + \\
& 5a_{48} + 5a_{49} - 4a_{51} - 2a_{52} + a_{53}
\end{aligned}
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\begin{aligned}
a_{70} &= \frac{a_{38} - \sqrt{a_{38}^2 - 4x}}{2} \\
x &= a_0 + 2a_1 + 6a_4 + 16a_7 - a_8 - 6a_9 + \\
& 6a_{10} - 9a_{23} - a_{24} + 18a_{25} - 5a_{26} + 3a_{27} - \\
& 5a_{28} + 3a_{29} + 6a_{30} - 16a_{39} - 3a_{40} - 5a_{41} + \\
& a_{42} + 4a_{43} + 6a_{44} + 2a_{46} - 10a_{47} + 6a_{48} + \\
& 5a_{49} + 5a_{50} - 4a_{52} - 2a_{53} + a_{54} \\
a_{71} &= \frac{a_{39} + \sqrt{a_{39}^2 - 4x}}{2} \\
x &= a_0 + 2a_2 + 6a_5 + 16a_8 - a_9 - 6a_{10} + \\
& 6a_{11} - 9a_{24} - a_{25} + 18a_{26} - 5a_{27} + 3a_{28} - \\
& 5a_{29} + 3a_{30} + 6a_{15} - 16a_{40} - 3a_{41} - 5a_{42} + \\
& a_{43} + 4a_{44} + 6a_{45} + 2a_{47} - 10a_{48} + 6a_{49} + \\
& 5a_{50} + 5a_{51} - 4a_{53} - 2a_{54} + a_{55} \\
a_{72} &= \frac{a_{40} + \sqrt{a_{40}^2 - 4x}}{2} \\
x &= a_0 + 2a_1 + 6a_6 + 16a_9 - a_{10} - 6a_{11} + \\
& 6a_{12} - 9a_{25} - a_{26} + 18a_{27} - 5a_{28} + 3a_{29} - \\
& 5a_{30} + 3a_{15} + 6a_{16} - 16a_{41} - 3a_{42} - 5a_{43} + \\
& a_{44} + 4a_{45} + 6a_{46} + 2a_{48} - 10a_{49} + 6a_{50} + \\
& 5a_{51} + 5a_{52} - 4a_{54} - 2a_{55} + a_{56} \\
a_{73} &= \frac{a_{41} + \sqrt{a_{41}^2 - 4x}}{2} \\
x &= a_0 + 2a_2 + 6a_3 + 16a_{10} - a_{11} - 6a_{12} + \\
& 6a_{13} - 9a_{26} - a_{27} + 18a_{28} - 5a_{29} + 3a_{30} - \\
& 5a_{15} + 3a_{16} + 6a_{17} - 16a_{42} - 3a_{43} - 5a_{44} + \\
& a_{45} + 4a_{46} + 6a_{47} + 2a_{49} - 10a_{50} + 6a_{51} + \\
& 5a_{52} + 5a_{53} - 4a_{55} - 2a_{56} + a_{57} \\
a_{74} &= \frac{a_{42} + \sqrt{a_{42}^2 - 4x}}{2} \\
x &= a_0 + 2a_1 + 6a_4 + 16a_{11} - a_{12} - 6a_{13} + \\
& 6a_{14} - 9a_{27} - a_{28} + 18a_{29} - 5a_{30} + 3a_{15} - \\
& 5a_{16} + 3a_{17} + 6a_{18} - 16a_{43} - 3a_{44} - 5a_{45} + \\
& a_{46} + 4a_{47} + 6a_{48} + 2a_{50} - 10a_{51} + 6a_{52} +
\end{aligned}
$$

$$
\begin{aligned}
& 5a_{53} + 5a_{54} - 4a_{56} - 2a_{57} + a_{58} \\
a_{75} &= \frac{a_{43} - \sqrt{a_{43}^2 - 4x}}{2} \\
x &= a_0 + 2a_2 + 6a_5 + 16a_{12} - a_{13} - 6a_{14} + \\
& 6a_7 - 9a_{28} - a_{29} + 18a_{30} - 5a_{15} + 3a_{16} - \\
& 5a_{17} + 3a_{18} + 6a_{19} - 16a_{44} - 3a_{45} - 5a_{46} + \\
& a_{47} + 4a_{48} + 6a_{49} + 2a_{51} - 10a_{52} + 6a_{53} + \\
& 5a_{54} + 5a_{55} - 4a_{57} - 2a_{58} + a_{59} \\
a_{76} &= \frac{a_{44} - \sqrt{a_{44}^2 - 4x}}{2} \\
x &= a_0 + 2a_1 + 6a_6 + 16a_{13} - a_{14} - 6a_7 + \\
& 6a_8 - 9a_{29} - a_{30} + 18a_{15} - 5a_{16} + 3a_{17} - \\
& 5a_{18} + 3a_{19} + 6a_{20} - 16a_{45} - 3a_{46} - 5a_{47} + \\
& a_{48} + 4a_{49} + 6a_{50} + 2a_{52} - 10a_{53} + 6a_{54} + \\
& 5a_{55} + 5a_{56} - 4a_{58} - 2a_{59} + a_{60} \\
a_{77} &= \frac{a_{45} + \sqrt{a_{45}^2 - 4x}}{2} \\
x &= a_0 + 2a_2 + 6a_3 + 16a_{14} - a_7 - 6a_8 + \\
& 6a_9 - 9a_{30} - a_{15} + 18a_{16} - 5a_{17} + 3a_{18} - \\
& 5a_{19} + 3a_{20} + 6a_{21} - 16a_{46} - 3a_{47} - 5a_{48} + \\
& a_{49} + 4a_{50} + 6a_{51} + 2a_{53} - 10a_{54} + 6a_{55} + \\
& 5a_{56} + 5a_{57} - 4a_{59} - 2a_{60} + a_{61} \\
a_{78} &= \frac{a_{46} - \sqrt{a_{46}^2 - 4x}}{2} \\
x &= a_0 + 2a_1 + 6a_4 + 16a_7 - a_8 - 6a_9 + \\
& 6a_{10} - 9a_{15} - a_{16} + 18a_{17} - 5a_{18} + 3a_{19} - \\
& 5a_{20} + 3a_{21} + 6a_{22} - 16a_{47} - 3a_{48} - 5a_{49} + \\
& a_{50} + 4a_{51} + 6a_{52} + 2a_{54} - 10a_{55} + 6a_{56} + \\
& 5a_{57} + 5a_{58} - 4a_{60} - 2a_{61} + a_{62} \\
a_{79} &= \frac{a_{47} - \sqrt{a_{47}^2 - 4x}}{2} \\
x &= a_0 + 2a_2 + 6a_5 + 16a_8 - a_9 - 6a_{10} + \\
& 6a_{11} - 9a_{16} - a_{17} + 18a_{18} - 5a_{19} + 3a_{20} - \\
& 5a_{21} + 3a_{22} + 6a_{23} - 16a_{48} - 3a_{49} - 5a_{50} + \\
& a_{51} + 4a_{52} + 6a_{53} + 2a_{55} - 10a_{56} + 6a_{57} + \\
& 5a_{58} + 5a_{59} - 4a_{61} - 2a_{62} + a_{31}
\end{aligned}
$$

$$
\begin{aligned}
a_{80} &= \frac{a_{48} - \sqrt{a_{48}^2 - 4x}}{2} \\
x &= a_0 + 2a_1 + 6a_6 + 16a_9 - a_{10} - 6a_{11} + \\
& 6a_{12} - 9a_{17} - a_{18} + 18a_{19} - 5a_{20} + 3a_{21} - \\
& 5a_{22} + 3a_{23} + 6a_{24} - 16a_{49} - 3a_{50} - 5a_{51} + \\
& a_{52} + 4a_{53} + 6a_{54} + 2a_{56} - 10a_{57} + 6a_{58} + \\
& 5a_{59} + 5a_{60} - 4a_{62} - 2a_{31} + a_{32} \\
a_{81} &= \frac{a_{49} - \sqrt{a_{49}^2 - 4x}}{2} \\
x &= a_0 + 2a_2 + 6a_3 + 16a_{10} - a_{11} - 6a_{12} + \\
& 6a_{13} - 9a_{18} - a_{19} + 18a_{20} - 5a_{21} + 3a_{22} - \\
& 5a_{23} + 3a_{24} + 6a_{25} - 16a_{50} - 3a_{51} - 5a_{52} + \\
& a_{53} + 4a_{54} + 6a_{55} + 2a_{57} - 10a_{58} + 6a_{59} +
\end{aligned}
$$

$$
\begin{aligned}
& 5a_{60} + 5a_{61} - 4a_{31} - 2a_{32} + a_{33} \\
a_{82} &= \frac{a_{50} - \sqrt{a_{50}^2 - 4x}}{2} \\
x &= a_0 + 2a_1 + 6a_4 + 16a_{11} - a_{12} - 6a_{13} + \\
& 6a_{14} - 9a_{19} - a_{20} + 18a_{21} - 5a_{22} + 3a_{23} - \\
& 5a_{24} + 3a_{25} + 6a_{26} - 16a_{51} - 3a_{52} - 5a_{53} + \\
& a_{54} + 4a_{55} + 6a_{56} + 2a_{58} - 10a_{59} + 6a_{60} + \\
& 5a_{61} + 5a_{62} - 4a_{32} - 2a_{33} + a_{34} \\
a_{83} &= \frac{a_{51} + \sqrt{a_{51}^2 - 4x}}{2} \\
x &= a_0 + 2a_2 + 6a_5 + 16a_{12} - a_{13} - 6a_{14} + \\
& 6a_7 - 9a_{20} - a_{21} + 18a_{22} - 5a_{23} + 3a_{24} - \\
& 5a_{25} + 3a_{26} + 6a_{27} - 16a_{52} - 3a_{53} - 5a_{54} + \\
& a_{55} + 4a_{56} + 6a_{57} + 2a_{59} - 10a_{60} + 6a_{61} + \\
& 5a_{62} + 5a_{31} - 4a_{33} - 2a_{34} + a_{35} \\
a_{84} &= \frac{a_{52} - \sqrt{a_{52}^2 - 4x}}{2} \\
x &= a_0 + 2a_1 + 6a_6 + 16a_{13} - a_{14} - 6a_7 + \\
& 6a_8 - 9a_{21} - a_{22} + 18a_{23} - 5a_{24} + 3a_{25} - \\
& 5a_{26} + 3a_{27} + 6a_{28} - 16a_{53} - 3a_{54} - 5a_{55} + \\
& a_{56} + 4a_{57} + 6a_{58} + 2a_{60} - 10a_{61} + 6a_{62} + \\
& 5a_{31} + 5a_{32} - 4a_{34} - 2a_{35} + a_{36} \\
a_{85} &= \frac{a_{53} - \sqrt{a_{53}^2 - 4x}}{2} \\
x &= a_0 + 2a_2 + 6a_3 + 16a_{14} - a_7 - 6a_8 + \\
& 6a_9 - 9a_{22} - a_{23} + 18a_{24} - 5a_{25} + 3a_{26} - \\
& 5a_{27} + 3a_{28} + 6a_{29} - 16a_{54} - 3a_{55} - 5a_{56} + \\
& a_{57} + 4a_{58} + 6a_{59} + 2a_{61} - 10a_{62} + 6a_{31} + \\
& 5a_{32} + 5a_{33} - 4a_{35} - 2a_{36} + a_{37} \\
a_{86} &= \frac{a_{54} + \sqrt{a_{54}^2 - 4x}}{2} \\
x &= a_0 + 2a_1 + 6a_4 + 16a_7 - a_8 - 6a_9 + \\
& 6a_{10} - 9a_{23} - a_{24} + 18a_{25} - 5a_{26} + 3a_{27} - \\
& 5a_{28} + 3a_{29} + 6a_{30} - 16a_{55} - 3a_{56} - 5a_{57} + \\
& a_{58} + 4a_{59} + 6a_{60} + 2a_{62} - 10a_{31} + 6a_{32} + \\
& 5a_{33} + 5a_{34} - 4a_{36} - 2a_{37} + a_{38} \\
a_{87} &= \frac{a_{55} - \sqrt{a_{55}^2 - 4x}}{2} \\
x &= a_0 + 2a_2 + 6a_5 + 16a_8 - a_9 - 6a_{10} + \\
& 6a_{11} - 9a_{24} - a_{25} + 18a_{26} - 5a_{27} + 3a_{28} - \\
& 5a_{29} + 3a_{30} + 6a_{15} - 16a_{56} - 3a_{57} - 5a_{58} + \\
& a_{59} + 4a_{60} + 6a_{61} + 2a_{31} - 10a_{32} + 6a_{33} + \\
& 5a_{34} + 5a_{35} - 4a_{37} - 2a_{38} + a_{39} \\
a_{88} &= \frac{a_{56} - \sqrt{a_{56}^2 - 4x}}{2} \\
x &= a_0 + 2a_1 + 6a_6 + 16a_9 - a_{10} - 6a_{11} + \\
& 6a_{12} - 9a_{25} - a_{26} + 18a_{27} - 5a_{28} + 3a_{29} - \\
& 5a_{30} + 3a_{15} + 6a_{16} - 16a_{57} - 3a_{58} - 5a_{59} + \\
& a_{60} + 4a_{61} + 6a_{62} + 2a_{32} - 10a_{33} + 6a_{34} + \\
& 5a_{35} + 5a_{36} - 4a_{38} - 2a_{39} + a_{40}
\end{aligned}
$$

$$
\begin{aligned}
a_{89} &= \frac{a_{57} - \sqrt{a_{57}^2 - 4x}}{2} \\
x &= a_0 + 2a_2 + 6a_3 + 16a_{10} - a_{11} - 6a_{12} + \\
& 6a_{13} - 9a_{26} - a_{27} + 18a_{28} - 5a_{29} + 3a_{30} - \\
& 5a_{15} + 3a_{16} + 6a_{17} - 16a_{58} - 3a_{59} - 5a_{60} + \\
& a_{61} + 4a_{62} + 6a_{31} + 2a_{33} - 10a_{34} + 6a_{35} + \\
& 5a_{36} + 5a_{37} - 4a_{39} - 2a_{40} + a_{41} \\
a_{90} &= \frac{a_{58} + \sqrt{a_{58}^2 - 4x}}{2} \\
x &= a_0 + 2a_1 + 6a_4 + 16a_{11} - a_{12} - 6a_{13} + \\
& 6a_{14} - 9a_{27} - a_{28} + 18a_{29} - 5a_{30} + 3a_{15} - \\
& 5a_{16} + 3a_{17} + 6a_{18} - 16a_{59} - 3a_{60} - 5a_{61} + \\
& a_{62} + 4a_{31} + 6a_{32} + 2a_{34} - 10a_{35} + 6a_{36} + \\
& 5a_{37} + 5a_{38} - 4a_{40} - 2a_{41} + a_{42} \\
a_{91} &= \frac{a_{59} + \sqrt{a_{59}^2 - 4x}}{2} \\
x &= a_0 + 2a_2 + 6a_5 + 16a_{12} - a_{13} - 6a_{14} + \\
& 6a_7 - 9a_{28} - a_{29} + 18a_{30} - 5a_{15} + 3a_{16} - \\
& 5a_{17} + 3a_{18} + 6a_{19} - 16a_{60} - 3a_{61} - 5a_{62} + \\
& a_{31} + 4a_{32} + 6a_{33} + 2a_{35} - 10a_{36} + 6a_{37} + \\
& 5a_{38} + 5a_{39} - 4a_{41} - 2a_{42} + a_{43} \\
a_{92} &= \frac{a_{60} - \sqrt{a_{60}^2 - 4x}}{2} \\
x &= a_0 + 2a_1 + 6a_6 + 16a_{13} - a_{14} - 6a_7 + \\
& 6a_8 - 9a_{29} - a_{30} + 18a_{15} - 5a_{16} + 3a_{17} - \\
& 5a_{18} + 3a_{19} + 6a_{20} - 16a_{61} - 3a_{62} - 5a_{31} + \\
& a_{32} + 4a_{33} + 6a_{34} + 2a_{36} - 10a_{37} + 6a_{38} + \\
& 5a_{39} + 5a_{40} - 4a_{42} - 2a_{43} + a_{44} \\
a_{93} &= \frac{a_{61} + \sqrt{a_{61}^2 - 4x}}{2} \\
x &= a_0 + 2a_2 + 6a_3 + 16a_{14} - a_7 - 6a_8 + \\
& 6a_9 - 9a_{30} - a_{15} + 18a_{16} - 5a_{17} + 3a_{18} - \\
& 5a_{19} + 3a_{20} + 6a_{21} - 16a_{62} - 3a_{31} - 5a_{32} + \\
& a_{33} + 4a_{34} + 6a_{35} + 2a_{37} - 10a_{38} + 6a_{39} + \\
& 5a_{40} + 5a_{41} - 4a_{43} - 2a_{44} + a_{45} \\
a_{94} &= \frac{a_{62} + \sqrt{a_{62}^2 - 4x}}{2} \\
x &= a_0 + 2a_1 + 6a_4 + 16a_7 - a_8 - 6a_9 + \\
& 6a_{10} - 9a_{15} - a_{16} + 18a_{17} - 5a_{18} + 3a_{19} - \\
& 5a_{20} + 3a_{21} + 6a_{22} - 16a_{31} - 3a_{32} - 5a_{33} + \\
& a_{34} + 4a_{35} + 6a_{36} + 2a_{38} - 10a_{39} + 6a_{40} + \\
& 5a_{41} + 5a_{42} - 4a_{44} - 2a_{45} + a_{46} \\
a_{95} &= \frac{a_{31} - \sqrt{a_{31}^2 - 4x}}{2} \\
x &= a_0 + 2a_2 + 6a_5 + 16a_8 - a_9 - 6a_{10} + \\
& 6a_{11} - 9a_{16} - a_{17} + 18a_{18} - 5a_{19} + 3a_{20} - \\
& 5a_{21} + 3a_{22} + 6a_{23} - 16a_{32} - 3a_{33} - 5a_{34} + \\
& a_{35} + 4a_{36} + 6a_{37} + 2a_{39} - 10a_{40} + 6a_{41} + \\
& 5a_{42} + 5a_{43} - 4a_{45} - 2a_{46} + a_{47}
\end{aligned}
$$

$$
\begin{aligned}
a_{96} &= \frac{a_{32}-\sqrt{a_{32}^2-4x}}{2}\\
x &= a_0+2a_1+6a_6+16a_9-a_{10}-6a_{11}+\\
&\quad 6a_{12}-9a_{17}-a_{18}+18a_{19}-5a_{20}+3a_{21}-\\
&\quad 5a_{22}+3a_{23}+6a_{24}-16a_{33}-3a_{34}-5a_{35}+\\
&\quad a_{36}+4a_{37}+6a_{38}+2a_{40}-10a_{41}+6a_{42}+\\
&\quad 5a_{43}+5a_{44}-4a_{46}-2a_{47}+a_{48}\\
a_{97} &= \frac{a_{33}+\sqrt{a_{33}^2-4x}}{2}\\
x &= a_0+2a_2+6a_3+16a_{10}-a_{11}-6a_{12}+\\
&\quad 6a_{13}-9a_{18}-a_{19}+18a_{20}-5a_{21}+3a_{22}-\\
&\quad 5a_{23}+3a_{24}+6a_{25}-16a_{34}-3a_{35}-5a_{36}+\\
&\quad a_{37}+4a_{38}+6a_{39}+2a_{41}-10a_{42}+6a_{43}+\\
&\quad 5a_{44}+5a_{45}-4a_{47}-2a_{48}+a_{49}\\
a_{98} &= \frac{a_{34}-\sqrt{a_{34}^2-4x}}{2}\\
x &= a_0+2a_1+6a_4+16a_{11}-a_{12}-6a_{13}+\\
&\quad 6a_{14}-9a_{19}-a_{20}+18a_{21}-5a_{22}+3a_{23}-\\
&\quad 5a_{24}+3a_{25}+6a_{26}-16a_{35}-3a_{36}-5a_{37}+\\
&\quad a_{38}+4a_{39}+6a_{40}+2a_{42}-10a_{43}+6a_{44}+\\
&\quad 5a_{45}+5a_{46}-4a_{48}-2a_{49}+a_{50}\\
a_{99} &= \frac{a_{35}-\sqrt{a_{35}^2-4x}}{2}\\
x &= a_0+2a_2+6a_5+16a_{12}-a_{13}-6a_{14}+\\
&\quad 6a_7-9a_{20}-a_{21}+18a_{22}-5a_{23}+3a_{24}-\\
&\quad 5a_{25}+3a_{26}+6a_{27}-16a_{36}-3a_{37}-5a_{38}+\\
&\quad a_{39}+4a_{40}+6a_{41}+2a_{43}-10a_{44}+6a_{45}+\\
&\quad 5a_{46}+5a_{47}-4a_{49}-2a_{50}+a_{51}
\end{aligned}
$$

$$
\begin{aligned}
a_{100} &= \frac{a_{36}+\sqrt{a_{36}^2-4x}}{2}\\
x &= a_0+2a_1+6a_6+16a_{13}-a_{14}-6a_7+\\
&\quad 6a_8-9a_{21}-a_{22}+18a_{23}-5a_{24}+3a_{25}-\\
&\quad 5a_{26}+3a_{27}+6a_{28}-16a_{37}-3a_{38}-5a_{39}+\\
&\quad a_{40}+4a_{41}+6a_{42}+2a_{44}-10a_{45}+6a_{46}+\\
&\quad 5a_{47}+5a_{48}-4a_{50}-2a_{51}+a_{52}\\
a_{101} &= \frac{a_{37}+\sqrt{a_{37}^2-4x}}{2}\\
x &= a_0+2a_2+6a_3+16a_{14}-a_7-6a_8+\\
&\quad 6a_9-9a_{22}-a_{23}+18a_{24}-5a_{25}+3a_{26}-\\
&\quad 5a_{27}+3a_{28}+6a_{29}-16a_{38}-3a_{39}-5a_{40}+\\
&\quad a_{41}+4a_{42}+6a_{43}+2a_{45}-10a_{46}+6a_{47}+\\
&\quad 5a_{48}+5a_{49}-4a_{51}-2a_{52}+a_{53}\\
a_{102} &= \frac{a_{38}+\sqrt{a_{38}^2-4x}}{2}\\
x &= a_0+2a_1+6a_4+16a_7-a_8-6a_9+\\
&\quad 6a_{10}-9a_{23}-a_{24}+18a_{25}-5a_{26}+3a_{27}-\\
&\quad 5a_{28}+3a_{29}+6a_{30}-16a_{39}-3a_{40}-5a_{41}+\\
&\quad a_{42}+4a_{43}+6a_{44}+2a_{46}-10a_{47}+6a_{48}+\\
&\quad 5a_{49}+5a_{50}-4a_{52}-2a_{53}+a_{54}
\end{aligned}
$$

$$
\begin{aligned}
a_{103} &= \frac{a_{39}-\sqrt{a_{39}^2-4x}}{2}\\
x &= a_0+2a_2+6a_5+16a_8-a_9-6a_{10}+\\
&\quad 6a_{11}-9a_{24}-a_{25}+18a_{26}-5a_{27}+3a_{28}-\\
&\quad 5a_{29}+3a_{30}+6a_{15}-16a_{40}-3a_{41}-5a_{42}+\\
&\quad a_{43}+4a_{44}+6a_{45}+2a_{47}-10a_{48}+6a_{49}+\\
&\quad 5a_{50}+5a_{51}-4a_{53}-2a_{54}+a_{55}\\
a_{104} &= \frac{a_{40}-\sqrt{a_{40}^2-4x}}{2}\\
x &= a_0+2a_1+6a_6+16a_9-a_{10}-6a_{11}+\\
&\quad 6a_{12}-9a_{25}-a_{26}+18a_{27}-5a_{28}+3a_{29}-\\
&\quad 5a_{30}+3a_{15}+6a_{16}-16a_{41}-3a_{42}-5a_{43}+\\
&\quad a_{44}+4a_{45}+6a_{46}+2a_{48}-10a_{49}+6a_{50}+\\
&\quad 5a_{51}+5a_{52}-4a_{54}-2a_{55}+a_{56}\\
a_{105} &= \frac{a_{41}-\sqrt{a_{41}^2-4x}}{2}\\
x &= a_0+2a_2+6a_3+16a_{10}-a_{11}-6a_{12}+\\
&\quad 6a_{13}-9a_{26}-a_{27}+18a_{28}-5a_{29}+3a_{30}-\\
&\quad 5a_{15}+3a_{16}+6a_{17}-16a_{42}-3a_{43}-5a_{44}+\\
&\quad a_{45}+4a_{46}+6a_{47}+2a_{49}-10a_{50}+6a_{51}+\\
&\quad 5a_{52}+5a_{53}-4a_{55}-2a_{56}+a_{57}\\
a_{106} &= \frac{a_{42}-\sqrt{a_{42}^2-4x}}{2}\\
x &= a_0+2a_1+6a_4+16a_{11}-a_{12}-6a_{13}+\\
&\quad 6a_{14}-9a_{27}-a_{28}+18a_{29}-5a_{30}+3a_{15}-\\
&\quad 5a_{16}+3a_{17}+6a_{18}-16a_{43}-3a_{44}-5a_{45}+\\
&\quad a_{46}+4a_{47}+6a_{48}+2a_{50}-10a_{51}+6a_{52}+\\
&\quad 5a_{53}+5a_{54}-4a_{56}-2a_{57}+a_{58}\\
a_{107} &= \frac{a_{43}+\sqrt{a_{43}^2-4x}}{2}\\
x &= a_0+2a_2+6a_5+16a_{12}-a_{13}-6a_{14}+\\
&\quad 6a_7-9a_{28}-a_{29}+18a_{30}-5a_{15}+3a_{16}-\\
&\quad 5a_{17}+3a_{18}+6a_{19}-16a_{44}-3a_{45}-5a_{46}+\\
&\quad a_{47}+4a_{48}+6a_{49}+2a_{51}-10a_{52}+6a_{53}+\\
&\quad 5a_{54}+5a_{55}-4a_{57}-2a_{58}+a_{59}\\
a_{108} &= \frac{a_{44}+\sqrt{a_{44}^2-4x}}{2}\\
x &= a_0+2a_1+6a_6+16a_{13}-a_{14}-6a_7+\\
&\quad 6a_8-9a_{29}-a_{30}+18a_{15}-5a_{16}+3a_{17}-\\
&\quad 5a_{18}+3a_{19}+6a_{20}-16a_{45}-3a_{46}-5a_{47}+\\
&\quad a_{48}+4a_{49}+6a_{50}+2a_{52}-10a_{53}+6a_{54}+\\
&\quad 5a_{55}+5a_{56}-4a_{58}-2a_{59}+a_{60}\\
a_{109} &= \frac{a_{45}-\sqrt{a_{45}^2-4x}}{2}\\
x &= a_0+2a_2+6a_3+16a_{14}-a_7-6a_8+\\
&\quad 6a_9-9a_{30}-a_{15}+18a_{16}-5a_{17}+3a_{18}-\\
&\quad 5a_{19}+3a_{20}+6a_{21}-16a_{46}-3a_{47}-5a_{48}+\\
&\quad a_{49}+4a_{50}+6a_{51}+2a_{53}-10a_{54}+6a_{55}+\\
&\quad 5a_{56}+5a_{57}-4a_{59}-2a_{60}+a_{61}
\end{aligned}
$$

$$
\begin{aligned}
a_{110} &= \frac{a_{46}+\sqrt{a_{46}^2-4x}}{2}\\
x &= a_0+2a_1+6a_4+16a_7-a_8-6a_9+\\
&\quad 6a_{10}-9a_{15}-a_{16}+18a_{17}-5a_{18}+3a_{19}-\\
&\quad 5a_{20}+3a_{21}+6a_{22}-16a_{47}-3a_{48}-5a_{49}+\\
&\quad a_{50}+4a_{51}+6a_{52}+2a_{54}-10a_{55}+6a_{56}+\\
&\quad 5a_{57}+5a_{58}-4a_{60}-2a_{61}+a_{62}\\
a_{111} &= \frac{a_{47}+\sqrt{a_{47}^2-4x}}{2}\\
x &= a_0+2a_2+6a_5+16a_8-a_9-6a_{10}+\\
&\quad 6a_{11}-9a_{16}-a_{17}+18a_{18}-5a_{19}+3a_{20}-\\
&\quad 5a_{21}+3a_{22}+6a_{23}-16a_{48}-3a_{49}-5a_{50}+\\
&\quad a_{51}+4a_{52}+6a_{53}+2a_{55}-10a_{56}+6a_{57}+\\
&\quad 5a_{58}+5a_{59}-4a_{61}-2a_{62}+a_{31}\\
a_{112} &= \frac{a_{48}+\sqrt{a_{48}^2-4x}}{2}\\
x &= a_0+2a_1+6a_6+16a_9-a_{10}-6a_{11}+\\
&\quad 6a_{12}-9a_{17}-a_{18}+18a_{19}-5a_{20}+3a_{21}-\\
&\quad 5a_{22}+3a_{23}+6a_{24}-16a_{49}-3a_{50}-5a_{51}+\\
&\quad a_{52}+4a_{53}+6a_{54}+2a_{56}-10a_{57}+6a_{58}+\\
&\quad 5a_{59}+5a_{60}-4a_{62}-2a_{31}+a_{32}\\
a_{113} &= \frac{a_{49}+\sqrt{a_{49}^2-4x}}{2}\\
x &= a_0+2a_2+6a_3+16a_{10}-a_{11}-6a_{12}+\\
&\quad 6a_{13}-9a_{18}-a_{19}+18a_{20}-5a_{21}+3a_{22}-\\
&\quad 5a_{23}+3a_{24}+6a_{25}-16a_{50}-3a_{51}-5a_{52}+\\
&\quad a_{53}+4a_{54}+6a_{55}+2a_{57}-10a_{58}+6a_{59}+\\
&\quad 5a_{60}+5a_{61}-4a_{31}-2a_{32}+a_{33}\\
a_{114} &= \frac{a_{50}+\sqrt{a_{50}^2-4x}}{2}\\
x &= a_0+2a_1+6a_4+16a_{11}-a_{12}-6a_{13}+\\
&\quad 6a_{14}-9a_{19}-a_{20}+18a_{21}-5a_{22}+3a_{23}-\\
&\quad 5a_{24}+3a_{25}+6a_{26}-16a_{51}-3a_{52}-5a_{53}+\\
&\quad a_{54}+4a_{55}+6a_{56}+2a_{58}-10a_{59}+6a_{60}+\\
&\quad 5a_{61}+5a_{62}-4a_{32}-2a_{33}+a_{34}\\
a_{115} &= \frac{a_{51}-\sqrt{a_{51}^2-4x}}{2}\\
x &= a_0+2a_2+6a_5+16a_{12}-a_{13}-6a_{14}+\\
&\quad 6a_7-9a_{20}-a_{21}+18a_{22}-5a_{23}+3a_{24}-\\
&\quad 5a_{25}+3a_{26}+6a_{27}-16a_{52}-3a_{53}-5a_{54}+\\
&\quad a_{55}+4a_{56}+6a_{57}+2a_{59}-10a_{60}+6a_{61}+\\
&\quad 5a_{62}+5a_{31}-4a_{33}-2a_{34}+a_{35}\\
a_{116} &= \frac{a_{52}+\sqrt{a_{52}^2-4x}}{2}\\
x &= a_0+2a_1+6a_6+16a_{13}-a_{14}-6a_7+\\
&\quad 6a_8-9a_{21}-a_{22}+18a_{23}-5a_{24}+3a_{25}-\\
&\quad 5a_{26}+3a_{27}+6a_{28}-16a_{53}-3a_{54}-5a_{55}+\\
&\quad a_{56}+4a_{57}+6a_{58}+2a_{60}-10a_{61}+6a_{62}+\\
&\quad 5a_{31}+5a_{32}-4a_{34}-2a_{35}+a_{36}\\
a_{117} &= \frac{a_{53}+\sqrt{a_{53}^2-4x}}{2}\\
x &= a_0+2a_2+6a_3+16a_{14}-a_7-6a_8+\\
&\quad 6a_9-9a_{22}-a_{23}+18a_{24}-5a_{25}+3a_{26}-\\
&\quad 5a_{27}+3a_{28}+6a_{29}-16a_{54}-3a_{55}-5a_{56}+\\
&\quad a_{57}+4a_{58}+6a_{59}+2a_{61}-10a_{62}+6a_{31}+\\
&\quad 5a_{32}+5a_{33}-4a_{35}-2a_{36}+a_{37}\\
a_{118} &= \frac{a_{54}-\sqrt{a_{54}^2-4x}}{2}\\
x &= a_0+2a_1+6a_4+16a_7-a_8-6a_9+\\
&\quad 6a_{10}-9a_{23}-a_{24}+18a_{25}-5a_{26}+3a_{27}-\\
&\quad 5a_{28}+3a_{29}+6a_{30}-16a_{55}-3a_{56}-5a_{57}+\\
&\quad a_{58}+4a_{59}+6a_{60}+2a_{62}-10a_{31}+6a_{32}+\\
&\quad 5a_{33}+5a_{34}-4a_{36}-2a_{37}+a_{38}\\
a_{119} &= \frac{a_{55}+\sqrt{a_{55}^2-4x}}{2}\\
x &= a_0+2a_2+6a_5+16a_8-a_9-6a_{10}+\\
&\quad 6a_{11}-9a_{24}-a_{25}+18a_{26}-5a_{27}+3a_{28}-\\
&\quad 5a_{29}+3a_{30}+6a_{15}-16a_{56}-3a_{57}-5a_{58}+\\
&\quad a_{59}+4a_{60}+6a_{61}+2a_{31}-10a_{32}+6a_{33}+\\
&\quad 5a_{34}+5a_{35}-4a_{37}-2a_{38}+a_{39}\\
a_{120} &= \frac{a_{56}+\sqrt{a_{56}^2-4x}}{2}\\
x &= a_0+2a_1+6a_6+16a_9-a_{10}-6a_{11}+\\
&\quad 6a_{12}-9a_{25}-a_{26}+18a_{27}-5a_{28}+3a_{29}-\\
&\quad 5a_{30}+3a_{15}+6a_{16}-16a_{57}-3a_{58}-5a_{59}+\\
&\quad a_{60}+4a_{61}+6a_{62}+2a_{32}-10a_{33}+6a_{34}+\\
&\quad 5a_{35}+5a_{36}-4a_{38}-2a_{39}+a_{40}\\
a_{121} &= \frac{a_{57}+\sqrt{a_{57}^2-4x}}{2}\\
x &= a_0+2a_2+6a_3+16a_{10}-a_{11}-6a_{12}+\\
&\quad 6a_{13}-9a_{26}-a_{27}+18a_{28}-5a_{29}+3a_{30}-\\
&\quad 5a_{15}+3a_{16}+6a_{17}-16a_{58}-3a_{59}-5a_{60}+\\
&\quad a_{61}+4a_{62}+6a_{31}+2a_{33}-10a_{34}+6a_{35}+\\
&\quad 5a_{36}+5a_{37}-4a_{39}-2a_{40}+a_{41}\\
a_{122} &= \frac{a_{58}-\sqrt{a_{58}^2-4x}}{2}\\
x &= a_0+2a_1+6a_4+16a_{11}-a_{12}-6a_{13}+\\
&\quad 6a_{14}-9a_{27}-a_{28}+18a_{29}-5a_{30}+3a_{15}-\\
&\quad 5a_{16}+3a_{17}+6a_{18}-16a_{59}-3a_{60}-5a_{61}+\\
&\quad a_{62}+4a_{31}+6a_{32}+2a_{34}-10a_{35}+6a_{36}+\\
&\quad 5a_{37}+5a_{38}-4a_{40}-2a_{41}+a_{42}\\
a_{123} &= \frac{a_{59}-\sqrt{a_{59}^2-4x}}{2}\\
x &= a_0+2a_2+6a_5+16a_{12}-a_{13}-6a_{14}+\\
&\quad 6a_7-9a_{28}-a_{29}+18a_{30}-5a_{15}+3a_{16}-\\
&\quad 5a_{17}+3a_{18}+6a_{19}-16a_{60}-3a_{61}-5a_{62}+\\
&\quad a_{31}+4a_{32}+6a_{33}+2a_{35}-10a_{36}+6a_{37}+\\
&\quad 5a_{38}+5a_{39}-4a_{41}-2a_{42}+a_{43}\\
a_{124} &= \frac{a_{60}+\sqrt{a_{60}^2-4x}}{2}
\end{aligned}
$$

$$
\begin{aligned}
x &= a_0 + 2a_1 + 6a_6 + 16a_{13} - a_{14} - 6a_7 + \\
&\quad 6a_8 - 9a_{29} - a_{30} + 18a_{15} - 5a_{16} + 3a_{17} - \\
&\quad 5a_{18} + 3a_{19} + 6a_{20} - 16a_{61} - 3a_{62} - 5a_{31} + \\
&\quad a_{32} + 4a_{33} + 6a_{34} + 2a_{36} - 10a_{37} + 6a_{38} + \\
&\quad 5a_{39} + 5a_{40} - 4a_{42} - 2a_{43} + a_{44} \\
a_{125} &= \frac{a_{61} - \sqrt{a_{61}^2 - 4x}}{2} \\
x &= a_0 + 2a_2 + 6a_3 + 16a_{14} - a_7 - 6a_8 + \\
&\quad 6a_9 - 9a_{30} - a_{15} + 18a_{16} - 5a_{17} + 3a_{18} - \\
&\quad 5a_{19} + 3a_{20} + 6a_{21} - 16a_{62} - 3a_{31} - 5a_{32} + \\
&\quad a_{33} + 4a_{34} + 6a_{35} + 2a_{37} - 10a_{38} + 6a_{39} + \\
&\quad 5a_{40} + 5a_{41} - 4a_{43} - 2a_{44} + a_{45} \\
a_{126} &= \frac{a_{62} - \sqrt{a_{62}^2 - 4x}}{2} \\
x &= 3a_0 + 5a_1 - 5a_3 + 2a_4 - a_7 - a_8 - \\
&\quad 5a_9 + a_{10} + 5a_{15} + 3a_{16} + a_{17} + 2a_{19} + \\
&\quad a_{20} - a_{22} - 6a_{31} - a_{32} - a_{33} - 2a_{34} - \\
&\quad 4a_{35} - 5a_{36} - a_{37} + a_{38} + a_{39} - a_{40} + \\
&\quad a_{41} + 2a_{42} - 3a_{44} - 5a_{45} + a_{46} - a_{63} - \\
&\quad 3a_{64} - a_{65} + 3a_{66} + 4a_{67} + 4a_{68} - 5a_{69} + \\
&\quad 2a_{70} - a_{71} + 3a_{72} + a_{73} - 2a_{75} + 4a_{76} + \\
&\quad a_{78} - a_{79} + a_{80} - a_{81} + a_{82} - 3a_{83} - \\
&\quad a_{84} - 3a_{85} - a_{86} + a_{87} + 6a_{88} - a_{90} + \\
&\quad a_{91} - 7a_{93} + a_{94} \\
a_{127} &= \frac{a_{63} + \sqrt{a_{63}^2 - 4x}}{2} \\
x &= 3a_0 + 5a_2 - 5a_4 + 2a_5 - a_8 - a_9 - \\
&\quad 5a_{10} + a_{11} + 5a_{16} + 3a_{17} + a_{18} + 2a_{20} + \\
&\quad a_{21} - a_{23} - 6a_{32} - a_{33} - a_{34} - 2a_{35} - \\
&\quad 4a_{36} - 5a_{37} - a_{38} + a_{39} + a_{40} - a_{41} + \\
&\quad a_{42} + 2a_{43} - 3a_{45} - 5a_{46} + a_{47} - a_{64} - \\
&\quad 3a_{65} - a_{66} + 3a_{67} + 4a_{68} + 4a_{69} - 5a_{70} + \\
&\quad 2a_{71} - a_{72} + 3a_{73} + a_{74} - 2a_{76} + 4a_{77} + \\
&\quad a_{79} - a_{80} + a_{81} - a_{82} + a_{83} - 3a_{84} - \\
&\quad a_{85} - 3a_{86} - a_{87} + a_{88} + 6a_{89} - a_{91} + \\
&\quad a_{92} - 7a_{94} + a_{95} \\
a_{128} &= \frac{a_{64} + \sqrt{a_{64}^2 - 4x}}{2} \\
x &= 3a_0 + 5a_1 - 5a_5 + 2a_6 - a_9 - a_{10} - \\
&\quad 5a_{11} + a_{12} + 5a_{17} + 3a_{18} + a_{19} + 2a_{21} + \\
&\quad a_{22} - a_{24} - 6a_{33} - a_{34} - a_{35} - 2a_{36} - \\
&\quad 4a_{37} - 5a_{38} - a_{39} + a_{40} + a_{41} - a_{42} + \\
&\quad a_{43} + 2a_{44} - 3a_{46} - 5a_{47} + a_{48} - a_{65} - \\
&\quad 3a_{66} - a_{67} + 3a_{68} + 4a_{69} + 4a_{70} - 5a_{71} + \\
&\quad 2a_{72} - a_{73} + 3a_{74} + a_{75} - 2a_{77} + 4a_{78} + \\
&\quad a_{80} - a_{81} + a_{82} - a_{83} + a_{84} - 3a_{85} - \\
&\quad a_{86} - 3a_{87} - a_{88} + a_{89} + 6a_{90} - a_{92} + \\
&\quad a_{93} - 7a_{95} + a_{96} \\
a_{129} &= \frac{a_{65} + \sqrt{a_{65}^2 - 4x}}{2}
\end{aligned}
$$

$$
\begin{aligned}
x &= 3a_0 + 5a_2 - 5a_6 + 2a_3 - a_{10} - a_{11} - \\
&\quad 5a_{12} + a_{13} + 5a_{18} + 3a_{19} + a_{20} + 2a_{22} + \\
&\quad a_{23} - a_{25} - 6a_{34} - a_{35} - a_{36} - 2a_{37} - \\
&\quad 4a_{38} - 5a_{39} - a_{40} + a_{41} + a_{42} - a_{43} + \\
&\quad a_{44} + 2a_{45} - 3a_{47} - 5a_{48} + a_{49} - a_{66} - \\
&\quad 3a_{67} - a_{68} + 3a_{69} + 4a_{70} + 4a_{71} - 5a_{72} + \\
&\quad 2a_{73} - a_{74} + 3a_{75} + a_{76} - 2a_{78} + 4a_{79} + \\
&\quad a_{81} - a_{82} + a_{83} - a_{84} + a_{85} - 3a_{86} - \\
&\quad a_{87} - 3a_{88} - a_{89} + a_{90} + 6a_{91} - a_{93} + \\
&\quad a_{94} - 7a_{96} + a_{97} \\
a_{130} &= \frac{a_{66} + \sqrt{a_{66}^2 - 4x}}{2} \\
x &= 3a_0 + 5a_1 - 5a_3 + 2a_4 - a_{11} - a_{12} - \\
&\quad 5a_{13} + a_{14} + 5a_{19} + 3a_{20} + a_{21} + 2a_{23} + \\
&\quad a_{24} - a_{26} - 6a_{35} - a_{36} - a_{37} - 2a_{38} - \\
&\quad 4a_{39} - 5a_{40} - a_{41} + a_{42} + a_{43} - a_{44} + \\
&\quad a_{45} + 2a_{46} - 3a_{48} - 5a_{49} + a_{50} - a_{67} - \\
&\quad 3a_{68} - a_{69} + 3a_{70} + 4a_{71} + 4a_{72} - 5a_{73} + \\
&\quad 2a_{74} - a_{75} + 3a_{76} + a_{77} - 2a_{79} + 4a_{80} + \\
&\quad a_{82} - a_{83} + a_{84} - a_{85} + a_{86} - 3a_{87} - \\
&\quad a_{88} - 3a_{89} - a_{90} + a_{91} + 6a_{92} - a_{94} + \\
&\quad a_{95} - 7a_{97} + a_{98} \\
a_{131} &= \frac{a_{67} - \sqrt{a_{67}^2 - 4x}}{2} \\
x &= 3a_0 + 5a_2 - 5a_4 + 2a_5 - a_{12} - a_{13} - \\
&\quad 5a_{14} + a_7 + 5a_{20} + 3a_{21} + a_{22} + 2a_{24} + \\
&\quad a_{25} - a_{27} - 6a_{36} - a_{37} - a_{38} - 2a_{39} - \\
&\quad 4a_{40} - 5a_{41} - a_{42} + a_{43} + a_{44} - a_{45} + \\
&\quad a_{46} + 2a_{47} - 3a_{49} - 5a_{50} + a_{51} - a_{68} - \\
&\quad 3a_{69} - a_{70} + 3a_{71} + 4a_{72} + 4a_{73} - 5a_{74} + \\
&\quad 2a_{75} - a_{76} + 3a_{77} + a_{78} - 2a_{80} + 4a_{81} + \\
&\quad a_{83} - a_{84} + a_{85} - a_{86} + a_{87} - 3a_{88} - \\
&\quad a_{89} - 3a_{90} - a_{91} + a_{92} + 6a_{93} - a_{95} + \\
&\quad a_{96} - 7a_{98} + a_{99} \\
a_{132} &= \frac{a_{68} + \sqrt{a_{68}^2 - 4x}}{2} \\
x &= 3a_0 + 5a_1 - 5a_5 + 2a_6 - a_{13} - a_{14} - \\
&\quad 5a_7 + a_8 + 5a_{21} + 3a_{22} + a_{23} + 2a_{25} + \\
&\quad a_{26} - a_{28} - 6a_{37} - a_{38} - a_{39} - 2a_{40} - \\
&\quad 4a_{41} - 5a_{42} - a_{43} + a_{44} + a_{45} - a_{46} + \\
&\quad a_{47} + 2a_{48} - 3a_{50} - 5a_{51} + a_{52} - a_{69} - \\
&\quad 3a_{70} - a_{71} + 3a_{72} + 4a_{73} + 4a_{74} - 5a_{75} + \\
&\quad 2a_{76} - a_{77} + 3a_{78} + a_{79} - 2a_{81} + 4a_{82} + \\
&\quad a_{84} - a_{85} + a_{86} - a_{87} + a_{88} - 3a_{89} - \\
&\quad a_{90} - 3a_{91} - a_{92} + a_{93} + 6a_{94} - a_{96} + \\
&\quad a_{97} - 7a_{99} + a_{100} \\
a_{133} &= \frac{a_{69} - \sqrt{a_{69}^2 - 4x}}{2}
\end{aligned}
$$

$$
\begin{aligned}
x &= 3a_0 + 5a_2 - 5a_6 + 2a_3 - a_{14} - a_7 - \\
&\quad 5a_8 + a_9 + 5a_{22} + 3a_{23} + a_{24} + 2a_{26} + \\
&\quad a_{27} - a_{29} - 6a_{38} - a_{39} - a_{40} - 2a_{41} - \\
&\quad 4a_{42} - 5a_{43} - a_{44} + a_{45} + a_{46} - a_{47} + \\
&\quad a_{48} + 2a_{49} - 3a_{51} - 5a_{52} + a_{53} - a_{70} - \\
&\quad 3a_{71} - a_{72} + 3a_{73} + 4a_{74} + 4a_{75} - 5a_{76} + \\
&\quad 2a_{77} - a_{78} + 3a_{79} + a_{80} - 2a_{82} + 4a_{83} + \\
&\quad a_{85} - a_{86} + a_{87} - a_{88} + a_{89} - 3a_{90} - \\
&\quad a_{91} - 3a_{92} - a_{93} + a_{94} + 6a_{95} - a_{97} + \\
&\quad a_{98} - 7a_{100} + a_{101} \\
a_{134} &= \frac{a_{70} + \sqrt{a_{70}^2 - 4x}}{2} \\
x &= 3a_0 + 5a_1 - 5a_3 + 2a_4 - a_7 - a_8 - \\
&\quad 5a_9 + a_{10} + 5a_{23} + 3a_{24} + a_{25} + 2a_{27} + \\
&\quad a_{28} - a_{30} - 6a_{39} - a_{40} - a_{41} - 2a_{42} - \\
&\quad 4a_{43} - 5a_{44} - a_{45} + a_{46} + a_{47} - a_{48} + \\
&\quad a_{49} + 2a_{50} - 3a_{52} - 5a_{53} + a_{54} - a_{71} - \\
&\quad 3a_{72} - a_{73} + 3a_{74} + 4a_{75} + 4a_{76} - 5a_{77} + \\
&\quad 2a_{78} - a_{79} + 3a_{80} + a_{81} - 2a_{83} + 4a_{84} + \\
&\quad a_{86} - a_{87} + a_{88} - a_{89} + a_{90} - 3a_{91} - \\
&\quad a_{92} - 3a_{93} - a_{94} + a_{95} + 6a_{96} - a_{98} + \\
&\quad a_{99} - 7a_{101} + a_{102} \\
a_{135} &= \frac{a_{71} - \sqrt{a_{71}^2 - 4x}}{2} \\
x &= 3a_0 + 5a_2 - 5a_4 + 2a_5 - a_8 - a_9 - \\
&\quad 5a_{10} + a_{11} + 5a_{24} + 3a_{25} + a_{26} + 2a_{28} + \\
&\quad a_{29} - a_{15} - 6a_{40} - a_{41} - a_{42} - 2a_{43} - \\
&\quad 4a_{44} - 5a_{45} - a_{46} + a_{47} + a_{48} - a_{49} + \\
&\quad a_{50} + 2a_{51} - 3a_{53} - 5a_{54} + a_{55} - a_{72} - \\
&\quad 3a_{73} - a_{74} + 3a_{75} + 4a_{76} + 4a_{77} - 5a_{78} + \\
&\quad 2a_{79} - a_{80} + 3a_{81} + a_{82} - 2a_{84} + 4a_{85} + \\
&\quad a_{87} - a_{88} + a_{89} - a_{90} + a_{91} - 3a_{92} - \\
&\quad a_{93} - 3a_{94} - a_{95} + a_{96} + 6a_{97} - a_{99} + \\
&\quad a_{100} - 7a_{102} + a_{103} \\
a_{136} &= \frac{a_{72} + \sqrt{a_{72}^2 - 4x}}{2} \\
x &= 3a_0 + 5a_1 - 5a_5 + 2a_6 - a_9 - a_{10} - \\
&\quad 5a_{11} + a_{12} + 5a_{25} + 3a_{26} + a_{27} + 2a_{29} + \\
&\quad a_{30} - a_{16} - 6a_{41} - a_{42} - a_{43} - 2a_{44} - \\
&\quad 4a_{45} - 5a_{46} - a_{47} + a_{48} + a_{49} - a_{50} + \\
&\quad a_{51} + 2a_{52} - 3a_{54} - 5a_{55} + a_{56} - a_{73} - \\
&\quad 3a_{74} - a_{75} + 3a_{76} + 4a_{77} + 4a_{78} - 5a_{79} + \\
&\quad 2a_{80} - a_{81} + 3a_{82} + a_{83} - 2a_{85} + 4a_{86} + \\
&\quad a_{88} - a_{89} + a_{90} - a_{91} + a_{92} - 3a_{93} - \\
&\quad a_{94} - 3a_{95} - a_{96} + a_{97} + 6a_{98} - a_{100} + \\
&\quad a_{101} - 7a_{103} + a_{104} \\
a_{137} &= \frac{a_{73} - \sqrt{a_{73}^2 - 4x}}{2} \\
x &= 3a_0 + 5a_2 - 5a_6 + 2a_3 - a_{10} - a_{11} - \\
&\quad 5a_{12} + a_{13} + 5a_{26} + 3a_{27} + a_{28} + 2a_{30} + \\
&\quad a_{15} - a_{17} - 6a_{42} - a_{43} - a_{44} - 2a_{45} - \\
&\quad 4a_{46} - 5a_{47} - a_{48} + a_{49} + a_{50} - a_{51} + \\
&\quad a_{52} + 2a_{53} - 3a_{55} - 5a_{56} + a_{57} - a_{74} - \\
&\quad 3a_{75} - a_{76} + 3a_{77} + 4a_{78} + 4a_{79} - 5a_{80} + \\
&\quad 2a_{81} - a_{82} + 3a_{83} + a_{84} - 2a_{86} + 4a_{87} + \\
&\quad a_{89} - a_{90} + a_{91} - a_{92} + a_{93} - 3a_{94} - \\
&\quad a_{95} - 3a_{96} - a_{97} + a_{98} + 6a_{99} - a_{101} + \\
&\quad a_{102} - 7a_{104} + a_{105} \\
a_{138} &= \frac{a_{74} + \sqrt{a_{74}^2 - 4x}}{2} \\
x &= 3a_0 + 5a_1 - 5a_3 + 2a_4 - a_{11} - a_{12} - \\
&\quad 5a_{13} + a_{14} + 5a_{27} + 3a_{28} + a_{29} + 2a_{15} + \\
&\quad a_{16} - a_{18} - 6a_{43} - a_{44} - a_{45} - 2a_{46} - \\
&\quad 4a_{47} - 5a_{48} - a_{49} + a_{50} + a_{51} - a_{52} + \\
&\quad a_{53} + 2a_{54} - 3a_{56} - 5a_{57} + a_{58} - a_{75} - \\
&\quad 3a_{76} - a_{77} + 3a_{78} + 4a_{79} + 4a_{80} - 5a_{81} + \\
&\quad 2a_{82} - a_{83} + 3a_{84} + a_{85} - 2a_{87} + 4a_{88} + \\
&\quad a_{90} - a_{91} + a_{92} - a_{93} + a_{94} - 3a_{95} - \\
&\quad a_{96} - 3a_{97} - a_{98} + a_{99} + 6a_{100} - a_{102} + \\
&\quad a_{103} - 7a_{105} + a_{106} \\
a_{139} &= \frac{a_{75} - \sqrt{a_{75}^2 - 4x}}{2} \\
x &= 3a_0 + 5a_2 - 5a_4 + 2a_5 - a_{12} - a_{13} - \\
&\quad 5a_{14} + a_7 + 5a_{28} + 3a_{29} + a_{30} + 2a_{16} + \\
&\quad a_{17} - a_{19} - 6a_{44} - a_{45} - a_{46} - 2a_{47} - \\
&\quad 4a_{48} - 5a_{49} - a_{50} + a_{51} + a_{52} - a_{53} + \\
&\quad a_{54} + 2a_{55} - 3a_{57} - 5a_{58} + a_{59} - a_{76} - \\
&\quad 3a_{77} - a_{78} + 3a_{79} + 4a_{80} + 4a_{81} - 5a_{82} + \\
&\quad 2a_{83} - a_{84} + 3a_{85} + a_{86} - 2a_{88} + 4a_{89} + \\
&\quad a_{91} - a_{92} + a_{93} - a_{94} + a_{95} - 3a_{96} - \\
&\quad a_{97} - 3a_{98} - a_{99} + a_{100} + 6a_{101} - a_{103} + \\
&\quad a_{104} - 7a_{106} + a_{107} \\
a_{140} &= \frac{a_{76} - \sqrt{a_{76}^2 - 4x}}{2} \\
x &= 3a_0 + 5a_1 - 5a_5 + 2a_6 - a_{13} - a_{14} - \\
&\quad 5a_7 + a_8 + 5a_{29} + 3a_{30} + a_{15} + 2a_{17} + \\
&\quad a_{18} - a_{20} - 6a_{45} - a_{46} - a_{47} - 2a_{48} - \\
&\quad 4a_{49} - 5a_{50} - a_{51} + a_{52} + a_{53} - a_{54} + \\
&\quad a_{55} + 2a_{56} - 3a_{58} - 5a_{59} + a_{60} - a_{77} - \\
&\quad 3a_{78} - a_{79} + 3a_{80} + 4a_{81} + 4a_{82} - 5a_{83} + \\
&\quad 2a_{84} - a_{85} + 3a_{86} + a_{87} - 2a_{89} + 4a_{90} + \\
&\quad a_{92} - a_{93} + a_{94} - a_{95} + a_{96} - 3a_{97} - \\
&\quad a_{98} - 3a_{99} - a_{100} + a_{101} + 6a_{102} - a_{104} + \\
&\quad a_{105} - 7a_{107} + a_{108} \\
a_{141} &= \frac{a_{77} - \sqrt{a_{77}^2 - 4x}}{2} \\
x &= 3a_0 + 5a_2 - 5a_6 + 2a_3 - a_{14} - a_7 - \\
&\quad 5a_8 + a_9 + 5a_{30} + 3a_{15} + a_{16} + 2a_{18} +
\end{aligned}
$$

$$
\begin{aligned}
& a_{19} - a_{21} - 6a_{46} - a_{47} - a_{48} - 2a_{49} - \\
& 4a_{50} - 5a_{51} - a_{52} + a_{53} + a_{54} - a_{55} + \\
& a_{56} + 2a_{57} - 3a_{59} - 5a_{60} + a_{61} - a_{78} - \\
& 3a_{79} - a_{80} + 3a_{81} + 4a_{82} + 4a_{83} - 5a_{84} + \\
& 2a_{85} - a_{86} + 3a_{87} + a_{88} - 2a_{90} + 4a_{91} + \\
& a_{93} - a_{94} + a_{95} - a_{96} + a_{97} - 3a_{98} - \\
& a_{99} - 3a_{100} - a_{101} + a_{102} + 6a_{103} - a_{105} + \\
& a_{106} - 7a_{108} + a_{109}
\end{aligned}
$$

$$
a_{142} = \frac{a_{78} + \sqrt{a_{78}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 3a_0 + 5a_1 - 5a_3 + 2a_4 - a_7 - a_8 - \\
& 5a_9 + a_{10} + 5a_{15} + 3a_{16} + a_{17} + 2a_{19} + \\
& a_{20} - a_{22} - 6a_{47} - a_{48} - a_{49} - 2a_{50} - \\
& 4a_{51} - 5a_{52} - a_{53} + a_{54} + a_{55} - a_{56} + \\
& a_{57} + 2a_{58} - 3a_{60} - 5a_{61} + a_{62} - a_{79} - \\
& 3a_{80} - a_{81} + 3a_{82} + 4a_{83} + 4a_{84} - 5a_{85} + \\
& 2a_{86} - a_{87} + 3a_{88} + a_{89} - 2a_{91} + 4a_{92} + \\
& a_{94} - a_{95} + a_{96} - a_{97} + a_{98} - 3a_{99} - \\
& a_{100} - 3a_{101} - a_{102} + a_{103} + 6a_{104} - a_{106} + \\
& a_{107} - 7a_{109} + a_{110}
\end{aligned}
$$

$$
a_{143} = \frac{a_{79} + \sqrt{a_{79}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 3a_0 + 5a_2 - 5a_4 + 2a_5 - a_8 - a_9 - \\
& 5a_{10} + a_{11} + 5a_{16} + 3a_{17} + a_{18} + 2a_{20} + \\
& a_{21} - a_{23} - 6a_{48} - a_{49} - a_{50} - 2a_{51} - \\
& 4a_{52} - 5a_{53} - a_{54} + a_{55} + a_{56} - a_{57} + \\
& a_{58} + 2a_{59} - 3a_{61} - 5a_{62} + a_{31} - a_{80} - \\
& 3a_{81} - a_{82} + 3a_{83} + 4a_{84} + 4a_{85} - 5a_{86} + \\
& 2a_{87} - a_{88} + 3a_{89} + a_{90} - 2a_{92} + 4a_{93} + \\
& a_{95} - a_{96} + a_{97} - a_{98} + a_{99} - 3a_{100} - \\
& a_{101} - 3a_{102} - a_{103} + a_{104} + 6a_{105} - a_{107} + \\
& a_{108} - 7a_{110} + a_{111}
\end{aligned}
$$

$$
a_{144} = \frac{a_{80} + \sqrt{a_{80}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 3a_0 + 5a_1 - 5a_5 + 2a_6 - a_9 - a_{10} - \\
& 5a_{11} + a_{12} + 5a_{17} + 3a_{18} + a_{19} + 2a_{21} + \\
& a_{22} - a_{24} - 6a_{49} - a_{50} - a_{51} - 2a_{52} - \\
& 4a_{53} - 5a_{54} - a_{55} + a_{56} + a_{57} - a_{58} + \\
& a_{59} + 2a_{60} - 3a_{62} - 5a_{31} + a_{32} - a_{81} - \\
& 3a_{82} - a_{83} + 3a_{84} + 4a_{85} + 4a_{86} - 5a_{87} + \\
& 2a_{88} - a_{89} + 3a_{90} + a_{91} - 2a_{93} + 4a_{94} + \\
& a_{96} - a_{97} + a_{98} - a_{99} + a_{100} - 3a_{101} - \\
& a_{102} - 3a_{103} - a_{104} + a_{105} + 6a_{106} - a_{108} + \\
& a_{109} - 7a_{111} + a_{112}
\end{aligned}
$$

$$
a_{145} = \frac{a_{81} + \sqrt{a_{81}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 3a_0 + 5a_2 - 5a_6 + 2a_3 - a_{10} - a_{11} - \\
& 5a_{12} + a_{13} + 5a_{18} + 3a_{19} + a_{20} + 2a_{22} + \\
& a_{23} - a_{25} - 6a_{50} - a_{51} - a_{52} - 2a_{53} - \\
& 4a_{54} - 5a_{55} - a_{56} + a_{57} + a_{58} - a_{59} + \\
& a_{60} + 2a_{61} - 3a_{31} - 5a_{32} + a_{33} - a_{82} - \\
& 3a_{83} - a_{84} + 3a_{85} + 4a_{86} + 4a_{87} - 5a_{88} + \\
& 2a_{89} - a_{90} + 3a_{91} + a_{92} - 2a_{94} + 4a_{95} + \\
& a_{97} - a_{98} + a_{99} - a_{100} + a_{101} - 3a_{102} - \\
& a_{103} - 3a_{104} - a_{105} + a_{106} + 6a_{107} - a_{109} + \\
& a_{110} - 7a_{112} + a_{113}
\end{aligned}
$$

$$
a_{146} = \frac{a_{82} + \sqrt{a_{82}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 3a_0 + 5a_1 - 5a_3 + 2a_4 - a_{11} - a_{12} - \\
& 5a_{13} + a_{14} + 5a_{19} + 3a_{20} + a_{21} + 2a_{23} + \\
& a_{24} - a_{26} - 6a_{51} - a_{52} - a_{53} - 2a_{54} - \\
& 4a_{55} - 5a_{56} - a_{57} + a_{58} + a_{59} - a_{60} + \\
& a_{61} + 2a_{62} - 3a_{32} - 5a_{33} + a_{34} - a_{83} - \\
& 3a_{84} - a_{85} + 3a_{86} + 4a_{87} + 4a_{88} - 5a_{89} + \\
& 2a_{90} - a_{91} + 3a_{92} + a_{93} - 2a_{95} + 4a_{96} + \\
& a_{98} - a_{99} + a_{100} - a_{101} + a_{102} - 3a_{103} - \\
& a_{104} - 3a_{105} - a_{106} + a_{107} + 6a_{108} - a_{110} + \\
& a_{111} - 7a_{113} + a_{114}
\end{aligned}
$$

$$
a_{147} = \frac{a_{83} + \sqrt{a_{83}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 3a_0 + 5a_2 - 5a_4 + 2a_5 - a_{12} - a_{13} - \\
& 5a_{14} + a_7 + 5a_{20} + 3a_{21} + a_{22} + 2a_{24} + \\
& a_{25} - a_{27} - 6a_{52} - a_{53} - a_{54} - 2a_{55} - \\
& 4a_{56} - 5a_{57} - a_{58} + a_{59} + a_{60} - a_{61} + \\
& a_{62} + 2a_{31} - 3a_{33} - 5a_{34} + a_{35} - a_{84} - \\
& 3a_{85} - a_{86} + 3a_{87} + 4a_{88} + 4a_{89} - 5a_{90} + \\
& 2a_{91} - a_{92} + 3a_{93} + a_{94} - 2a_{96} + 4a_{97} + \\
& a_{99} - a_{100} + a_{101} - a_{102} + a_{103} - 3a_{104} - \\
& a_{105} - 3a_{106} - a_{107} + a_{108} + 6a_{109} - a_{111} + \\
& a_{112} - 7a_{114} + a_{115}
\end{aligned}
$$

$$
a_{148} = \frac{a_{84} - \sqrt{a_{84}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 3a_0 + 5a_1 - 5a_5 + 2a_6 - a_{13} - a_{14} - \\
& 5a_7 + a_8 + 5a_{21} + 3a_{22} + a_{23} + 2a_{25} + \\
& a_{26} - a_{28} - 6a_{53} - a_{54} - a_{55} - 2a_{56} - \\
& 4a_{57} - 5a_{58} - a_{59} + a_{60} + a_{61} - a_{62} + \\
& a_{31} + 2a_{32} - 3a_{34} - 5a_{35} + a_{36} - a_{85} - \\
& 3a_{86} - a_{87} + 3a_{88} + 4a_{89} + 4a_{90} - 5a_{91} + \\
& 2a_{92} - a_{93} + 3a_{94} + a_{95} - 2a_{97} + 4a_{98} + \\
& a_{100} - a_{101} + a_{102} - a_{103} + a_{104} - 3a_{105} - \\
& a_{106} - 3a_{107} - a_{108} + a_{109} + 6a_{110} - a_{112} + \\
& a_{113} - 7a_{115} + a_{116}
\end{aligned}
$$

$$
a_{149} = \frac{a_{85} - \sqrt{a_{85}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 3a_0 + 5a_2 - 5a_6 + 2a_3 - a_{14} - a_7 - \\
& 5a_8 + a_9 + 5a_{22} + 3a_{23} + a_{24} + 2a_{26} + \\
& a_{27} - a_{29} - 6a_{54} - a_{55} - a_{56} - 2a_{57} - \\
& 4a_{58} - 5a_{59} - a_{60} + a_{61} + a_{62} - a_{31} + \\
& a_{32} + 2a_{33} - 3a_{35} - 5a_{36} + a_{37} - a_{86} - \\
& 3a_{87} - a_{88} + 3a_{89} + 4a_{90} + 4a_{91} - 5a_{92} +
\end{aligned}
$$

$$
\begin{aligned}
& 2a_{93} - a_{94} + 3a_{95} + a_{96} - 2a_{98} + 4a_{99} + \\
& a_{101} - a_{102} + a_{103} - a_{104} + a_{105} - 3a_{106} - \\
& a_{107} - 3a_{108} - a_{109} + a_{110} + 6a_{111} - a_{113} + \\
& a_{114} - 7a_{116} + a_{117}
\end{aligned}
$$

$$
\begin{aligned}
a_{150} &= \frac{a_{86} + \sqrt{a_{86}^2 - 4x}}{2} \\
x &= 3a_0 + 5a_1 - 5a_3 + 2a_4 - a_7 - a_8 - \\
& 5a_9 + a_{10} + 5a_{23} + 3a_{24} + a_{25} + 2a_{27} + \\
& a_{28} - a_{30} - 6a_{55} - a_{56} - a_{57} - 2a_{58} - \\
& 4a_{59} - 5a_{60} - a_{61} + a_{62} + a_{31} - a_{32} + \\
& a_{33} + 2a_{34} - 3a_{36} - 5a_{37} + a_{38} - a_{87} - \\
& 3a_{88} - a_{89} + 3a_{90} + 4a_{91} + 4a_{92} - 5a_{93} + \\
& 2a_{94} - a_{95} + 3a_{96} + a_{97} - 2a_{99} + 4a_{100} + \\
& a_{102} - a_{103} + a_{104} - a_{105} + a_{106} - 3a_{107} - \\
& a_{108} - 3a_{109} - a_{110} + a_{111} + 6a_{112} - a_{114} + \\
& a_{115} - 7a_{117} + a_{118} \\
a_{151} &= \frac{a_{87} - \sqrt{a_{87}^2 - 4x}}{2} \\
x &= 3a_0 + 5a_2 - 5a_4 + 2a_5 - a_8 - a_9 - \\
& 5a_{10} + a_{11} + 5a_{24} + 3a_{25} + a_{26} + 2a_{28} + \\
& a_{29} - a_{15} - 6a_{56} - a_{57} - a_{58} - 2a_{59} - \\
& 4a_{60} - 5a_{61} - a_{62} + a_{31} + a_{32} - a_{33} + \\
& a_{34} + 2a_{35} - 3a_{37} - 5a_{38} + a_{39} - a_{88} - \\
& 3a_{89} - a_{90} + 3a_{91} + 4a_{92} + 4a_{93} - 5a_{94} + \\
& 2a_{95} - a_{96} + 3a_{97} + a_{98} - 2a_{100} + 4a_{101} + \\
& a_{103} - a_{104} + a_{105} - a_{106} + a_{107} - 3a_{108} - \\
& a_{109} - 3a_{110} - a_{111} + a_{112} + 6a_{113} - a_{115} + \\
& a_{116} - 7a_{118} + a_{119} \\
a_{152} &= \frac{a_{88} + \sqrt{a_{88}^2 - 4x}}{2} \\
x &= 3a_0 + 5a_1 - 5a_5 + 2a_6 - a_9 - a_{10} - \\
& 5a_{11} + a_{12} + 5a_{25} + 3a_{26} + a_{27} + 2a_{29} + \\
& a_{30} - a_{16} - 6a_{57} - a_{58} - a_{59} - 2a_{60} - \\
& 4a_{61} - 5a_{62} - a_{31} + a_{32} + a_{33} - a_{34} + \\
& a_{35} + 2a_{36} - 3a_{38} - 5a_{39} + a_{40} - a_{89} - \\
& 3a_{90} - a_{91} + 3a_{92} + 4a_{93} + 4a_{94} - 5a_{95} + \\
& 2a_{96} - a_{97} + 3a_{98} + a_{99} - 2a_{101} + 4a_{102} + \\
& a_{104} - a_{105} + a_{106} - a_{107} + a_{108} - 3a_{109} - \\
& a_{110} - 3a_{111} - a_{112} + a_{113} + 6a_{114} - a_{116} + \\
& a_{117} - 7a_{119} + a_{120} \\
a_{153} &= \frac{a_{89} + \sqrt{a_{89}^2 - 4x}}{2} \\
x &= 3a_0 + 5a_2 - 5a_6 + 2a_3 - a_{10} - a_{11} - \\
& 5a_{12} + a_{13} + 5a_{26} + 3a_{27} + a_{28} + 2a_{30} + \\
& a_{15} - a_{17} - 6a_{58} - a_{59} - a_{60} - 2a_{61} - \\
& 4a_{62} - 5a_{31} - a_{32} + a_{33} + a_{34} - a_{35} + \\
& a_{36} + 2a_{37} - 3a_{39} - 5a_{40} + a_{41} - a_{90} - \\
& 3a_{91} - a_{92} + 3a_{93} + 4a_{94} + 4a_{95} - 5a_{96} + \\
& 2a_{97} - a_{98} + 3a_{99} + a_{100} - 2a_{102} + 4a_{103} + \\
& a_{105} - a_{106} + a_{107} - a_{108} + a_{109} - 3a_{110} - \\
& a_{111} - 3a_{112} - a_{113} + a_{114} + 6a_{115} - a_{117} + \\
& a_{118} - 7a_{120} + a_{121} \\
a_{154} &= \frac{a_{90} + \sqrt{a_{90}^2 - 4x}}{2} \\
x &= 3a_0 + 5a_1 - 5a_3 + 2a_4 - a_{11} - a_{12} - \\
& 5a_{13} + a_{14} + 5a_{27} + 3a_{28} + a_{29} + 2a_{15} + \\
& a_{16} - a_{18} - 6a_{59} - a_{60} - a_{61} - 2a_{62} - \\
& 4a_{31} - 5a_{32} - a_{33} + a_{34} + a_{35} - a_{36} + \\
& a_{37} + 2a_{38} - 3a_{40} - 5a_{41} + a_{42} - a_{91} - \\
& 3a_{92} - a_{93} + 3a_{94} + 4a_{95} + 4a_{96} - 5a_{97} + \\
& 2a_{98} - a_{99} + 3a_{100} + a_{101} - 2a_{103} + 4a_{104} + \\
& a_{106} - a_{107} + a_{108} - a_{109} + a_{110} - 3a_{111} - \\
& a_{112} - 3a_{113} - a_{114} + a_{115} + 6a_{116} - a_{118} + \\
& a_{119} - 7a_{121} + a_{122} \\
a_{155} &= \frac{a_{91} + \sqrt{a_{91}^2 - 4x}}{2} \\
x &= 3a_0 + 5a_2 - 5a_4 + 2a_5 - a_{12} - a_{13} - \\
& 5a_{14} + a_7 + 5a_{28} + 3a_{29} + a_{30} + 2a_{16} + \\
& a_{17} - a_{19} - 6a_{60} - a_{61} - a_{62} - 2a_{31} - \\
& 4a_{32} - 5a_{33} - a_{34} + a_{35} + a_{36} - a_{37} + \\
& a_{38} + 2a_{39} - 3a_{41} - 5a_{42} + a_{43} - a_{92} - \\
& 3a_{93} - a_{94} + 3a_{95} + 4a_{96} + 4a_{97} - 5a_{98} + \\
& 2a_{99} - a_{100} + 3a_{101} + a_{102} - 2a_{104} + 4a_{105} + \\
& a_{107} - a_{108} + a_{109} - a_{110} + a_{111} - 3a_{112} - \\
& a_{113} - 3a_{114} - a_{115} + a_{116} + 6a_{117} - a_{119} + \\
& a_{120} - 7a_{122} + a_{123} \\
a_{156} &= \frac{a_{92} - \sqrt{a_{92}^2 - 4x}}{2} \\
x &= 3a_0 + 5a_1 - 5a_5 + 2a_6 - a_{13} - a_{14} - \\
& 5a_7 + a_8 + 5a_{29} + 3a_{30} + a_{15} + 2a_{17} + \\
& a_{18} - a_{20} - 6a_{61} - a_{62} - a_{31} - 2a_{32} - \\
& 4a_{33} - 5a_{34} - a_{35} + a_{36} + a_{37} - a_{38} + \\
& a_{39} + 2a_{40} - 3a_{42} - 5a_{43} + a_{44} - a_{93} - \\
& 3a_{94} - a_{95} + 3a_{96} + 4a_{97} + 4a_{98} - 5a_{99} + \\
& 2a_{100} - a_{101} + 3a_{102} + a_{103} - 2a_{105} + 4a_{106} + \\
& a_{108} - a_{109} + a_{110} - a_{111} + a_{112} - 3a_{113} - \\
& a_{114} - 3a_{115} - a_{116} + a_{117} + 6a_{118} - a_{120} + \\
& a_{121} - 7a_{123} + a_{124} \\
a_{157} &= \frac{a_{93} + \sqrt{a_{93}^2 - 4x}}{2} \\
x &= 3a_0 + 5a_2 - 5a_6 + 2a_3 - a_{14} - a_7 - \\
& 5a_8 + a_9 + 5a_{30} + 3a_{15} + a_{16} + 2a_{18} + \\
& a_{19} - a_{21} - 6a_{62} - a_{31} - a_{32} - 2a_{33} - \\
& 4a_{34} - 5a_{35} - a_{36} + a_{37} + a_{38} - a_{39} + \\
& a_{40} + 2a_{41} - 3a_{43} - 5a_{44} + a_{45} - a_{94} - \\
& 3a_{95} - a_{96} + 3a_{97} + 4a_{98} + 4a_{99} - 5a_{100} + \\
& 2a_{101} - a_{102} + 3a_{103} + a_{104} - 2a_{106} + 4a_{107} + \\
& a_{109} - a_{110} + a_{111} - a_{112} + a_{113} - 3a_{114} -
\end{aligned}
$$

$$
\begin{aligned}
& a_{115} - 3a_{116} - a_{117} + a_{118} + 6a_{119} - a_{121} + \\
& a_{122} - 7a_{124} + a_{125} \\
a_{158} &= \frac{a_{94} + \sqrt{a_{94}^2 - 4x}}{2} \\
x &= 3a_0 + 5a_1 - 5a_3 + 2a_4 - a_7 - a_8 - \\
& 5a_9 + a_{10} + 5a_{15} + 3a_{16} + a_{17} + 2a_{19} + \\
& a_{20} - a_{22} - 6a_{31} - a_{32} - a_{33} - 2a_{34} - \\
& 4a_{35} - 5a_{36} - a_{37} + a_{38} + a_{39} - a_{40} + \\
& a_{41} + 2a_{42} - 3a_{44} - 5a_{45} + a_{46} - a_{95} - \\
& 3a_{96} - a_{97} + 3a_{98} + 4a_{99} + 4a_{100} - 5a_{101} + \\
& 2a_{102} - a_{103} + 3a_{104} + a_{105} - 2a_{107} + 4a_{108} + \\
& a_{110} - a_{111} + a_{112} - a_{113} + a_{114} - 3a_{115} - \\
& a_{116} - 3a_{117} - a_{118} + a_{119} + 6a_{120} - a_{122} + \\
& a_{123} - 7a_{125} + a_{126} \\
a_{159} &= \frac{a_{95} + \sqrt{a_{95}^2 - 4x}}{2} \\
x &= 3a_0 + 5a_2 - 5a_4 + 2a_5 - a_8 - a_9 - \\
& 5a_{10} + a_{11} + 5a_{16} + 3a_{17} + a_{18} + 2a_{20} + \\
& a_{21} - a_{23} - 6a_{32} - a_{33} - a_{34} - 2a_{35} - \\
& 4a_{36} - 5a_{37} - a_{38} + a_{39} + a_{40} - a_{41} + \\
& a_{42} + 2a_{43} - 3a_{45} - 5a_{46} + a_{47} - a_{96} - \\
& 3a_{97} - a_{98} + 3a_{99} + 4a_{100} + 4a_{101} - 5a_{102} + \\
& 2a_{103} - a_{104} + 3a_{105} + a_{106} - 2a_{108} + 4a_{109} + \\
& a_{111} - a_{112} + a_{113} - a_{114} + a_{115} - 3a_{116} - \\
& a_{117} - 3a_{118} - a_{119} + a_{120} + 6a_{121} - a_{123} + \\
& a_{124} - 7a_{126} + a_{63}
\end{aligned}
$$

$$
\begin{aligned}
a_{160} &= \frac{a_{96} + \sqrt{a_{96}^2 - 4x}}{2} \\
x &= 3a_0 + 5a_1 - 5a_5 + 2a_6 - a_9 - a_{10} - \\
& 5a_{11} + a_{12} + 5a_{17} + 3a_{18} + a_{19} + 2a_{21} + \\
& a_{22} - a_{24} - 6a_{33} - a_{34} - a_{35} - 2a_{36} - \\
& 4a_{37} - 5a_{38} - a_{39} + a_{40} + a_{41} - a_{42} + \\
& a_{43} + 2a_{44} - 3a_{46} - 5a_{47} + a_{48} - a_{97} - \\
& 3a_{98} - a_{99} + 3a_{100} + 4a_{101} + 4a_{102} - 5a_{103} + \\
& 2a_{104} - a_{105} + 3a_{106} + a_{107} - 2a_{109} + 4a_{110} + \\
& a_{112} - a_{113} + a_{114} - a_{115} + a_{116} - 3a_{117} - \\
& a_{118} - 3a_{119} - a_{120} + a_{121} + 6a_{122} - a_{124} + \\
& a_{125} - 7a_{63} + a_{64} \\
a_{161} &= \frac{a_{97} - \sqrt{a_{97}^2 - 4x}}{2} \\
x &= 3a_0 + 5a_2 - 5a_6 + 2a_3 - a_{10} - a_{11} - \\
& 5a_{12} + a_{13} + 5a_{18} + 3a_{19} + a_{20} + 2a_{22} + \\
& a_{23} - a_{25} - 6a_{34} - a_{35} - a_{36} - 2a_{37} - \\
& 4a_{38} - 5a_{39} - a_{40} + a_{41} + a_{42} - a_{43} + \\
& a_{44} + 2a_{45} - 3a_{47} - 5a_{48} + a_{49} - a_{98} - \\
& 3a_{99} - a_{100} + 3a_{101} + 4a_{102} + 4a_{103} - 5a_{104} + \\
& 2a_{105} - a_{106} + 3a_{107} + a_{108} - 2a_{110} + 4a_{111} + \\
& a_{113} - a_{114} + a_{115} - a_{116} + a_{117} - 3a_{118} - \\
& a_{119} - 3a_{120} - a_{121} + a_{122} + 6a_{123} - a_{125} + \\
& a_{126} - 7a_{64} + a_{65} \\
a_{162} &= \frac{a_{98} + \sqrt{a_{98}^2 - 4x}}{2} \\
x &= 3a_0 + 5a_1 - 5a_3 + 2a_4 - a_{11} - a_{12} - \\
& 5a_{13} + a_{14} + 5a_{19} + 3a_{20} + a_{21} + 2a_{23} + \\
& a_{24} - a_{26} - 6a_{35} - a_{36} - a_{37} - 2a_{38} - \\
& 4a_{39} - 5a_{40} - a_{41} + a_{42} + a_{43} - a_{44} + \\
& a_{45} + 2a_{46} - 3a_{48} - 5a_{49} + a_{50} - a_{99} - \\
& 3a_{100} - a_{101} + 3a_{102} + 4a_{103} + 4a_{104} - 5a_{105} + \\
& 2a_{106} - a_{107} + 3a_{108} + a_{109} - 2a_{111} + 4a_{112} + \\
& a_{114} - a_{115} + a_{116} - a_{117} + a_{118} - 3a_{119} - \\
& a_{120} - 3a_{121} - a_{122} + a_{123} + 6a_{124} - a_{126} + \\
& a_{63} - 7a_{65} + a_{66} \\
a_{163} &= \frac{a_{99} + \sqrt{a_{99}^2 - 4x}}{2} \\
x &= 3a_0 + 5a_2 - 5a_4 + 2a_5 - a_{12} - a_{13} - \\
& 5a_{14} + a_7 + 5a_{20} + 3a_{21} + a_{22} + 2a_{24} + \\
& a_{25} - a_{27} - 6a_{36} - a_{37} - a_{38} - 2a_{39} - \\
& 4a_{40} - 5a_{41} - a_{42} + a_{43} + a_{44} - a_{45} + \\
& a_{46} + 2a_{47} - 3a_{49} - 5a_{50} + a_{51} - a_{100} - \\
& 3a_{101} - a_{102} + 3a_{103} + 4a_{104} + 4a_{105} - 5a_{106} + \\
& 2a_{107} - a_{108} + 3a_{109} + a_{110} - 2a_{112} + 4a_{113} + \\
& a_{115} - a_{116} + a_{117} - a_{118} + a_{119} - 3a_{120} - \\
& a_{121} - 3a_{122} - a_{123} + a_{124} + 6a_{125} - a_{63} + \\
& a_{64} - 7a_{66} + a_{67} \\
a_{164} &= \frac{a_{100} - \sqrt{a_{100}^2 - 4x}}{2} \\
x &= 3a_0 + 5a_1 - 5a_5 + 2a_6 - a_{13} - a_{14} - \\
& 5a_7 + a_8 + 5a_{21} + 3a_{22} + a_{23} + 2a_{25} + \\
& a_{26} - a_{28} - 6a_{37} - a_{38} - a_{39} - 2a_{40} - \\
& 4a_{41} - 5a_{42} - a_{43} + a_{44} + a_{45} - a_{46} + \\
& a_{47} + 2a_{48} - 3a_{50} - 5a_{51} + a_{52} - a_{101} - \\
& 3a_{102} - a_{103} + 3a_{104} + 4a_{105} + 4a_{106} - 5a_{107} + \\
& 2a_{108} - a_{109} + 3a_{110} + a_{111} - 2a_{113} + 4a_{114} + \\
& a_{116} - a_{117} + a_{118} - a_{119} + a_{120} - 3a_{121} - \\
& a_{122} - 3a_{123} - a_{124} + a_{125} + 6a_{126} - a_{64} + \\
& a_{65} - 7a_{67} + a_{68} \\
a_{165} &= \frac{a_{101} + \sqrt{a_{101}^2 - 4x}}{2} \\
x &= 3a_0 + 5a_2 - 5a_6 + 2a_3 - a_{14} - a_7 - \\
& 5a_8 + a_9 + 5a_{22} + 3a_{23} + a_{24} + 2a_{26} + \\
& a_{27} - a_{29} - 6a_{38} - a_{39} - a_{40} - 2a_{41} - \\
& 4a_{42} - 5a_{43} - a_{44} + a_{45} + a_{46} - a_{47} + \\
& a_{48} + 2a_{49} - 3a_{51} - 5a_{52} + a_{53} - a_{102} - \\
& 3a_{103} - a_{104} + 3a_{105} + 4a_{106} + 4a_{107} - 5a_{108} + \\
& 2a_{109} - a_{110} + 3a_{111} + a_{112} - 2a_{114} + 4a_{115} + \\
& a_{117} - a_{118} + a_{119} - a_{120} + a_{121} - 3a_{122} - \\
& a_{123} - 3a_{124} - a_{125} + a_{126} + 6a_{63} - a_{65} + \\
& a_{66} - 7a_{68} + a_{69}
\end{aligned}
$$

$$
\begin{aligned}
a_{166} &= \frac{a_{102}+\sqrt{a_{102}^2-4x}}{2}\\
x &= 3a_0+5a_1-5a_3+2a_4-a_7-a_8-\\
&\quad 5a_9+a_{10}+5a_{23}+3a_{24}+a_{25}+2a_{27}+\\
&\quad a_{28}-a_{30}-6a_{39}-a_{40}-a_{41}-2a_{42}-\\
&\quad 4a_{43}-5a_{44}-a_{45}+a_{46}+a_{47}-a_{48}+\\
&\quad a_{49}+2a_{50}-3a_{52}-5a_{53}+a_{54}-a_{103}-\\
&\quad 3a_{104}-a_{105}+3a_{106}+4a_{107}+4a_{108}-5a_{109}+\\
&\quad 2a_{110}-a_{111}+3a_{112}+a_{113}-2a_{115}+4a_{116}+\\
&\quad a_{118}-a_{119}+a_{120}-a_{121}+a_{122}-3a_{123}-\\
&\quad a_{124}-3a_{125}-a_{126}+a_{63}+6a_{64}-a_{66}+\\
&\quad a_{67}-7a_{69}+a_{70}\\
a_{167} &= \frac{a_{103}-\sqrt{a_{103}^2-4x}}{2}\\
x &= 3a_0+5a_2-5a_4+2a_5-a_8-a_9-\\
&\quad 5a_{10}+a_{11}+5a_{24}+3a_{25}+a_{26}+2a_{28}+\\
&\quad a_{29}-a_{15}-6a_{40}-a_{41}-a_{42}-2a_{43}-\\
&\quad 4a_{44}-5a_{45}-a_{46}+a_{47}+a_{48}-a_{49}+\\
&\quad a_{50}+2a_{51}-3a_{53}-5a_{54}+a_{55}-a_{104}-\\
&\quad 3a_{105}-a_{106}+3a_{107}+4a_{108}+4a_{109}-5a_{110}+\\
&\quad 2a_{111}-a_{112}+3a_{113}+a_{114}-2a_{116}+4a_{117}+\\
&\quad a_{119}-a_{120}+a_{121}-a_{122}+a_{123}-3a_{124}-\\
&\quad a_{125}-3a_{126}-a_{63}+a_{64}+6a_{65}-a_{67}+\\
&\quad a_{68}-7a_{70}+a_{71}\\
a_{168} &= \frac{a_{104}+\sqrt{a_{104}^2-4x}}{2}\\
x &= 3a_0+5a_1-5a_5+2a_6-a_9-a_{10}-\\
&\quad 5a_{11}+a_{12}+5a_{25}+3a_{26}+a_{27}+2a_{29}+\\
&\quad a_{30}-a_{16}-6a_{41}-a_{42}-a_{43}-2a_{44}-\\
&\quad 4a_{45}-5a_{46}-a_{47}+a_{48}+a_{49}-a_{50}+\\
&\quad a_{51}+2a_{52}-3a_{54}-5a_{55}+a_{56}-a_{105}-\\
&\quad 3a_{106}-a_{107}+3a_{108}+4a_{109}+4a_{110}-5a_{111}+\\
&\quad 2a_{112}-a_{113}+3a_{114}+a_{115}-2a_{117}+4a_{118}+\\
&\quad a_{120}-a_{121}+a_{122}-a_{123}+a_{124}-3a_{125}-\\
&\quad a_{126}-3a_{63}-a_{64}+a_{65}+6a_{66}-a_{68}+\\
&\quad a_{69}-7a_{71}+a_{72}\\
a_{169} &= \frac{a_{105}-\sqrt{a_{105}^2-4x}}{2}\\
x &= 3a_0+5a_2-5a_6+2a_3-a_{10}-a_{11}-\\
&\quad 5a_{12}+a_{13}+5a_{26}+3a_{27}+a_{28}+2a_{30}+\\
&\quad a_{15}-a_{17}-6a_{42}-a_{43}-a_{44}-2a_{45}-\\
&\quad 4a_{46}-5a_{47}-a_{48}+a_{49}+a_{50}-a_{51}+\\
&\quad a_{52}+2a_{53}-3a_{55}-5a_{56}+a_{57}-a_{106}-\\
&\quad 3a_{107}-a_{108}+3a_{109}+4a_{110}+4a_{111}-5a_{112}+\\
&\quad 2a_{113}-a_{114}+3a_{115}+a_{116}-2a_{118}+4a_{119}+\\
&\quad a_{121}-a_{122}+a_{123}-a_{124}+a_{125}-3a_{126}-\\
&\quad a_{63}-3a_{64}-a_{65}+a_{66}+6a_{67}-a_{69}+\\
&\quad a_{70}-7a_{72}+a_{73}
\end{aligned}
$$

$$
\begin{aligned}
a_{170} &= \frac{a_{106}-\sqrt{a_{106}^2-4x}}{2}\\
x &= 3a_0+5a_1-5a_3+2a_4-a_{11}-a_{12}-\\
&\quad 5a_{13}+a_{14}+5a_{27}+3a_{28}+a_{29}+2a_{15}+\\
&\quad a_{16}-a_{18}-6a_{43}-a_{44}-a_{45}-2a_{46}-\\
&\quad 4a_{47}-5a_{48}-a_{49}+a_{50}+a_{51}-a_{52}+\\
&\quad a_{53}+2a_{54}-3a_{56}-5a_{57}+a_{58}-a_{107}-\\
&\quad 3a_{108}-a_{109}+3a_{110}+4a_{111}+4a_{112}-5a_{113}+\\
&\quad 2a_{114}-a_{115}+3a_{116}+a_{117}-2a_{119}+4a_{120}+\\
&\quad a_{122}-a_{123}+a_{124}-a_{125}+a_{126}-3a_{63}-\\
&\quad a_{64}-3a_{65}-a_{66}+a_{67}+6a_{68}-a_{70}+\\
&\quad a_{71}-7a_{73}+a_{74}\\
a_{171} &= \frac{a_{107}+\sqrt{a_{107}^2-4x}}{2}\\
x &= 3a_0+5a_2-5a_4+2a_5-a_{12}-a_{13}-\\
&\quad 5a_{14}+a_7+5a_{28}+3a_{29}+a_{30}+2a_{16}+\\
&\quad a_{17}-a_{19}-6a_{44}-a_{45}-a_{46}-2a_{47}-\\
&\quad 4a_{48}-5a_{49}-a_{50}+a_{51}+a_{52}-a_{53}+\\
&\quad a_{54}+2a_{55}-3a_{57}-5a_{58}+a_{59}-a_{108}-\\
&\quad 3a_{109}-a_{110}+3a_{111}+4a_{112}+4a_{113}-5a_{114}+\\
&\quad 2a_{115}-a_{116}+3a_{117}+a_{118}-2a_{120}+4a_{121}+\\
&\quad a_{123}-a_{124}+a_{125}-a_{126}+a_{63}-3a_{64}-\\
&\quad a_{65}-3a_{66}-a_{67}+a_{68}+6a_{69}-a_{71}+\\
&\quad a_{72}-7a_{74}+a_{75}\\
a_{172} &= \frac{a_{108}+\sqrt{a_{108}^2-4x}}{2}\\
x &= 3a_0+5a_1-5a_5+2a_6-a_{13}-a_{14}-\\
&\quad 5a_7+a_8+5a_{29}+3a_{30}+a_{15}+2a_{17}+\\
&\quad a_{18}-a_{20}-6a_{45}-a_{46}-a_{47}-2a_{48}-\\
&\quad 4a_{49}-5a_{50}-a_{51}+a_{52}+a_{53}-a_{54}+\\
&\quad a_{55}+2a_{56}-3a_{58}-5a_{59}+a_{60}-a_{109}-\\
&\quad 3a_{110}-a_{111}+3a_{112}+4a_{113}+4a_{114}-5a_{115}+\\
&\quad 2a_{116}-a_{117}+3a_{118}+a_{119}-2a_{121}+4a_{122}+\\
&\quad a_{124}-a_{125}+a_{126}-a_{63}+a_{64}-3a_{65}-\\
&\quad a_{66}-3a_{67}-a_{68}+a_{69}+6a_{70}-a_{72}+\\
&\quad a_{73}-7a_{75}+a_{76}\\
a_{173} &= \frac{a_{109}-\sqrt{a_{109}^2-4x}}{2}\\
x &= 3a_0+5a_2-5a_6+2a_3-a_{14}-a_7-\\
&\quad 5a_8+a_9+5a_{30}+3a_{15}+a_{16}+2a_{18}+\\
&\quad a_{19}-a_{21}-6a_{46}-a_{47}-a_{48}-2a_{49}-\\
&\quad 4a_{50}-5a_{51}-a_{52}+a_{53}+a_{54}-a_{55}+\\
&\quad a_{56}+2a_{57}-3a_{59}-5a_{60}+a_{61}-a_{110}-\\
&\quad 3a_{111}-a_{112}+3a_{113}+4a_{114}+4a_{115}-5a_{116}+\\
&\quad 2a_{117}-a_{118}+3a_{119}+a_{120}-2a_{122}+4a_{123}+\\
&\quad a_{125}-a_{126}+a_{63}-a_{64}+a_{65}-3a_{66}-\\
&\quad a_{67}-3a_{68}-a_{69}+a_{70}+6a_{71}-a_{73}+\\
&\quad a_{74}-7a_{76}+a_{77}\\
a_{174} &= \frac{a_{110}+\sqrt{a_{110}^2-4x}}{2}
\end{aligned}
$$

$$
\begin{aligned}
x &= 3a_0 + 5a_1 - 5a_3 + 2a_4 - a_7 - a_8 - \\
&\quad 5a_9 + a_{10} + 5a_{15} + 3a_{16} + a_{17} + 2a_{19} + \\
&\quad a_{20} - a_{22} - 6a_{47} - a_{48} - a_{49} - 2a_{50} - \\
&\quad 4a_{51} - 5a_{52} - a_{53} + a_{54} + a_{55} - a_{56} + \\
&\quad a_{57} + 2a_{58} - 3a_{60} - 5a_{61} + a_{62} - a_{111} - \\
&\quad 3a_{112} - a_{113} + 3a_{114} + 4a_{115} + 4a_{116} - 5a_{117} + \\
&\quad 2a_{118} - a_{119} + 3a_{120} + a_{121} - 2a_{123} + 4a_{124} + \\
&\quad a_{126} - a_{63} + a_{64} - a_{65} + a_{66} - 3a_{67} - \\
&\quad a_{68} - 3a_{69} - a_{70} + a_{71} + 6a_{72} - a_{74} + \\
&\quad a_{75} - 7a_{77} + a_{78} \\
a_{175} &= \frac{a_{111} - \sqrt{a_{111}^2 - 4x}}{2} \\
x &= 3a_0 + 5a_2 - 5a_4 + 2a_5 - a_8 - a_9 - \\
&\quad 5a_{10} + a_{11} + 5a_{16} + 3a_{17} + a_{18} + 2a_{20} + \\
&\quad a_{21} - a_{23} - 6a_{48} - a_{49} - a_{50} - 2a_{51} - \\
&\quad 4a_{52} - 5a_{53} - a_{54} + a_{55} + a_{56} - a_{57} + \\
&\quad a_{58} + 2a_{59} - 3a_{61} - 5a_{62} + a_{31} - a_{112} - \\
&\quad 3a_{113} - a_{114} + 3a_{115} + 4a_{116} + 4a_{117} - 5a_{118} + \\
&\quad 2a_{119} - a_{120} + 3a_{121} + a_{122} - 2a_{124} + 4a_{125} + \\
&\quad a_{63} - a_{64} + a_{65} - a_{66} + a_{67} - 3a_{68} - \\
&\quad a_{69} - 3a_{70} - a_{71} + a_{72} + 6a_{73} - a_{75} + \\
&\quad a_{76} - 7a_{78} + a_{79} \\
a_{176} &= \frac{a_{112} + \sqrt{a_{112}^2 - 4x}}{2} \\
x &= 3a_0 + 5a_1 - 5a_5 + 2a_6 - a_9 - a_{10} - \\
&\quad 5a_{11} + a_{12} + 5a_{17} + 3a_{18} + a_{19} + 2a_{21} + \\
&\quad a_{22} - a_{24} - 6a_{49} - a_{50} - a_{51} - 2a_{52} - \\
&\quad 4a_{53} - 5a_{54} - a_{55} + a_{56} + a_{57} - a_{58} + \\
&\quad a_{59} + 2a_{60} - 3a_{62} - 5a_{31} + a_{32} - a_{113} - \\
&\quad 3a_{114} - a_{115} + 3a_{116} + 4a_{117} + 4a_{118} - 5a_{119} + \\
&\quad 2a_{120} - a_{121} + 3a_{122} + a_{123} - 2a_{125} + 4a_{126} + \\
&\quad a_{64} - a_{65} + a_{66} - a_{67} + a_{68} - 3a_{69} - \\
&\quad a_{70} - 3a_{71} - a_{72} + a_{73} + 6a_{74} - a_{76} + \\
&\quad a_{77} - 7a_{79} + a_{80} \\
a_{177} &= \frac{a_{113} + \sqrt{a_{113}^2 - 4x}}{2} \\
x &= 3a_0 + 5a_2 - 5a_6 + 2a_3 - a_{10} - a_{11} - \\
&\quad 5a_{12} + a_{13} + 5a_{18} + 3a_{19} + a_{20} + 2a_{22} + \\
&\quad a_{23} - a_{25} - 6a_{50} - a_{51} - a_{52} - 2a_{53} - \\
&\quad 4a_{54} - 5a_{55} - a_{56} + a_{57} + a_{58} - a_{59} + \\
&\quad a_{60} + 2a_{61} - 3a_{31} - 5a_{32} + a_{33} - a_{114} - \\
&\quad 3a_{115} - a_{116} + 3a_{117} + 4a_{118} + 4a_{119} - 5a_{120} + \\
&\quad 2a_{121} - a_{122} + 3a_{123} + a_{124} - 2a_{126} + 4a_{63} + \\
&\quad a_{65} - a_{66} + a_{67} - a_{68} + a_{69} - 3a_{70} - \\
&\quad a_{71} - 3a_{72} - a_{73} + a_{74} + 6a_{75} - a_{77} + \\
&\quad a_{78} - 7a_{80} + a_{81} \\
a_{178} &= \frac{a_{114} - \sqrt{a_{114}^2 - 4x}}{2} \\
x &= 3a_0 + 5a_1 - 5a_3 + 2a_4 - a_{11} - a_{12} - \\
&\quad 5a_{13} + a_{14} + 5a_{19} + 3a_{20} + a_{21} + 2a_{23} + \\
&\quad a_{24} - a_{26} - 6a_{51} - a_{52} - a_{53} - 2a_{54} - \\
&\quad 4a_{55} - 5a_{56} - a_{57} + a_{58} + a_{59} - a_{60} + \\
&\quad a_{61} + 2a_{62} - 3a_{32} - 5a_{33} + a_{34} - a_{115} - \\
&\quad 3a_{116} - a_{117} + 3a_{118} + 4a_{119} + 4a_{120} - 5a_{121} + \\
&\quad 2a_{122} - a_{123} + 3a_{124} + a_{125} - 2a_{63} + 4a_{64} + \\
&\quad a_{66} - a_{67} + a_{68} - a_{69} + a_{70} - 3a_{71} - \\
&\quad a_{72} - 3a_{73} - a_{74} + a_{75} + 6a_{76} - a_{78} + \\
&\quad a_{79} - 7a_{81} + a_{82} \\
a_{179} &= \frac{a_{115} - \sqrt{a_{115}^2 - 4x}}{2} \\
x &= 3a_0 + 5a_2 - 5a_4 + 2a_5 - a_{12} - a_{13} - \\
&\quad 5a_{14} + a_7 + 5a_{20} + 3a_{21} + a_{22} + 2a_{24} + \\
&\quad a_{25} - a_{27} - 6a_{52} - a_{53} - a_{54} - 2a_{55} - \\
&\quad 4a_{56} - 5a_{57} - a_{58} + a_{59} + a_{60} - a_{61} + \\
&\quad a_{62} + 2a_{31} - 3a_{33} - 5a_{34} + a_{35} - a_{116} - \\
&\quad 3a_{117} - a_{118} + 3a_{119} + 4a_{120} + 4a_{121} - 5a_{122} + \\
&\quad 2a_{123} - a_{124} + 3a_{125} + a_{126} - 2a_{64} + 4a_{65} + \\
&\quad a_{67} - a_{68} + a_{69} - a_{70} + a_{71} - 3a_{72} - \\
&\quad a_{73} - 3a_{74} - a_{75} + a_{76} + 6a_{77} - a_{79} + \\
&\quad a_{80} - 7a_{82} + a_{83} \\
a_{180} &= \frac{a_{116} - \sqrt{a_{116}^2 - 4x}}{2} \\
x &= 3a_0 + 5a_1 - 5a_5 + 2a_6 - a_{13} - a_{14} - \\
&\quad 5a_7 + a_8 + 5a_{21} + 3a_{22} + a_{23} + 2a_{25} + \\
&\quad a_{26} - a_{28} - 6a_{53} - a_{54} - a_{55} - 2a_{56} - \\
&\quad 4a_{57} - 5a_{58} - a_{59} + a_{60} + a_{61} - a_{62} + \\
&\quad a_{31} + 2a_{32} - 3a_{34} - 5a_{35} + a_{36} - a_{117} - \\
&\quad 3a_{118} - a_{119} + 3a_{120} + 4a_{121} + 4a_{122} - 5a_{123} + \\
&\quad 2a_{124} - a_{125} + 3a_{126} + a_{63} - 2a_{65} + 4a_{66} + \\
&\quad a_{68} - a_{69} + a_{70} - a_{71} + a_{72} - 3a_{73} - \\
&\quad a_{74} - 3a_{75} - a_{76} + a_{77} + 6a_{78} - a_{80} + \\
&\quad a_{81} - 7a_{83} + a_{84} \\
a_{181} &= \frac{a_{117} - \sqrt{a_{117}^2 - 4x}}{2} \\
x &= 3a_0 + 5a_2 - 5a_6 + 2a_3 - a_{14} - a_7 - \\
&\quad 5a_8 + a_9 + 5a_{22} + 3a_{23} + a_{24} + 2a_{26} + \\
&\quad a_{27} - a_{29} - 6a_{54} - a_{55} - a_{56} - 2a_{57} - \\
&\quad 4a_{58} - 5a_{59} - a_{60} + a_{61} + a_{62} - a_{31} + \\
&\quad a_{32} + 2a_{33} - 3a_{35} - 5a_{36} + a_{37} - a_{118} - \\
&\quad 3a_{119} - a_{120} + 3a_{121} + 4a_{122} + 4a_{123} - 5a_{124} + \\
&\quad 2a_{125} - a_{126} + 3a_{63} + a_{64} - 2a_{66} + 4a_{67} + \\
&\quad a_{69} - a_{70} + a_{71} - a_{72} + a_{73} - 3a_{74} - \\
&\quad a_{75} - 3a_{76} - a_{77} + a_{78} + 6a_{79} - a_{81} + \\
&\quad a_{82} - 7a_{84} + a_{85} \\
a_{182} &= \frac{a_{118} - \sqrt{a_{118}^2 - 4x}}{2} \\
x &= 3a_0 + 5a_1 - 5a_3 + 2a_4 - a_7 - a_8 - \\
&\quad 5a_9 + a_{10} + 5a_{23} + 3a_{24} + a_{25} + 2a_{27} +
\end{aligned}
$$

$$
\begin{aligned}
& a_{28} - a_{30} - 6a_{55} - a_{56} - a_{57} - 2a_{58} - \\
& 4a_{59} - 5a_{60} - a_{61} + a_{62} + a_{31} - a_{32} + \\
& a_{33} + 2a_{34} - 3a_{36} - 5a_{37} + a_{38} - a_{119} - \\
& 3a_{120} - a_{121} + 3a_{122} + 4a_{123} + 4a_{124} - 5a_{125} + \\
& 2a_{126} - a_{63} + 3a_{64} + a_{65} - 2a_{67} + 4a_{68} + \\
& a_{70} - a_{71} + a_{72} - a_{73} + a_{74} - 3a_{75} - \\
& a_{76} - 3a_{77} - a_{78} + a_{79} + 6a_{80} - a_{82} + \\
& a_{83} - 7a_{85} + a_{86}
\end{aligned}
$$

$$
a_{183} = \frac{a_{119} + \sqrt{a_{119}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 3a_0 + 5a_2 - 5a_4 + 2a_5 - a_8 - a_9 - \\
& 5a_{10} + a_{11} + 5a_{24} + 3a_{25} + a_{26} + 2a_{28} + \\
& a_{29} - a_{15} - 6a_{56} - a_{57} - a_{58} - 2a_{59} - \\
& 4a_{60} - 5a_{61} - a_{62} + a_{31} + a_{32} - a_{33} + \\
& a_{34} + 2a_{35} - 3a_{37} - 5a_{38} + a_{39} - a_{120} - \\
& 3a_{121} - a_{122} + 3a_{123} + 4a_{124} + 4a_{125} - 5a_{126} + \\
& 2a_{63} - a_{64} + 3a_{65} + a_{66} - 2a_{68} + 4a_{69} + \\
& a_{71} - a_{72} + a_{73} - a_{74} + a_{75} - 3a_{76} - \\
& a_{77} - 3a_{78} - a_{79} + a_{80} + 6a_{81} - a_{83} + \\
& a_{84} - 7a_{86} + a_{87}
\end{aligned}
$$

$$
a_{184} = \frac{a_{120} + \sqrt{a_{120}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 3a_0 + 5a_1 - 5a_5 + 2a_6 - a_9 - a_{10} - \\
& 5a_{11} + a_{12} + 5a_{25} + 3a_{26} + a_{27} + 2a_{29} + \\
& a_{30} - a_{16} - 6a_{57} - a_{58} - a_{59} - 2a_{60} - \\
& 4a_{61} - 5a_{62} - a_{31} + a_{32} + a_{33} - a_{34} + \\
& a_{35} + 2a_{36} - 3a_{38} - 5a_{39} + a_{40} - a_{121} - \\
& 3a_{122} - a_{123} + 3a_{124} + 4a_{125} + 4a_{126} - 5a_{63} + \\
& 2a_{64} - a_{65} + 3a_{66} + a_{67} - 2a_{69} + 4a_{70} + \\
& a_{72} - a_{73} + a_{74} - a_{75} + a_{76} - 3a_{77} - \\
& a_{78} - 3a_{79} - a_{80} + a_{81} + 6a_{82} - a_{84} + \\
& a_{85} - 7a_{87} + a_{88}
\end{aligned}
$$

$$
a_{185} = \frac{a_{121} + \sqrt{a_{121}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 3a_0 + 5a_2 - 5a_6 + 2a_3 - a_{10} - a_{11} - \\
& 5a_{12} + a_{13} + 5a_{26} + 3a_{27} + a_{28} + 2a_{30} + \\
& a_{15} - a_{17} - 6a_{58} - a_{59} - a_{60} - 2a_{61} - \\
& 4a_{62} - 5a_{31} - a_{32} + a_{33} + a_{34} - a_{35} + \\
& a_{36} + 2a_{37} - 3a_{39} - 5a_{40} + a_{41} - a_{122} - \\
& 3a_{123} - a_{124} + 3a_{125} + 4a_{126} + 4a_{63} - 5a_{64} + \\
& 2a_{65} - a_{66} + 3a_{67} + a_{68} - 2a_{70} + 4a_{71} + \\
& a_{73} - a_{74} + a_{75} - a_{76} + a_{77} - 3a_{78} - \\
& a_{79} - 3a_{80} - a_{81} + a_{82} + 6a_{83} - a_{85} + \\
& a_{86} - 7a_{88} + a_{89}
\end{aligned}
$$

$$
a_{186} = \frac{a_{122} - \sqrt{a_{122}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 3a_0 + 5a_1 - 5a_3 + 2a_4 - a_{11} - a_{12} - \\
& 5a_{13} + a_{14} + 5a_{27} + 3a_{28} + a_{29} + 2a_{15} + \\
& a_{16} - a_{18} - 6a_{59} - a_{60} - a_{61} - 2a_{62} - \\
& 4a_{31} - 5a_{32} - a_{33} + a_{34} + a_{35} - a_{36} + \\
& a_{37} + 2a_{38} - 3a_{40} - 5a_{41} + a_{42} - a_{123} - \\
& 3a_{124} - a_{125} + 3a_{126} + 4a_{63} + 4a_{64} - 5a_{65} + \\
& 2a_{66} - a_{67} + 3a_{68} + a_{69} - 2a_{71} + 4a_{72} + \\
& a_{74} - a_{75} + a_{76} - a_{77} + a_{78} - 3a_{79} - \\
& a_{80} - 3a_{81} - a_{82} + a_{83} + 6a_{84} - a_{86} + \\
& a_{87} - 7a_{89} + a_{90}
\end{aligned}
$$

$$
a_{187} = \frac{a_{123} - \sqrt{a_{123}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 3a_0 + 5a_2 - 5a_4 + 2a_5 - a_{12} - a_{13} - \\
& 5a_{14} + a_7 + 5a_{28} + 3a_{29} + a_{30} + 2a_{16} + \\
& a_{17} - a_{19} - 6a_{60} - a_{61} - a_{62} - 2a_{31} - \\
& 4a_{32} - 5a_{33} - a_{34} + a_{35} + a_{36} - a_{37} + \\
& a_{38} + 2a_{39} - 3a_{41} - 5a_{42} + a_{43} - a_{124} - \\
& 3a_{125} - a_{126} + 3a_{63} + 4a_{64} + 4a_{65} - 5a_{66} + \\
& 2a_{67} - a_{68} + 3a_{69} + a_{70} - 2a_{72} + 4a_{73} + \\
& a_{75} - a_{76} + a_{77} - a_{78} + a_{79} - 3a_{80} - \\
& a_{81} - 3a_{82} - a_{83} + a_{84} + 6a_{85} - a_{87} + \\
& a_{88} - 7a_{90} + a_{91}
\end{aligned}
$$

$$
a_{188} = \frac{a_{124} + \sqrt{a_{124}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 3a_0 + 5a_1 - 5a_5 + 2a_6 - a_{13} - a_{14} - \\
& 5a_7 + a_8 + 5a_{29} + 3a_{30} + a_{15} + 2a_{17} + \\
& a_{18} - a_{20} - 6a_{61} - a_{62} - a_{31} - 2a_{32} - \\
& 4a_{33} - 5a_{34} - a_{35} + a_{36} + a_{37} - a_{38} + \\
& a_{39} + 2a_{40} - 3a_{42} - 5a_{43} + a_{44} - a_{125} - \\
& 3a_{126} - a_{63} + 3a_{64} + 4a_{65} + 4a_{66} - 5a_{67} + \\
& 2a_{68} - a_{69} + 3a_{70} + a_{71} - 2a_{73} + 4a_{74} + \\
& a_{76} - a_{77} + a_{78} - a_{79} + a_{80} - 3a_{81} - \\
& a_{82} - 3a_{83} - a_{84} + a_{85} + 6a_{86} - a_{88} + \\
& a_{89} - 7a_{91} + a_{92}
\end{aligned}
$$

$$
a_{189} = \frac{a_{125} + \sqrt{a_{125}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 3a_0 + 5a_2 - 5a_6 + 2a_3 - a_{14} - a_7 - \\
& 5a_8 + a_9 + 5a_{30} + 3a_{15} + a_{16} + 2a_{18} + \\
& a_{19} - a_{21} - 6a_{62} - a_{31} - a_{32} - 2a_{33} - \\
& 4a_{34} - 5a_{35} - a_{36} + a_{37} + a_{38} - a_{39} + \\
& a_{40} + 2a_{41} - 3a_{43} - 5a_{44} + a_{45} - a_{126} - \\
& 3a_{63} - a_{64} + 3a_{65} + 4a_{66} + 4a_{67} - 5a_{68} + \\
& 2a_{69} - a_{70} + 3a_{71} + a_{72} - 2a_{74} + 4a_{75} + \\
& a_{77} - a_{78} + a_{79} - a_{80} + a_{81} - 3a_{82} - \\
& a_{83} - 3a_{84} - a_{85} + a_{86} + 6a_{87} - a_{89} + \\
& a_{90} - 7a_{92} + a_{93}
\end{aligned}
$$

$$
a_{190} = \frac{a_{126} - \sqrt{a_{126}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 3a_0 + 5a_1 - 5a_3 + 2a_4 - a_7 - a_8 - \\
& 5a_9 + a_{10} + 5a_{15} + 3a_{16} + a_{17} + 2a_{19} + \\
& a_{20} - a_{22} - 6a_{31} - a_{32} - a_{33} - 2a_{34} - \\
& 4a_{35} - 5a_{36} - a_{37} + a_{38} + a_{39} - a_{40} +
\end{aligned}
$$

$$
\begin{aligned}
& a_{41} + 2a_{42} - 3a_{44} - 5a_{45} + a_{46} - a_{63} - \\
& 3a_{64} - a_{65} + 3a_{66} + 4a_{67} + 4a_{68} - 5a_{69} + \\
& 2a_{70} - a_{71} + 3a_{72} + a_{73} - 2a_{75} + 4a_{76} + \\
& a_{78} - a_{79} + a_{80} - a_{81} + a_{82} - 3a_{83} - \\
& a_{84} - 3a_{85} - a_{86} + a_{87} + 6a_{88} - a_{90} + \\
& a_{91} - 7a_{93} + a_{94}
\end{aligned}
$$

$$
a_{191} = \frac{a_{63} - \sqrt{a_{63}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 3a_0 + 5a_2 - 5a_4 + 2a_5 - a_8 - a_9 - \\
& 5a_{10} + a_{11} + 5a_{16} + 3a_{17} + a_{18} + 2a_{20} + \\
& a_{21} - a_{23} - 6a_{32} - a_{33} - a_{34} - 2a_{35} - \\
& 4a_{36} - 5a_{37} - a_{38} + a_{39} + a_{40} - a_{41} + \\
& a_{42} + 2a_{43} - 3a_{45} - 5a_{46} + a_{47} - a_{64} - \\
& 3a_{65} - a_{66} + 3a_{67} + 4a_{68} + 4a_{69} - 5a_{70} + \\
& 2a_{71} - a_{72} + 3a_{73} + a_{74} - 2a_{76} + 4a_{77} + \\
& a_{79} - a_{80} + a_{81} - a_{82} + a_{83} - 3a_{84} - \\
& a_{85} - 3a_{86} - a_{87} + a_{88} + 6a_{89} - a_{91} + \\
& a_{92} - 7a_{94} + a_{95}
\end{aligned}
$$

$$
a_{192} = \frac{a_{64} - \sqrt{a_{64}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 3a_0 + 5a_1 - 5a_5 + 2a_6 - a_9 - a_{10} - \\
& 5a_{11} + a_{12} + 5a_{17} + 3a_{18} + a_{19} + 2a_{21} + \\
& a_{22} - a_{24} - 6a_{33} - a_{34} - a_{35} - 2a_{36} - \\
& 4a_{37} - 5a_{38} - a_{39} + a_{40} + a_{41} - a_{42} + \\
& a_{43} + 2a_{44} - 3a_{46} - 5a_{47} + a_{48} - a_{65} - \\
& 3a_{66} - a_{67} + 3a_{68} + 4a_{69} + 4a_{70} - 5a_{71} + \\
& 2a_{72} - a_{73} + 3a_{74} + a_{75} - 2a_{77} + 4a_{78} + \\
& a_{80} - a_{81} + a_{82} - a_{83} + a_{84} - 3a_{85} - \\
& a_{86} - 3a_{87} - a_{88} + a_{89} + 6a_{90} - a_{92} + \\
& a_{93} - 7a_{95} + a_{96}
\end{aligned}
$$

$$
a_{193} = \frac{a_{65} - \sqrt{a_{65}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 3a_0 + 5a_2 - 5a_6 + 2a_3 - a_{10} - a_{11} - \\
& 5a_{12} + a_{13} + 5a_{18} + 3a_{19} + a_{20} + 2a_{22} + \\
& a_{23} - a_{25} - 6a_{34} - a_{35} - a_{36} - 2a_{37} - \\
& 4a_{38} - 5a_{39} - a_{40} + a_{41} + a_{42} - a_{43} + \\
& a_{44} + 2a_{45} - 3a_{47} - 5a_{48} + a_{49} - a_{66} - \\
& 3a_{67} - a_{68} + 3a_{69} + 4a_{70} + 4a_{71} - 5a_{72} + \\
& 2a_{73} - a_{74} + 3a_{75} + a_{76} - 2a_{78} + 4a_{79} + \\
& a_{81} - a_{82} + a_{83} - a_{84} + a_{85} - 3a_{86} - \\
& a_{87} - 3a_{88} - a_{89} + a_{90} + 6a_{91} - a_{93} + \\
& a_{94} - 7a_{96} + a_{97}
\end{aligned}
$$

$$
a_{194} = \frac{a_{66} - \sqrt{a_{66}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 3a_0 + 5a_1 - 5a_3 + 2a_4 - a_{11} - a_{12} - \\
& 5a_{13} + a_{14} + 5a_{19} + 3a_{20} + a_{21} + 2a_{23} + \\
& a_{24} - a_{26} - 6a_{35} - a_{36} - a_{37} - 2a_{38} - \\
& 4a_{39} - 5a_{40} - a_{41} + a_{42} + a_{43} - a_{44} + \\
& a_{45} + 2a_{46} - 3a_{48} - 5a_{49} + a_{50} - a_{67} - \\
& 3a_{68} - a_{69} + 3a_{70} + 4a_{71} + 4a_{72} - 5a_{73} + \\
& 2a_{74} - a_{75} + 3a_{76} + a_{77} - 2a_{79} + 4a_{80} + \\
& a_{82} - a_{83} + a_{84} - a_{85} + a_{86} - 3a_{87} - \\
& a_{88} - 3a_{89} - a_{90} + a_{91} + 6a_{92} - a_{94} + \\
& a_{95} - 7a_{97} + a_{98}
\end{aligned}
$$

$$
a_{195} = \frac{a_{67} + \sqrt{a_{67}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 3a_0 + 5a_2 - 5a_4 + 2a_5 - a_{12} - a_{13} - \\
& 5a_{14} + a_7 + 5a_{20} + 3a_{21} + a_{22} + 2a_{24} + \\
& a_{25} - a_{27} - 6a_{36} - a_{37} - a_{38} - 2a_{39} - \\
& 4a_{40} - 5a_{41} - a_{42} + a_{43} + a_{44} - a_{45} + \\
& a_{46} + 2a_{47} - 3a_{49} - 5a_{50} + a_{51} - a_{68} - \\
& 3a_{69} - a_{70} + 3a_{71} + 4a_{72} + 4a_{73} - 5a_{74} + \\
& 2a_{75} - a_{76} + 3a_{77} + a_{78} - 2a_{80} + 4a_{81} + \\
& a_{83} - a_{84} + a_{85} - a_{86} + a_{87} - 3a_{88} - \\
& a_{89} - 3a_{90} - a_{91} + a_{92} + 6a_{93} - a_{95} + \\
& a_{96} - 7a_{98} + a_{99}
\end{aligned}
$$

$$
a_{196} = \frac{a_{68} - \sqrt{a_{68}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 3a_0 + 5a_1 - 5a_5 + 2a_6 - a_{13} - a_{14} - \\
& 5a_7 + a_8 + 5a_{21} + 3a_{22} + a_{23} + 2a_{25} + \\
& a_{26} - a_{28} - 6a_{37} - a_{38} - a_{39} - 2a_{40} - \\
& 4a_{41} - 5a_{42} - a_{43} + a_{44} + a_{45} - a_{46} + \\
& a_{47} + 2a_{48} - 3a_{50} - 5a_{51} + a_{52} - a_{69} - \\
& 3a_{70} - a_{71} + 3a_{72} + 4a_{73} + 4a_{74} - 5a_{75} + \\
& 2a_{76} - a_{77} + 3a_{78} + a_{79} - 2a_{81} + 4a_{82} + \\
& a_{84} - a_{85} + a_{86} - a_{87} + a_{88} - 3a_{89} - \\
& a_{90} - 3a_{91} - a_{92} + a_{93} + 6a_{94} - a_{96} + \\
& a_{97} - 7a_{99} + a_{100}
\end{aligned}
$$

$$
a_{197} = \frac{a_{69} + \sqrt{a_{69}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 3a_0 + 5a_2 - 5a_6 + 2a_3 - a_{14} - a_7 - \\
& 5a_8 + a_9 + 5a_{22} + 3a_{23} + a_{24} + 2a_{26} + \\
& a_{27} - a_{29} - 6a_{38} - a_{39} - a_{40} - 2a_{41} - \\
& 4a_{42} - 5a_{43} - a_{44} + a_{45} + a_{46} - a_{47} + \\
& a_{48} + 2a_{49} - 3a_{51} - 5a_{52} + a_{53} - a_{70} - \\
& 3a_{71} - a_{72} + 3a_{73} + 4a_{74} + 4a_{75} - 5a_{76} + \\
& 2a_{77} - a_{78} + 3a_{79} + a_{80} - 2a_{82} + 4a_{83} + \\
& a_{85} - a_{86} + a_{87} - a_{88} + a_{89} - 3a_{90} - \\
& a_{91} - 3a_{92} - a_{93} + a_{94} + 6a_{95} - a_{97} + \\
& a_{98} - 7a_{100} + a_{101}
\end{aligned}
$$

$$
a_{198} = \frac{a_{70} - \sqrt{a_{70}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 3a_0 + 5a_1 - 5a_3 + 2a_4 - a_7 - a_8 - \\
& 5a_9 + a_{10} + 5a_{23} + 3a_{24} + a_{25} + 2a_{27} + \\
& a_{28} - a_{30} - 6a_{39} - a_{40} - a_{41} - 2a_{42} - \\
& 4a_{43} - 5a_{44} - a_{45} + a_{46} + a_{47} - a_{48} + \\
& a_{49} + 2a_{50} - 3a_{52} - 5a_{53} + a_{54} - a_{71} - \\
& 3a_{72} - a_{73} + 3a_{74} + 4a_{75} + 4a_{76} - 5a_{77} + \\
& 2a_{78} - a_{79} + 3a_{80} + a_{81} - 2a_{83} + 4a_{84} + \\
& a_{86} - a_{87} + a_{88} - a_{89} + a_{90} - 3a_{91} -
\end{aligned}
$$

$$
\begin{aligned}
& a_{92} - 3a_{93} - a_{94} + a_{95} + 6a_{96} - a_{98} + \\
& a_{99} - 7a_{101} + a_{102} \\
a_{199} &= \frac{a_{71} + \sqrt{a_{71}^2 - 4x}}{2} \\
x &= 3a_0 + 5a_2 - 5a_4 + 2a_5 - a_8 - a_9 - \\
& 5a_{10} + a_{11} + 5a_{24} + 3a_{25} + a_{26} + 2a_{28} + \\
& a_{29} - a_{15} - 6a_{40} - a_{41} - a_{42} - 2a_{43} - \\
& 4a_{44} - 5a_{45} - a_{46} + a_{47} + a_{48} - a_{49} + \\
& a_{50} + 2a_{51} - 3a_{53} - 5a_{54} + a_{55} - a_{72} - \\
& 3a_{73} - a_{74} + 3a_{75} + 4a_{76} + 4a_{77} - 5a_{78} + \\
& 2a_{79} - a_{80} + 3a_{81} + a_{82} - 2a_{84} + 4a_{85} + \\
& a_{87} - a_{88} + a_{89} - a_{90} + a_{91} - 3a_{92} - \\
& a_{93} - 3a_{94} - a_{95} + a_{96} + 6a_{97} - a_{99} + \\
& a_{100} - 7a_{102} + a_{103}
\end{aligned}
$$

$$
\begin{aligned}
a_{200} &= \frac{a_{72} - \sqrt{a_{72}^2 - 4x}}{2} \\
x &= 3a_0 + 5a_1 - 5a_5 + 2a_6 - a_9 - a_{10} - \\
& 5a_{11} + a_{12} + 5a_{25} + 3a_{26} + a_{27} + 2a_{29} + \\
& a_{30} - a_{16} - 6a_{41} - a_{42} - a_{43} - 2a_{44} - \\
& 4a_{45} - 5a_{46} - a_{47} + a_{48} + a_{49} - a_{50} + \\
& a_{51} + 2a_{52} - 3a_{54} - 5a_{55} + a_{56} - a_{73} - \\
& 3a_{74} - a_{75} + 3a_{76} + 4a_{77} + 4a_{78} - 5a_{79} + \\
& 2a_{80} - a_{81} + 3a_{82} + a_{83} - 2a_{85} + 4a_{86} + \\
& a_{88} - a_{89} + a_{90} - a_{91} + a_{92} - 3a_{93} - \\
& a_{94} - 3a_{95} - a_{96} + a_{97} + 6a_{98} - a_{100} + \\
& a_{101} - 7a_{103} + a_{104} \\
a_{201} &= \frac{a_{73} + \sqrt{a_{73}^2 - 4x}}{2} \\
x &= 3a_0 + 5a_2 - 5a_6 + 2a_3 - a_{10} - a_{11} - \\
& 5a_{12} + a_{13} + 5a_{26} + 3a_{27} + a_{28} + 2a_{30} + \\
& a_{15} - a_{17} - 6a_{42} - a_{43} - a_{44} - 2a_{45} - \\
& 4a_{46} - 5a_{47} - a_{48} + a_{49} + a_{50} - a_{51} + \\
& a_{52} + 2a_{53} - 3a_{55} - 5a_{56} + a_{57} - a_{74} - \\
& 3a_{75} - a_{76} + 3a_{77} + 4a_{78} + 4a_{79} - 5a_{80} + \\
& 2a_{81} - a_{82} + 3a_{83} + a_{84} - 2a_{86} + 4a_{87} + \\
& a_{89} - a_{90} + a_{91} - a_{92} + a_{93} - 3a_{94} - \\
& a_{95} - 3a_{96} - a_{97} + a_{98} + 6a_{99} - a_{101} + \\
& a_{102} - 7a_{104} + a_{105} \\
a_{202} &= \frac{a_{74} - \sqrt{a_{74}^2 - 4x}}{2} \\
x &= 3a_0 + 5a_1 - 5a_3 + 2a_4 - a_{11} - a_{12} - \\
& 5a_{13} + a_{14} + 5a_{27} + 3a_{28} + a_{29} + 2a_{15} + \\
& a_{16} - a_{18} - 6a_{43} - a_{44} - a_{45} - 2a_{46} - \\
& 4a_{47} - 5a_{48} - a_{49} + a_{50} + a_{51} - a_{52} + \\
& a_{53} + 2a_{54} - 3a_{56} - 5a_{57} + a_{58} - a_{75} - \\
& 3a_{76} - a_{77} + 3a_{78} + 4a_{79} + 4a_{80} - 5a_{81} + \\
& 2a_{82} - a_{83} + 3a_{84} + a_{85} - 2a_{87} + 4a_{88} + \\
& a_{90} - a_{91} + a_{92} - a_{93} + a_{94} - 3a_{95} - \\
& a_{96} - 3a_{97} - a_{98} + a_{99} + 6a_{100} - a_{102} + \\
& a_{103} - 7a_{105} + a_{106} \\
a_{203} &= \frac{a_{75} + \sqrt{a_{75}^2 - 4x}}{2} \\
x &= 3a_0 + 5a_2 - 5a_4 + 2a_5 - a_{12} - a_{13} - \\
& 5a_{14} + a_7 + 5a_{28} + 3a_{29} + a_{30} + 2a_{16} + \\
& a_{17} - a_{19} - 6a_{44} - a_{45} - a_{46} - 2a_{47} - \\
& 4a_{48} - 5a_{49} - a_{50} + a_{51} + a_{52} - a_{53} + \\
& a_{54} + 2a_{55} - 3a_{57} - 5a_{58} + a_{59} - a_{76} - \\
& 3a_{77} - a_{78} + 3a_{79} + 4a_{80} + 4a_{81} - 5a_{82} + \\
& 2a_{83} - a_{84} + 3a_{85} + a_{86} - 2a_{88} + 4a_{89} + \\
& a_{91} - a_{92} + a_{93} - a_{94} + a_{95} - 3a_{96} - \\
& a_{97} - 3a_{98} - a_{99} + a_{100} + 6a_{101} - a_{103} + \\
& a_{104} - 7a_{106} + a_{107} \\
a_{204} &= \frac{a_{76} + \sqrt{a_{76}^2 - 4x}}{2} \\
x &= 3a_0 + 5a_1 - 5a_5 + 2a_6 - a_{13} - a_{14} - \\
& 5a_7 + a_8 + 5a_{29} + 3a_{30} + a_{15} + 2a_{17} + \\
& a_{18} - a_{20} - 6a_{45} - a_{46} - a_{47} - 2a_{48} - \\
& 4a_{49} - 5a_{50} - a_{51} + a_{52} + a_{53} - a_{54} + \\
& a_{55} + 2a_{56} - 3a_{58} - 5a_{59} + a_{60} - a_{77} - \\
& 3a_{78} - a_{79} + 3a_{80} + 4a_{81} + 4a_{82} - 5a_{83} + \\
& 2a_{84} - a_{85} + 3a_{86} + a_{87} - 2a_{89} + 4a_{90} + \\
& a_{92} - a_{93} + a_{94} - a_{95} + a_{96} - 3a_{97} - \\
& a_{98} - 3a_{99} - a_{100} + a_{101} + 6a_{102} - a_{104} + \\
& a_{105} - 7a_{107} + a_{108} \\
a_{205} &= \frac{a_{77} + \sqrt{a_{77}^2 - 4x}}{2} \\
x &= 3a_0 + 5a_2 - 5a_6 + 2a_3 - a_{14} - a_7 - \\
& 5a_8 + a_9 + 5a_{30} + 3a_{15} + a_{16} + 2a_{18} + \\
& a_{19} - a_{21} - 6a_{46} - a_{47} - a_{48} - 2a_{49} - \\
& 4a_{50} - 5a_{51} - a_{52} + a_{53} + a_{54} - a_{55} + \\
& a_{56} + 2a_{57} - 3a_{59} - 5a_{60} + a_{61} - a_{78} - \\
& 3a_{79} - a_{80} + 3a_{81} + 4a_{82} + 4a_{83} - 5a_{84} + \\
& 2a_{85} - a_{86} + 3a_{87} + a_{88} - 2a_{90} + 4a_{91} + \\
& a_{93} - a_{94} + a_{95} - a_{96} + a_{97} - 3a_{98} - \\
& a_{99} - 3a_{100} - a_{101} + a_{102} + 6a_{103} - a_{105} + \\
& a_{106} - 7a_{108} + a_{109} \\
a_{206} &= \frac{a_{78} - \sqrt{a_{78}^2 - 4x}}{2} \\
x &= 3a_0 + 5a_1 - 5a_3 + 2a_4 - a_7 - a_8 - \\
& 5a_9 + a_{10} + 5a_{15} + 3a_{16} + a_{17} + 2a_{19} + \\
& a_{20} - a_{22} - 6a_{47} - a_{48} - a_{49} - 2a_{50} - \\
& 4a_{51} - 5a_{52} - a_{53} + a_{54} + a_{55} - a_{56} + \\
& a_{57} + 2a_{58} - 3a_{60} - 5a_{61} + a_{62} - a_{79} - \\
& 3a_{80} - a_{81} + 3a_{82} + 4a_{83} + 4a_{84} - 5a_{85} + \\
& 2a_{86} - a_{87} + 3a_{88} + a_{89} - 2a_{91} + 4a_{92} + \\
& a_{94} - a_{95} + a_{96} - a_{97} + a_{98} - 3a_{99} - \\
& a_{100} - 3a_{101} - a_{102} + a_{103} + 6a_{104} - a_{106} + \\
& a_{107} - 7a_{109} + a_{110}
\end{aligned}
$$

$$
\begin{aligned}
a_{207} &= \frac{a_{79} - \sqrt{a_{79}^2 - 4x}}{2} \\
x &= 3a_0 + 5a_2 - 5a_4 + 2a_5 - a_8 - a_9 - \\
&\quad 5a_{10} + a_{11} + 5a_{16} + 3a_{17} + a_{18} + 2a_{20} + \\
&\quad a_{21} - a_{23} - 6a_{48} - a_{49} - a_{50} - 2a_{51} - \\
&\quad 4a_{52} - 5a_{53} - a_{54} + a_{55} + a_{56} - a_{57} + \\
&\quad a_{58} + 2a_{59} - 3a_{61} - 5a_{62} + a_{31} - a_{80} - \\
&\quad 3a_{81} - a_{82} + 3a_{83} + 4a_{84} + 4a_{85} - 5a_{86} + \\
&\quad 2a_{87} - a_{88} + 3a_{89} + a_{90} - 2a_{92} + 4a_{93} + \\
&\quad a_{95} - a_{96} + a_{97} - a_{98} + a_{99} - 3a_{100} - \\
&\quad a_{101} - 3a_{102} - a_{103} + a_{104} + 6a_{105} - a_{107} + \\
&\quad a_{108} - 7a_{110} + a_{111} \\
a_{208} &= \frac{a_{80} - \sqrt{a_{80}^2 - 4x}}{2} \\
x &= 3a_0 + 5a_1 - 5a_5 + 2a_6 - a_9 - a_{10} - \\
&\quad 5a_{11} + a_{12} + 5a_{17} + 3a_{18} + a_{19} + 2a_{21} + \\
&\quad a_{22} - a_{24} - 6a_{49} - a_{50} - a_{51} - 2a_{52} - \\
&\quad 4a_{53} - 5a_{54} - a_{55} + a_{56} + a_{57} - a_{58} + \\
&\quad a_{59} + 2a_{60} - 3a_{62} - 5a_{31} + a_{32} - a_{81} - \\
&\quad 3a_{82} - a_{83} + 3a_{84} + 4a_{85} + 4a_{86} - 5a_{87} + \\
&\quad 2a_{88} - a_{89} + 3a_{90} + a_{91} - 2a_{93} + 4a_{94} + \\
&\quad a_{96} - a_{97} + a_{98} - a_{99} + a_{100} - 3a_{101} - \\
&\quad a_{102} - 3a_{103} - a_{104} + a_{105} + 6a_{106} - a_{108} + \\
&\quad a_{109} - 7a_{111} + a_{112} \\
a_{209} &= \frac{a_{81} - \sqrt{a_{81}^2 - 4x}}{2} \\
x &= 3a_0 + 5a_2 - 5a_6 + 2a_3 - a_{10} - a_{11} - \\
&\quad 5a_{12} + a_{13} + 5a_{18} + 3a_{19} + a_{20} + 2a_{22} + \\
&\quad a_{23} - a_{25} - 6a_{50} - a_{51} - a_{52} - 2a_{53} - \\
&\quad 4a_{54} - 5a_{55} - a_{56} + a_{57} + a_{58} - a_{59} + \\
&\quad a_{60} + 2a_{61} - 3a_{31} - 5a_{32} + a_{33} - a_{82} - \\
&\quad 3a_{83} - a_{84} + 3a_{85} + 4a_{86} + 4a_{87} - 5a_{88} + \\
&\quad 2a_{89} - a_{90} + 3a_{91} + a_{92} - 2a_{94} + 4a_{95} + \\
&\quad a_{97} - a_{98} + a_{99} - a_{100} + a_{101} - 3a_{102} - \\
&\quad a_{103} - 3a_{104} - a_{105} + a_{106} + 6a_{107} - a_{109} + \\
&\quad a_{110} - 7a_{112} + a_{113}
\end{aligned}
$$

$$
\begin{aligned}
a_{210} &= \frac{a_{82} - \sqrt{a_{82}^2 - 4x}}{2} \\
x &= 3a_0 + 5a_1 - 5a_3 + 2a_4 - a_{11} - a_{12} - \\
&\quad 5a_{13} + a_{14} + 5a_{19} + 3a_{20} + a_{21} + 2a_{23} + \\
&\quad a_{24} - a_{26} - 6a_{51} - a_{52} - a_{53} - 2a_{54} - \\
&\quad 4a_{55} - 5a_{56} - a_{57} + a_{58} + a_{59} - a_{60} + \\
&\quad a_{61} + 2a_{62} - 3a_{32} - 5a_{33} + a_{34} - a_{83} - \\
&\quad 3a_{84} - a_{85} + 3a_{86} + 4a_{87} + 4a_{88} - 5a_{89} + \\
&\quad 2a_{90} - a_{91} + 3a_{92} + a_{93} - 2a_{95} + 4a_{96} + \\
&\quad a_{98} - a_{99} + a_{100} - a_{101} + a_{102} - 3a_{103} - \\
&\quad a_{104} - 3a_{105} - a_{106} + a_{107} + 6a_{108} - a_{110} + \\
&\quad a_{111} - 7a_{113} + a_{114}
\end{aligned}
$$

$$
\begin{aligned}
a_{211} &= \frac{a_{83} - \sqrt{a_{83}^2 - 4x}}{2} \\
x &= 3a_0 + 5a_2 - 5a_4 + 2a_5 - a_{12} - a_{13} - \\
&\quad 5a_{14} + a_7 + 5a_{20} + 3a_{21} + a_{22} + 2a_{24} + \\
&\quad a_{25} - a_{27} - 6a_{52} - a_{53} - a_{54} - 2a_{55} - \\
&\quad 4a_{56} - 5a_{57} - a_{58} + a_{59} + a_{60} - a_{61} + \\
&\quad a_{62} + 2a_{31} - 3a_{33} - 5a_{34} + a_{35} - a_{84} - \\
&\quad 3a_{85} - a_{86} + 3a_{87} + 4a_{88} + 4a_{89} - 5a_{90} + \\
&\quad 2a_{91} - a_{92} + 3a_{93} + a_{94} - 2a_{96} + 4a_{97} + \\
&\quad a_{99} - a_{100} + a_{101} - a_{102} + a_{103} - 3a_{104} - \\
&\quad a_{105} - 3a_{106} - a_{107} + a_{108} + 6a_{109} - a_{111} + \\
&\quad a_{112} - 7a_{114} + a_{115} \\
a_{212} &= \frac{a_{84} + \sqrt{a_{84}^2 - 4x}}{2} \\
x &= 3a_0 + 5a_1 - 5a_5 + 2a_6 - a_{13} - a_{14} - \\
&\quad 5a_7 + a_8 + 5a_{21} + 3a_{22} + a_{23} + 2a_{25} + \\
&\quad a_{26} - a_{28} - 6a_{53} - a_{54} - a_{55} - 2a_{56} - \\
&\quad 4a_{57} - 5a_{58} - a_{59} + a_{60} + a_{61} - a_{62} + \\
&\quad a_{31} + 2a_{32} - 3a_{34} - 5a_{35} + a_{36} - a_{85} - \\
&\quad 3a_{86} - a_{87} + 3a_{88} + 4a_{89} + 4a_{90} - 5a_{91} + \\
&\quad 2a_{92} - a_{93} + 3a_{94} + a_{95} - 2a_{97} + 4a_{98} + \\
&\quad a_{100} - a_{101} + a_{102} - a_{103} + a_{104} - 3a_{105} - \\
&\quad a_{106} - 3a_{107} - a_{108} + a_{109} + 6a_{110} - a_{112} + \\
&\quad a_{113} - 7a_{115} + a_{116} \\
a_{213} &= \frac{a_{85} + \sqrt{a_{85}^2 - 4x}}{2} \\
x &= 3a_0 + 5a_2 - 5a_6 + 2a_3 - a_{14} - a_7 - \\
&\quad 5a_8 + a_9 + 5a_{22} + 3a_{23} + a_{24} + 2a_{26} + \\
&\quad a_{27} - a_{29} - 6a_{54} - a_{55} - a_{56} - 2a_{57} - \\
&\quad 4a_{58} - 5a_{59} - a_{60} + a_{61} + a_{62} - a_{31} + \\
&\quad a_{32} + 2a_{33} - 3a_{35} - 5a_{36} + a_{37} - a_{86} - \\
&\quad 3a_{87} - a_{88} + 3a_{89} + 4a_{90} + 4a_{91} - 5a_{92} + \\
&\quad 2a_{93} - a_{94} + 3a_{95} + a_{96} - 2a_{98} + 4a_{99} + \\
&\quad a_{101} - a_{102} + a_{103} - a_{104} + a_{105} - 3a_{106} - \\
&\quad a_{107} - 3a_{108} - a_{109} + a_{110} + 6a_{111} - a_{113} + \\
&\quad a_{114} - 7a_{116} + a_{117} \\
a_{214} &= \frac{a_{86} - \sqrt{a_{86}^2 - 4x}}{2} \\
x &= 3a_0 + 5a_1 - 5a_3 + 2a_4 - a_7 - a_8 - \\
&\quad 5a_9 + a_{10} + 5a_{23} + 3a_{24} + a_{25} + 2a_{27} + \\
&\quad a_{28} - a_{30} - 6a_{55} - a_{56} - a_{57} - 2a_{58} - \\
&\quad 4a_{59} - 5a_{60} - a_{61} + a_{62} + a_{31} - a_{32} + \\
&\quad a_{33} + 2a_{34} - 3a_{36} - 5a_{37} + a_{38} - a_{87} - \\
&\quad 3a_{88} - a_{89} + 3a_{90} + 4a_{91} + 4a_{92} - 5a_{93} + \\
&\quad 2a_{94} - a_{95} + 3a_{96} + a_{97} - 2a_{99} + 4a_{100} + \\
&\quad a_{102} - a_{103} + a_{104} - a_{105} + a_{106} - 3a_{107} - \\
&\quad a_{108} - 3a_{109} - a_{110} + a_{111} + 6a_{112} - a_{114} + \\
&\quad a_{115} - 7a_{117} + a_{118} \\
a_{215} &= \frac{a_{87} + \sqrt{a_{87}^2 - 4x}}{2}
\end{aligned}
$$

$$
\begin{aligned}
x &= 3a_0 + 5a_2 - 5a_4 + 2a_5 - a_8 - a_9 - \\
&\quad 5a_{10} + a_{11} + 5a_{24} + 3a_{25} + a_{26} + 2a_{28} + \\
&\quad a_{29} - a_{15} - 6a_{56} - a_{57} - a_{58} - 2a_{59} - \\
&\quad 4a_{60} - 5a_{61} - a_{62} + a_{31} + a_{32} - a_{33} + \\
&\quad a_{34} + 2a_{35} - 3a_{37} - 5a_{38} + a_{39} - a_{88} - \\
&\quad 3a_{89} - a_{90} + 3a_{91} + 4a_{92} + 4a_{93} - 5a_{94} + \\
&\quad 2a_{95} - a_{96} + 3a_{97} + a_{98} - 2a_{100} + 4a_{101} + \\
&\quad a_{103} - a_{104} + a_{105} - a_{106} + a_{107} - 3a_{108} - \\
&\quad a_{109} - 3a_{110} - a_{111} + a_{112} + 6a_{113} - a_{115} + \\
&\quad a_{116} - 7a_{118} + a_{119} \\
a_{216} &= \frac{a_{88} - \sqrt{a_{88}^2 - 4x}}{2} \\
x &= 3a_0 + 5a_1 - 5a_5 + 2a_6 - a_9 - a_{10} - \\
&\quad 5a_{11} + a_{12} + 5a_{25} + 3a_{26} + a_{27} + 2a_{29} + \\
&\quad a_{30} - a_{16} - 6a_{57} - a_{58} - a_{59} - 2a_{60} - \\
&\quad 4a_{61} - 5a_{62} - a_{31} + a_{32} + a_{33} - a_{34} + \\
&\quad a_{35} + 2a_{36} - 3a_{38} - 5a_{39} + a_{40} - a_{89} - \\
&\quad 3a_{90} - a_{91} + 3a_{92} + 4a_{93} + 4a_{94} - 5a_{95} + \\
&\quad 2a_{96} - a_{97} + 3a_{98} + a_{99} - 2a_{101} + 4a_{102} + \\
&\quad a_{104} - a_{105} + a_{106} - a_{107} + a_{108} - 3a_{109} - \\
&\quad a_{110} - 3a_{111} - a_{112} + a_{113} + 6a_{114} - a_{116} + \\
&\quad a_{117} - 7a_{119} + a_{120} \\
a_{217} &= \frac{a_{89} - \sqrt{a_{89}^2 - 4x}}{2} \\
x &= 3a_0 + 5a_2 - 5a_6 + 2a_3 - a_{10} - a_{11} - \\
&\quad 5a_{12} + a_{13} + 5a_{26} + 3a_{27} + a_{28} + 2a_{30} + \\
&\quad a_{15} - a_{17} - 6a_{58} - a_{59} - a_{60} - 2a_{61} - \\
&\quad 4a_{62} - 5a_{31} - a_{32} + a_{33} + a_{34} - a_{35} + \\
&\quad a_{36} + 2a_{37} - 3a_{39} - 5a_{40} + a_{41} - a_{90} - \\
&\quad 3a_{91} - a_{92} + 3a_{93} + 4a_{94} + 4a_{95} - 5a_{96} + \\
&\quad 2a_{97} - a_{98} + 3a_{99} + a_{100} - 2a_{102} + 4a_{103} + \\
&\quad a_{105} - a_{106} + a_{107} - a_{108} + a_{109} - 3a_{110} - \\
&\quad a_{111} - 3a_{112} - a_{113} + a_{114} + 6a_{115} - a_{117} + \\
&\quad a_{118} - 7a_{120} + a_{121} \\
a_{218} &= \frac{a_{90} - \sqrt{a_{90}^2 - 4x}}{2} \\
x &= 3a_0 + 5a_1 - 5a_3 + 2a_4 - a_{11} - a_{12} - \\
&\quad 5a_{13} + a_{14} + 5a_{27} + 3a_{28} + a_{29} + 2a_{15} + \\
&\quad a_{16} - a_{18} - 6a_{59} - a_{60} - a_{61} - 2a_{62} - \\
&\quad 4a_{31} - 5a_{32} - a_{33} + a_{34} + a_{35} - a_{36} + \\
&\quad a_{37} + 2a_{38} - 3a_{40} - 5a_{41} + a_{42} - a_{91} - \\
&\quad 3a_{92} - a_{93} + 3a_{94} + 4a_{95} + 4a_{96} - 5a_{97} + \\
&\quad 2a_{98} - a_{99} + 3a_{100} + a_{101} - 2a_{103} + 4a_{104} + \\
&\quad a_{106} - a_{107} + a_{108} - a_{109} + a_{110} - 3a_{111} - \\
&\quad a_{112} - 3a_{113} - a_{114} + a_{115} + 6a_{116} - a_{118} + \\
&\quad a_{119} - 7a_{121} + a_{122} \\
a_{219} &= \frac{a_{91} - \sqrt{a_{91}^2 - 4x}}{2} \\
x &= 3a_0 + 5a_2 - 5a_4 + 2a_5 - a_{12} - a_{13} - \\
&\quad 5a_{14} + a_7 + 5a_{28} + 3a_{29} + a_{30} + 2a_{16} + \\
&\quad a_{17} - a_{19} - 6a_{60} - a_{61} - a_{62} - 2a_{31} - \\
&\quad 4a_{32} - 5a_{33} - a_{34} + a_{35} + a_{36} - a_{37} + \\
&\quad a_{38} + 2a_{39} - 3a_{41} - 5a_{42} + a_{43} - a_{92} - \\
&\quad 3a_{93} - a_{94} + 3a_{95} + 4a_{96} + 4a_{97} - 5a_{98} + \\
&\quad 2a_{99} - a_{100} + 3a_{101} + a_{102} - 2a_{104} + 4a_{105} + \\
&\quad a_{107} - a_{108} + a_{109} - a_{110} + a_{111} - 3a_{112} - \\
&\quad a_{113} - 3a_{114} - a_{115} + a_{116} + 6a_{117} - a_{119} + \\
&\quad a_{120} - 7a_{122} + a_{123} \\
a_{220} &= \frac{a_{92} + \sqrt{a_{92}^2 - 4x}}{2} \\
x &= 3a_0 + 5a_1 - 5a_5 + 2a_6 - a_{13} - a_{14} - \\
&\quad 5a_7 + a_8 + 5a_{29} + 3a_{30} + a_{15} + 2a_{17} + \\
&\quad a_{18} - a_{20} - 6a_{61} - a_{62} - a_{31} - 2a_{32} - \\
&\quad 4a_{33} - 5a_{34} - a_{35} + a_{36} + a_{37} - a_{38} + \\
&\quad a_{39} + 2a_{40} - 3a_{42} - 5a_{43} + a_{44} - a_{93} - \\
&\quad 3a_{94} - a_{95} + 3a_{96} + 4a_{97} + 4a_{98} - 5a_{99} + \\
&\quad 2a_{100} - a_{101} + 3a_{102} + a_{103} - 2a_{105} + 4a_{106} + \\
&\quad a_{108} - a_{109} + a_{110} - a_{111} + a_{112} - 3a_{113} - \\
&\quad a_{114} - 3a_{115} - a_{116} + a_{117} + 6a_{118} - a_{120} + \\
&\quad a_{121} - 7a_{123} + a_{124} \\
a_{221} &= \frac{a_{93} - \sqrt{a_{93}^2 - 4x}}{2} \\
x &= 3a_0 + 5a_2 - 5a_6 + 2a_3 - a_{14} - a_7 - \\
&\quad 5a_8 + a_9 + 5a_{30} + 3a_{15} + a_{16} + 2a_{18} + \\
&\quad a_{19} - a_{21} - 6a_{62} - a_{31} - a_{32} - 2a_{33} - \\
&\quad 4a_{34} - 5a_{35} - a_{36} + a_{37} + a_{38} - a_{39} + \\
&\quad a_{40} + 2a_{41} - 3a_{43} - 5a_{44} + a_{45} - a_{94} - \\
&\quad 3a_{95} - a_{96} + 3a_{97} + 4a_{98} + 4a_{99} - 5a_{100} + \\
&\quad 2a_{101} - a_{102} + 3a_{103} + a_{104} - 2a_{106} + 4a_{107} + \\
&\quad a_{109} - a_{110} + a_{111} - a_{112} + a_{113} - 3a_{114} - \\
&\quad a_{115} - 3a_{116} - a_{117} + a_{118} + 6a_{119} - a_{121} + \\
&\quad a_{122} - 7a_{124} + a_{125} \\
a_{222} &= \frac{a_{94} - \sqrt{a_{94}^2 - 4x}}{2} \\
x &= 3a_0 + 5a_1 - 5a_3 + 2a_4 - a_7 - a_8 - \\
&\quad 5a_9 + a_{10} + 5a_{15} + 3a_{16} + a_{17} + 2a_{19} + \\
&\quad a_{20} - a_{22} - 6a_{31} - a_{32} - a_{33} - 2a_{34} - \\
&\quad 4a_{35} - 5a_{36} - a_{37} + a_{38} + a_{39} - a_{40} + \\
&\quad a_{41} + 2a_{42} - 3a_{44} - 5a_{45} + a_{46} - a_{95} - \\
&\quad 3a_{96} - a_{97} + 3a_{98} + 4a_{99} + 4a_{100} - 5a_{101} + \\
&\quad 2a_{102} - a_{103} + 3a_{104} + a_{105} - 2a_{107} + 4a_{108} + \\
&\quad a_{110} - a_{111} + a_{112} - a_{113} + a_{114} - 3a_{115} - \\
&\quad a_{116} - 3a_{117} - a_{118} + a_{119} + 6a_{120} - a_{122} + \\
&\quad a_{123} - 7a_{125} + a_{126} \\
a_{223} &= \frac{a_{95} - \sqrt{a_{95}^2 - 4x}}{2} \\
x &= 3a_0 + 5a_2 - 5a_4 + 2a_5 - a_8 - a_9 - \\
&\quad 5a_{10} + a_{11} + 5a_{16} + 3a_{17} + a_{18} + 2a_{20} +
\end{aligned}
$$

$$
\begin{aligned}
& a_{21} - a_{23} - 6a_{32} - a_{33} - a_{34} - 2a_{35} - \\
& 4a_{36} - 5a_{37} - a_{38} + a_{39} + a_{40} - a_{41} + \\
& a_{42} + 2a_{43} - 3a_{45} - 5a_{46} + a_{47} - a_{96} - \\
& 3a_{97} - a_{98} + 3a_{99} + 4a_{100} + 4a_{101} - 5a_{102} + \\
& 2a_{103} - a_{104} + 3a_{105} + a_{106} - 2a_{108} + 4a_{109} + \\
& a_{111} - a_{112} + a_{113} - a_{114} + a_{115} - 3a_{116} - \\
& a_{117} - 3a_{118} - a_{119} + a_{120} + 6a_{121} - a_{123} + \\
& a_{124} - 7a_{126} + a_{63}
\end{aligned}
$$

$$
a_{224} = \frac{a_{96} - \sqrt{a_{96}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & 3a_0 + 5a_1 - 5a_5 + 2a_6 - a_9 - a_{10} - \\
& 5a_{11} + a_{12} + 5a_{17} + 3a_{18} + a_{19} + 2a_{21} + \\
& a_{22} - a_{24} - 6a_{33} - a_{34} - a_{35} - 2a_{36} - \\
& 4a_{37} - 5a_{38} - a_{39} + a_{40} + a_{41} - a_{42} + \\
& a_{43} + 2a_{44} - 3a_{46} - 5a_{47} + a_{48} - a_{97} - \\
& 3a_{98} - a_{99} + 3a_{100} + 4a_{101} + 4a_{102} - 5a_{103} + \\
& 2a_{104} - a_{105} + 3a_{106} + a_{107} - 2a_{109} + 4a_{110} + \\
& a_{112} - a_{113} + a_{114} - a_{115} + a_{116} - 3a_{117} - \\
& a_{118} - 3a_{119} - a_{120} + a_{121} + 6a_{122} - a_{124} + \\
& a_{125} - 7a_{63} + a_{64}
\end{aligned}
$$

$$
a_{225} = \frac{a_{97} + \sqrt{a_{97}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & 3a_0 + 5a_2 - 5a_6 + 2a_3 - a_{10} - a_{11} - \\
& 5a_{12} + a_{13} + 5a_{18} + 3a_{19} + a_{20} + 2a_{22} + \\
& a_{23} - a_{25} - 6a_{34} - a_{35} - a_{36} - 2a_{37} - \\
& 4a_{38} - 5a_{39} - a_{40} + a_{41} + a_{42} - a_{43} + \\
& a_{44} + 2a_{45} - 3a_{47} - 5a_{48} + a_{49} - a_{98} - \\
& 3a_{99} - a_{100} + 3a_{101} + 4a_{102} + 4a_{103} - 5a_{104} + \\
& 2a_{105} - a_{106} + 3a_{107} + a_{108} - 2a_{110} + 4a_{111} + \\
& a_{113} - a_{114} + a_{115} - a_{116} + a_{117} - 3a_{118} - \\
& a_{119} - 3a_{120} - a_{121} + a_{122} + 6a_{123} - a_{125} + \\
& a_{126} - 7a_{64} + a_{65}
\end{aligned}
$$

$$
a_{226} = \frac{a_{98} - \sqrt{a_{98}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & 3a_0 + 5a_1 - 5a_3 + 2a_4 - a_{11} - a_{12} - \\
& 5a_{13} + a_{14} + 5a_{19} + 3a_{20} + a_{21} + 2a_{23} + \\
& a_{24} - a_{26} - 6a_{35} - a_{36} - a_{37} - 2a_{38} - \\
& 4a_{39} - 5a_{40} - a_{41} + a_{42} + a_{43} - a_{44} + \\
& a_{45} + 2a_{46} - 3a_{48} - 5a_{49} + a_{50} - a_{99} - \\
& 3a_{100} - a_{101} + 3a_{102} + 4a_{103} + 4a_{104} - 5a_{105} + \\
& 2a_{106} - a_{107} + 3a_{108} + a_{109} - 2a_{111} + 4a_{112} + \\
& a_{114} - a_{115} + a_{116} - a_{117} + a_{118} - 3a_{119} - \\
& a_{120} - 3a_{121} - a_{122} + a_{123} + 6a_{124} - a_{126} + \\
& a_{63} - 7a_{65} + a_{66}
\end{aligned}
$$

$$
a_{227} = \frac{a_{99} - \sqrt{a_{99}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & 3a_0 + 5a_2 - 5a_4 + 2a_5 - a_{12} - a_{13} - \\
& 5a_{14} + a_7 + 5a_{20} + 3a_{21} + a_{22} + 2a_{24} + \\
& a_{25} - a_{27} - 6a_{36} - a_{37} - a_{38} - 2a_{39} - \\
& 4a_{40} - 5a_{41} - a_{42} + a_{43} + a_{44} - a_{45} + \\
& a_{46} + 2a_{47} - 3a_{49} - 5a_{50} + a_{51} - a_{100} - \\
& 3a_{101} - a_{102} + 3a_{103} + 4a_{104} + 4a_{105} - 5a_{106} + \\
& 2a_{107} - a_{108} + 3a_{109} + a_{110} - 2a_{112} + 4a_{113} + \\
& a_{115} - a_{116} + a_{117} - a_{118} + a_{119} - 3a_{120} - \\
& a_{121} - 3a_{122} - a_{123} + a_{124} + 6a_{125} - a_{63} + \\
& a_{64} - 7a_{66} + a_{67}
\end{aligned}
$$

$$
a_{228} = \frac{a_{100} + \sqrt{a_{100}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & 3a_0 + 5a_1 - 5a_5 + 2a_6 - a_{13} - a_{14} - \\
& 5a_7 + a_8 + 5a_{21} + 3a_{22} + a_{23} + 2a_{25} + \\
& a_{26} - a_{28} - 6a_{37} - a_{38} - a_{39} - 2a_{40} - \\
& 4a_{41} - 5a_{42} - a_{43} + a_{44} + a_{45} - a_{46} + \\
& a_{47} + 2a_{48} - 3a_{50} - 5a_{51} + a_{52} - a_{101} - \\
& 3a_{102} - a_{103} + 3a_{104} + 4a_{105} + 4a_{106} - 5a_{107} + \\
& 2a_{108} - a_{109} + 3a_{110} + a_{111} - 2a_{113} + 4a_{114} + \\
& a_{116} - a_{117} + a_{118} - a_{119} + a_{120} - 3a_{121} - \\
& a_{122} - 3a_{123} - a_{124} + a_{125} + 6a_{126} - a_{64} + \\
& a_{65} - 7a_{67} + a_{68}
\end{aligned}
$$

$$
a_{229} = \frac{a_{101} - \sqrt{a_{101}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & 3a_0 + 5a_2 - 5a_6 + 2a_3 - a_{14} - a_7 - \\
& 5a_8 + a_9 + 5a_{22} + 3a_{23} + a_{24} + 2a_{26} + \\
& a_{27} - a_{29} - 6a_{38} - a_{39} - a_{40} - 2a_{41} - \\
& 4a_{42} - 5a_{43} - a_{44} + a_{45} + a_{46} - a_{47} + \\
& a_{48} + 2a_{49} - 3a_{51} - 5a_{52} + a_{53} - a_{102} - \\
& 3a_{103} - a_{104} + 3a_{105} + 4a_{106} + 4a_{107} - 5a_{108} + \\
& 2a_{109} - a_{110} + 3a_{111} + a_{112} - 2a_{114} + 4a_{115} + \\
& a_{117} - a_{118} + a_{119} - a_{120} + a_{121} - 3a_{122} - \\
& a_{123} - 3a_{124} - a_{125} + a_{126} + 6a_{63} - a_{65} + \\
& a_{66} - 7a_{68} + a_{69}
\end{aligned}
$$

$$
a_{230} = \frac{a_{102} - \sqrt{a_{102}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & 3a_0 + 5a_1 - 5a_3 + 2a_4 - a_7 - a_8 - \\
& 5a_9 + a_{10} + 5a_{23} + 3a_{24} + a_{25} + 2a_{27} + \\
& a_{28} - a_{30} - 6a_{39} - a_{40} - a_{41} - 2a_{42} - \\
& 4a_{43} - 5a_{44} - a_{45} + a_{46} + a_{47} - a_{48} + \\
& a_{49} + 2a_{50} - 3a_{52} - 5a_{53} + a_{54} - a_{103} - \\
& 3a_{104} - a_{105} + 3a_{106} + 4a_{107} + 4a_{108} - 5a_{109} + \\
& 2a_{110} - a_{111} + 3a_{112} + a_{113} - 2a_{115} + 4a_{116} + \\
& a_{118} - a_{119} + a_{120} - a_{121} + a_{122} - 3a_{123} - \\
& a_{124} - 3a_{125} - a_{126} + a_{63} + 6a_{64} - a_{66} + \\
& a_{67} - 7a_{69} + a_{70}
\end{aligned}
$$

$$
a_{231} = \frac{a_{103} + \sqrt{a_{103}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & 3a_0 + 5a_2 - 5a_4 + 2a_5 - a_8 - a_9 - \\
& 5a_{10} + a_{11} + 5a_{24} + 3a_{25} + a_{26} + 2a_{28} + \\
& a_{29} - a_{15} - 6a_{40} - a_{41} - a_{42} - 2a_{43} - \\
& 4a_{44} - 5a_{45} - a_{46} + a_{47} + a_{48} - a_{49} +
\end{aligned}
$$

$$
\begin{aligned}
& a_{50} + 2a_{51} - 3a_{53} - 5a_{54} + a_{55} - a_{104} - \\
& 3a_{105} - a_{106} + 3a_{107} + 4a_{108} + 4a_{109} - 5a_{110} + \\
& 2a_{111} - a_{112} + 3a_{113} + a_{114} - 2a_{116} + 4a_{117} + \\
& a_{119} - a_{120} + a_{121} - a_{122} + a_{123} - 3a_{124} - \\
& a_{125} - 3a_{126} - a_{63} + a_{64} + 6a_{65} - a_{67} + \\
& a_{68} - 7a_{70} + a_{71} \\
a_{232} &= \frac{a_{104} - \sqrt{a_{104}^2 - 4x}}{2} \\
x &= 3a_0 + 5a_1 - 5a_5 + 2a_6 - a_9 - a_{10} - \\
& 5a_{11} + a_{12} + 5a_{25} + 3a_{26} + a_{27} + 2a_{29} + \\
& a_{30} - a_{16} - 6a_{41} - a_{42} - a_{43} - 2a_{44} - \\
& 4a_{45} - 5a_{46} - a_{47} + a_{48} + a_{49} - a_{50} + \\
& a_{51} + 2a_{52} - 3a_{54} - 5a_{55} + a_{56} - a_{105} - \\
& 3a_{106} - a_{107} + 3a_{108} + 4a_{109} + 4a_{110} - 5a_{111} + \\
& 2a_{112} - a_{113} + 3a_{114} + a_{115} - 2a_{117} + 4a_{118} + \\
& a_{120} - a_{121} + a_{122} - a_{123} + a_{124} - 3a_{125} - \\
& a_{126} - 3a_{63} - a_{64} + a_{65} + 6a_{66} - a_{68} + \\
& a_{69} - 7a_{71} + a_{72} \\
a_{233} &= \frac{a_{105} + \sqrt{a_{105}^2 - 4x}}{2} \\
x &= 3a_0 + 5a_2 - 5a_6 + 2a_3 - a_{10} - a_{11} - \\
& 5a_{12} + a_{13} + 5a_{26} + 3a_{27} + a_{28} + 2a_{30} + \\
& a_{15} - a_{17} - 6a_{42} - a_{43} - a_{44} - 2a_{45} - \\
& 4a_{46} - 5a_{47} - a_{48} + a_{49} + a_{50} - a_{51} + \\
& a_{52} + 2a_{53} - 3a_{55} - 5a_{56} + a_{57} - a_{106} - \\
& 3a_{107} - a_{108} + 3a_{109} + 4a_{110} + 4a_{111} - 5a_{112} + \\
& 2a_{113} - a_{114} + 3a_{115} + a_{116} - 2a_{118} + 4a_{119} + \\
& a_{121} - a_{122} + a_{123} - a_{124} + a_{125} - 3a_{126} - \\
& a_{63} - 3a_{64} - a_{65} + a_{66} + 6a_{67} - a_{69} + \\
& a_{70} - 7a_{72} + a_{73} \\
a_{234} &= \frac{a_{106} + \sqrt{a_{106}^2 - 4x}}{2} \\
x &= 3a_0 + 5a_1 - 5a_3 + 2a_4 - a_{11} - a_{12} - \\
& 5a_{13} + a_{14} + 5a_{27} + 3a_{28} + a_{29} + 2a_{15} + \\
& a_{16} - a_{18} - 6a_{43} - a_{44} - a_{45} - 2a_{46} - \\
& 4a_{47} - 5a_{48} - a_{49} + a_{50} + a_{51} - a_{52} + \\
& a_{53} + 2a_{54} - 3a_{56} - 5a_{57} + a_{58} - a_{107} - \\
& 3a_{108} - a_{109} + 3a_{110} + 4a_{111} + 4a_{112} - 5a_{113} + \\
& 2a_{114} - a_{115} + 3a_{116} + a_{117} - 2a_{119} + 4a_{120} + \\
& a_{122} - a_{123} + a_{124} - a_{125} + a_{126} - 3a_{63} - \\
& a_{64} - 3a_{65} - a_{66} + a_{67} + 6a_{68} - a_{70} + \\
& a_{71} - 7a_{73} + a_{74} \\
a_{235} &= \frac{a_{107} - \sqrt{a_{107}^2 - 4x}}{2} \\
x &= 3a_0 + 5a_2 - 5a_4 + 2a_5 - a_{12} - a_{13} - \\
& 5a_{14} + a_7 + 5a_{28} + 3a_{29} + a_{30} + 2a_{16} + \\
& a_{17} - a_{19} - 6a_{44} - a_{45} - a_{46} - 2a_{47} - \\
& 4a_{48} - 5a_{49} - a_{50} + a_{51} + a_{52} - a_{53} + \\
& a_{54} + 2a_{55} - 3a_{57} - 5a_{58} + a_{59} - a_{108} - \\
& 3a_{109} - a_{110} + 3a_{111} + 4a_{112} + 4a_{113} - 5a_{114} + \\
& 2a_{115} - a_{116} + 3a_{117} + a_{118} - 2a_{120} + 4a_{121} + \\
& a_{123} - a_{124} + a_{125} - a_{126} + a_{63} - 3a_{64} - \\
& a_{65} - 3a_{66} - a_{67} + a_{68} + 6a_{69} - a_{71} + \\
& a_{72} - 7a_{74} + a_{75} \\
a_{236} &= \frac{a_{108} - \sqrt{a_{108}^2 - 4x}}{2} \\
x &= 3a_0 + 5a_1 - 5a_5 + 2a_6 - a_{13} - a_{14} - \\
& 5a_7 + a_8 + 5a_{29} + 3a_{30} + a_{15} + 2a_{17} + \\
& a_{18} - a_{20} - 6a_{45} - a_{46} - a_{47} - 2a_{48} - \\
& 4a_{49} - 5a_{50} - a_{51} + a_{52} + a_{53} - a_{54} + \\
& a_{55} + 2a_{56} - 3a_{58} - 5a_{59} + a_{60} - a_{109} - \\
& 3a_{110} - a_{111} + 3a_{112} + 4a_{113} + 4a_{114} - 5a_{115} + \\
& 2a_{116} - a_{117} + 3a_{118} + a_{119} - 2a_{121} + 4a_{122} + \\
& a_{124} - a_{125} + a_{126} - a_{63} + a_{64} - 3a_{65} - \\
& a_{66} - 3a_{67} - a_{68} + a_{69} + 6a_{70} - a_{72} + \\
& a_{73} - 7a_{75} + a_{76} \\
a_{237} &= \frac{a_{109} + \sqrt{a_{109}^2 - 4x}}{2} \\
x &= 3a_0 + 5a_2 - 5a_6 + 2a_3 - a_{14} - a_7 - \\
& 5a_8 + a_9 + 5a_{30} + 3a_{15} + a_{16} + 2a_{18} + \\
& a_{19} - a_{21} - 6a_{46} - a_{47} - a_{48} - 2a_{49} - \\
& 4a_{50} - 5a_{51} - a_{52} + a_{53} + a_{54} - a_{55} + \\
& a_{56} + 2a_{57} - 3a_{59} - 5a_{60} + a_{61} - a_{110} - \\
& 3a_{111} - a_{112} + 3a_{113} + 4a_{114} + 4a_{115} - 5a_{116} + \\
& 2a_{117} - a_{118} + 3a_{119} + a_{120} - 2a_{122} + 4a_{123} + \\
& a_{125} - a_{126} + a_{63} - a_{64} + a_{65} - 3a_{66} - \\
& a_{67} - 3a_{68} - a_{69} + a_{70} + 6a_{71} - a_{73} + \\
& a_{74} - 7a_{76} + a_{77} \\
a_{238} &= \frac{a_{110} - \sqrt{a_{110}^2 - 4x}}{2} \\
x &= 3a_0 + 5a_1 - 5a_3 + 2a_4 - a_7 - a_8 - \\
& 5a_9 + a_{10} + 5a_{15} + 3a_{16} + a_{17} + 2a_{19} + \\
& a_{20} - a_{22} - 6a_{47} - a_{48} - a_{49} - 2a_{50} - \\
& 4a_{51} - 5a_{52} - a_{53} + a_{54} + a_{55} - a_{56} + \\
& a_{57} + 2a_{58} - 3a_{60} - 5a_{61} + a_{62} - a_{111} - \\
& 3a_{112} - a_{113} + 3a_{114} + 4a_{115} + 4a_{116} - 5a_{117} + \\
& 2a_{118} - a_{119} + 3a_{120} + a_{121} - 2a_{123} + 4a_{124} + \\
& a_{126} - a_{63} + a_{64} - a_{65} + a_{66} - 3a_{67} - \\
& a_{68} - 3a_{69} - a_{70} + a_{71} + 6a_{72} - a_{74} + \\
& a_{75} - 7a_{77} + a_{78} \\
a_{239} &= \frac{a_{111} + \sqrt{a_{111}^2 - 4x}}{2} \\
x &= 3a_0 + 5a_2 - 5a_4 + 2a_5 - a_8 - a_9 - \\
& 5a_{10} + a_{11} + 5a_{16} + 3a_{17} + a_{18} + 2a_{20} + \\
& a_{21} - a_{23} - 6a_{48} - a_{49} - a_{50} - 2a_{51} - \\
& 4a_{52} - 5a_{53} - a_{54} + a_{55} + a_{56} - a_{57} + \\
& a_{58} + 2a_{59} - 3a_{61} - 5a_{62} + a_{31} - a_{112} - \\
& 3a_{113} - a_{114} + 3a_{115} + 4a_{116} + 4a_{117} - 5a_{118} + \\
& 2a_{119} - a_{120} + 3a_{121} + a_{122} - 2a_{124} + 4a_{125} + \\
& a_{63} - a_{64} + a_{65} - a_{66} + a_{67} - 3a_{68} -
\end{aligned}
$$

$$
\begin{aligned}
& a_{69} - 3a_{70} - a_{71} + a_{72} + 6a_{73} - a_{75} + \\
& a_{76} - 7a_{78} + a_{79}
\end{aligned}
$$

$$
\begin{aligned}
a_{240} &= \frac{a_{112} - \sqrt{a_{112}^2 - 4x}}{2} \\
x &= 3a_0 + 5a_1 - 5a_5 + 2a_6 - a_9 - a_{10} - \\
& 5a_{11} + a_{12} + 5a_{17} + 3a_{18} + a_{19} + 2a_{21} + \\
& a_{22} - a_{24} - 6a_{49} - a_{50} - a_{51} - 2a_{52} - \\
& 4a_{53} - 5a_{54} - a_{55} + a_{56} + a_{57} - a_{58} + \\
& a_{59} + 2a_{60} - 3a_{62} - 5a_{31} + a_{32} - a_{113} - \\
& 3a_{114} - a_{115} + 3a_{116} + 4a_{117} + 4a_{118} - 5a_{119} + \\
& 2a_{120} - a_{121} + 3a_{122} + a_{123} - 2a_{125} + 4a_{126} + \\
& a_{64} - a_{65} + a_{66} - a_{67} + a_{68} - 3a_{69} - \\
& a_{70} - 3a_{71} - a_{72} + a_{73} + 6a_{74} - a_{76} + \\
& a_{77} - 7a_{79} + a_{80} \\
a_{241} &= \frac{a_{113} - \sqrt{a_{113}^2 - 4x}}{2} \\
x &= 3a_0 + 5a_2 - 5a_6 + 2a_3 - a_{10} - a_{11} - \\
& 5a_{12} + a_{13} + 5a_{18} + 3a_{19} + a_{20} + 2a_{22} + \\
& a_{23} - a_{25} - 6a_{50} - a_{51} - a_{52} - 2a_{53} - \\
& 4a_{54} - 5a_{55} - a_{56} + a_{57} + a_{58} - a_{59} + \\
& a_{60} + 2a_{61} - 3a_{31} - 5a_{32} + a_{33} - a_{114} - \\
& 3a_{115} - a_{116} + 3a_{117} + 4a_{118} + 4a_{119} - 5a_{120} + \\
& 2a_{121} - a_{122} + 3a_{123} + a_{124} - 2a_{126} + 4a_{63} + \\
& a_{65} - a_{66} + a_{67} - a_{68} + a_{69} - 3a_{70} - \\
& a_{71} - 3a_{72} - a_{73} + a_{74} + 6a_{75} - a_{77} + \\
& a_{78} - 7a_{80} + a_{81} \\
a_{242} &= \frac{a_{114} + \sqrt{a_{114}^2 - 4x}}{2} \\
x &= 3a_0 + 5a_1 - 5a_3 + 2a_4 - a_{11} - a_{12} - \\
& 5a_{13} + a_{14} + 5a_{19} + 3a_{20} + a_{21} + 2a_{23} + \\
& a_{24} - a_{26} - 6a_{51} - a_{52} - a_{53} - 2a_{54} - \\
& 4a_{55} - 5a_{56} - a_{57} + a_{58} + a_{59} - a_{60} + \\
& a_{61} + 2a_{62} - 3a_{32} - 5a_{33} + a_{34} - a_{115} - \\
& 3a_{116} - a_{117} + 3a_{118} + 4a_{119} + 4a_{120} - 5a_{121} + \\
& 2a_{122} - a_{123} + 3a_{124} + a_{125} - 2a_{63} + 4a_{64} + \\
& a_{66} - a_{67} + a_{68} - a_{69} + a_{70} - 3a_{71} - \\
& a_{72} - 3a_{73} - a_{74} + a_{75} + 6a_{76} - a_{78} + \\
& a_{79} - 7a_{81} + a_{82} \\
a_{243} &= \frac{a_{115} + \sqrt{a_{115}^2 - 4x}}{2} \\
x &= 3a_0 + 5a_2 - 5a_4 + 2a_5 - a_{12} - a_{13} - \\
& 5a_{14} + a_7 + 5a_{20} + 3a_{21} + a_{22} + 2a_{24} + \\
& a_{25} - a_{27} - 6a_{52} - a_{53} - a_{54} - 2a_{55} - \\
& 4a_{56} - 5a_{57} - a_{58} + a_{59} + a_{60} - a_{61} + \\
& a_{62} + 2a_{31} - 3a_{33} - 5a_{34} + a_{35} - a_{116} - \\
& 3a_{117} - a_{118} + 3a_{119} + 4a_{120} + 4a_{121} - 5a_{122} + \\
& 2a_{123} - a_{124} + 3a_{125} + a_{126} - 2a_{64} + 4a_{65} + \\
& a_{67} - a_{68} + a_{69} - a_{70} + a_{71} - 3a_{72} - \\
& a_{73} - 3a_{74} - a_{75} + a_{76} + 6a_{77} - a_{79} + \\
& a_{80} - 7a_{82} + a_{83} \\
a_{244} &= \frac{a_{116} + \sqrt{a_{116}^2 - 4x}}{2} \\
x &= 3a_0 + 5a_1 - 5a_5 + 2a_6 - a_{13} - a_{14} - \\
& 5a_7 + a_8 + 5a_{21} + 3a_{22} + a_{23} + 2a_{25} + \\
& a_{26} - a_{28} - 6a_{53} - a_{54} - a_{55} - 2a_{56} - \\
& 4a_{57} - 5a_{58} - a_{59} + a_{60} + a_{61} - a_{62} + \\
& a_{31} + 2a_{32} - 3a_{34} - 5a_{35} + a_{36} - a_{117} - \\
& 3a_{118} - a_{119} + 3a_{120} + 4a_{121} + 4a_{122} - 5a_{123} + \\
& 2a_{124} - a_{125} + 3a_{126} + a_{63} - 2a_{65} + 4a_{66} + \\
& a_{68} - a_{69} + a_{70} - a_{71} + a_{72} - 3a_{73} - \\
& a_{74} - 3a_{75} - a_{76} + a_{77} + 6a_{78} - a_{80} + \\
& a_{81} - 7a_{83} + a_{84} \\
a_{245} &= \frac{a_{117} + \sqrt{a_{117}^2 - 4x}}{2} \\
x &= 3a_0 + 5a_2 - 5a_6 + 2a_3 - a_{14} - a_7 - \\
& 5a_8 + a_9 + 5a_{22} + 3a_{23} + a_{24} + 2a_{26} + \\
& a_{27} - a_{29} - 6a_{54} - a_{55} - a_{56} - 2a_{57} - \\
& 4a_{58} - 5a_{59} - a_{60} + a_{61} + a_{62} - a_{31} + \\
& a_{32} + 2a_{33} - 3a_{35} - 5a_{36} + a_{37} - a_{118} - \\
& 3a_{119} - a_{120} + 3a_{121} + 4a_{122} + 4a_{123} - 5a_{124} + \\
& 2a_{125} - a_{126} + 3a_{63} + a_{64} - 2a_{66} + 4a_{67} + \\
& a_{69} - a_{70} + a_{71} - a_{72} + a_{73} - 3a_{74} - \\
& a_{75} - 3a_{76} - a_{77} + a_{78} + 6a_{79} - a_{81} + \\
& a_{82} - 7a_{84} + a_{85} \\
a_{246} &= \frac{a_{118} + \sqrt{a_{118}^2 - 4x}}{2} \\
x &= 3a_0 + 5a_1 - 5a_3 + 2a_4 - a_7 - a_8 - \\
& 5a_9 + a_{10} + 5a_{23} + 3a_{24} + a_{25} + 2a_{27} + \\
& a_{28} - a_{30} - 6a_{55} - a_{56} - a_{57} - 2a_{58} - \\
& 4a_{59} - 5a_{60} - a_{61} + a_{62} + a_{31} - a_{32} + \\
& a_{33} + 2a_{34} - 3a_{36} - 5a_{37} + a_{38} - a_{119} - \\
& 3a_{120} - a_{121} + 3a_{122} + 4a_{123} + 4a_{124} - 5a_{125} + \\
& 2a_{126} - a_{63} + 3a_{64} + a_{65} - 2a_{67} + 4a_{68} + \\
& a_{70} - a_{71} + a_{72} - a_{73} + a_{74} - 3a_{75} - \\
& a_{76} - 3a_{77} - a_{78} + a_{79} + 6a_{80} - a_{82} + \\
& a_{83} - 7a_{85} + a_{86} \\
a_{247} &= \frac{a_{119} - \sqrt{a_{119}^2 - 4x}}{2} \\
x &= 3a_0 + 5a_2 - 5a_4 + 2a_5 - a_8 - a_9 - \\
& 5a_{10} + a_{11} + 5a_{24} + 3a_{25} + a_{26} + 2a_{28} + \\
& a_{29} - a_{15} - 6a_{56} - a_{57} - a_{58} - 2a_{59} - \\
& 4a_{60} - 5a_{61} - a_{62} + a_{31} + a_{32} - a_{33} + \\
& a_{34} + 2a_{35} - 3a_{37} - 5a_{38} + a_{39} - a_{120} - \\
& 3a_{121} - a_{122} + 3a_{123} + 4a_{124} + 4a_{125} - 5a_{126} + \\
& 2a_{63} - a_{64} + 3a_{65} + a_{66} - 2a_{68} + 4a_{69} + \\
& a_{71} - a_{72} + a_{73} - a_{74} + a_{75} - 3a_{76} - \\
& a_{77} - 3a_{78} - a_{79} + a_{80} + 6a_{81} - a_{83} + \\
& a_{84} - 7a_{86} + a_{87}
\end{aligned}
$$

$$
\begin{aligned}
a_{248} &= \frac{a_{120} - \sqrt{a_{120}^2 - 4x}}{2} \\
x &= 3a_0 + 5a_1 - 5a_5 + 2a_6 - a_9 - a_{10} - \\
&\quad 5a_{11} + a_{12} + 5a_{25} + 3a_{26} + a_{27} + 2a_{29} + \\
&\quad a_{30} - a_{16} - 6a_{57} - a_{58} - a_{59} - 2a_{60} - \\
&\quad 4a_{61} - 5a_{62} - a_{31} + a_{32} + a_{33} - a_{34} + \\
&\quad a_{35} + 2a_{36} - 3a_{38} - 5a_{39} + a_{40} - a_{121} - \\
&\quad 3a_{122} - a_{123} + 3a_{124} + 4a_{125} + 4a_{126} - 5a_{63} + \\
&\quad 2a_{64} - a_{65} + 3a_{66} + a_{67} - 2a_{69} + 4a_{70} + \\
&\quad a_{72} - a_{73} + a_{74} - a_{75} + a_{76} - 3a_{77} - \\
&\quad a_{78} - 3a_{79} - a_{80} + a_{81} + 6a_{82} - a_{84} + \\
&\quad a_{85} - 7a_{87} + a_{88} \\
a_{249} &= \frac{a_{121} - \sqrt{a_{121}^2 - 4x}}{2} \\
x &= 3a_0 + 5a_2 - 5a_6 + 2a_3 - a_{10} - a_{11} - \\
&\quad 5a_{12} + a_{13} + 5a_{26} + 3a_{27} + a_{28} + 2a_{30} + \\
&\quad a_{15} - a_{17} - 6a_{58} - a_{59} - a_{60} - 2a_{61} - \\
&\quad 4a_{62} - 5a_{31} - a_{32} + a_{33} + a_{34} - a_{35} + \\
&\quad a_{36} + 2a_{37} - 3a_{39} - 5a_{40} + a_{41} - a_{122} - \\
&\quad 3a_{123} - a_{124} + 3a_{125} + 4a_{126} + 4a_{63} - 5a_{64} + \\
&\quad 2a_{65} - a_{66} + 3a_{67} + a_{68} - 2a_{70} + 4a_{71} + \\
&\quad a_{73} - a_{74} + a_{75} - a_{76} + a_{77} - 3a_{78} - \\
&\quad a_{79} - 3a_{80} - a_{81} + a_{82} + 6a_{83} - a_{85} + \\
&\quad a_{86} - 7a_{88} + a_{89}
\end{aligned}
$$

$$
\begin{aligned}
a_{250} &= \frac{a_{122} + \sqrt{a_{122}^2 - 4x}}{2} \\
x &= 3a_0 + 5a_1 - 5a_3 + 2a_4 - a_{11} - a_{12} - \\
&\quad 5a_{13} + a_{14} + 5a_{27} + 3a_{28} + a_{29} + 2a_{15} + \\
&\quad a_{16} - a_{18} - 6a_{59} - a_{60} - a_{61} - 2a_{62} - \\
&\quad 4a_{31} - 5a_{32} - a_{33} + a_{34} + a_{35} - a_{36} + \\
&\quad a_{37} + 2a_{38} - 3a_{40} - 5a_{41} + a_{42} - a_{123} - \\
&\quad 3a_{124} - a_{125} + 3a_{126} + 4a_{63} + 4a_{64} - 5a_{65} + \\
&\quad 2a_{66} - a_{67} + 3a_{68} + a_{69} - 2a_{71} + 4a_{72} + \\
&\quad a_{74} - a_{75} + a_{76} - a_{77} + a_{78} - 3a_{79} - \\
&\quad a_{80} - 3a_{81} - a_{82} + a_{83} + 6a_{84} - a_{86} + \\
&\quad a_{87} - 7a_{89} + a_{90} \\
a_{251} &= \frac{a_{123} + \sqrt{a_{123}^2 - 4x}}{2} \\
x &= 3a_0 + 5a_2 - 5a_4 + 2a_5 - a_{12} - a_{13} - \\
&\quad 5a_{14} + a_7 + 5a_{28} + 3a_{29} + a_{30} + 2a_{16} + \\
&\quad a_{17} - a_{19} - 6a_{60} - a_{61} - a_{62} - 2a_{31} - \\
&\quad 4a_{32} - 5a_{33} - a_{34} + a_{35} + a_{36} - a_{37} + \\
&\quad a_{38} + 2a_{39} - 3a_{41} - 5a_{42} + a_{43} - a_{124} - \\
&\quad 3a_{125} - a_{126} + 3a_{63} + 4a_{64} + 4a_{65} - 5a_{66} + \\
&\quad 2a_{67} - a_{68} + 3a_{69} + a_{70} - 2a_{72} + 4a_{73} + \\
&\quad a_{75} - a_{76} + a_{77} - a_{78} + a_{79} - 3a_{80} - \\
&\quad a_{81} - 3a_{82} - a_{83} + a_{84} + 6a_{85} - a_{87} + \\
&\quad a_{88} - 7a_{90} + a_{91}
\end{aligned}
$$

$$
\begin{aligned}
a_{252} &= \frac{a_{124} - \sqrt{a_{124}^2 - 4x}}{2} \\
x &= 3a_0 + 5a_1 - 5a_5 + 2a_6 - a_{13} - a_{14} - \\
&\quad 5a_7 + a_8 + 5a_{29} + 3a_{30} + a_{15} + 2a_{17} + \\
&\quad a_{18} - a_{20} - 6a_{61} - a_{62} - a_{31} - 2a_{32} - \\
&\quad 4a_{33} - 5a_{34} - a_{35} + a_{36} + a_{37} - a_{38} + \\
&\quad a_{39} + 2a_{40} - 3a_{42} - 5a_{43} + a_{44} - a_{125} - \\
&\quad 3a_{126} - a_{63} + 3a_{64} + 4a_{65} + 4a_{66} - 5a_{67} + \\
&\quad 2a_{68} - a_{69} + 3a_{70} + a_{71} - 2a_{73} + 4a_{74} + \\
&\quad a_{76} - a_{77} + a_{78} - a_{79} + a_{80} - 3a_{81} - \\
&\quad a_{82} - 3a_{83} - a_{84} + a_{85} + 6a_{86} - a_{88} + \\
&\quad a_{89} - 7a_{91} + a_{92} \\
a_{253} &= \frac{a_{125} - \sqrt{a_{125}^2 - 4x}}{2} \\
x &= 3a_0 + 5a_2 - 5a_6 + 2a_3 - a_{14} - a_7 - \\
&\quad 5a_8 + a_9 + 5a_{30} + 3a_{15} + a_{16} + 2a_{18} + \\
&\quad a_{19} - a_{21} - 6a_{62} - a_{31} - a_{32} - 2a_{33} - \\
&\quad 4a_{34} - 5a_{35} - a_{36} + a_{37} + a_{38} - a_{39} + \\
&\quad a_{40} + 2a_{41} - 3a_{43} - 5a_{44} + a_{45} - a_{126} - \\
&\quad 3a_{63} - a_{64} + 3a_{65} + 4a_{66} + 4a_{67} - 5a_{68} + \\
&\quad 2a_{69} - a_{70} + 3a_{71} + a_{72} - 2a_{74} + 4a_{75} + \\
&\quad a_{77} - a_{78} + a_{79} - a_{80} + a_{81} - 3a_{82} - \\
&\quad a_{83} - 3a_{84} - a_{85} + a_{86} + 6a_{87} - a_{89} + \\
&\quad a_{90} - 7a_{92} + a_{93} \\
a_{254} &= \frac{a_{126} + \sqrt{a_{126}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_1 + a_3 - a_4 - a_7 + a_8 - \\
&\quad a_{10} - 2a_{16} + 4a_{17} + a_{20} + a_{21} - a_{22} + \\
&\quad 2a_{32} - 3a_{33} + 2a_{35} - a_{37} + a_{38} + 2a_{39} + \\
&\quad a_{40} + 4a_{41} - a_{42} + a_{43} + a_{44} + a_{45} - \\
&\quad a_{46} + 2a_{64} - a_{65} + a_{66} - 3a_{67} - 2a_{68} + \\
&\quad 2a_{69} - 2a_{70} - 2a_{71} - a_{72} - 2a_{73} - 2a_{76} - \\
&\quad a_{77} + a_{78} + a_{79} - 3a_{81} + a_{82} - a_{83} - \\
&\quad 2a_{84} + a_{86} + 2a_{87} - a_{88} + a_{89} - a_{90} - \\
&\quad a_{91} - a_{92} + 2a_{93} - a_{94} + 2a_{127} - 3a_{128} - \\
&\quad a_{130} + a_{131} - a_{133} + a_{134} + a_{135} - 2a_{136} + \\
&\quad a_{137} - 2a_{139} + a_{141} - a_{142} - a_{145} - 2a_{146} + \\
&\quad a_{147} - 2a_{150} - 2a_{151} + 3a_{156} - a_{157} - a_{158} + \\
&\quad a_{161} - a_{163} - a_{164} + 2a_{165} - 2a_{166} - a_{168} - \\
&\quad 2a_{169} - 2a_{171} - a_{172} - a_{173} + a_{175} - 4a_{177} - \\
&\quad a_{179} - 2a_{180} - a_{181} - a_{182} + a_{183} + 3a_{184} + \\
&\quad a_{185} + a_{186} \\
a_{255} &= \frac{a_{127} + \sqrt{a_{127}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_2 + a_4 - a_5 - a_8 + a_9 - \\
&\quad a_{11} - 2a_{17} + 4a_{18} + a_{21} + a_{22} - a_{23} + \\
&\quad 2a_{33} - 3a_{34} + 2a_{36} - a_{38} + a_{39} + 2a_{40} + \\
&\quad a_{41} + 4a_{42} - a_{43} + a_{44} + a_{45} + a_{46} - \\
&\quad a_{47} + 2a_{65} - a_{66} + a_{67} - 3a_{68} - 2a_{69} + \\
&\quad 2a_{70} - 2a_{71} - 2a_{72} - a_{73} - 2a_{74} - 2a_{77} -
\end{aligned}
$$

$$
\begin{aligned}
& a_{78} + a_{79} + a_{80} - 3a_{82} + a_{83} - a_{84} - \\
& 2a_{85} + a_{87} + 2a_{88} - a_{89} + a_{90} - a_{91} - \\
& a_{92} - a_{93} + 2a_{94} - a_{95} + 2a_{128} - 3a_{129} - \\
& a_{131} + a_{132} - a_{134} + a_{135} + a_{136} - 2a_{137} + \\
& a_{138} - 2a_{140} + a_{142} - a_{143} - a_{146} - 2a_{147} + \\
& a_{148} - 2a_{151} - 2a_{152} + 3a_{157} - a_{158} - a_{159} + \\
& a_{162} - a_{164} - a_{165} + 2a_{166} - 2a_{167} - a_{169} - \\
& 2a_{170} - 2a_{172} - a_{173} - a_{174} + a_{176} - 4a_{178} - \\
& a_{180} - 2a_{181} - a_{182} - a_{183} + a_{184} + 3a_{185} + \\
& a_{186} + a_{187}
\end{aligned}
$$

$$
a_{256} = \frac{a_{128} + \sqrt{a_{128}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_0 - 2a_1 + a_5 - a_6 - a_9 + a_{10} - \\
& a_{12} - 2a_{18} + 4a_{19} + a_{22} + a_{23} - a_{24} + \\
& 2a_{34} - 3a_{35} + 2a_{37} - a_{39} + a_{40} + 2a_{41} + \\
& a_{42} + 4a_{43} - a_{44} + a_{45} + a_{46} + a_{47} - \\
& a_{48} + 2a_{66} - a_{67} + a_{68} - 3a_{69} - 2a_{70} + \\
& 2a_{71} - 2a_{72} - 2a_{73} - a_{74} - 2a_{75} - 2a_{78} - \\
& a_{79} + a_{80} + a_{81} - 3a_{83} + a_{84} - a_{85} - \\
& 2a_{86} + a_{88} + 2a_{89} - a_{90} + a_{91} - a_{92} - \\
& a_{93} - a_{94} + 2a_{95} - a_{96} + 2a_{129} - 3a_{130} - \\
& a_{132} + a_{133} - a_{135} + a_{136} + a_{137} - 2a_{138} + \\
& a_{139} - 2a_{141} + a_{143} - a_{144} - a_{147} - 2a_{148} + \\
& a_{149} - 2a_{152} - 2a_{153} + 3a_{158} - a_{159} - a_{160} + \\
& a_{163} - a_{165} - a_{166} + 2a_{167} - 2a_{168} - a_{170} - \\
& 2a_{171} - 2a_{173} - a_{174} - a_{175} + a_{177} - 4a_{179} - \\
& a_{181} - 2a_{182} - a_{183} - a_{184} + a_{185} + 3a_{186} + \\
& a_{187} + a_{188}
\end{aligned}
$$

$$
a_{257} = \frac{a_{129} + \sqrt{a_{129}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_0 - 2a_2 + a_6 - a_3 - a_{10} + a_{11} - \\
& a_{13} - 2a_{19} + 4a_{20} + a_{23} + a_{24} - a_{25} + \\
& 2a_{35} - 3a_{36} + 2a_{38} - a_{40} + a_{41} + 2a_{42} + \\
& a_{43} + 4a_{44} - a_{45} + a_{46} + a_{47} + a_{48} - \\
& a_{49} + 2a_{67} - a_{68} + a_{69} - 3a_{70} - 2a_{71} + \\
& 2a_{72} - 2a_{73} - 2a_{74} - a_{75} - 2a_{76} - 2a_{79} - \\
& a_{80} + a_{81} + a_{82} - 3a_{84} + a_{85} - a_{86} - \\
& 2a_{87} + a_{89} + 2a_{90} - a_{91} + a_{92} - a_{93} - \\
& a_{94} - a_{95} + 2a_{96} - a_{97} + 2a_{130} - 3a_{131} - \\
& a_{133} + a_{134} - a_{136} + a_{137} + a_{138} - 2a_{139} + \\
& a_{140} - 2a_{142} + a_{144} - a_{145} - a_{148} - 2a_{149} + \\
& a_{150} - 2a_{153} - 2a_{154} + 3a_{159} - a_{160} - a_{161} + \\
& a_{164} - a_{166} - a_{167} + 2a_{168} - 2a_{169} - a_{171} - \\
& 2a_{172} - 2a_{174} - a_{175} - a_{176} + a_{178} - 4a_{180} - \\
& a_{182} - 2a_{183} - a_{184} - a_{185} + a_{186} + 3a_{187} + \\
& a_{188} + a_{189}
\end{aligned}
$$

$$
a_{258} = \frac{a_{130} + \sqrt{a_{130}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_0 - 2a_1 + a_3 - a_4 - a_{11} + a_{12} - \\
& a_{14} - 2a_{20} + 4a_{21} + a_{24} + a_{25} - a_{26} + \\
& 2a_{36} - 3a_{37} + 2a_{39} - a_{41} + a_{42} + 2a_{43} + \\
& a_{44} + 4a_{45} - a_{46} + a_{47} + a_{48} + a_{49} - \\
& a_{50} + 2a_{68} - a_{69} + a_{70} - 3a_{71} - 2a_{72} + \\
& 2a_{73} - 2a_{74} - 2a_{75} - a_{76} - 2a_{77} - 2a_{80} - \\
& a_{81} + a_{82} + a_{83} - 3a_{85} + a_{86} - a_{87} - \\
& 2a_{88} + a_{90} + 2a_{91} - a_{92} + a_{93} - a_{94} - \\
& a_{95} - a_{96} + 2a_{97} - a_{98} + 2a_{131} - 3a_{132} - \\
& a_{134} + a_{135} - a_{137} + a_{138} + a_{139} - 2a_{140} + \\
& a_{141} - 2a_{143} + a_{145} - a_{146} - a_{149} - 2a_{150} + \\
& a_{151} - 2a_{154} - 2a_{155} + 3a_{160} - a_{161} - a_{162} + \\
& a_{165} - a_{167} - a_{168} + 2a_{169} - 2a_{170} - a_{172} - \\
& 2a_{173} - 2a_{175} - a_{176} - a_{177} + a_{179} - 4a_{181} - \\
& a_{183} - 2a_{184} - a_{185} - a_{186} + a_{187} + 3a_{188} + \\
& a_{189} + a_{190}
\end{aligned}
$$

$$
a_{259} = \frac{a_{131} + \sqrt{a_{131}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_0 - 2a_2 + a_4 - a_5 - a_{12} + a_{13} - \\
& a_7 - 2a_{21} + 4a_{22} + a_{25} + a_{26} - a_{27} + \\
& 2a_{37} - 3a_{38} + 2a_{40} - a_{42} + a_{43} + 2a_{44} + \\
& a_{45} + 4a_{46} - a_{47} + a_{48} + a_{49} + a_{50} - \\
& a_{51} + 2a_{69} - a_{70} + a_{71} - 3a_{72} - 2a_{73} + \\
& 2a_{74} - 2a_{75} - 2a_{76} - a_{77} - 2a_{78} - 2a_{81} - \\
& a_{82} + a_{83} + a_{84} - 3a_{86} + a_{87} - a_{88} - \\
& 2a_{89} + a_{91} + 2a_{92} - a_{93} + a_{94} - a_{95} - \\
& a_{96} - a_{97} + 2a_{98} - a_{99} + 2a_{132} - 3a_{133} - \\
& a_{135} + a_{136} - a_{138} + a_{139} + a_{140} - 2a_{141} + \\
& a_{142} - 2a_{144} + a_{146} - a_{147} - a_{150} - 2a_{151} + \\
& a_{152} - 2a_{155} - 2a_{156} + 3a_{161} - a_{162} - a_{163} + \\
& a_{166} - a_{168} - a_{169} + 2a_{170} - 2a_{171} - a_{173} - \\
& 2a_{174} - 2a_{176} - a_{177} - a_{178} + a_{180} - 4a_{182} - \\
& a_{184} - 2a_{185} - a_{186} - a_{187} + a_{188} + 3a_{189} + \\
& a_{190} + a_{191}
\end{aligned}
$$

$$
a_{260} = \frac{a_{132} + \sqrt{a_{132}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_0 - 2a_1 + a_5 - a_6 - a_{13} + a_{14} - \\
& a_8 - 2a_{22} + 4a_{23} + a_{26} + a_{27} - a_{28} + \\
& 2a_{38} - 3a_{39} + 2a_{41} - a_{43} + a_{44} + 2a_{45} + \\
& a_{46} + 4a_{47} - a_{48} + a_{49} + a_{50} + a_{51} - \\
& a_{52} + 2a_{70} - a_{71} + a_{72} - 3a_{73} - 2a_{74} + \\
& 2a_{75} - 2a_{76} - 2a_{77} - a_{78} - 2a_{79} - 2a_{82} - \\
& a_{83} + a_{84} + a_{85} - 3a_{87} + a_{88} - a_{89} - \\
& 2a_{90} + a_{92} + 2a_{93} - a_{94} + a_{95} - a_{96} - \\
& a_{97} - a_{98} + 2a_{99} - a_{100} + 2a_{133} - 3a_{134} - \\
& a_{136} + a_{137} - a_{139} + a_{140} + a_{141} - 2a_{142} + \\
& a_{143} - 2a_{145} + a_{147} - a_{148} - a_{151} - 2a_{152} + \\
& a_{153} - 2a_{156} - 2a_{157} + 3a_{162} - a_{163} - a_{164} + \\
& a_{167} - a_{169} - a_{170} + 2a_{171} - 2a_{172} - a_{174} -
\end{aligned}
$$

$$
\begin{aligned}
& 2a_{175} - 2a_{177} - a_{178} - a_{179} + a_{181} - 4a_{183} - \\
& a_{185} - 2a_{186} - a_{187} - a_{188} + a_{189} + 3a_{190} + \\
& a_{191} + a_{192} \\
a_{261} &= \frac{a_{133} + \sqrt{a_{133}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_2 + a_6 - a_3 - a_{14} + a_7 - \\
& a_9 - 2a_{23} + 4a_{24} + a_{27} + a_{28} - a_{29} + \\
& 2a_{39} - 3a_{40} + 2a_{42} - a_{44} + a_{45} + 2a_{46} + \\
& a_{47} + 4a_{48} - a_{49} + a_{50} + a_{51} + a_{52} - \\
& a_{53} + 2a_{71} - a_{72} + a_{73} - 3a_{74} - 2a_{75} + \\
& 2a_{76} - 2a_{77} - 2a_{78} - a_{79} - 2a_{80} - 2a_{83} - \\
& a_{84} + a_{85} + a_{86} - 3a_{88} + a_{89} - a_{90} - \\
& 2a_{91} + a_{93} + 2a_{94} - a_{95} + a_{96} - a_{97} - \\
& a_{98} - a_{99} + 2a_{100} - a_{101} + 2a_{134} - 3a_{135} - \\
& a_{137} + a_{138} - a_{140} + a_{141} + a_{142} - 2a_{143} + \\
& a_{144} - 2a_{146} + a_{148} - a_{149} - a_{152} - 2a_{153} + \\
& a_{154} - 2a_{157} - 2a_{158} + 3a_{163} - a_{164} - a_{165} + \\
& a_{168} - a_{170} - a_{171} + 2a_{172} - 2a_{173} - a_{175} - \\
& 2a_{176} - 2a_{178} - a_{179} - a_{180} + a_{182} - 4a_{184} - \\
& a_{186} - 2a_{187} - a_{188} - a_{189} + a_{190} + 3a_{191} + \\
& a_{192} + a_{193} \\
a_{262} &= \frac{a_{134} - \sqrt{a_{134}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_1 + a_3 - a_4 - a_7 + a_8 - \\
& a_{10} - 2a_{24} + 4a_{25} + a_{28} + a_{29} - a_{30} + \\
& 2a_{40} - 3a_{41} + 2a_{43} - a_{45} + a_{46} + 2a_{47} + \\
& a_{48} + 4a_{49} - a_{50} + a_{51} + a_{52} + a_{53} - \\
& a_{54} + 2a_{72} - a_{73} + a_{74} - 3a_{75} - 2a_{76} + \\
& 2a_{77} - 2a_{78} - 2a_{79} - a_{80} - 2a_{81} - 2a_{84} - \\
& a_{85} + a_{86} + a_{87} - 3a_{89} + a_{90} - a_{91} - \\
& 2a_{92} + a_{94} + 2a_{95} - a_{96} + a_{97} - a_{98} - \\
& a_{99} - a_{100} + 2a_{101} - a_{102} + 2a_{135} - 3a_{136} - \\
& a_{138} + a_{139} - a_{141} + a_{142} + a_{143} - 2a_{144} + \\
& a_{145} - 2a_{147} + a_{149} - a_{150} - a_{153} - 2a_{154} + \\
& a_{155} - 2a_{158} - 2a_{159} + 3a_{164} - a_{165} - a_{166} + \\
& a_{169} - a_{171} - a_{172} + 2a_{173} - 2a_{174} - a_{176} - \\
& 2a_{177} - 2a_{179} - a_{180} - a_{181} + a_{183} - 4a_{185} - \\
& a_{187} - 2a_{188} - a_{189} - a_{190} + a_{191} + 3a_{192} + \\
& a_{193} + a_{194} \\
a_{263} &= \frac{a_{135} + \sqrt{a_{135}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_2 + a_4 - a_5 - a_8 + a_9 - \\
& a_{11} - 2a_{25} + 4a_{26} + a_{29} + a_{30} - a_{15} + \\
& 2a_{41} - 3a_{42} + 2a_{44} - a_{46} + a_{47} + 2a_{48} + \\
& a_{49} + 4a_{50} - a_{51} + a_{52} + a_{53} + a_{54} - \\
& a_{55} + 2a_{73} - a_{74} + a_{75} - 3a_{76} - 2a_{77} + \\
& 2a_{78} - 2a_{79} - 2a_{80} - a_{81} - 2a_{82} - 2a_{85} - \\
& a_{86} + a_{87} + a_{88} - 3a_{90} + a_{91} - a_{92} - \\
& 2a_{93} + a_{95} + 2a_{96} - a_{97} + a_{98} - a_{99} - \\
& a_{100} - a_{101} + 2a_{102} - a_{103} + 2a_{136} - 3a_{137} - \\
& a_{139} + a_{140} - a_{142} + a_{143} + a_{144} - 2a_{145} + \\
& a_{146} - 2a_{148} + a_{150} - a_{151} - a_{154} - 2a_{155} + \\
& a_{156} - 2a_{159} - 2a_{160} + 3a_{165} - a_{166} - a_{167} + \\
& a_{170} - a_{172} - a_{173} + 2a_{174} - 2a_{175} - a_{177} - \\
& 2a_{178} - 2a_{180} - a_{181} - a_{182} + a_{184} - 4a_{186} - \\
& a_{188} - 2a_{189} - a_{190} - a_{191} + a_{192} + 3a_{193} + \\
& a_{194} + a_{195} \\
a_{264} &= \frac{a_{136} + \sqrt{a_{136}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_1 + a_5 - a_6 - a_9 + a_{10} - \\
& a_{12} - 2a_{26} + 4a_{27} + a_{30} + a_{15} - a_{16} + \\
& 2a_{42} - 3a_{43} + 2a_{45} - a_{47} + a_{48} + 2a_{49} + \\
& a_{50} + 4a_{51} - a_{52} + a_{53} + a_{54} + a_{55} - \\
& a_{56} + 2a_{74} - a_{75} + a_{76} - 3a_{77} - 2a_{78} + \\
& 2a_{79} - 2a_{80} - 2a_{81} - a_{82} - 2a_{83} - 2a_{86} - \\
& a_{87} + a_{88} + a_{89} - 3a_{91} + a_{92} - a_{93} - \\
& 2a_{94} + a_{96} + 2a_{97} - a_{98} + a_{99} - a_{100} - \\
& a_{101} - a_{102} + 2a_{103} - a_{104} + 2a_{137} - 3a_{138} - \\
& a_{140} + a_{141} - a_{143} + a_{144} + a_{145} - 2a_{146} + \\
& a_{147} - 2a_{149} + a_{151} - a_{152} - a_{155} - 2a_{156} + \\
& a_{157} - 2a_{160} - 2a_{161} + 3a_{166} - a_{167} - a_{168} + \\
& a_{171} - a_{173} - a_{174} + 2a_{175} - 2a_{176} - a_{178} - \\
& 2a_{179} - 2a_{181} - a_{182} - a_{183} + a_{185} - 4a_{187} - \\
& a_{189} - 2a_{190} - a_{191} - a_{192} + a_{193} + 3a_{194} + \\
& a_{195} + a_{196} \\
a_{265} &= \frac{a_{137} + \sqrt{a_{137}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_2 + a_6 - a_3 - a_{10} + a_{11} - \\
& a_{13} - 2a_{27} + 4a_{28} + a_{15} + a_{16} - a_{17} + \\
& 2a_{43} - 3a_{44} + 2a_{46} - a_{48} + a_{49} + 2a_{50} + \\
& a_{51} + 4a_{52} - a_{53} + a_{54} + a_{55} + a_{56} - \\
& a_{57} + 2a_{75} - a_{76} + a_{77} - 3a_{78} - 2a_{79} + \\
& 2a_{80} - 2a_{81} - 2a_{82} - a_{83} - 2a_{84} - 2a_{87} - \\
& a_{88} + a_{89} + a_{90} - 3a_{92} + a_{93} - a_{94} - \\
& 2a_{95} + a_{97} + 2a_{98} - a_{99} + a_{100} - a_{101} - \\
& a_{102} - a_{103} + 2a_{104} - a_{105} + 2a_{138} - 3a_{139} - \\
& a_{141} + a_{142} - a_{144} + a_{145} + a_{146} - 2a_{147} + \\
& a_{148} - 2a_{150} + a_{152} - a_{153} - a_{156} - 2a_{157} + \\
& a_{158} - 2a_{161} - 2a_{162} + 3a_{167} - a_{168} - a_{169} + \\
& a_{172} - a_{174} - a_{175} + 2a_{176} - 2a_{177} - a_{179} - \\
& 2a_{180} - 2a_{182} - a_{183} - a_{184} + a_{186} - 4a_{188} - \\
& a_{190} - 2a_{191} - a_{192} - a_{193} + a_{194} + 3a_{195} + \\
& a_{196} + a_{197} \\
a_{266} &= \frac{a_{138} + \sqrt{a_{138}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_1 + a_3 - a_4 - a_{11} + a_{12} - \\
& a_{14} - 2a_{28} + 4a_{29} + a_{16} + a_{17} - a_{18} + \\
& 2a_{44} - 3a_{45} + 2a_{47} - a_{49} + a_{50} + 2a_{51} +
\end{aligned}
$$

$$
\begin{aligned}
& a_{52} + 4a_{53} - a_{54} + a_{55} + a_{56} + a_{57} - \\
& a_{58} + 2a_{76} - a_{77} + a_{78} - 3a_{79} - 2a_{80} + \\
& 2a_{81} - 2a_{82} - 2a_{83} - a_{84} - 2a_{85} - 2a_{88} - \\
& a_{89} + a_{90} + a_{91} - 3a_{93} + a_{94} - a_{95} - \\
& 2a_{96} + a_{98} + 2a_{99} - a_{100} + a_{101} - a_{102} - \\
& a_{103} - a_{104} + 2a_{105} - a_{106} + 2a_{139} - 3a_{140} - \\
& a_{142} + a_{143} - a_{145} + a_{146} + a_{147} - 2a_{148} + \\
& a_{149} - 2a_{151} + a_{153} - a_{154} - a_{157} - 2a_{158} + \\
& a_{159} - 2a_{162} - 2a_{163} + 3a_{168} - a_{169} - a_{170} + \\
& a_{173} - a_{175} - a_{176} + 2a_{177} - 2a_{178} - a_{180} - \\
& 2a_{181} - 2a_{183} - a_{184} - a_{185} + a_{187} - 4a_{189} - \\
& a_{191} - 2a_{192} - a_{193} - a_{194} + a_{195} + 3a_{196} + \\
& a_{197} + a_{198}
\end{aligned}
$$

$$
a_{267} = \frac{a_{139} - \sqrt{a_{139}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_0 - 2a_2 + a_4 - a_5 - a_{12} + a_{13} - \\
& a_7 - 2a_{29} + 4a_{30} + a_{17} + a_{18} - a_{19} + \\
& 2a_{45} - 3a_{46} + 2a_{48} - a_{50} + a_{51} + 2a_{52} + \\
& a_{53} + 4a_{54} - a_{55} + a_{56} + a_{57} + a_{58} - \\
& a_{59} + 2a_{77} - a_{78} + a_{79} - 3a_{80} - 2a_{81} + \\
& 2a_{82} - 2a_{83} - 2a_{84} - a_{85} - 2a_{86} - 2a_{89} - \\
& a_{90} + a_{91} + a_{92} - 3a_{94} + a_{95} - a_{96} - \\
& 2a_{97} + a_{99} + 2a_{100} - a_{101} + a_{102} - a_{103} - \\
& a_{104} - a_{105} + 2a_{106} - a_{107} + 2a_{140} - 3a_{141} - \\
& a_{143} + a_{144} - a_{146} + a_{147} + a_{148} - 2a_{149} + \\
& a_{150} - 2a_{152} + a_{154} - a_{155} - a_{158} - 2a_{159} + \\
& a_{160} - 2a_{163} - 2a_{164} + 3a_{169} - a_{170} - a_{171} + \\
& a_{174} - a_{176} - a_{177} + 2a_{178} - 2a_{179} - a_{181} - \\
& 2a_{182} - 2a_{184} - a_{185} - a_{186} + a_{188} - 4a_{190} - \\
& a_{192} - 2a_{193} - a_{194} - a_{195} + a_{196} + 3a_{197} + \\
& a_{198} + a_{199}
\end{aligned}
$$

$$
a_{268} = \frac{a_{140} + \sqrt{a_{140}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_0 - 2a_1 + a_5 - a_6 - a_{13} + a_{14} - \\
& a_8 - 2a_{30} + 4a_{15} + a_{18} + a_{19} - a_{20} + \\
& 2a_{46} - 3a_{47} + 2a_{49} - a_{51} + a_{52} + 2a_{53} + \\
& a_{54} + 4a_{55} - a_{56} + a_{57} + a_{58} + a_{59} - \\
& a_{60} + 2a_{78} - a_{79} + a_{80} - 3a_{81} - 2a_{82} + \\
& 2a_{83} - 2a_{84} - 2a_{85} - a_{86} - 2a_{87} - 2a_{90} - \\
& a_{91} + a_{92} + a_{93} - 3a_{95} + a_{96} - a_{97} - \\
& 2a_{98} + a_{100} + 2a_{101} - a_{102} + a_{103} - a_{104} - \\
& a_{105} - a_{106} + 2a_{107} - a_{108} + 2a_{141} - 3a_{142} - \\
& a_{144} + a_{145} - a_{147} + a_{148} + a_{149} - 2a_{150} + \\
& a_{151} - 2a_{153} + a_{155} - a_{156} - a_{159} - 2a_{160} + \\
& a_{161} - 2a_{164} - 2a_{165} + 3a_{170} - a_{171} - a_{172} + \\
& a_{175} - a_{177} - a_{178} + 2a_{179} - 2a_{180} - a_{182} - \\
& 2a_{183} - 2a_{185} - a_{186} - a_{187} + a_{189} - 4a_{191} - \\
& a_{193} - 2a_{194} - a_{195} - a_{196} + a_{197} + 3a_{198} + \\
& a_{199} + a_{200}
\end{aligned}
$$

$$
a_{269} = \frac{a_{141} - \sqrt{a_{141}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_0 - 2a_2 + a_6 - a_3 - a_{14} + a_7 - \\
& a_9 - 2a_{15} + 4a_{16} + a_{19} + a_{20} - a_{21} + \\
& 2a_{47} - 3a_{48} + 2a_{50} - a_{52} + a_{53} + 2a_{54} + \\
& a_{55} + 4a_{56} - a_{57} + a_{58} + a_{59} + a_{60} - \\
& a_{61} + 2a_{79} - a_{80} + a_{81} - 3a_{82} - 2a_{83} + \\
& 2a_{84} - 2a_{85} - 2a_{86} - a_{87} - 2a_{88} - 2a_{91} - \\
& a_{92} + a_{93} + a_{94} - 3a_{96} + a_{97} - a_{98} - \\
& 2a_{99} + a_{101} + 2a_{102} - a_{103} + a_{104} - a_{105} - \\
& a_{106} - a_{107} + 2a_{108} - a_{109} + 2a_{142} - 3a_{143} - \\
& a_{145} + a_{146} - a_{148} + a_{149} + a_{150} - 2a_{151} + \\
& a_{152} - 2a_{154} + a_{156} - a_{157} - a_{160} - 2a_{161} + \\
& a_{162} - 2a_{165} - 2a_{166} + 3a_{171} - a_{172} - a_{173} + \\
& a_{176} - a_{178} - a_{179} + 2a_{180} - 2a_{181} - a_{183} - \\
& 2a_{184} - 2a_{186} - a_{187} - a_{188} + a_{190} - 4a_{192} - \\
& a_{194} - 2a_{195} - a_{196} - a_{197} + a_{198} + 3a_{199} + \\
& a_{200} + a_{201}
\end{aligned}
$$

$$
a_{270} = \frac{a_{142} + \sqrt{a_{142}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_0 - 2a_1 + a_3 - a_4 - a_7 + a_8 - \\
& a_{10} - 2a_{16} + 4a_{17} + a_{20} + a_{21} - a_{22} + \\
& 2a_{48} - 3a_{49} + 2a_{51} - a_{53} + a_{54} + 2a_{55} + \\
& a_{56} + 4a_{57} - a_{58} + a_{59} + a_{60} + a_{61} - \\
& a_{62} + 2a_{80} - a_{81} + a_{82} - 3a_{83} - 2a_{84} + \\
& 2a_{85} - 2a_{86} - 2a_{87} - a_{88} - 2a_{89} - 2a_{92} - \\
& a_{93} + a_{94} + a_{95} - 3a_{97} + a_{98} - a_{99} - \\
& 2a_{100} + a_{102} + 2a_{103} - a_{104} + a_{105} - a_{106} - \\
& a_{107} - a_{108} + 2a_{109} - a_{110} + 2a_{143} - 3a_{144} - \\
& a_{146} + a_{147} - a_{149} + a_{150} + a_{151} - 2a_{152} + \\
& a_{153} - 2a_{155} + a_{157} - a_{158} - a_{161} - 2a_{162} + \\
& a_{163} - 2a_{166} - 2a_{167} + 3a_{172} - a_{173} - a_{174} + \\
& a_{177} - a_{179} - a_{180} + 2a_{181} - 2a_{182} - a_{184} - \\
& 2a_{185} - 2a_{187} - a_{188} - a_{189} + a_{191} - 4a_{193} - \\
& a_{195} - 2a_{196} - a_{197} - a_{198} + a_{199} + 3a_{200} + \\
& a_{201} + a_{202}
\end{aligned}
$$

$$
a_{271} = \frac{a_{143} - \sqrt{a_{143}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_0 - 2a_2 + a_4 - a_5 - a_8 + a_9 - \\
& a_{11} - 2a_{17} + 4a_{18} + a_{21} + a_{22} - a_{23} + \\
& 2a_{49} - 3a_{50} + 2a_{52} - a_{54} + a_{55} + 2a_{56} + \\
& a_{57} + 4a_{58} - a_{59} + a_{60} + a_{61} + a_{62} - \\
& a_{31} + 2a_{81} - a_{82} + a_{83} - 3a_{84} - 2a_{85} + \\
& 2a_{86} - 2a_{87} - 2a_{88} - a_{89} - 2a_{90} - 2a_{93} - \\
& a_{94} + a_{95} + a_{96} - 3a_{98} + a_{99} - a_{100} - \\
& 2a_{101} + a_{103} + 2a_{104} - a_{105} + a_{106} - a_{107} - \\
& a_{108} - a_{109} + 2a_{110} - a_{111} + 2a_{144} - 3a_{145} - \\
& a_{147} + a_{148} - a_{150} + a_{151} + a_{152} - 2a_{153} +
\end{aligned}
$$

$$
\begin{aligned}
& a_{154} - 2a_{156} + a_{158} - a_{159} - a_{162} - 2a_{163} + \\
& a_{164} - 2a_{167} - 2a_{168} + 3a_{173} - a_{174} - a_{175} + \\
& a_{178} - a_{180} - a_{181} + 2a_{182} - 2a_{183} - a_{185} - \\
& 2a_{186} - 2a_{188} - a_{189} - a_{190} + a_{192} - 4a_{194} - \\
& a_{196} - 2a_{197} - a_{198} - a_{199} + a_{200} + 3a_{201} + \\
& a_{202} + a_{203}
\end{aligned}
$$

$$
a_{272} = \frac{a_{144} - \sqrt{a_{144}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_0 - 2a_1 + a_5 - a_6 - a_9 + a_{10} - \\
& a_{12} - 2a_{18} + 4a_{19} + a_{22} + a_{23} - a_{24} + \\
& 2a_{50} - 3a_{51} + 2a_{53} - a_{55} + a_{56} + 2a_{57} + \\
& a_{58} + 4a_{59} - a_{60} + a_{61} + a_{62} + a_{31} - \\
& a_{32} + 2a_{82} - a_{83} + a_{84} - 3a_{85} - 2a_{86} + \\
& 2a_{87} - 2a_{88} - 2a_{89} - a_{90} - 2a_{91} - 2a_{94} - \\
& a_{95} + a_{96} + a_{97} - 3a_{99} + a_{100} - a_{101} - \\
& 2a_{102} + a_{104} + 2a_{105} - a_{106} + a_{107} - a_{108} - \\
& a_{109} - a_{110} + 2a_{111} - a_{112} + 2a_{145} - 3a_{146} - \\
& a_{148} + a_{149} - a_{151} + a_{152} + a_{153} - 2a_{154} + \\
& a_{155} - 2a_{157} + a_{159} - a_{160} - a_{163} - 2a_{164} + \\
& a_{165} - 2a_{168} - 2a_{169} + 3a_{174} - a_{175} - a_{176} + \\
& a_{179} - a_{181} - a_{182} + 2a_{183} - 2a_{184} - a_{186} - \\
& 2a_{187} - 2a_{189} - a_{190} - a_{191} + a_{193} - 4a_{195} - \\
& a_{197} - 2a_{198} - a_{199} - a_{200} + a_{201} + 3a_{202} + \\
& a_{203} + a_{204}
\end{aligned}
$$

$$
a_{273} = \frac{a_{145} - \sqrt{a_{145}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_0 - 2a_2 + a_6 - a_3 - a_{10} + a_{11} - \\
& a_{13} - 2a_{19} + 4a_{20} + a_{23} + a_{24} - a_{25} + \\
& 2a_{51} - 3a_{52} + 2a_{54} - a_{56} + a_{57} + 2a_{58} + \\
& a_{59} + 4a_{60} - a_{61} + a_{62} + a_{31} + a_{32} - \\
& a_{33} + 2a_{83} - a_{84} + a_{85} - 3a_{86} - 2a_{87} + \\
& 2a_{88} - 2a_{89} - 2a_{90} - a_{91} - 2a_{92} - 2a_{95} - \\
& a_{96} + a_{97} + a_{98} - 3a_{100} + a_{101} - a_{102} - \\
& 2a_{103} + a_{105} + 2a_{106} - a_{107} + a_{108} - a_{109} - \\
& a_{110} - a_{111} + 2a_{112} - a_{113} + 2a_{146} - 3a_{147} - \\
& a_{149} + a_{150} - a_{152} + a_{153} + a_{154} - 2a_{155} + \\
& a_{156} - 2a_{158} + a_{160} - a_{161} - a_{164} - 2a_{165} + \\
& a_{166} - 2a_{169} - 2a_{170} + 3a_{175} - a_{176} - a_{177} + \\
& a_{180} - a_{182} - a_{183} + 2a_{184} - 2a_{185} - a_{187} - \\
& 2a_{188} - 2a_{190} - a_{191} - a_{192} + a_{194} - 4a_{196} - \\
& a_{198} - 2a_{199} - a_{200} - a_{201} + a_{202} + 3a_{203} + \\
& a_{204} + a_{205}
\end{aligned}
$$

$$
a_{274} = \frac{a_{146} + \sqrt{a_{146}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_0 - 2a_1 + a_3 - a_4 - a_{11} + a_{12} - \\
& a_{14} - 2a_{20} + 4a_{21} + a_{24} + a_{25} - a_{26} + \\
& 2a_{52} - 3a_{53} + 2a_{55} - a_{57} + a_{58} + 2a_{59} + \\
& a_{60} + 4a_{61} - a_{62} + a_{31} + a_{32} + a_{33} - \\
& a_{34} + 2a_{84} - a_{85} + a_{86} - 3a_{87} - 2a_{88} + \\
& 2a_{89} - 2a_{90} - 2a_{91} - a_{92} - 2a_{93} - 2a_{96} - \\
& a_{97} + a_{98} + a_{99} - 3a_{101} + a_{102} - a_{103} - \\
& 2a_{104} + a_{106} + 2a_{107} - a_{108} + a_{109} - a_{110} - \\
& a_{111} - a_{112} + 2a_{113} - a_{114} + 2a_{147} - 3a_{148} - \\
& a_{150} + a_{151} - a_{153} + a_{154} + a_{155} - 2a_{156} + \\
& a_{157} - 2a_{159} + a_{161} - a_{162} - a_{165} - 2a_{166} + \\
& a_{167} - 2a_{170} - 2a_{171} + 3a_{176} - a_{177} - a_{178} + \\
& a_{181} - a_{183} - a_{184} + 2a_{185} - 2a_{186} - a_{188} - \\
& 2a_{189} - 2a_{191} - a_{192} - a_{193} + a_{195} - 4a_{197} - \\
& a_{199} - 2a_{200} - a_{201} - a_{202} + a_{203} + 3a_{204} + \\
& a_{205} + a_{206}
\end{aligned}
$$

$$
a_{275} = \frac{a_{147} + \sqrt{a_{147}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_0 - 2a_2 + a_4 - a_5 - a_{12} + a_{13} - \\
& a_7 - 2a_{21} + 4a_{22} + a_{25} + a_{26} - a_{27} + \\
& 2a_{53} - 3a_{54} + 2a_{56} - a_{58} + a_{59} + 2a_{60} + \\
& a_{61} + 4a_{62} - a_{31} + a_{32} + a_{33} + a_{34} - \\
& a_{35} + 2a_{85} - a_{86} + a_{87} - 3a_{88} - 2a_{89} + \\
& 2a_{90} - 2a_{91} - 2a_{92} - a_{93} - 2a_{94} - 2a_{97} - \\
& a_{98} + a_{99} + a_{100} - 3a_{102} + a_{103} - a_{104} - \\
& 2a_{105} + a_{107} + 2a_{108} - a_{109} + a_{110} - a_{111} - \\
& a_{112} - a_{113} + 2a_{114} - a_{115} + 2a_{148} - 3a_{149} - \\
& a_{151} + a_{152} - a_{154} + a_{155} + a_{156} - 2a_{157} + \\
& a_{158} - 2a_{160} + a_{162} - a_{163} - a_{166} - 2a_{167} + \\
& a_{168} - 2a_{171} - 2a_{172} + 3a_{177} - a_{178} - a_{179} + \\
& a_{182} - a_{184} - a_{185} + 2a_{186} - 2a_{187} - a_{189} - \\
& 2a_{190} - 2a_{192} - a_{193} - a_{194} + a_{196} - 4a_{198} - \\
& a_{200} - 2a_{201} - a_{202} - a_{203} + a_{204} + 3a_{205} + \\
& a_{206} + a_{207}
\end{aligned}
$$

$$
a_{276} = \frac{a_{148} - \sqrt{a_{148}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_0 - 2a_1 + a_5 - a_6 - a_{13} + a_{14} - \\
& a_8 - 2a_{22} + 4a_{23} + a_{26} + a_{27} - a_{28} + \\
& 2a_{54} - 3a_{55} + 2a_{57} - a_{59} + a_{60} + 2a_{61} + \\
& a_{62} + 4a_{31} - a_{32} + a_{33} + a_{34} + a_{35} - \\
& a_{36} + 2a_{86} - a_{87} + a_{88} - 3a_{89} - 2a_{90} + \\
& 2a_{91} - 2a_{92} - 2a_{93} - a_{94} - 2a_{95} - 2a_{98} - \\
& a_{99} + a_{100} + a_{101} - 3a_{103} + a_{104} - a_{105} - \\
& 2a_{106} + a_{108} + 2a_{109} - a_{110} + a_{111} - a_{112} - \\
& a_{113} - a_{114} + 2a_{115} - a_{116} + 2a_{149} - 3a_{150} - \\
& a_{152} + a_{153} - a_{155} + a_{156} + a_{157} - 2a_{158} + \\
& a_{159} - 2a_{161} + a_{163} - a_{164} - a_{167} - 2a_{168} + \\
& a_{169} - 2a_{172} - 2a_{173} + 3a_{178} - a_{179} - a_{180} + \\
& a_{183} - a_{185} - a_{186} + 2a_{187} - 2a_{188} - a_{190} - \\
& 2a_{191} - 2a_{193} - a_{194} - a_{195} + a_{197} - 4a_{199} - \\
& a_{201} - 2a_{202} - a_{203} - a_{204} + a_{205} + 3a_{206} + \\
& a_{207} + a_{208}
\end{aligned}
$$

$$
a_{277} = \frac{a_{149} - \sqrt{a_{149}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x &= 2a_0 - 2a_2 + a_6 - a_3 - a_{14} + a_7 - \\
&\quad a_9 - 2a_{23} + 4a_{24} + a_{27} + a_{28} - a_{29} + \\
&\quad 2a_{55} - 3a_{56} + 2a_{58} - a_{60} + a_{61} + 2a_{62} + \\
&\quad a_{31} + 4a_{32} - a_{33} + a_{34} + a_{35} + a_{36} - \\
&\quad a_{37} + 2a_{87} - a_{88} + a_{89} - 3a_{90} - 2a_{91} + \\
&\quad 2a_{92} - 2a_{93} - 2a_{94} - a_{95} - 2a_{96} - 2a_{99} - \\
&\quad a_{100} + a_{101} + a_{102} - 3a_{104} + a_{105} - a_{106} - \\
&\quad 2a_{107} + a_{109} + 2a_{110} - a_{111} + a_{112} - a_{113} - \\
&\quad a_{114} - a_{115} + 2a_{116} - a_{117} + 2a_{150} - 3a_{151} - \\
&\quad a_{153} + a_{154} - a_{156} + a_{157} + a_{158} - 2a_{159} + \\
&\quad a_{160} - 2a_{162} + a_{164} - a_{165} - a_{168} - 2a_{169} + \\
&\quad a_{170} - 2a_{173} - 2a_{174} + 3a_{179} - a_{180} - a_{181} + \\
&\quad a_{184} - a_{186} - a_{187} + 2a_{188} - 2a_{189} - a_{191} - \\
&\quad 2a_{192} - 2a_{194} - a_{195} - a_{196} + a_{198} - 4a_{200} - \\
&\quad a_{202} - 2a_{203} - a_{204} - a_{205} + a_{206} + 3a_{207} + \\
&\quad a_{208} + a_{209} \\
a_{278} &= \frac{a_{150} + \sqrt{a_{150}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_1 + a_3 - a_4 - a_7 + a_8 - \\
&\quad a_{10} - 2a_{24} + 4a_{25} + a_{28} + a_{29} - a_{30} + \\
&\quad 2a_{56} - 3a_{57} + 2a_{59} - a_{61} + a_{62} + 2a_{31} + \\
&\quad a_{32} + 4a_{33} - a_{34} + a_{35} + a_{36} + a_{37} - \\
&\quad a_{38} + 2a_{88} - a_{89} + a_{90} - 3a_{91} - 2a_{92} + \\
&\quad 2a_{93} - 2a_{94} - 2a_{95} - a_{96} - 2a_{97} - 2a_{100} - \\
&\quad a_{101} + a_{102} + a_{103} - 3a_{105} + a_{106} - a_{107} - \\
&\quad 2a_{108} + a_{110} + 2a_{111} - a_{112} + a_{113} - a_{114} - \\
&\quad a_{115} - a_{116} + 2a_{117} - a_{118} + 2a_{151} - 3a_{152} - \\
&\quad a_{154} + a_{155} - a_{157} + a_{158} + a_{159} - 2a_{160} + \\
&\quad a_{161} - 2a_{163} + a_{165} - a_{166} - a_{169} - 2a_{170} + \\
&\quad a_{171} - 2a_{174} - 2a_{175} + 3a_{180} - a_{181} - a_{182} + \\
&\quad a_{185} - a_{187} - a_{188} + 2a_{189} - 2a_{190} - a_{192} - \\
&\quad 2a_{193} - 2a_{195} - a_{196} - a_{197} + a_{199} - 4a_{201} - \\
&\quad a_{203} - 2a_{204} - a_{205} - a_{206} + a_{207} + 3a_{208} + \\
&\quad a_{209} + a_{210} \\
a_{279} &= \frac{a_{151} + \sqrt{a_{151}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_2 + a_4 - a_5 - a_8 + a_9 - \\
&\quad a_{11} - 2a_{25} + 4a_{26} + a_{29} + a_{30} - a_{15} + \\
&\quad 2a_{57} - 3a_{58} + 2a_{60} - a_{62} + a_{31} + 2a_{32} + \\
&\quad a_{33} + 4a_{34} - a_{35} + a_{36} + a_{37} + a_{38} - \\
&\quad a_{39} + 2a_{89} - a_{90} + a_{91} - 3a_{92} - 2a_{93} + \\
&\quad 2a_{94} - 2a_{95} - 2a_{96} - a_{97} - 2a_{98} - 2a_{101} - \\
&\quad a_{102} + a_{103} + a_{104} - 3a_{106} + a_{107} - a_{108} - \\
&\quad 2a_{109} + a_{111} + 2a_{112} - a_{113} + a_{114} - a_{115} - \\
&\quad a_{116} - a_{117} + 2a_{118} - a_{119} + 2a_{152} - 3a_{153} - \\
&\quad a_{155} + a_{156} - a_{158} + a_{159} + a_{160} - 2a_{161} + \\
&\quad a_{162} - 2a_{164} + a_{166} - a_{167} - a_{170} - 2a_{171} + \\
&\quad a_{172} - 2a_{175} - 2a_{176} + 3a_{181} - a_{182} - a_{183} + \\
&\quad a_{186} - a_{188} - a_{189} + 2a_{190} - 2a_{191} - a_{193} - \\
&\quad 2a_{194} - 2a_{196} - a_{197} - a_{198} + a_{200} - 4a_{202} - \\
&\quad a_{204} - 2a_{205} - a_{206} - a_{207} + a_{208} + 3a_{209} + \\
&\quad a_{210} + a_{211}
\end{aligned}
$$

$$
\begin{aligned}
a_{280} &= \frac{a_{152} + \sqrt{a_{152}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_1 + a_5 - a_6 - a_9 + a_{10} - \\
&\quad a_{12} - 2a_{26} + 4a_{27} + a_{30} + a_{15} - a_{16} + \\
&\quad 2a_{58} - 3a_{59} + 2a_{61} - a_{31} + a_{32} + 2a_{33} + \\
&\quad a_{34} + 4a_{35} - a_{36} + a_{37} + a_{38} + a_{39} - \\
&\quad a_{40} + 2a_{90} - a_{91} + a_{92} - 3a_{93} - 2a_{94} + \\
&\quad 2a_{95} - 2a_{96} - 2a_{97} - a_{98} - 2a_{99} - 2a_{102} - \\
&\quad a_{103} + a_{104} + a_{105} - 3a_{107} + a_{108} - a_{109} - \\
&\quad 2a_{110} + a_{112} + 2a_{113} - a_{114} + a_{115} - a_{116} - \\
&\quad a_{117} - a_{118} + 2a_{119} - a_{120} + 2a_{153} - 3a_{154} - \\
&\quad a_{156} + a_{157} - a_{159} + a_{160} + a_{161} - 2a_{162} + \\
&\quad a_{163} - 2a_{165} + a_{167} - a_{168} - a_{171} - 2a_{172} + \\
&\quad a_{173} - 2a_{176} - 2a_{177} + 3a_{182} - a_{183} - a_{184} + \\
&\quad a_{187} - a_{189} - a_{190} + 2a_{191} - 2a_{192} - a_{194} - \\
&\quad 2a_{195} - 2a_{197} - a_{198} - a_{199} + a_{201} - 4a_{203} - \\
&\quad a_{205} - 2a_{206} - a_{207} - a_{208} + a_{209} + 3a_{210} + \\
&\quad a_{211} + a_{212} \\
a_{281} &= \frac{a_{153} - \sqrt{a_{153}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_2 + a_6 - a_3 - a_{10} + a_{11} - \\
&\quad a_{13} - 2a_{27} + 4a_{28} + a_{15} + a_{16} - a_{17} + \\
&\quad 2a_{59} - 3a_{60} + 2a_{62} - a_{32} + a_{33} + 2a_{34} + \\
&\quad a_{35} + 4a_{36} - a_{37} + a_{38} + a_{39} + a_{40} - \\
&\quad a_{41} + 2a_{91} - a_{92} + a_{93} - 3a_{94} - 2a_{95} + \\
&\quad 2a_{96} - 2a_{97} - 2a_{98} - a_{99} - 2a_{100} - 2a_{103} - \\
&\quad a_{104} + a_{105} + a_{106} - 3a_{108} + a_{109} - a_{110} - \\
&\quad 2a_{111} + a_{113} + 2a_{114} - a_{115} + a_{116} - a_{117} - \\
&\quad a_{118} - a_{119} + 2a_{120} - a_{121} + 2a_{154} - 3a_{155} - \\
&\quad a_{157} + a_{158} - a_{160} + a_{161} + a_{162} - 2a_{163} + \\
&\quad a_{164} - 2a_{166} + a_{168} - a_{169} - a_{172} - 2a_{173} + \\
&\quad a_{174} - 2a_{177} - 2a_{178} + 3a_{183} - a_{184} - a_{185} + \\
&\quad a_{188} - a_{190} - a_{191} + 2a_{192} - 2a_{193} - a_{195} - \\
&\quad 2a_{196} - 2a_{198} - a_{199} - a_{200} + a_{202} - 4a_{204} - \\
&\quad a_{206} - 2a_{207} - a_{208} - a_{209} + a_{210} + 3a_{211} + \\
&\quad a_{212} + a_{213} \\
a_{282} &= \frac{a_{154} + \sqrt{a_{154}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_1 + a_3 - a_4 - a_{11} + a_{12} - \\
&\quad a_{14} - 2a_{28} + 4a_{29} + a_{16} + a_{17} - a_{18} + \\
&\quad 2a_{60} - 3a_{61} + 2a_{31} - a_{33} + a_{34} + 2a_{35} + \\
&\quad a_{36} + 4a_{37} - a_{38} + a_{39} + a_{40} + a_{41} - \\
&\quad a_{42} + 2a_{92} - a_{93} + a_{94} - 3a_{95} - 2a_{96} + \\
&\quad 2a_{97} - 2a_{98} - 2a_{99} - a_{100} - 2a_{101} - 2a_{104} - \\
&\quad a_{105} + a_{106} + a_{107} - 3a_{109} + a_{110} - a_{111} -
\end{aligned}
$$

$$
\begin{aligned}
& 2a_{112} + a_{114} + 2a_{115} - a_{116} + a_{117} - a_{118} - \\
& a_{119} - a_{120} + 2a_{121} - a_{122} + 2a_{155} - 3a_{156} - \\
& a_{158} + a_{159} - a_{161} + a_{162} + a_{163} - 2a_{164} + \\
& a_{165} - 2a_{167} + a_{169} - a_{170} - a_{173} - 2a_{174} + \\
& a_{175} - 2a_{178} - 2a_{179} + 3a_{184} - a_{185} - a_{186} + \\
& a_{189} - a_{191} - a_{192} + 2a_{193} - 2a_{194} - a_{196} - \\
& 2a_{197} - 2a_{199} - a_{200} - a_{201} + a_{203} - 4a_{205} - \\
& a_{207} - 2a_{208} - a_{209} - a_{210} + a_{211} + 3a_{212} + \\
& a_{213} + a_{214}
\end{aligned}
$$

$$
a_{283} = \frac{a_{155} + \sqrt{a_{155}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_0 - 2a_2 + a_4 - a_5 - a_{12} + a_{13} - \\
& a_7 - 2a_{29} + 4a_{30} + a_{17} + a_{18} - a_{19} + \\
& 2a_{61} - 3a_{62} + 2a_{32} - a_{34} + a_{35} + 2a_{36} + \\
& a_{37} + 4a_{38} - a_{39} + a_{40} + a_{41} + a_{42} - \\
& a_{43} + 2a_{93} - a_{94} + a_{95} - 3a_{96} - 2a_{97} + \\
& 2a_{98} - 2a_{99} - 2a_{100} - a_{101} - 2a_{102} - 2a_{105} - \\
& a_{106} + a_{107} + a_{108} - 3a_{110} + a_{111} - a_{112} - \\
& 2a_{113} + a_{115} + 2a_{116} - a_{117} + a_{118} - a_{119} - \\
& a_{120} - a_{121} + 2a_{122} - a_{123} + 2a_{156} - 3a_{157} - \\
& a_{159} + a_{160} - a_{162} + a_{163} + a_{164} - 2a_{165} + \\
& a_{166} - 2a_{168} + a_{170} - a_{171} - a_{174} - 2a_{175} + \\
& a_{176} - 2a_{179} - 2a_{180} + 3a_{185} - a_{186} - a_{187} + \\
& a_{190} - a_{192} - a_{193} + 2a_{194} - 2a_{195} - a_{197} - \\
& 2a_{198} - 2a_{200} - a_{201} - a_{202} + a_{204} - 4a_{206} - \\
& a_{208} - 2a_{209} - a_{210} - a_{211} + a_{212} + 3a_{213} + \\
& a_{214} + a_{215}
\end{aligned}
$$

$$
a_{284} = \frac{a_{156} + \sqrt{a_{156}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_0 - 2a_1 + a_5 - a_6 - a_{13} + a_{14} - \\
& a_8 - 2a_{30} + 4a_{15} + a_{18} + a_{19} - a_{20} + \\
& 2a_{62} - 3a_{31} + 2a_{33} - a_{35} + a_{36} + 2a_{37} + \\
& a_{38} + 4a_{39} - a_{40} + a_{41} + a_{42} + a_{43} - \\
& a_{44} + 2a_{94} - a_{95} + a_{96} - 3a_{97} - 2a_{98} + \\
& 2a_{99} - 2a_{100} - 2a_{101} - a_{102} - 2a_{103} - 2a_{106} - \\
& a_{107} + a_{108} + a_{109} - 3a_{111} + a_{112} - a_{113} - \\
& 2a_{114} + a_{116} + 2a_{117} - a_{118} + a_{119} - a_{120} - \\
& a_{121} - a_{122} + 2a_{123} - a_{124} + 2a_{157} - 3a_{158} - \\
& a_{160} + a_{161} - a_{163} + a_{164} + a_{165} - 2a_{166} + \\
& a_{167} - 2a_{169} + a_{171} - a_{172} - a_{175} - 2a_{176} + \\
& a_{177} - 2a_{180} - 2a_{181} + 3a_{186} - a_{187} - a_{188} + \\
& a_{191} - a_{193} - a_{194} + 2a_{195} - 2a_{196} - a_{198} - \\
& 2a_{199} - 2a_{201} - a_{202} - a_{203} + a_{205} - 4a_{207} - \\
& a_{209} - 2a_{210} - a_{211} - a_{212} + a_{213} + 3a_{214} + \\
& a_{215} + a_{216}
\end{aligned}
$$

$$
a_{285} = \frac{a_{157} + \sqrt{a_{157}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_0 - 2a_2 + a_6 - a_3 - a_{14} + a_7 - \\
& a_9 - 2a_{15} + 4a_{16} + a_{19} + a_{20} - a_{21} + \\
& 2a_{31} - 3a_{32} + 2a_{34} - a_{36} + a_{37} + 2a_{38} + \\
& a_{39} + 4a_{40} - a_{41} + a_{42} + a_{43} + a_{44} - \\
& a_{45} + 2a_{95} - a_{96} + a_{97} - 3a_{98} - 2a_{99} + \\
& 2a_{100} - 2a_{101} - 2a_{102} - a_{103} - 2a_{104} - 2a_{107} - \\
& a_{108} + a_{109} + a_{110} - 3a_{112} + a_{113} - a_{114} - \\
& 2a_{115} + a_{117} + 2a_{118} - a_{119} + a_{120} - a_{121} - \\
& a_{122} - a_{123} + 2a_{124} - a_{125} + 2a_{158} - 3a_{159} - \\
& a_{161} + a_{162} - a_{164} + a_{165} + a_{166} - 2a_{167} + \\
& a_{168} - 2a_{170} + a_{172} - a_{173} - a_{176} - 2a_{177} + \\
& a_{178} - 2a_{181} - 2a_{182} + 3a_{187} - a_{188} - a_{189} + \\
& a_{192} - a_{194} - a_{195} + 2a_{196} - 2a_{197} - a_{199} - \\
& 2a_{200} - 2a_{202} - a_{203} - a_{204} + a_{206} - 4a_{208} - \\
& a_{210} - 2a_{211} - a_{212} - a_{213} + a_{214} + 3a_{215} + \\
& a_{216} + a_{217}
\end{aligned}
$$

$$
a_{286} = \frac{a_{158} + \sqrt{a_{158}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_0 - 2a_1 + a_3 - a_4 - a_7 + a_8 - \\
& a_{10} - 2a_{16} + 4a_{17} + a_{20} + a_{21} - a_{22} + \\
& 2a_{32} - 3a_{33} + 2a_{35} - a_{37} + a_{38} + 2a_{39} + \\
& a_{40} + 4a_{41} - a_{42} + a_{43} + a_{44} + a_{45} - \\
& a_{46} + 2a_{96} - a_{97} + a_{98} - 3a_{99} - 2a_{100} + \\
& 2a_{101} - 2a_{102} - 2a_{103} - a_{104} - 2a_{105} - 2a_{108} - \\
& a_{109} + a_{110} + a_{111} - 3a_{113} + a_{114} - a_{115} - \\
& 2a_{116} + a_{118} + 2a_{119} - a_{120} + a_{121} - a_{122} - \\
& a_{123} - a_{124} + 2a_{125} - a_{126} + 2a_{159} - 3a_{160} - \\
& a_{162} + a_{163} - a_{165} + a_{166} + a_{167} - 2a_{168} + \\
& a_{169} - 2a_{171} + a_{173} - a_{174} - a_{177} - 2a_{178} + \\
& a_{179} - 2a_{182} - 2a_{183} + 3a_{188} - a_{189} - a_{190} + \\
& a_{193} - a_{195} - a_{196} + 2a_{197} - 2a_{198} - a_{200} - \\
& 2a_{201} - 2a_{203} - a_{204} - a_{205} + a_{207} - 4a_{209} - \\
& a_{211} - 2a_{212} - a_{213} - a_{214} + a_{215} + 3a_{216} + \\
& a_{217} + a_{218}
\end{aligned}
$$

$$
a_{287} = \frac{a_{159} + \sqrt{a_{159}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_0 - 2a_2 + a_4 - a_5 - a_8 + a_9 - \\
& a_{11} - 2a_{17} + 4a_{18} + a_{21} + a_{22} - a_{23} + \\
& 2a_{33} - 3a_{34} + 2a_{36} - a_{38} + a_{39} + 2a_{40} + \\
& a_{41} + 4a_{42} - a_{43} + a_{44} + a_{45} + a_{46} - \\
& a_{47} + 2a_{97} - a_{98} + a_{99} - 3a_{100} - 2a_{101} + \\
& 2a_{102} - 2a_{103} - 2a_{104} - a_{105} - 2a_{106} - 2a_{109} - \\
& a_{110} + a_{111} + a_{112} - 3a_{114} + a_{115} - a_{116} - \\
& 2a_{117} + a_{119} + 2a_{120} - a_{121} + a_{122} - a_{123} - \\
& a_{124} - a_{125} + 2a_{126} - a_{63} + 2a_{160} - 3a_{161} - \\
& a_{163} + a_{164} - a_{166} + a_{167} + a_{168} - 2a_{169} + \\
& a_{170} - 2a_{172} + a_{174} - a_{175} - a_{178} - 2a_{179} + \\
& a_{180} - 2a_{183} - 2a_{184} + 3a_{189} - a_{190} - a_{191} + \\
& a_{194} - a_{196} - a_{197} + 2a_{198} - 2a_{199} - a_{201} - \\
& 2a_{202} - 2a_{204} - a_{205} - a_{206} + a_{208} - 4a_{210} - \\
& a_{212} - 2a_{213} - a_{214} - a_{215} + a_{216} + 3a_{217} +
\end{aligned}
$$

$$
\begin{aligned}
& a_{218} + a_{219} \\
a_{288} &= \frac{a_{160} + \sqrt{a_{160}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_1 + a_5 - a_6 - a_9 + a_{10} - \\
& a_{12} - 2a_{18} + 4a_{19} + a_{22} + a_{23} - a_{24} + \\
& 2a_{34} - 3a_{35} + 2a_{37} - a_{39} + a_{40} + 2a_{41} + \\
& a_{42} + 4a_{43} - a_{44} + a_{45} + a_{46} + a_{47} - \\
& a_{48} + 2a_{98} - a_{99} + a_{100} - 3a_{101} - 2a_{102} + \\
& 2a_{103} - 2a_{104} - 2a_{105} - a_{106} - 2a_{107} - 2a_{110} - \\
& a_{111} + a_{112} + a_{113} - 3a_{115} + a_{116} - a_{117} - \\
& 2a_{118} + a_{120} + 2a_{121} - a_{122} + a_{123} - a_{124} - \\
& a_{125} - a_{126} + 2a_{63} - a_{64} + 2a_{161} - 3a_{162} - \\
& a_{164} + a_{165} - a_{167} + a_{168} + a_{169} - 2a_{170} + \\
& a_{171} - 2a_{173} + a_{175} - a_{176} - a_{179} - 2a_{180} + \\
& a_{181} - 2a_{184} - 2a_{185} + 3a_{190} - a_{191} - a_{192} + \\
& a_{195} - a_{197} - a_{198} + 2a_{199} - 2a_{200} - a_{202} - \\
& 2a_{203} - 2a_{205} - a_{206} - a_{207} + a_{209} - 4a_{211} - \\
& a_{213} - 2a_{214} - a_{215} - a_{216} + a_{217} + 3a_{218} + \\
& a_{219} + a_{220} \\
a_{289} &= \frac{a_{161} + \sqrt{a_{161}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_2 + a_6 - a_3 - a_{10} + a_{11} - \\
& a_{13} - 2a_{19} + 4a_{20} + a_{23} + a_{24} - a_{25} + \\
& 2a_{35} - 3a_{36} + 2a_{38} - a_{40} + a_{41} + 2a_{42} + \\
& a_{43} + 4a_{44} - a_{45} + a_{46} + a_{47} + a_{48} - \\
& a_{49} + 2a_{99} - a_{100} + a_{101} - 3a_{102} - 2a_{103} + \\
& 2a_{104} - 2a_{105} - 2a_{106} - a_{107} - 2a_{108} - 2a_{111} - \\
& a_{112} + a_{113} + a_{114} - 3a_{116} + a_{117} - a_{118} - \\
& 2a_{119} + a_{121} + 2a_{122} - a_{123} + a_{124} - a_{125} - \\
& a_{126} - a_{63} + 2a_{64} - a_{65} + 2a_{162} - 3a_{163} - \\
& a_{165} + a_{166} - a_{168} + a_{169} + a_{170} - 2a_{171} + \\
& a_{172} - 2a_{174} + a_{176} - a_{177} - a_{180} - 2a_{181} + \\
& a_{182} - 2a_{185} - 2a_{186} + 3a_{191} - a_{192} - a_{193} + \\
& a_{196} - a_{198} - a_{199} + 2a_{200} - 2a_{201} - a_{203} - \\
& 2a_{204} - 2a_{206} - a_{207} - a_{208} + a_{210} - 4a_{212} - \\
& a_{214} - 2a_{215} - a_{216} - a_{217} + a_{218} + 3a_{219} + \\
& a_{220} + a_{221} \\
a_{290} &= \frac{a_{162} - \sqrt{a_{162}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_1 + a_3 - a_4 - a_{11} + a_{12} - \\
& a_{14} - 2a_{20} + 4a_{21} + a_{24} + a_{25} - a_{26} + \\
& 2a_{36} - 3a_{37} + 2a_{39} - a_{41} + a_{42} + 2a_{43} + \\
& a_{44} + 4a_{45} - a_{46} + a_{47} + a_{48} + a_{49} - \\
& a_{50} + 2a_{100} - a_{101} + a_{102} - 3a_{103} - 2a_{104} + \\
& 2a_{105} - 2a_{106} - 2a_{107} - a_{108} - 2a_{109} - 2a_{112} - \\
& a_{113} + a_{114} + a_{115} - 3a_{117} + a_{118} - a_{119} - \\
& 2a_{120} + a_{122} + 2a_{123} - a_{124} + a_{125} - a_{126} - \\
& a_{63} - a_{64} + 2a_{65} - a_{66} + 2a_{163} - 3a_{164} - \\
& a_{166} + a_{167} - a_{169} + a_{170} + a_{171} - 2a_{172} + \\
& a_{173} - 2a_{175} + a_{177} - a_{178} - a_{181} - 2a_{182} + \\
& a_{183} - 2a_{186} - 2a_{187} + 3a_{192} - a_{193} - a_{194} + \\
& a_{197} - a_{199} - a_{200} + 2a_{201} - 2a_{202} - a_{204} - \\
& 2a_{205} - 2a_{207} - a_{208} - a_{209} + a_{211} - 4a_{213} - \\
& a_{215} - 2a_{216} - a_{217} - a_{218} + a_{219} + 3a_{220} + \\
& a_{221} + a_{222} \\
a_{291} &= \frac{a_{163} - \sqrt{a_{163}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_2 + a_4 - a_5 - a_{12} + a_{13} - \\
& a_7 - 2a_{21} + 4a_{22} + a_{25} + a_{26} - a_{27} + \\
& 2a_{37} - 3a_{38} + 2a_{40} - a_{42} + a_{43} + 2a_{44} + \\
& a_{45} + 4a_{46} - a_{47} + a_{48} + a_{49} + a_{50} - \\
& a_{51} + 2a_{101} - a_{102} + a_{103} - 3a_{104} - 2a_{105} + \\
& 2a_{106} - 2a_{107} - 2a_{108} - a_{109} - 2a_{110} - 2a_{113} - \\
& a_{114} + a_{115} + a_{116} - 3a_{118} + a_{119} - a_{120} - \\
& 2a_{121} + a_{123} + 2a_{124} - a_{125} + a_{126} - a_{63} - \\
& a_{64} - a_{65} + 2a_{66} - a_{67} + 2a_{164} - 3a_{165} - \\
& a_{167} + a_{168} - a_{170} + a_{171} + a_{172} - 2a_{173} + \\
& a_{174} - 2a_{176} + a_{178} - a_{179} - a_{182} - 2a_{183} + \\
& a_{184} - 2a_{187} - 2a_{188} + 3a_{193} - a_{194} - a_{195} + \\
& a_{198} - a_{200} - a_{201} + 2a_{202} - 2a_{203} - a_{205} - \\
& 2a_{206} - 2a_{208} - a_{209} - a_{210} + a_{212} - 4a_{214} - \\
& a_{216} - 2a_{217} - a_{218} - a_{219} + a_{220} + 3a_{221} + \\
& a_{222} + a_{223} \\
a_{292} &= \frac{a_{164} - \sqrt{a_{164}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_1 + a_5 - a_6 - a_{13} + a_{14} - \\
& a_8 - 2a_{22} + 4a_{23} + a_{26} + a_{27} - a_{28} + \\
& 2a_{38} - 3a_{39} + 2a_{41} - a_{43} + a_{44} + 2a_{45} + \\
& a_{46} + 4a_{47} - a_{48} + a_{49} + a_{50} + a_{51} - \\
& a_{52} + 2a_{102} - a_{103} + a_{104} - 3a_{105} - 2a_{106} + \\
& 2a_{107} - 2a_{108} - 2a_{109} - a_{110} - 2a_{111} - 2a_{114} - \\
& a_{115} + a_{116} + a_{117} - 3a_{119} + a_{120} - a_{121} - \\
& 2a_{122} + a_{124} + 2a_{125} - a_{126} + a_{63} - a_{64} - \\
& a_{65} - a_{66} + 2a_{67} - a_{68} + 2a_{165} - 3a_{166} - \\
& a_{168} + a_{169} - a_{171} + a_{172} + a_{173} - 2a_{174} + \\
& a_{175} - 2a_{177} + a_{179} - a_{180} - a_{183} - 2a_{184} + \\
& a_{185} - 2a_{188} - 2a_{189} + 3a_{194} - a_{195} - a_{196} + \\
& a_{199} - a_{201} - a_{202} + 2a_{203} - 2a_{204} - a_{206} - \\
& 2a_{207} - 2a_{209} - a_{210} - a_{211} + a_{213} - 4a_{215} - \\
& a_{217} - 2a_{218} - a_{219} - a_{220} + a_{221} + 3a_{222} + \\
& a_{223} + a_{224} \\
a_{293} &= \frac{a_{165} - \sqrt{a_{165}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_2 + a_6 - a_3 - a_{14} + a_7 - \\
& a_9 - 2a_{23} + 4a_{24} + a_{27} + a_{28} - a_{29} + \\
& 2a_{39} - 3a_{40} + 2a_{42} - a_{44} + a_{45} + 2a_{46} + \\
& a_{47} + 4a_{48} - a_{49} + a_{50} + a_{51} + a_{52} -
\end{aligned}
$$

$$
\begin{aligned}
& a_{53} + 2a_{103} - a_{104} + a_{105} - 3a_{106} - 2a_{107} + \\
& 2a_{108} - 2a_{109} - 2a_{110} - a_{111} - 2a_{112} - 2a_{115} - \\
& a_{116} + a_{117} + a_{118} - 3a_{120} + a_{121} - a_{122} - \\
& 2a_{123} + a_{125} + 2a_{126} - a_{63} + a_{64} - a_{65} - \\
& a_{66} - a_{67} + 2a_{68} - a_{69} + 2a_{166} - 3a_{167} - \\
& a_{169} + a_{170} - a_{172} + a_{173} + a_{174} - 2a_{175} + \\
& a_{176} - 2a_{178} + a_{180} - a_{181} - a_{184} - 2a_{185} + \\
& a_{186} - 2a_{189} - 2a_{190} + 3a_{195} - a_{196} - a_{197} + \\
& a_{200} - a_{202} - a_{203} + 2a_{204} - 2a_{205} - a_{207} - \\
& 2a_{208} - 2a_{210} - a_{211} - a_{212} + a_{214} - 4a_{216} - \\
& a_{218} - 2a_{219} - a_{220} - a_{221} + a_{222} + 3a_{223} + \\
& a_{224} + a_{225}
\end{aligned}
$$

$$
a_{294} = \frac{a_{166} - \sqrt{a_{166}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_0 - 2a_1 + a_3 - a_4 - a_7 + a_8 - \\
& a_{10} - 2a_{24} + 4a_{25} + a_{28} + a_{29} - a_{30} + \\
& 2a_{40} - 3a_{41} + 2a_{43} - a_{45} + a_{46} + 2a_{47} + \\
& a_{48} + 4a_{49} - a_{50} + a_{51} + a_{52} + a_{53} - \\
& a_{54} + 2a_{104} - a_{105} + a_{106} - 3a_{107} - 2a_{108} + \\
& 2a_{109} - 2a_{110} - 2a_{111} - a_{112} - 2a_{113} - 2a_{116} - \\
& a_{117} + a_{118} + a_{119} - 3a_{121} + a_{122} - a_{123} - \\
& 2a_{124} + a_{126} + 2a_{63} - a_{64} + a_{65} - a_{66} - \\
& a_{67} - a_{68} + 2a_{69} - a_{70} + 2a_{167} - 3a_{168} - \\
& a_{170} + a_{171} - a_{173} + a_{174} + a_{175} - 2a_{176} + \\
& a_{177} - 2a_{179} + a_{181} - a_{182} - a_{185} - 2a_{186} + \\
& a_{187} - 2a_{190} - 2a_{191} + 3a_{196} - a_{197} - a_{198} + \\
& a_{201} - a_{203} - a_{204} + 2a_{205} - 2a_{206} - a_{208} - \\
& 2a_{209} - 2a_{211} - a_{212} - a_{213} + a_{215} - 4a_{217} - \\
& a_{219} - 2a_{220} - a_{221} - a_{222} + a_{223} + 3a_{224} + \\
& a_{225} + a_{226}
\end{aligned}
$$

$$
a_{295} = \frac{a_{167} + \sqrt{a_{167}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_0 - 2a_2 + a_4 - a_5 - a_8 + a_9 - \\
& a_{11} - 2a_{25} + 4a_{26} + a_{29} + a_{30} - a_{15} + \\
& 2a_{41} - 3a_{42} + 2a_{44} - a_{46} + a_{47} + 2a_{48} + \\
& a_{49} + 4a_{50} - a_{51} + a_{52} + a_{53} + a_{54} - \\
& a_{55} + 2a_{105} - a_{106} + a_{107} - 3a_{108} - 2a_{109} + \\
& 2a_{110} - 2a_{111} - 2a_{112} - a_{113} - 2a_{114} - 2a_{117} - \\
& a_{118} + a_{119} + a_{120} - 3a_{122} + a_{123} - a_{124} - \\
& 2a_{125} + a_{63} + 2a_{64} - a_{65} + a_{66} - a_{67} - \\
& a_{68} - a_{69} + 2a_{70} - a_{71} + 2a_{168} - 3a_{169} - \\
& a_{171} + a_{172} - a_{174} + a_{175} + a_{176} - 2a_{177} + \\
& a_{178} - 2a_{180} + a_{182} - a_{183} - a_{186} - 2a_{187} + \\
& a_{188} - 2a_{191} - 2a_{192} + 3a_{197} - a_{198} - a_{199} + \\
& a_{202} - a_{204} - a_{205} + 2a_{206} - 2a_{207} - a_{209} - \\
& 2a_{210} - 2a_{212} - a_{213} - a_{214} + a_{216} - 4a_{218} - \\
& a_{220} - 2a_{221} - a_{222} - a_{223} + a_{224} + 3a_{225} + \\
& a_{226} + a_{227}
\end{aligned}
$$

$$
a_{296} = \frac{a_{168} - \sqrt{a_{168}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_0 - 2a_1 + a_5 - a_6 - a_9 + a_{10} - \\
& a_{12} - 2a_{26} + 4a_{27} + a_{30} + a_{15} - a_{16} + \\
& 2a_{42} - 3a_{43} + 2a_{45} - a_{47} + a_{48} + 2a_{49} + \\
& a_{50} + 4a_{51} - a_{52} + a_{53} + a_{54} + a_{55} - \\
& a_{56} + 2a_{106} - a_{107} + a_{108} - 3a_{109} - 2a_{110} + \\
& 2a_{111} - 2a_{112} - 2a_{113} - a_{114} - 2a_{115} - 2a_{118} - \\
& a_{119} + a_{120} + a_{121} - 3a_{123} + a_{124} - a_{125} - \\
& 2a_{126} + a_{64} + 2a_{65} - a_{66} + a_{67} - a_{68} - \\
& a_{69} - a_{70} + 2a_{71} - a_{72} + 2a_{169} - 3a_{170} - \\
& a_{172} + a_{173} - a_{175} + a_{176} + a_{177} - 2a_{178} + \\
& a_{179} - 2a_{181} + a_{183} - a_{184} - a_{187} - 2a_{188} + \\
& a_{189} - 2a_{192} - 2a_{193} + 3a_{198} - a_{199} - a_{200} + \\
& a_{203} - a_{205} - a_{206} + 2a_{207} - 2a_{208} - a_{210} - \\
& 2a_{211} - 2a_{213} - a_{214} - a_{215} + a_{217} - 4a_{219} - \\
& a_{221} - 2a_{222} - a_{223} - a_{224} + a_{225} + 3a_{226} + \\
& a_{227} + a_{228}
\end{aligned}
$$

$$
a_{297} = \frac{a_{169} - \sqrt{a_{169}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_0 - 2a_2 + a_6 - a_3 - a_{10} + a_{11} - \\
& a_{13} - 2a_{27} + 4a_{28} + a_{15} + a_{16} - a_{17} + \\
& 2a_{43} - 3a_{44} + 2a_{46} - a_{48} + a_{49} + 2a_{50} + \\
& a_{51} + 4a_{52} - a_{53} + a_{54} + a_{55} + a_{56} - \\
& a_{57} + 2a_{107} - a_{108} + a_{109} - 3a_{110} - 2a_{111} + \\
& 2a_{112} - 2a_{113} - 2a_{114} - a_{115} - 2a_{116} - 2a_{119} - \\
& a_{120} + a_{121} + a_{122} - 3a_{124} + a_{125} - a_{126} - \\
& 2a_{63} + a_{65} + 2a_{66} - a_{67} + a_{68} - a_{69} - \\
& a_{70} - a_{71} + 2a_{72} - a_{73} + 2a_{170} - 3a_{171} - \\
& a_{173} + a_{174} - a_{176} + a_{177} + a_{178} - 2a_{179} + \\
& a_{180} - 2a_{182} + a_{184} - a_{185} - a_{188} - 2a_{189} + \\
& a_{190} - 2a_{193} - 2a_{194} + 3a_{199} - a_{200} - a_{201} + \\
& a_{204} - a_{206} - a_{207} + 2a_{208} - 2a_{209} - a_{211} - \\
& 2a_{212} - 2a_{214} - a_{215} - a_{216} + a_{218} - 4a_{220} - \\
& a_{222} - 2a_{223} - a_{224} - a_{225} + a_{226} + 3a_{227} + \\
& a_{228} + a_{229}
\end{aligned}
$$

$$
a_{298} = \frac{a_{170} + \sqrt{a_{170}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_0 - 2a_1 + a_3 - a_4 - a_{11} + a_{12} - \\
& a_{14} - 2a_{28} + 4a_{29} + a_{16} + a_{17} - a_{18} + \\
& 2a_{44} - 3a_{45} + 2a_{47} - a_{49} + a_{50} + 2a_{51} + \\
& a_{52} + 4a_{53} - a_{54} + a_{55} + a_{56} + a_{57} - \\
& a_{58} + 2a_{108} - a_{109} + a_{110} - 3a_{111} - 2a_{112} + \\
& 2a_{113} - 2a_{114} - 2a_{115} - a_{116} - 2a_{117} - 2a_{120} - \\
& a_{121} + a_{122} + a_{123} - 3a_{125} + a_{126} - a_{63} - \\
& 2a_{64} + a_{66} + 2a_{67} - a_{68} + a_{69} - a_{70} - \\
& a_{71} - a_{72} + 2a_{73} - a_{74} + 2a_{171} - 3a_{172} - \\
& a_{174} + a_{175} - a_{177} + a_{178} + a_{179} - 2a_{180} + \\
& a_{181} - 2a_{183} + a_{185} - a_{186} - a_{189} - 2a_{190} +
\end{aligned}
$$

$$
\begin{aligned}
& a_{191} - 2a_{194} - 2a_{195} + 3a_{200} - a_{201} - a_{202} + \\
& a_{205} - a_{207} - a_{208} + 2a_{209} - 2a_{210} - a_{212} - \\
& 2a_{213} - 2a_{215} - a_{216} - a_{217} + a_{219} - 4a_{221} - \\
& a_{223} - 2a_{224} - a_{225} - a_{226} + a_{227} + 3a_{228} + \\
& a_{229} + a_{230} \\
a_{299} &= \frac{a_{171} - \sqrt{a_{171}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_2 + a_4 - a_5 - a_{12} + a_{13} - \\
& a_7 - 2a_{29} + 4a_{30} + a_{17} + a_{18} - a_{19} + \\
& 2a_{45} - 3a_{46} + 2a_{48} - a_{50} + a_{51} + 2a_{52} + \\
& a_{53} + 4a_{54} - a_{55} + a_{56} + a_{57} + a_{58} - \\
& a_{59} + 2a_{109} - a_{110} + a_{111} - 3a_{112} - 2a_{113} + \\
& 2a_{114} - 2a_{115} - 2a_{116} - a_{117} - 2a_{118} - 2a_{121} - \\
& a_{122} + a_{123} + a_{124} - 3a_{126} + a_{63} - a_{64} - \\
& 2a_{65} + a_{67} + 2a_{68} - a_{69} + a_{70} - a_{71} - \\
& a_{72} - a_{73} + 2a_{74} - a_{75} + 2a_{172} - 3a_{173} - \\
& a_{175} + a_{176} - a_{178} + a_{179} + a_{180} - 2a_{181} + \\
& a_{182} - 2a_{184} + a_{186} - a_{187} - a_{190} - 2a_{191} + \\
& a_{192} - 2a_{195} - 2a_{196} + 3a_{201} - a_{202} - a_{203} + \\
& a_{206} - a_{208} - a_{209} + 2a_{210} - 2a_{211} - a_{213} - \\
& 2a_{214} - 2a_{216} - a_{217} - a_{218} + a_{220} - 4a_{222} - \\
& a_{224} - 2a_{225} - a_{226} - a_{227} + a_{228} + 3a_{229} + \\
& a_{230} + a_{231}
\end{aligned}
$$

$$
\begin{aligned}
a_{300} &= \frac{a_{172} - \sqrt{a_{172}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_1 + a_5 - a_6 - a_{13} + a_{14} - \\
& a_8 - 2a_{30} + 4a_{15} + a_{18} + a_{19} - a_{20} + \\
& 2a_{46} - 3a_{47} + 2a_{49} - a_{51} + a_{52} + 2a_{53} + \\
& a_{54} + 4a_{55} - a_{56} + a_{57} + a_{58} + a_{59} - \\
& a_{60} + 2a_{110} - a_{111} + a_{112} - 3a_{113} - 2a_{114} + \\
& 2a_{115} - 2a_{116} - 2a_{117} - a_{118} - 2a_{119} - 2a_{122} - \\
& a_{123} + a_{124} + a_{125} - 3a_{63} + a_{64} - a_{65} - \\
& 2a_{66} + a_{68} + 2a_{69} - a_{70} + a_{71} - a_{72} - \\
& a_{73} - a_{74} + 2a_{75} - a_{76} + 2a_{173} - 3a_{174} - \\
& a_{176} + a_{177} - a_{179} + a_{180} + a_{181} - 2a_{182} + \\
& a_{183} - 2a_{185} + a_{187} - a_{188} - a_{191} - 2a_{192} + \\
& a_{193} - 2a_{196} - 2a_{197} + 3a_{202} - a_{203} - a_{204} + \\
& a_{207} - a_{209} - a_{210} + 2a_{211} - 2a_{212} - a_{214} - \\
& 2a_{215} - 2a_{217} - a_{218} - a_{219} + a_{221} - 4a_{223} - \\
& a_{225} - 2a_{226} - a_{227} - a_{228} + a_{229} + 3a_{230} + \\
& a_{231} + a_{232} \\
a_{301} &= \frac{a_{173} + \sqrt{a_{173}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_2 + a_6 - a_3 - a_{14} + a_7 - \\
& a_9 - 2a_{15} + 4a_{16} + a_{19} + a_{20} - a_{21} + \\
& 2a_{47} - 3a_{48} + 2a_{50} - a_{52} + a_{53} + 2a_{54} + \\
& a_{55} + 4a_{56} - a_{57} + a_{58} + a_{59} + a_{60} - \\
& a_{61} + 2a_{111} - a_{112} + a_{113} - 3a_{114} - 2a_{115} + \\
& 2a_{116} - 2a_{117} - 2a_{118} - a_{119} - 2a_{120} - 2a_{123} - \\
& a_{124} + a_{125} + a_{126} - 3a_{64} + a_{65} - a_{66} - \\
& 2a_{67} + a_{69} + 2a_{70} - a_{71} + a_{72} - a_{73} - \\
& a_{74} - a_{75} + 2a_{76} - a_{77} + 2a_{174} - 3a_{175} - \\
& a_{177} + a_{178} - a_{180} + a_{181} + a_{182} - 2a_{183} + \\
& a_{184} - 2a_{186} + a_{188} - a_{189} - a_{192} - 2a_{193} + \\
& a_{194} - 2a_{197} - 2a_{198} + 3a_{203} - a_{204} - a_{205} + \\
& a_{208} - a_{210} - a_{211} + 2a_{212} - 2a_{213} - a_{215} - \\
& 2a_{216} - 2a_{218} - a_{219} - a_{220} + a_{222} - 4a_{224} - \\
& a_{226} - 2a_{227} - a_{228} - a_{229} + a_{230} + 3a_{231} + \\
& a_{232} + a_{233}
\end{aligned}
$$

$$
\begin{aligned}
a_{302} &= \frac{a_{174} - \sqrt{a_{174}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_1 + a_3 - a_4 - a_7 + a_8 - \\
& a_{10} - 2a_{16} + 4a_{17} + a_{20} + a_{21} - a_{22} + \\
& 2a_{48} - 3a_{49} + 2a_{51} - a_{53} + a_{54} + 2a_{55} + \\
& a_{56} + 4a_{57} - a_{58} + a_{59} + a_{60} + a_{61} - \\
& a_{62} + 2a_{112} - a_{113} + a_{114} - 3a_{115} - 2a_{116} + \\
& 2a_{117} - 2a_{118} - 2a_{119} - a_{120} - 2a_{121} - 2a_{124} - \\
& a_{125} + a_{126} + a_{63} - 3a_{65} + a_{66} - a_{67} - \\
& 2a_{68} + a_{70} + 2a_{71} - a_{72} + a_{73} - a_{74} - \\
& a_{75} - a_{76} + 2a_{77} - a_{78} + 2a_{175} - 3a_{176} - \\
& a_{178} + a_{179} - a_{181} + a_{182} + a_{183} - 2a_{184} + \\
& a_{185} - 2a_{187} + a_{189} - a_{190} - a_{193} - 2a_{194} + \\
& a_{195} - 2a_{198} - 2a_{199} + 3a_{204} - a_{205} - a_{206} + \\
& a_{209} - a_{211} - a_{212} + 2a_{213} - 2a_{214} - a_{216} - \\
& 2a_{217} - 2a_{219} - a_{220} - a_{221} + a_{223} - 4a_{225} - \\
& a_{227} - 2a_{228} - a_{229} - a_{230} + a_{231} + 3a_{232} + \\
& a_{233} + a_{234} \\
a_{303} &= \frac{a_{175} + \sqrt{a_{175}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_2 + a_4 - a_5 - a_8 + a_9 - \\
& a_{11} - 2a_{17} + 4a_{18} + a_{21} + a_{22} - a_{23} + \\
& 2a_{49} - 3a_{50} + 2a_{52} - a_{54} + a_{55} + 2a_{56} + \\
& a_{57} + 4a_{58} - a_{59} + a_{60} + a_{61} + a_{62} - \\
& a_{31} + 2a_{113} - a_{114} + a_{115} - 3a_{116} - 2a_{117} + \\
& 2a_{118} - 2a_{119} - 2a_{120} - a_{121} - 2a_{122} - 2a_{125} - \\
& a_{126} + a_{63} + a_{64} - 3a_{66} + a_{67} - a_{68} - \\
& 2a_{69} + a_{71} + 2a_{72} - a_{73} + a_{74} - a_{75} - \\
& a_{76} - a_{77} + 2a_{78} - a_{79} + 2a_{176} - 3a_{177} - \\
& a_{179} + a_{180} - a_{182} + a_{183} + a_{184} - 2a_{185} + \\
& a_{186} - 2a_{188} + a_{190} - a_{191} - a_{194} - 2a_{195} + \\
& a_{196} - 2a_{199} - 2a_{200} + 3a_{205} - a_{206} - a_{207} + \\
& a_{210} - a_{212} - a_{213} + 2a_{214} - 2a_{215} - a_{217} - \\
& 2a_{218} - 2a_{220} - a_{221} - a_{222} + a_{224} - 4a_{226} - \\
& a_{228} - 2a_{229} - a_{230} - a_{231} + a_{232} + 3a_{233} + \\
& a_{234} + a_{235} \\
a_{304} &= \frac{a_{176} - \sqrt{a_{176}^2 - 4x}}{2}
\end{aligned}
$$

$$
\begin{aligned}
x &= 2a_0 - 2a_1 + a_5 - a_6 - a_9 + a_{10} - \\
&\quad a_{12} - 2a_{18} + 4a_{19} + a_{22} + a_{23} - a_{24} + \\
&\quad 2a_{50} - 3a_{51} + 2a_{53} - a_{55} + a_{56} + 2a_{57} + \\
&\quad a_{58} + 4a_{59} - a_{60} + a_{61} + a_{62} + a_{31} - \\
&\quad a_{32} + 2a_{114} - a_{115} + a_{116} - 3a_{117} - 2a_{118} + \\
&\quad 2a_{119} - 2a_{120} - 2a_{121} - a_{122} - 2a_{123} - 2a_{126} - \\
&\quad a_{63} + a_{64} + a_{65} - 3a_{67} + a_{68} - a_{69} - \\
&\quad 2a_{70} + a_{72} + 2a_{73} - a_{74} + a_{75} - a_{76} - \\
&\quad a_{77} - a_{78} + 2a_{79} - a_{80} + 2a_{177} - 3a_{178} - \\
&\quad a_{180} + a_{181} - a_{183} + a_{184} + a_{185} - 2a_{186} + \\
&\quad a_{187} - 2a_{189} + a_{191} - a_{192} - a_{195} - 2a_{196} + \\
&\quad a_{197} - 2a_{200} - 2a_{201} + 3a_{206} - a_{207} - a_{208} + \\
&\quad a_{211} - a_{213} - a_{214} + 2a_{215} - 2a_{216} - a_{218} - \\
&\quad 2a_{219} - 2a_{221} - a_{222} - a_{223} + a_{225} - 4a_{227} - \\
&\quad a_{229} - 2a_{230} - a_{231} - a_{232} + a_{233} + 3a_{234} + \\
&\quad a_{235} + a_{236} \\
a_{305} &= \frac{a_{177} - \sqrt{a_{177}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_2 + a_6 - a_3 - a_{10} + a_{11} - \\
&\quad a_{13} - 2a_{19} + 4a_{20} + a_{23} + a_{24} - a_{25} + \\
&\quad 2a_{51} - 3a_{52} + 2a_{54} - a_{56} + a_{57} + 2a_{58} + \\
&\quad a_{59} + 4a_{60} - a_{61} + a_{62} + a_{31} + a_{32} - \\
&\quad a_{33} + 2a_{115} - a_{116} + a_{117} - 3a_{118} - 2a_{119} + \\
&\quad 2a_{120} - 2a_{121} - 2a_{122} - a_{123} - 2a_{124} - 2a_{63} - \\
&\quad a_{64} + a_{65} + a_{66} - 3a_{68} + a_{69} - a_{70} - \\
&\quad 2a_{71} + a_{73} + 2a_{74} - a_{75} + a_{76} - a_{77} - \\
&\quad a_{78} - a_{79} + 2a_{80} - a_{81} + 2a_{178} - 3a_{179} - \\
&\quad a_{181} + a_{182} - a_{184} + a_{185} + a_{186} - 2a_{187} + \\
&\quad a_{188} - 2a_{190} + a_{192} - a_{193} - a_{196} - 2a_{197} + \\
&\quad a_{198} - 2a_{201} - 2a_{202} + 3a_{207} - a_{208} - a_{209} + \\
&\quad a_{212} - a_{214} - a_{215} + 2a_{216} - 2a_{217} - a_{219} - \\
&\quad 2a_{220} - 2a_{222} - a_{223} - a_{224} + a_{226} - 4a_{228} - \\
&\quad a_{230} - 2a_{231} - a_{232} - a_{233} + a_{234} + 3a_{235} + \\
&\quad a_{236} + a_{237} \\
a_{306} &= \frac{a_{178} - \sqrt{a_{178}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_1 + a_3 - a_4 - a_{11} + a_{12} - \\
&\quad a_{14} - 2a_{20} + 4a_{21} + a_{24} + a_{25} - a_{26} + \\
&\quad 2a_{52} - 3a_{53} + 2a_{55} - a_{57} + a_{58} + 2a_{59} + \\
&\quad a_{60} + 4a_{61} - a_{62} + a_{31} + a_{32} + a_{33} - \\
&\quad a_{34} + 2a_{116} - a_{117} + a_{118} - 3a_{119} - 2a_{120} + \\
&\quad 2a_{121} - 2a_{122} - 2a_{123} - a_{124} - 2a_{125} - 2a_{64} - \\
&\quad a_{65} + a_{66} + a_{67} - 3a_{69} + a_{70} - a_{71} - \\
&\quad 2a_{72} + a_{74} + 2a_{75} - a_{76} + a_{77} - a_{78} - \\
&\quad a_{79} - a_{80} + 2a_{81} - a_{82} + 2a_{179} - 3a_{180} - \\
&\quad a_{182} + a_{183} - a_{185} + a_{186} + a_{187} - 2a_{188} + \\
&\quad a_{189} - 2a_{191} + a_{193} - a_{194} - a_{197} - 2a_{198} + \\
&\quad a_{199} - 2a_{202} - 2a_{203} + 3a_{208} - a_{209} - a_{210} + \\
&\quad a_{213} - a_{215} - a_{216} + 2a_{217} - 2a_{218} - a_{220} - \\
&\quad 2a_{221} - 2a_{223} - a_{224} - a_{225} + a_{227} - 4a_{229} - \\
&\quad a_{231} - 2a_{232} - a_{233} - a_{234} + a_{235} + 3a_{236} + \\
&\quad a_{237} + a_{238} \\
a_{307} &= \frac{a_{179} + \sqrt{a_{179}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_2 + a_4 - a_5 - a_{12} + a_{13} - \\
&\quad a_7 - 2a_{21} + 4a_{22} + a_{25} + a_{26} - a_{27} + \\
&\quad 2a_{53} - 3a_{54} + 2a_{56} - a_{58} + a_{59} + 2a_{60} + \\
&\quad a_{61} + 4a_{62} - a_{31} + a_{32} + a_{33} + a_{34} - \\
&\quad a_{35} + 2a_{117} - a_{118} + a_{119} - 3a_{120} - 2a_{121} + \\
&\quad 2a_{122} - 2a_{123} - 2a_{124} - a_{125} - 2a_{126} - 2a_{65} - \\
&\quad a_{66} + a_{67} + a_{68} - 3a_{70} + a_{71} - a_{72} - \\
&\quad 2a_{73} + a_{75} + 2a_{76} - a_{77} + a_{78} - a_{79} - \\
&\quad a_{80} - a_{81} + 2a_{82} - a_{83} + 2a_{180} - 3a_{181} - \\
&\quad a_{183} + a_{184} - a_{186} + a_{187} + a_{188} - 2a_{189} + \\
&\quad a_{190} - 2a_{192} + a_{194} - a_{195} - a_{198} - 2a_{199} + \\
&\quad a_{200} - 2a_{203} - 2a_{204} + 3a_{209} - a_{210} - a_{211} + \\
&\quad a_{214} - a_{216} - a_{217} + 2a_{218} - 2a_{219} - a_{221} - \\
&\quad 2a_{222} - 2a_{224} - a_{225} - a_{226} + a_{228} - 4a_{230} - \\
&\quad a_{232} - 2a_{233} - a_{234} - a_{235} + a_{236} + 3a_{237} + \\
&\quad a_{238} + a_{239} \\
a_{308} &= \frac{a_{180} - \sqrt{a_{180}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_1 + a_5 - a_6 - a_{13} + a_{14} - \\
&\quad a_8 - 2a_{22} + 4a_{23} + a_{26} + a_{27} - a_{28} + \\
&\quad 2a_{54} - 3a_{55} + 2a_{57} - a_{59} + a_{60} + 2a_{61} + \\
&\quad a_{62} + 4a_{31} - a_{32} + a_{33} + a_{34} + a_{35} - \\
&\quad a_{36} + 2a_{118} - a_{119} + a_{120} - 3a_{121} - 2a_{122} + \\
&\quad 2a_{123} - 2a_{124} - 2a_{125} - a_{126} - 2a_{63} - 2a_{66} - \\
&\quad a_{67} + a_{68} + a_{69} - 3a_{71} + a_{72} - a_{73} - \\
&\quad 2a_{74} + a_{76} + 2a_{77} - a_{78} + a_{79} - a_{80} - \\
&\quad a_{81} - a_{82} + 2a_{83} - a_{84} + 2a_{181} - 3a_{182} - \\
&\quad a_{184} + a_{185} - a_{187} + a_{188} + a_{189} - 2a_{190} + \\
&\quad a_{191} - 2a_{193} + a_{195} - a_{196} - a_{199} - 2a_{200} + \\
&\quad a_{201} - 2a_{204} - 2a_{205} + 3a_{210} - a_{211} - a_{212} + \\
&\quad a_{215} - a_{217} - a_{218} + 2a_{219} - 2a_{220} - a_{222} - \\
&\quad 2a_{223} - 2a_{225} - a_{226} - a_{227} + a_{229} - 4a_{231} - \\
&\quad a_{233} - 2a_{234} - a_{235} - a_{236} + a_{237} + 3a_{238} + \\
&\quad a_{239} + a_{240} \\
a_{309} &= \frac{a_{181} + \sqrt{a_{181}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_2 + a_6 - a_3 - a_{14} + a_7 - \\
&\quad a_9 - 2a_{23} + 4a_{24} + a_{27} + a_{28} - a_{29} + \\
&\quad 2a_{55} - 3a_{56} + 2a_{58} - a_{60} + a_{61} + 2a_{62} + \\
&\quad a_{31} + 4a_{32} - a_{33} + a_{34} + a_{35} + a_{36} - \\
&\quad a_{37} + 2a_{119} - a_{120} + a_{121} - 3a_{122} - 2a_{123} + \\
&\quad 2a_{124} - 2a_{125} - 2a_{126} - a_{63} - 2a_{64} - 2a_{67} - \\
&\quad a_{68} + a_{69} + a_{70} - 3a_{72} + a_{73} - a_{74} - \\
&\quad 2a_{75} + a_{77} + 2a_{78} - a_{79} + a_{80} - a_{81} -
\end{aligned}
$$

$$
\begin{aligned}
& a_{82} - a_{83} + 2a_{84} - a_{85} + 2a_{182} - 3a_{183} - \\
& a_{185} + a_{186} - a_{188} + a_{189} + a_{190} - 2a_{191} + \\
& a_{192} - 2a_{194} + a_{196} - a_{197} - a_{200} - 2a_{201} + \\
& a_{202} - 2a_{205} - 2a_{206} + 3a_{211} - a_{212} - a_{213} + \\
& a_{216} - a_{218} - a_{219} + 2a_{220} - 2a_{221} - a_{223} - \\
& 2a_{224} - 2a_{226} - a_{227} - a_{228} + a_{230} - 4a_{232} - \\
& a_{234} - 2a_{235} - a_{236} - a_{237} + a_{238} + 3a_{239} + \\
& a_{240} + a_{241}
\end{aligned}
$$

$$
\begin{aligned}
a_{310} &= \frac{a_{182} + \sqrt{a_{182}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_1 + a_3 - a_4 - a_7 + a_8 - \\
& a_{10} - 2a_{24} + 4a_{25} + a_{28} + a_{29} - a_{30} + \\
& 2a_{56} - 3a_{57} + 2a_{59} - a_{61} + a_{62} + 2a_{31} + \\
& a_{32} + 4a_{33} - a_{34} + a_{35} + a_{36} + a_{37} - \\
& a_{38} + 2a_{120} - a_{121} + a_{122} - 3a_{123} - 2a_{124} + \\
& 2a_{125} - 2a_{126} - 2a_{63} - a_{64} - 2a_{65} - 2a_{68} - \\
& a_{69} + a_{70} + a_{71} - 3a_{73} + a_{74} - a_{75} - \\
& 2a_{76} + a_{78} + 2a_{79} - a_{80} + a_{81} - a_{82} - \\
& a_{83} - a_{84} + 2a_{85} - a_{86} + 2a_{183} - 3a_{184} - \\
& a_{186} + a_{187} - a_{189} + a_{190} + a_{191} - 2a_{192} + \\
& a_{193} - 2a_{195} + a_{197} - a_{198} - a_{201} - 2a_{202} + \\
& a_{203} - 2a_{206} - 2a_{207} + 3a_{212} - a_{213} - a_{214} + \\
& a_{217} - a_{219} - a_{220} + 2a_{221} - 2a_{222} - a_{224} - \\
& 2a_{225} - 2a_{227} - a_{228} - a_{229} + a_{231} - 4a_{233} - \\
& a_{235} - 2a_{236} - a_{237} - a_{238} + a_{239} + 3a_{240} + \\
& a_{241} + a_{242}
\end{aligned}
$$

$$
\begin{aligned}
a_{311} &= \frac{a_{183} - \sqrt{a_{183}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_2 + a_4 - a_5 - a_8 + a_9 - \\
& a_{11} - 2a_{25} + 4a_{26} + a_{29} + a_{30} - a_{15} + \\
& 2a_{57} - 3a_{58} + 2a_{60} - a_{62} + a_{31} + 2a_{32} + \\
& a_{33} + 4a_{34} - a_{35} + a_{36} + a_{37} + a_{38} - \\
& a_{39} + 2a_{121} - a_{122} + a_{123} - 3a_{124} - 2a_{125} + \\
& 2a_{126} - 2a_{63} - 2a_{64} - a_{65} - 2a_{66} - 2a_{69} - \\
& a_{70} + a_{71} + a_{72} - 3a_{74} + a_{75} - a_{76} - \\
& 2a_{77} + a_{79} + 2a_{80} - a_{81} + a_{82} - a_{83} - \\
& a_{84} - a_{85} + 2a_{86} - a_{87} + 2a_{184} - 3a_{185} - \\
& a_{187} + a_{188} - a_{190} + a_{191} + a_{192} - 2a_{193} + \\
& a_{194} - 2a_{196} + a_{198} - a_{199} - a_{202} - 2a_{203} + \\
& a_{204} - 2a_{207} - 2a_{208} + 3a_{213} - a_{214} - a_{215} + \\
& a_{218} - a_{220} - a_{221} + 2a_{222} - 2a_{223} - a_{225} - \\
& 2a_{226} - 2a_{228} - a_{229} - a_{230} + a_{232} - 4a_{234} - \\
& a_{236} - 2a_{237} - a_{238} - a_{239} + a_{240} + 3a_{241} + \\
& a_{242} + a_{243}
\end{aligned}
$$

$$
\begin{aligned}
a_{312} &= \frac{a_{184} - \sqrt{a_{184}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_1 + a_5 - a_6 - a_9 + a_{10} - \\
& a_{12} - 2a_{26} + 4a_{27} + a_{30} + a_{15} - a_{16} + \\
& 2a_{58} - 3a_{59} + 2a_{61} - a_{31} + a_{32} + 2a_{33} + \\
& a_{34} + 4a_{35} - a_{36} + a_{37} + a_{38} + a_{39} - \\
& a_{40} + 2a_{122} - a_{123} + a_{124} - 3a_{125} - 2a_{126} + \\
& 2a_{63} - 2a_{64} - 2a_{65} - a_{66} - 2a_{67} - 2a_{70} - \\
& a_{71} + a_{72} + a_{73} - 3a_{75} + a_{76} - a_{77} - \\
& 2a_{78} + a_{80} + 2a_{81} - a_{82} + a_{83} - a_{84} - \\
& a_{85} - a_{86} + 2a_{87} - a_{88} + 2a_{185} - 3a_{186} - \\
& a_{188} + a_{189} - a_{191} + a_{192} + a_{193} - 2a_{194} + \\
& a_{195} - 2a_{197} + a_{199} - a_{200} - a_{203} - 2a_{204} + \\
& a_{205} - 2a_{208} - 2a_{209} + 3a_{214} - a_{215} - a_{216} + \\
& a_{219} - a_{221} - a_{222} + 2a_{223} - 2a_{224} - a_{226} - \\
& 2a_{227} - 2a_{229} - a_{230} - a_{231} + a_{233} - 4a_{235} - \\
& a_{237} - 2a_{238} - a_{239} - a_{240} + a_{241} + 3a_{242} + \\
& a_{243} + a_{244}
\end{aligned}
$$

$$
\begin{aligned}
a_{313} &= \frac{a_{185} - \sqrt{a_{185}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_2 + a_6 - a_3 - a_{10} + a_{11} - \\
& a_{13} - 2a_{27} + 4a_{28} + a_{15} + a_{16} - a_{17} + \\
& 2a_{59} - 3a_{60} + 2a_{62} - a_{32} + a_{33} + 2a_{34} + \\
& a_{35} + 4a_{36} - a_{37} + a_{38} + a_{39} + a_{40} - \\
& a_{41} + 2a_{123} - a_{124} + a_{125} - 3a_{126} - 2a_{63} + \\
& 2a_{64} - 2a_{65} - 2a_{66} - a_{67} - 2a_{68} - 2a_{71} - \\
& a_{72} + a_{73} + a_{74} - 3a_{76} + a_{77} - a_{78} - \\
& 2a_{79} + a_{81} + 2a_{82} - a_{83} + a_{84} - a_{85} - \\
& a_{86} - a_{87} + 2a_{88} - a_{89} + 2a_{186} - 3a_{187} - \\
& a_{189} + a_{190} - a_{192} + a_{193} + a_{194} - 2a_{195} + \\
& a_{196} - 2a_{198} + a_{200} - a_{201} - a_{204} - 2a_{205} + \\
& a_{206} - 2a_{209} - 2a_{210} + 3a_{215} - a_{216} - a_{217} + \\
& a_{220} - a_{222} - a_{223} + 2a_{224} - 2a_{225} - a_{227} - \\
& 2a_{228} - 2a_{230} - a_{231} - a_{232} + a_{234} - 4a_{236} - \\
& a_{238} - 2a_{239} - a_{240} - a_{241} + a_{242} + 3a_{243} + \\
& a_{244} + a_{245}
\end{aligned}
$$

$$
\begin{aligned}
a_{314} &= \frac{a_{186} + \sqrt{a_{186}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_1 + a_3 - a_4 - a_{11} + a_{12} - \\
& a_{14} - 2a_{28} + 4a_{29} + a_{16} + a_{17} - a_{18} + \\
& 2a_{60} - 3a_{61} + 2a_{31} - a_{33} + a_{34} + 2a_{35} + \\
& a_{36} + 4a_{37} - a_{38} + a_{39} + a_{40} + a_{41} - \\
& a_{42} + 2a_{124} - a_{125} + a_{126} - 3a_{63} - 2a_{64} + \\
& 2a_{65} - 2a_{66} - 2a_{67} - a_{68} - 2a_{69} - 2a_{72} - \\
& a_{73} + a_{74} + a_{75} - 3a_{77} + a_{78} - a_{79} - \\
& 2a_{80} + a_{82} + 2a_{83} - a_{84} + a_{85} - a_{86} - \\
& a_{87} - a_{88} + 2a_{89} - a_{90} + 2a_{187} - 3a_{188} - \\
& a_{190} + a_{191} - a_{193} + a_{194} + a_{195} - 2a_{196} + \\
& a_{197} - 2a_{199} + a_{201} - a_{202} - a_{205} - 2a_{206} + \\
& a_{207} - 2a_{210} - 2a_{211} + 3a_{216} - a_{217} - a_{218} + \\
& a_{221} - a_{223} - a_{224} + 2a_{225} - 2a_{226} - a_{228} - \\
& 2a_{229} - 2a_{231} - a_{232} - a_{233} + a_{235} - 4a_{237} - \\
& a_{239} - 2a_{240} - a_{241} - a_{242} + a_{243} + 3a_{244} +
\end{aligned}
$$

$$
\begin{aligned}
& a_{245} + a_{246} \\
a_{315} &= \frac{a_{187} + \sqrt{a_{187}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_2 + a_4 - a_5 - a_{12} + a_{13} - \\
& a_7 - 2a_{29} + 4a_{30} + a_{17} + a_{18} - a_{19} + \\
& 2a_{61} - 3a_{62} + 2a_{32} - a_{34} + a_{35} + 2a_{36} + \\
& a_{37} + 4a_{38} - a_{39} + a_{40} + a_{41} + a_{42} - \\
& a_{43} + 2a_{125} - a_{126} + a_{63} - 3a_{64} - 2a_{65} + \\
& 2a_{66} - 2a_{67} - 2a_{68} - a_{69} - 2a_{70} - 2a_{73} - \\
& a_{74} + a_{75} + a_{76} - 3a_{78} + a_{79} - a_{80} - \\
& 2a_{81} + a_{83} + 2a_{84} - a_{85} + a_{86} - a_{87} - \\
& a_{88} - a_{89} + 2a_{90} - a_{91} + 2a_{188} - 3a_{189} - \\
& a_{191} + a_{192} - a_{194} + a_{195} + a_{196} - 2a_{197} + \\
& a_{198} - 2a_{200} + a_{202} - a_{203} - a_{206} - 2a_{207} + \\
& a_{208} - 2a_{211} - 2a_{212} + 3a_{217} - a_{218} - a_{219} + \\
& a_{222} - a_{224} - a_{225} + 2a_{226} - 2a_{227} - a_{229} - \\
& 2a_{230} - 2a_{232} - a_{233} - a_{234} + a_{236} - 4a_{238} - \\
& a_{240} - 2a_{241} - a_{242} - a_{243} + a_{244} + 3a_{245} + \\
& a_{246} + a_{247} \\
a_{316} &= \frac{a_{188} - \sqrt{a_{188}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_1 + a_5 - a_6 - a_{13} + a_{14} - \\
& a_8 - 2a_{30} + 4a_{15} + a_{18} + a_{19} - a_{20} + \\
& 2a_{62} - 3a_{31} + 2a_{33} - a_{35} + a_{36} + 2a_{37} + \\
& a_{38} + 4a_{39} - a_{40} + a_{41} + a_{42} + a_{43} - \\
& a_{44} + 2a_{126} - a_{63} + a_{64} - 3a_{65} - 2a_{66} + \\
& 2a_{67} - 2a_{68} - 2a_{69} - a_{70} - 2a_{71} - 2a_{74} - \\
& a_{75} + a_{76} + a_{77} - 3a_{79} + a_{80} - a_{81} - \\
& 2a_{82} + a_{84} + 2a_{85} - a_{86} + a_{87} - a_{88} - \\
& a_{89} - a_{90} + 2a_{91} - a_{92} + 2a_{189} - 3a_{190} - \\
& a_{192} + a_{193} - a_{195} + a_{196} + a_{197} - 2a_{198} + \\
& a_{199} - 2a_{201} + a_{203} - a_{204} - a_{207} - 2a_{208} + \\
& a_{209} - 2a_{212} - 2a_{213} + 3a_{218} - a_{219} - a_{220} + \\
& a_{223} - a_{225} - a_{226} + 2a_{227} - 2a_{228} - a_{230} - \\
& 2a_{231} - 2a_{233} - a_{234} - a_{235} + a_{237} - 4a_{239} - \\
& a_{241} - 2a_{242} - a_{243} - a_{244} + a_{245} + 3a_{246} + \\
& a_{247} + a_{248} \\
a_{317} &= \frac{a_{189} + \sqrt{a_{189}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_2 + a_6 - a_3 - a_{14} + a_7 - \\
& a_9 - 2a_{15} + 4a_{16} + a_{19} + a_{20} - a_{21} + \\
& 2a_{31} - 3a_{32} + 2a_{34} - a_{36} + a_{37} + 2a_{38} + \\
& a_{39} + 4a_{40} - a_{41} + a_{42} + a_{43} + a_{44} - \\
& a_{45} + 2a_{63} - a_{64} + a_{65} - 3a_{66} - 2a_{67} + \\
& 2a_{68} - 2a_{69} - 2a_{70} - a_{71} - 2a_{72} - 2a_{75} - \\
& a_{76} + a_{77} + a_{78} - 3a_{80} + a_{81} - a_{82} - \\
& 2a_{83} + a_{85} + 2a_{86} - a_{87} + a_{88} - a_{89} - \\
& a_{90} - a_{91} + 2a_{92} - a_{93} + 2a_{190} - 3a_{191} - \\
& a_{193} + a_{194} - a_{196} + a_{197} + a_{198} - 2a_{199} + \\
& a_{200} - 2a_{202} + a_{204} - a_{205} - a_{208} - 2a_{209} + \\
& a_{210} - 2a_{213} - 2a_{214} + 3a_{219} - a_{220} - a_{221} + \\
& a_{224} - a_{226} - a_{227} + 2a_{228} - 2a_{229} - a_{231} - \\
& 2a_{232} - 2a_{234} - a_{235} - a_{236} + a_{238} - 4a_{240} - \\
& a_{242} - 2a_{243} - a_{244} - a_{245} + a_{246} + 3a_{247} + \\
& a_{248} + a_{249} \\
a_{318} &= \frac{a_{190} - \sqrt{a_{190}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_1 + a_3 - a_4 - a_7 + a_8 - \\
& a_{10} - 2a_{16} + 4a_{17} + a_{20} + a_{21} - a_{22} + \\
& 2a_{32} - 3a_{33} + 2a_{35} - a_{37} + a_{38} + 2a_{39} + \\
& a_{40} + 4a_{41} - a_{42} + a_{43} + a_{44} + a_{45} - \\
& a_{46} + 2a_{64} - a_{65} + a_{66} - 3a_{67} - 2a_{68} + \\
& 2a_{69} - 2a_{70} - 2a_{71} - a_{72} - 2a_{73} - 2a_{76} - \\
& a_{77} + a_{78} + a_{79} - 3a_{81} + a_{82} - a_{83} - \\
& 2a_{84} + a_{86} + 2a_{87} - a_{88} + a_{89} - a_{90} - \\
& a_{91} - a_{92} + 2a_{93} - a_{94} + 2a_{191} - 3a_{192} - \\
& a_{194} + a_{195} - a_{197} + a_{198} + a_{199} - 2a_{200} + \\
& a_{201} - 2a_{203} + a_{205} - a_{206} - a_{209} - 2a_{210} + \\
& a_{211} - 2a_{214} - 2a_{215} + 3a_{220} - a_{221} - a_{222} + \\
& a_{225} - a_{227} - a_{228} + 2a_{229} - 2a_{230} - a_{232} - \\
& 2a_{233} - 2a_{235} - a_{236} - a_{237} + a_{239} - 4a_{241} - \\
& a_{243} - 2a_{244} - a_{245} - a_{246} + a_{247} + 3a_{248} + \\
& a_{249} + a_{250} \\
a_{319} &= \frac{a_{191} + \sqrt{a_{191}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_2 + a_4 - a_5 - a_8 + a_9 - \\
& a_{11} - 2a_{17} + 4a_{18} + a_{21} + a_{22} - a_{23} + \\
& 2a_{33} - 3a_{34} + 2a_{36} - a_{38} + a_{39} + 2a_{40} + \\
& a_{41} + 4a_{42} - a_{43} + a_{44} + a_{45} + a_{46} - \\
& a_{47} + 2a_{65} - a_{66} + a_{67} - 3a_{68} - 2a_{69} + \\
& 2a_{70} - 2a_{71} - 2a_{72} - a_{73} - 2a_{74} - 2a_{77} - \\
& a_{78} + a_{79} + a_{80} - 3a_{82} + a_{83} - a_{84} - \\
& 2a_{85} + a_{87} + 2a_{88} - a_{89} + a_{90} - a_{91} - \\
& a_{92} - a_{93} + 2a_{94} - a_{95} + 2a_{192} - 3a_{193} - \\
& a_{195} + a_{196} - a_{198} + a_{199} + a_{200} - 2a_{201} + \\
& a_{202} - 2a_{204} + a_{206} - a_{207} - a_{210} - 2a_{211} + \\
& a_{212} - 2a_{215} - 2a_{216} + 3a_{221} - a_{222} - a_{223} + \\
& a_{226} - a_{228} - a_{229} + 2a_{230} - 2a_{231} - a_{233} - \\
& 2a_{234} - 2a_{236} - a_{237} - a_{238} + a_{240} - 4a_{242} - \\
& a_{244} - 2a_{245} - a_{246} - a_{247} + a_{248} + 3a_{249} + \\
& a_{250} + a_{251} \\
a_{320} &= \frac{a_{192} + \sqrt{a_{192}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_1 + a_5 - a_6 - a_9 + a_{10} - \\
& a_{12} - 2a_{18} + 4a_{19} + a_{22} + a_{23} - a_{24} + \\
& 2a_{34} - 3a_{35} + 2a_{37} - a_{39} + a_{40} + 2a_{41} + \\
& a_{42} + 4a_{43} - a_{44} + a_{45} + a_{46} + a_{47} -
\end{aligned}
$$

$$
\begin{aligned}
& a_{48} + 2a_{66} - a_{67} + a_{68} - 3a_{69} - 2a_{70} + \\
& 2a_{71} - 2a_{72} - 2a_{73} - a_{74} - 2a_{75} - 2a_{78} - \\
& a_{79} + a_{80} + a_{81} - 3a_{83} + a_{84} - a_{85} - \\
& 2a_{86} + a_{88} + 2a_{89} - a_{90} + a_{91} - a_{92} - \\
& a_{93} - a_{94} + 2a_{95} - a_{96} + 2a_{193} - 3a_{194} - \\
& a_{196} + a_{197} - a_{199} + a_{200} + a_{201} - 2a_{202} + \\
& a_{203} - 2a_{205} + a_{207} - a_{208} - a_{211} - 2a_{212} + \\
& a_{213} - 2a_{216} - 2a_{217} + 3a_{222} - a_{223} - a_{224} + \\
& a_{227} - a_{229} - a_{230} + 2a_{231} - 2a_{232} - a_{234} - \\
& 2a_{235} - 2a_{237} - a_{238} - a_{239} + a_{241} - 4a_{243} - \\
& a_{245} - 2a_{246} - a_{247} - a_{248} + a_{249} + 3a_{250} + \\
& a_{251} + a_{252}
\end{aligned}
$$

$$
a_{321} = \frac{a_{193} + \sqrt{a_{193}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_0 - 2a_2 + a_6 - a_3 - a_{10} + a_{11} - \\
& a_{13} - 2a_{19} + 4a_{20} + a_{23} + a_{24} - a_{25} + \\
& 2a_{35} - 3a_{36} + 2a_{38} - a_{40} + a_{41} + 2a_{42} + \\
& a_{43} + 4a_{44} - a_{45} + a_{46} + a_{47} + a_{48} - \\
& a_{49} + 2a_{67} - a_{68} + a_{69} - 3a_{70} - 2a_{71} + \\
& 2a_{72} - 2a_{73} - 2a_{74} - a_{75} - 2a_{76} - 2a_{79} - \\
& a_{80} + a_{81} + a_{82} - 3a_{84} + a_{85} - a_{86} - \\
& 2a_{87} + a_{89} + 2a_{90} - a_{91} + a_{92} - a_{93} - \\
& a_{94} - a_{95} + 2a_{96} - a_{97} + 2a_{194} - 3a_{195} - \\
& a_{197} + a_{198} - a_{200} + a_{201} + a_{202} - 2a_{203} + \\
& a_{204} - 2a_{206} + a_{208} - a_{209} - a_{212} - 2a_{213} + \\
& a_{214} - 2a_{217} - 2a_{218} + 3a_{223} - a_{224} - a_{225} + \\
& a_{228} - a_{230} - a_{231} + 2a_{232} - 2a_{233} - a_{235} - \\
& 2a_{236} - 2a_{238} - a_{239} - a_{240} + a_{242} - 4a_{244} - \\
& a_{246} - 2a_{247} - a_{248} - a_{249} + a_{250} + 3a_{251} + \\
& a_{252} + a_{253}
\end{aligned}
$$

$$
a_{322} = \frac{a_{194} - \sqrt{a_{194}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_0 - 2a_1 + a_3 - a_4 - a_{11} + a_{12} - \\
& a_{14} - 2a_{20} + 4a_{21} + a_{24} + a_{25} - a_{26} + \\
& 2a_{36} - 3a_{37} + 2a_{39} - a_{41} + a_{42} + 2a_{43} + \\
& a_{44} + 4a_{45} - a_{46} + a_{47} + a_{48} + a_{49} - \\
& a_{50} + 2a_{68} - a_{69} + a_{70} - 3a_{71} - 2a_{72} + \\
& 2a_{73} - 2a_{74} - 2a_{75} - a_{76} - 2a_{77} - 2a_{80} - \\
& a_{81} + a_{82} + a_{83} - 3a_{85} + a_{86} - a_{87} - \\
& 2a_{88} + a_{90} + 2a_{91} - a_{92} + a_{93} - a_{94} - \\
& a_{95} - a_{96} + 2a_{97} - a_{98} + 2a_{195} - 3a_{196} - \\
& a_{198} + a_{199} - a_{201} + a_{202} + a_{203} - 2a_{204} + \\
& a_{205} - 2a_{207} + a_{209} - a_{210} - a_{213} - 2a_{214} + \\
& a_{215} - 2a_{218} - 2a_{219} + 3a_{224} - a_{225} - a_{226} + \\
& a_{229} - a_{231} - a_{232} + 2a_{233} - 2a_{234} - a_{236} - \\
& 2a_{237} - 2a_{239} - a_{240} - a_{241} + a_{243} - 4a_{245} - \\
& a_{247} - 2a_{248} - a_{249} - a_{250} + a_{251} + 3a_{252} + \\
& a_{253} + a_{254}
\end{aligned}
$$

$$
a_{323} = \frac{a_{195} + \sqrt{a_{195}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_0 - 2a_2 + a_4 - a_5 - a_{12} + a_{13} - \\
& a_7 - 2a_{21} + 4a_{22} + a_{25} + a_{26} - a_{27} + \\
& 2a_{37} - 3a_{38} + 2a_{40} - a_{42} + a_{43} + 2a_{44} + \\
& a_{45} + 4a_{46} - a_{47} + a_{48} + a_{49} + a_{50} - \\
& a_{51} + 2a_{69} - a_{70} + a_{71} - 3a_{72} - 2a_{73} + \\
& 2a_{74} - 2a_{75} - 2a_{76} - a_{77} - 2a_{78} - 2a_{81} - \\
& a_{82} + a_{83} + a_{84} - 3a_{86} + a_{87} - a_{88} - \\
& 2a_{89} + a_{91} + 2a_{92} - a_{93} + a_{94} - a_{95} - \\
& a_{96} - a_{97} + 2a_{98} - a_{99} + 2a_{196} - 3a_{197} - \\
& a_{199} + a_{200} - a_{202} + a_{203} + a_{204} - 2a_{205} + \\
& a_{206} - 2a_{208} + a_{210} - a_{211} - a_{214} - 2a_{215} + \\
& a_{216} - 2a_{219} - 2a_{220} + 3a_{225} - a_{226} - a_{227} + \\
& a_{230} - a_{232} - a_{233} + 2a_{234} - 2a_{235} - a_{237} - \\
& 2a_{238} - 2a_{240} - a_{241} - a_{242} + a_{244} - 4a_{246} - \\
& a_{248} - 2a_{249} - a_{250} - a_{251} + a_{252} + 3a_{253} + \\
& a_{254} + a_{127}
\end{aligned}
$$

$$
a_{324} = \frac{a_{196} - \sqrt{a_{196}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_0 - 2a_1 + a_5 - a_6 - a_{13} + a_{14} - \\
& a_8 - 2a_{22} + 4a_{23} + a_{26} + a_{27} - a_{28} + \\
& 2a_{38} - 3a_{39} + 2a_{41} - a_{43} + a_{44} + 2a_{45} + \\
& a_{46} + 4a_{47} - a_{48} + a_{49} + a_{50} + a_{51} - \\
& a_{52} + 2a_{70} - a_{71} + a_{72} - 3a_{73} - 2a_{74} + \\
& 2a_{75} - 2a_{76} - 2a_{77} - a_{78} - 2a_{79} - 2a_{82} - \\
& a_{83} + a_{84} + a_{85} - 3a_{87} + a_{88} - a_{89} - \\
& 2a_{90} + a_{92} + 2a_{93} - a_{94} + a_{95} - a_{96} - \\
& a_{97} - a_{98} + 2a_{99} - a_{100} + 2a_{197} - 3a_{198} - \\
& a_{200} + a_{201} - a_{203} + a_{204} + a_{205} - 2a_{206} + \\
& a_{207} - 2a_{209} + a_{211} - a_{212} - a_{215} - 2a_{216} + \\
& a_{217} - 2a_{220} - 2a_{221} + 3a_{226} - a_{227} - a_{228} + \\
& a_{231} - a_{233} - a_{234} + 2a_{235} - 2a_{236} - a_{238} - \\
& 2a_{239} - 2a_{241} - a_{242} - a_{243} + a_{245} - 4a_{247} - \\
& a_{249} - 2a_{250} - a_{251} - a_{252} + a_{253} + 3a_{254} + \\
& a_{127} + a_{128}
\end{aligned}
$$

$$
a_{325} = \frac{a_{197} + \sqrt{a_{197}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_0 - 2a_2 + a_6 - a_3 - a_{14} + a_7 - \\
& a_9 - 2a_{23} + 4a_{24} + a_{27} + a_{28} - a_{29} + \\
& 2a_{39} - 3a_{40} + 2a_{42} - a_{44} + a_{45} + 2a_{46} + \\
& a_{47} + 4a_{48} - a_{49} + a_{50} + a_{51} + a_{52} - \\
& a_{53} + 2a_{71} - a_{72} + a_{73} - 3a_{74} - 2a_{75} + \\
& 2a_{76} - 2a_{77} - 2a_{78} - a_{79} - 2a_{80} - 2a_{83} - \\
& a_{84} + a_{85} + a_{86} - 3a_{88} + a_{89} - a_{90} - \\
& 2a_{91} + a_{93} + 2a_{94} - a_{95} + a_{96} - a_{97} - \\
& a_{98} - a_{99} + 2a_{100} - a_{101} + 2a_{198} - 3a_{199} - \\
& a_{201} + a_{202} - a_{204} + a_{205} + a_{206} - 2a_{207} + \\
& a_{208} - 2a_{210} + a_{212} - a_{213} - a_{216} - 2a_{217} +
\end{aligned}
$$

$$
\begin{aligned}
& a_{218} - 2a_{221} - 2a_{222} + 3a_{227} - a_{228} - a_{229} + \\
& a_{232} - a_{234} - a_{235} + 2a_{236} - 2a_{237} - a_{239} - \\
& 2a_{240} - 2a_{242} - a_{243} - a_{244} + a_{246} - 4a_{248} - \\
& a_{250} - 2a_{251} - a_{252} - a_{253} + a_{254} + 3a_{127} + \\
& a_{128} + a_{129} \\
a_{326} &= \frac{a_{198} + \sqrt{a_{198}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_1 + a_3 - a_4 - a_7 + a_8 - \\
& a_{10} - 2a_{24} + 4a_{25} + a_{28} + a_{29} - a_{30} + \\
& 2a_{40} - 3a_{41} + 2a_{43} - a_{45} + a_{46} + 2a_{47} + \\
& a_{48} + 4a_{49} - a_{50} + a_{51} + a_{52} + a_{53} - \\
& a_{54} + 2a_{72} - a_{73} + a_{74} - 3a_{75} - 2a_{76} + \\
& 2a_{77} - 2a_{78} - 2a_{79} - a_{80} - 2a_{81} - 2a_{84} - \\
& a_{85} + a_{86} + a_{87} - 3a_{89} + a_{90} - a_{91} - \\
& 2a_{92} + a_{94} + 2a_{95} - a_{96} + a_{97} - a_{98} - \\
& a_{99} - a_{100} + 2a_{101} - a_{102} + 2a_{199} - 3a_{200} - \\
& a_{202} + a_{203} - a_{205} + a_{206} + a_{207} - 2a_{208} + \\
& a_{209} - 2a_{211} + a_{213} - a_{214} - a_{217} - 2a_{218} + \\
& a_{219} - 2a_{222} - 2a_{223} + 3a_{228} - a_{229} - a_{230} + \\
& a_{233} - a_{235} - a_{236} + 2a_{237} - 2a_{238} - a_{240} - \\
& 2a_{241} - 2a_{243} - a_{244} - a_{245} + a_{247} - 4a_{249} - \\
& a_{251} - 2a_{252} - a_{253} - a_{254} + a_{127} + 3a_{128} + \\
& a_{129} + a_{130} \\
a_{327} &= \frac{a_{199} + \sqrt{a_{199}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_2 + a_4 - a_5 - a_8 + a_9 - \\
& a_{11} - 2a_{25} + 4a_{26} + a_{29} + a_{30} - a_{15} + \\
& 2a_{41} - 3a_{42} + 2a_{44} - a_{46} + a_{47} + 2a_{48} + \\
& a_{49} + 4a_{50} - a_{51} + a_{52} + a_{53} + a_{54} - \\
& a_{55} + 2a_{73} - a_{74} + a_{75} - 3a_{76} - 2a_{77} + \\
& 2a_{78} - 2a_{79} - 2a_{80} - a_{81} - 2a_{82} - 2a_{85} - \\
& a_{86} + a_{87} + a_{88} - 3a_{90} + a_{91} - a_{92} - \\
& 2a_{93} + a_{95} + 2a_{96} - a_{97} + a_{98} - a_{99} - \\
& a_{100} - a_{101} + 2a_{102} - a_{103} + 2a_{200} - 3a_{201} - \\
& a_{203} + a_{204} - a_{206} + a_{207} + a_{208} - 2a_{209} + \\
& a_{210} - 2a_{212} + a_{214} - a_{215} - a_{218} - 2a_{219} + \\
& a_{220} - 2a_{223} - 2a_{224} + 3a_{229} - a_{230} - a_{231} + \\
& a_{234} - a_{236} - a_{237} + 2a_{238} - 2a_{239} - a_{241} - \\
& 2a_{242} - 2a_{244} - a_{245} - a_{246} + a_{248} - 4a_{250} - \\
& a_{252} - 2a_{253} - a_{254} - a_{127} + a_{128} + 3a_{129} + \\
& a_{130} + a_{131} \\
a_{328} &= \frac{a_{200} + \sqrt{a_{200}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_1 + a_5 - a_6 - a_9 + a_{10} - \\
& a_{12} - 2a_{26} + 4a_{27} + a_{30} + a_{15} - a_{16} + \\
& 2a_{42} - 3a_{43} + 2a_{45} - a_{47} + a_{48} + 2a_{49} + \\
& a_{50} + 4a_{51} - a_{52} + a_{53} + a_{54} + a_{55} - \\
& a_{56} + 2a_{74} - a_{75} + a_{76} - 3a_{77} - 2a_{78} + \\
& 2a_{79} - 2a_{80} - 2a_{81} - a_{82} - 2a_{83} - 2a_{86} - \\
& a_{87} + a_{88} + a_{89} - 3a_{91} + a_{92} - a_{93} - \\
& 2a_{94} + a_{96} + 2a_{97} - a_{98} + a_{99} - a_{100} - \\
& a_{101} - a_{102} + 2a_{103} - a_{104} + 2a_{201} - 3a_{202} - \\
& a_{204} + a_{205} - a_{207} + a_{208} + a_{209} - 2a_{210} + \\
& a_{211} - 2a_{213} + a_{215} - a_{216} - a_{219} - 2a_{220} + \\
& a_{221} - 2a_{224} - 2a_{225} + 3a_{230} - a_{231} - a_{232} + \\
& a_{235} - a_{237} - a_{238} + 2a_{239} - 2a_{240} - a_{242} - \\
& 2a_{243} - 2a_{245} - a_{246} - a_{247} + a_{249} - 4a_{251} - \\
& a_{253} - 2a_{254} - a_{127} - a_{128} + a_{129} + 3a_{130} + \\
& a_{131} + a_{132} \\
a_{329} &= \frac{a_{201} - \sqrt{a_{201}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_2 + a_6 - a_3 - a_{10} + a_{11} - \\
& a_{13} - 2a_{27} + 4a_{28} + a_{15} + a_{16} - a_{17} + \\
& 2a_{43} - 3a_{44} + 2a_{46} - a_{48} + a_{49} + 2a_{50} + \\
& a_{51} + 4a_{52} - a_{53} + a_{54} + a_{55} + a_{56} - \\
& a_{57} + 2a_{75} - a_{76} + a_{77} - 3a_{78} - 2a_{79} + \\
& 2a_{80} - 2a_{81} - 2a_{82} - a_{83} - 2a_{84} - 2a_{87} - \\
& a_{88} + a_{89} + a_{90} - 3a_{92} + a_{93} - a_{94} - \\
& 2a_{95} + a_{97} + 2a_{98} - a_{99} + a_{100} - a_{101} - \\
& a_{102} - a_{103} + 2a_{104} - a_{105} + 2a_{202} - 3a_{203} - \\
& a_{205} + a_{206} - a_{208} + a_{209} + a_{210} - 2a_{211} + \\
& a_{212} - 2a_{214} + a_{216} - a_{217} - a_{220} - 2a_{221} + \\
& a_{222} - 2a_{225} - 2a_{226} + 3a_{231} - a_{232} - a_{233} + \\
& a_{236} - a_{238} - a_{239} + 2a_{240} - 2a_{241} - a_{243} - \\
& 2a_{244} - 2a_{246} - a_{247} - a_{248} + a_{250} - 4a_{252} - \\
& a_{254} - 2a_{127} - a_{128} - a_{129} + a_{130} + 3a_{131} + \\
& a_{132} + a_{133} \\
a_{330} &= \frac{a_{202} + \sqrt{a_{202}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_1 + a_3 - a_4 - a_{11} + a_{12} - \\
& a_{14} - 2a_{28} + 4a_{29} + a_{16} + a_{17} - a_{18} + \\
& 2a_{44} - 3a_{45} + 2a_{47} - a_{49} + a_{50} + 2a_{51} + \\
& a_{52} + 4a_{53} - a_{54} + a_{55} + a_{56} + a_{57} - \\
& a_{58} + 2a_{76} - a_{77} + a_{78} - 3a_{79} - 2a_{80} + \\
& 2a_{81} - 2a_{82} - 2a_{83} - a_{84} - 2a_{85} - 2a_{88} - \\
& a_{89} + a_{90} + a_{91} - 3a_{93} + a_{94} - a_{95} - \\
& 2a_{96} + a_{98} + 2a_{99} - a_{100} + a_{101} - a_{102} - \\
& a_{103} - a_{104} + 2a_{105} - a_{106} + 2a_{203} - 3a_{204} - \\
& a_{206} + a_{207} - a_{209} + a_{210} + a_{211} - 2a_{212} + \\
& a_{213} - 2a_{215} + a_{217} - a_{218} - a_{221} - 2a_{222} + \\
& a_{223} - 2a_{226} - 2a_{227} + 3a_{232} - a_{233} - a_{234} + \\
& a_{237} - a_{239} - a_{240} + 2a_{241} - 2a_{242} - a_{244} - \\
& 2a_{245} - 2a_{247} - a_{248} - a_{249} + a_{251} - 4a_{253} - \\
& a_{127} - 2a_{128} - a_{129} - a_{130} + a_{131} + 3a_{132} + \\
& a_{133} + a_{134} \\
a_{331} &= \frac{a_{203} + \sqrt{a_{203}^2 - 4x}}{2}
\end{aligned}
$$

$$
\begin{aligned}
x &= 2a_0 - 2a_2 + a_4 - a_5 - a_{12} + a_{13} - \\
&\quad a_7 - 2a_{29} + 4a_{30} + a_{17} + a_{18} - a_{19} + \\
&\quad 2a_{45} - 3a_{46} + 2a_{48} - a_{50} + a_{51} + 2a_{52} + \\
&\quad a_{53} + 4a_{54} - a_{55} + a_{56} + a_{57} + a_{58} - \\
&\quad a_{59} + 2a_{77} - a_{78} + a_{79} - 3a_{80} - 2a_{81} + \\
&\quad 2a_{82} - 2a_{83} - 2a_{84} - a_{85} - 2a_{86} - 2a_{89} - \\
&\quad a_{90} + a_{91} + a_{92} - 3a_{94} + a_{95} - a_{96} - \\
&\quad 2a_{97} + a_{99} + 2a_{100} - a_{101} + a_{102} - a_{103} - \\
&\quad a_{104} - a_{105} + 2a_{106} - a_{107} + 2a_{204} - 3a_{205} - \\
&\quad a_{207} + a_{208} - a_{210} + a_{211} + a_{212} - 2a_{213} + \\
&\quad a_{214} - 2a_{216} + a_{218} - a_{219} - a_{222} - 2a_{223} + \\
&\quad a_{224} - 2a_{227} - 2a_{228} + 3a_{233} - a_{234} - a_{235} + \\
&\quad a_{238} - a_{240} - a_{241} + 2a_{242} - 2a_{243} - a_{245} - \\
&\quad 2a_{246} - 2a_{248} - a_{249} - a_{250} + a_{252} - 4a_{254} - \\
&\quad a_{128} - 2a_{129} - a_{130} - a_{131} + a_{132} + 3a_{133} + \\
&\quad a_{134} + a_{135} \\
a_{332} &= \frac{a_{204} + \sqrt{a_{204}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_1 + a_5 - a_6 - a_{13} + a_{14} - \\
&\quad a_8 - 2a_{30} + 4a_{15} + a_{18} + a_{19} - a_{20} + \\
&\quad 2a_{46} - 3a_{47} + 2a_{49} - a_{51} + a_{52} + 2a_{53} + \\
&\quad a_{54} + 4a_{55} - a_{56} + a_{57} + a_{58} + a_{59} - \\
&\quad a_{60} + 2a_{78} - a_{79} + a_{80} - 3a_{81} - 2a_{82} + \\
&\quad 2a_{83} - 2a_{84} - 2a_{85} - a_{86} - 2a_{87} - 2a_{90} - \\
&\quad a_{91} + a_{92} + a_{93} - 3a_{95} + a_{96} - a_{97} - \\
&\quad 2a_{98} + a_{100} + 2a_{101} - a_{102} + a_{103} - a_{104} - \\
&\quad a_{105} - a_{106} + 2a_{107} - a_{108} + 2a_{205} - 3a_{206} - \\
&\quad a_{208} + a_{209} - a_{211} + a_{212} + a_{213} - 2a_{214} + \\
&\quad a_{215} - 2a_{217} + a_{219} - a_{220} - a_{223} - 2a_{224} + \\
&\quad a_{225} - 2a_{228} - 2a_{229} + 3a_{234} - a_{235} - a_{236} + \\
&\quad a_{239} - a_{241} - a_{242} + 2a_{243} - 2a_{244} - a_{246} - \\
&\quad 2a_{247} - 2a_{249} - a_{250} - a_{251} + a_{253} - 4a_{127} - \\
&\quad a_{129} - 2a_{130} - a_{131} - a_{132} + a_{133} + 3a_{134} + \\
&\quad a_{135} + a_{136} \\
a_{333} &= \frac{a_{205} - \sqrt{a_{205}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_2 + a_6 - a_3 - a_{14} + a_7 - \\
&\quad a_9 - 2a_{15} + 4a_{16} + a_{19} + a_{20} - a_{21} + \\
&\quad 2a_{47} - 3a_{48} + 2a_{50} - a_{52} + a_{53} + 2a_{54} + \\
&\quad a_{55} + 4a_{56} - a_{57} + a_{58} + a_{59} + a_{60} - \\
&\quad a_{61} + 2a_{79} - a_{80} + a_{81} - 3a_{82} - 2a_{83} + \\
&\quad 2a_{84} - 2a_{85} - 2a_{86} - a_{87} - 2a_{88} - 2a_{91} - \\
&\quad a_{92} + a_{93} + a_{94} - 3a_{96} + a_{97} - a_{98} - \\
&\quad 2a_{99} + a_{101} + 2a_{102} - a_{103} + a_{104} - a_{105} - \\
&\quad a_{106} - a_{107} + 2a_{108} - a_{109} + 2a_{206} - 3a_{207} - \\
&\quad a_{209} + a_{210} - a_{212} + a_{213} + a_{214} - 2a_{215} + \\
&\quad a_{216} - 2a_{218} + a_{220} - a_{221} - a_{224} - 2a_{225} + \\
&\quad a_{226} - 2a_{229} - 2a_{230} + 3a_{235} - a_{236} - a_{237} + \\
&\quad a_{240} - a_{242} - a_{243} + 2a_{244} - 2a_{245} - a_{247} - \\
&\quad 2a_{248} - 2a_{250} - a_{251} - a_{252} + a_{254} - 4a_{128} - \\
&\quad a_{130} - 2a_{131} - a_{132} - a_{133} + a_{134} + 3a_{135} + \\
&\quad a_{136} + a_{137} \\
a_{334} &= \frac{a_{206} - \sqrt{a_{206}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_1 + a_3 - a_4 - a_7 + a_8 - \\
&\quad a_{10} - 2a_{16} + 4a_{17} + a_{20} + a_{21} - a_{22} + \\
&\quad 2a_{48} - 3a_{49} + 2a_{51} - a_{53} + a_{54} + 2a_{55} + \\
&\quad a_{56} + 4a_{57} - a_{58} + a_{59} + a_{60} + a_{61} - \\
&\quad a_{62} + 2a_{80} - a_{81} + a_{82} - 3a_{83} - 2a_{84} + \\
&\quad 2a_{85} - 2a_{86} - 2a_{87} - a_{88} - 2a_{89} - 2a_{92} - \\
&\quad a_{93} + a_{94} + a_{95} - 3a_{97} + a_{98} - a_{99} - \\
&\quad 2a_{100} + a_{102} + 2a_{103} - a_{104} + a_{105} - a_{106} - \\
&\quad a_{107} - a_{108} + 2a_{109} - a_{110} + 2a_{207} - 3a_{208} - \\
&\quad a_{210} + a_{211} - a_{213} + a_{214} + a_{215} - 2a_{216} + \\
&\quad a_{217} - 2a_{219} + a_{221} - a_{222} - a_{225} - 2a_{226} + \\
&\quad a_{227} - 2a_{230} - 2a_{231} + 3a_{236} - a_{237} - a_{238} + \\
&\quad a_{241} - a_{243} - a_{244} + 2a_{245} - 2a_{246} - a_{248} - \\
&\quad 2a_{249} - 2a_{251} - a_{252} - a_{253} + a_{127} - 4a_{129} - \\
&\quad a_{131} - 2a_{132} - a_{133} - a_{134} + a_{135} + 3a_{136} + \\
&\quad a_{137} + a_{138} \\
a_{335} &= \frac{a_{207} - \sqrt{a_{207}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_2 + a_4 - a_5 - a_8 + a_9 - \\
&\quad a_{11} - 2a_{17} + 4a_{18} + a_{21} + a_{22} - a_{23} + \\
&\quad 2a_{49} - 3a_{50} + 2a_{52} - a_{54} + a_{55} + 2a_{56} + \\
&\quad a_{57} + 4a_{58} - a_{59} + a_{60} + a_{61} + a_{62} - \\
&\quad a_{31} + 2a_{81} - a_{82} + a_{83} - 3a_{84} - 2a_{85} + \\
&\quad 2a_{86} - 2a_{87} - 2a_{88} - a_{89} - 2a_{90} - 2a_{93} - \\
&\quad a_{94} + a_{95} + a_{96} - 3a_{98} + a_{99} - a_{100} - \\
&\quad 2a_{101} + a_{103} + 2a_{104} - a_{105} + a_{106} - a_{107} - \\
&\quad a_{108} - a_{109} + 2a_{110} - a_{111} + 2a_{208} - 3a_{209} - \\
&\quad a_{211} + a_{212} - a_{214} + a_{215} + a_{216} - 2a_{217} + \\
&\quad a_{218} - 2a_{220} + a_{222} - a_{223} - a_{226} - 2a_{227} + \\
&\quad a_{228} - 2a_{231} - 2a_{232} + 3a_{237} - a_{238} - a_{239} + \\
&\quad a_{242} - a_{244} - a_{245} + 2a_{246} - 2a_{247} - a_{249} - \\
&\quad 2a_{250} - 2a_{252} - a_{253} - a_{254} + a_{128} - 4a_{130} - \\
&\quad a_{132} - 2a_{133} - a_{134} - a_{135} + a_{136} + 3a_{137} + \\
&\quad a_{138} + a_{139} \\
a_{336} &= \frac{a_{208} + \sqrt{a_{208}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_1 + a_5 - a_6 - a_9 + a_{10} - \\
&\quad a_{12} - 2a_{18} + 4a_{19} + a_{22} + a_{23} - a_{24} + \\
&\quad 2a_{50} - 3a_{51} + 2a_{53} - a_{55} + a_{56} + 2a_{57} + \\
&\quad a_{58} + 4a_{59} - a_{60} + a_{61} + a_{62} + a_{31} - \\
&\quad a_{32} + 2a_{82} - a_{83} + a_{84} - 3a_{85} - 2a_{86} + \\
&\quad 2a_{87} - 2a_{88} - 2a_{89} - a_{90} - 2a_{91} - 2a_{94} - \\
&\quad a_{95} + a_{96} + a_{97} - 3a_{99} + a_{100} - a_{101} - \\
&\quad 2a_{102} + a_{104} + 2a_{105} - a_{106} + a_{107} - a_{108} -
\end{aligned}
$$

$$
\begin{aligned}
& a_{109} - a_{110} + 2a_{111} - a_{112} + 2a_{209} - 3a_{210} - \\
& a_{212} + a_{213} - a_{215} + a_{216} + a_{217} - 2a_{218} + \\
& a_{219} - 2a_{221} + a_{223} - a_{224} - a_{227} - 2a_{228} + \\
& a_{229} - 2a_{232} - 2a_{233} + 3a_{238} - a_{239} - a_{240} + \\
& a_{243} - a_{245} - a_{246} + 2a_{247} - 2a_{248} - a_{250} - \\
& 2a_{251} - 2a_{253} - a_{254} - a_{127} + a_{129} - 4a_{131} - \\
& a_{133} - 2a_{134} - a_{135} - a_{136} + a_{137} + 3a_{138} + \\
& a_{139} + a_{140}
\end{aligned}
$$

$$
a_{337} = \frac{a_{209} + \sqrt{a_{209}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_0 - 2a_2 + a_6 - a_3 - a_{10} + a_{11} - \\
& a_{13} - 2a_{19} + 4a_{20} + a_{23} + a_{24} - a_{25} + \\
& 2a_{51} - 3a_{52} + 2a_{54} - a_{56} + a_{57} + 2a_{58} + \\
& a_{59} + 4a_{60} - a_{61} + a_{62} + a_{31} + a_{32} - \\
& a_{33} + 2a_{83} - a_{84} + a_{85} - 3a_{86} - 2a_{87} + \\
& 2a_{88} - 2a_{89} - 2a_{90} - a_{91} - 2a_{92} - 2a_{95} - \\
& a_{96} + a_{97} + a_{98} - 3a_{100} + a_{101} - a_{102} - \\
& 2a_{103} + a_{105} + 2a_{106} - a_{107} + a_{108} - a_{109} - \\
& a_{110} - a_{111} + 2a_{112} - a_{113} + 2a_{210} - 3a_{211} - \\
& a_{213} + a_{214} - a_{216} + a_{217} + a_{218} - 2a_{219} + \\
& a_{220} - 2a_{222} + a_{224} - a_{225} - a_{228} - 2a_{229} + \\
& a_{230} - 2a_{233} - 2a_{234} + 3a_{239} - a_{240} - a_{241} + \\
& a_{244} - a_{246} - a_{247} + 2a_{248} - 2a_{249} - a_{251} - \\
& 2a_{252} - 2a_{254} - a_{127} - a_{128} + a_{130} - 4a_{132} - \\
& a_{134} - 2a_{135} - a_{136} - a_{137} + a_{138} + 3a_{139} + \\
& a_{140} + a_{141}
\end{aligned}
$$

$$
a_{338} = \frac{a_{210} - \sqrt{a_{210}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_0 - 2a_1 + a_3 - a_4 - a_{11} + a_{12} - \\
& a_{14} - 2a_{20} + 4a_{21} + a_{24} + a_{25} - a_{26} + \\
& 2a_{52} - 3a_{53} + 2a_{55} - a_{57} + a_{58} + 2a_{59} + \\
& a_{60} + 4a_{61} - a_{62} + a_{31} + a_{32} + a_{33} - \\
& a_{34} + 2a_{84} - a_{85} + a_{86} - 3a_{87} - 2a_{88} + \\
& 2a_{89} - 2a_{90} - 2a_{91} - a_{92} - 2a_{93} - 2a_{96} - \\
& a_{97} + a_{98} + a_{99} - 3a_{101} + a_{102} - a_{103} - \\
& 2a_{104} + a_{106} + 2a_{107} - a_{108} + a_{109} - a_{110} - \\
& a_{111} - a_{112} + 2a_{113} - a_{114} + 2a_{211} - 3a_{212} - \\
& a_{214} + a_{215} - a_{217} + a_{218} + a_{219} - 2a_{220} + \\
& a_{221} - 2a_{223} + a_{225} - a_{226} - a_{229} - 2a_{230} + \\
& a_{231} - 2a_{234} - 2a_{235} + 3a_{240} - a_{241} - a_{242} + \\
& a_{245} - a_{247} - a_{248} + 2a_{249} - 2a_{250} - a_{252} - \\
& 2a_{253} - 2a_{127} - a_{128} - a_{129} + a_{131} - 4a_{133} - \\
& a_{135} - 2a_{136} - a_{137} - a_{138} + a_{139} + 3a_{140} + \\
& a_{141} + a_{142}
\end{aligned}
$$

$$
a_{339} = \frac{a_{211} + \sqrt{a_{211}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_0 - 2a_2 + a_4 - a_5 - a_{12} + a_{13} - \\
& a_7 - 2a_{21} + 4a_{22} + a_{25} + a_{26} - a_{27} + \\
& 2a_{53} - 3a_{54} + 2a_{56} - a_{58} + a_{59} + 2a_{60} + \\
& a_{61} + 4a_{62} - a_{31} + a_{32} + a_{33} + a_{34} - \\
& a_{35} + 2a_{85} - a_{86} + a_{87} - 3a_{88} - 2a_{89} + \\
& 2a_{90} - 2a_{91} - 2a_{92} - a_{93} - 2a_{94} - 2a_{97} - \\
& a_{98} + a_{99} + a_{100} - 3a_{102} + a_{103} - a_{104} - \\
& 2a_{105} + a_{107} + 2a_{108} - a_{109} + a_{110} - a_{111} - \\
& a_{112} - a_{113} + 2a_{114} - a_{115} + 2a_{212} - 3a_{213} - \\
& a_{215} + a_{216} - a_{218} + a_{219} + a_{220} - 2a_{221} + \\
& a_{222} - 2a_{224} + a_{226} - a_{227} - a_{230} - 2a_{231} + \\
& a_{232} - 2a_{235} - 2a_{236} + 3a_{241} - a_{242} - a_{243} + \\
& a_{246} - a_{248} - a_{249} + 2a_{250} - 2a_{251} - a_{253} - \\
& 2a_{254} - 2a_{128} - a_{129} - a_{130} + a_{132} - 4a_{134} - \\
& a_{136} - 2a_{137} - a_{138} - a_{139} + a_{140} + 3a_{141} + \\
& a_{142} + a_{143}
\end{aligned}
$$

$$
a_{340} = \frac{a_{212} - \sqrt{a_{212}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_0 - 2a_1 + a_5 - a_6 - a_{13} + a_{14} - \\
& a_8 - 2a_{22} + 4a_{23} + a_{26} + a_{27} - a_{28} + \\
& 2a_{54} - 3a_{55} + 2a_{57} - a_{59} + a_{60} + 2a_{61} + \\
& a_{62} + 4a_{31} - a_{32} + a_{33} + a_{34} + a_{35} - \\
& a_{36} + 2a_{86} - a_{87} + a_{88} - 3a_{89} - 2a_{90} + \\
& 2a_{91} - 2a_{92} - 2a_{93} - a_{94} - 2a_{95} - 2a_{98} - \\
& a_{99} + a_{100} + a_{101} - 3a_{103} + a_{104} - a_{105} - \\
& 2a_{106} + a_{108} + 2a_{109} - a_{110} + a_{111} - a_{112} - \\
& a_{113} - a_{114} + 2a_{115} - a_{116} + 2a_{213} - 3a_{214} - \\
& a_{216} + a_{217} - a_{219} + a_{220} + a_{221} - 2a_{222} + \\
& a_{223} - 2a_{225} + a_{227} - a_{228} - a_{231} - 2a_{232} + \\
& a_{233} - 2a_{236} - 2a_{237} + 3a_{242} - a_{243} - a_{244} + \\
& a_{247} - a_{249} - a_{250} + 2a_{251} - 2a_{252} - a_{254} - \\
& 2a_{127} - 2a_{129} - a_{130} - a_{131} + a_{133} - 4a_{135} - \\
& a_{137} - 2a_{138} - a_{139} - a_{140} + a_{141} + 3a_{142} + \\
& a_{143} + a_{144}
\end{aligned}
$$

$$
a_{341} = \frac{a_{213} - \sqrt{a_{213}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_0 - 2a_2 + a_6 - a_3 - a_{14} + a_7 - \\
& a_9 - 2a_{23} + 4a_{24} + a_{27} + a_{28} - a_{29} + \\
& 2a_{55} - 3a_{56} + 2a_{58} - a_{60} + a_{61} + 2a_{62} + \\
& a_{31} + 4a_{32} - a_{33} + a_{34} + a_{35} + a_{36} - \\
& a_{37} + 2a_{87} - a_{88} + a_{89} - 3a_{90} - 2a_{91} + \\
& 2a_{92} - 2a_{93} - 2a_{94} - a_{95} - 2a_{96} - 2a_{99} - \\
& a_{100} + a_{101} + a_{102} - 3a_{104} + a_{105} - a_{106} - \\
& 2a_{107} + a_{109} + 2a_{110} - a_{111} + a_{112} - a_{113} - \\
& a_{114} - a_{115} + 2a_{116} - a_{117} + 2a_{214} - 3a_{215} - \\
& a_{217} + a_{218} - a_{220} + a_{221} + a_{222} - 2a_{223} + \\
& a_{224} - 2a_{226} + a_{228} - a_{229} - a_{232} - 2a_{233} + \\
& a_{234} - 2a_{237} - 2a_{238} + 3a_{243} - a_{244} - a_{245} + \\
& a_{248} - a_{250} - a_{251} + 2a_{252} - 2a_{253} - a_{127} - \\
& 2a_{128} - 2a_{130} - a_{131} - a_{132} + a_{134} - 4a_{136} - \\
& a_{138} - 2a_{139} - a_{140} - a_{141} + a_{142} + 3a_{143} +
\end{aligned}
$$

$$
\begin{aligned}
& a_{144} + a_{145} \\
a_{342} &= \frac{a_{214} - \sqrt{a_{214}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_1 + a_3 - a_4 - a_7 + a_8 - \\
& a_{10} - 2a_{24} + 4a_{25} + a_{28} + a_{29} - a_{30} + \\
& 2a_{56} - 3a_{57} + 2a_{59} - a_{61} + a_{62} + 2a_{31} + \\
& a_{32} + 4a_{33} - a_{34} + a_{35} + a_{36} + a_{37} - \\
& a_{38} + 2a_{88} - a_{89} + a_{90} - 3a_{91} - 2a_{92} + \\
& 2a_{93} - 2a_{94} - 2a_{95} - a_{96} - 2a_{97} - 2a_{100} - \\
& a_{101} + a_{102} + a_{103} - 3a_{105} + a_{106} - a_{107} - \\
& 2a_{108} + a_{110} + 2a_{111} - a_{112} + a_{113} - a_{114} - \\
& a_{115} - a_{116} + 2a_{117} - a_{118} + 2a_{215} - 3a_{216} - \\
& a_{218} + a_{219} - a_{221} + a_{222} + a_{223} - 2a_{224} + \\
& a_{225} - 2a_{227} + a_{229} - a_{230} - a_{233} - 2a_{234} + \\
& a_{235} - 2a_{238} - 2a_{239} + 3a_{244} - a_{245} - a_{246} + \\
& a_{249} - a_{251} - a_{252} + 2a_{253} - 2a_{254} - a_{128} - \\
& 2a_{129} - 2a_{131} - a_{132} - a_{133} + a_{135} - 4a_{137} - \\
& a_{139} - 2a_{140} - a_{141} - a_{142} + a_{143} + 3a_{144} + \\
& a_{145} + a_{146} \\
a_{343} &= \frac{a_{215} - \sqrt{a_{215}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_2 + a_4 - a_5 - a_8 + a_9 - \\
& a_{11} - 2a_{25} + 4a_{26} + a_{29} + a_{30} - a_{15} + \\
& 2a_{57} - 3a_{58} + 2a_{60} - a_{62} + a_{31} + 2a_{32} + \\
& a_{33} + 4a_{34} - a_{35} + a_{36} + a_{37} + a_{38} - \\
& a_{39} + 2a_{89} - a_{90} + a_{91} - 3a_{92} - 2a_{93} + \\
& 2a_{94} - 2a_{95} - 2a_{96} - a_{97} - 2a_{98} - 2a_{101} - \\
& a_{102} + a_{103} + a_{104} - 3a_{106} + a_{107} - a_{108} - \\
& 2a_{109} + a_{111} + 2a_{112} - a_{113} + a_{114} - a_{115} - \\
& a_{116} - a_{117} + 2a_{118} - a_{119} + 2a_{216} - 3a_{217} - \\
& a_{219} + a_{220} - a_{222} + a_{223} + a_{224} - 2a_{225} + \\
& a_{226} - 2a_{228} + a_{230} - a_{231} - a_{234} - 2a_{235} + \\
& a_{236} - 2a_{239} - 2a_{240} + 3a_{245} - a_{246} - a_{247} + \\
& a_{250} - a_{252} - a_{253} + 2a_{254} - 2a_{127} - a_{129} - \\
& 2a_{130} - 2a_{132} - a_{133} - a_{134} + a_{136} - 4a_{138} - \\
& a_{140} - 2a_{141} - a_{142} - a_{143} + a_{144} + 3a_{145} + \\
& a_{146} + a_{147} \\
a_{344} &= \frac{a_{216} - \sqrt{a_{216}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_1 + a_5 - a_6 - a_9 + a_{10} - \\
& a_{12} - 2a_{26} + 4a_{27} + a_{30} + a_{15} - a_{16} + \\
& 2a_{58} - 3a_{59} + 2a_{61} - a_{31} + a_{32} + 2a_{33} + \\
& a_{34} + 4a_{35} - a_{36} + a_{37} + a_{38} + a_{39} - \\
& a_{40} + 2a_{90} - a_{91} + a_{92} - 3a_{93} - 2a_{94} + \\
& 2a_{95} - 2a_{96} - 2a_{97} - a_{98} - 2a_{99} - 2a_{102} - \\
& a_{103} + a_{104} + a_{105} - 3a_{107} + a_{108} - a_{109} - \\
& 2a_{110} + a_{112} + 2a_{113} - a_{114} + a_{115} - a_{116} - \\
& a_{117} - a_{118} + 2a_{119} - a_{120} + 2a_{217} - 3a_{218} - \\
& a_{220} + a_{221} - a_{223} + a_{224} + a_{225} - 2a_{226} + \\
& a_{227} - 2a_{229} + a_{231} - a_{232} - a_{235} - 2a_{236} + \\
& a_{237} - 2a_{240} - 2a_{241} + 3a_{246} - a_{247} - a_{248} + \\
& a_{251} - a_{253} - a_{254} + 2a_{127} - 2a_{128} - a_{130} - \\
& 2a_{131} - 2a_{133} - a_{134} - a_{135} + a_{137} - 4a_{139} - \\
& a_{141} - 2a_{142} - a_{143} - a_{144} + a_{145} + 3a_{146} + \\
& a_{147} + a_{148} \\
a_{345} &= \frac{a_{217} + \sqrt{a_{217}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_2 + a_6 - a_3 - a_{10} + a_{11} - \\
& a_{13} - 2a_{27} + 4a_{28} + a_{15} + a_{16} - a_{17} + \\
& 2a_{59} - 3a_{60} + 2a_{62} - a_{32} + a_{33} + 2a_{34} + \\
& a_{35} + 4a_{36} - a_{37} + a_{38} + a_{39} + a_{40} - \\
& a_{41} + 2a_{91} - a_{92} + a_{93} - 3a_{94} - 2a_{95} + \\
& 2a_{96} - 2a_{97} - 2a_{98} - a_{99} - 2a_{100} - 2a_{103} - \\
& a_{104} + a_{105} + a_{106} - 3a_{108} + a_{109} - a_{110} - \\
& 2a_{111} + a_{113} + 2a_{114} - a_{115} + a_{116} - a_{117} - \\
& a_{118} - a_{119} + 2a_{120} - a_{121} + 2a_{218} - 3a_{219} - \\
& a_{221} + a_{222} - a_{224} + a_{225} + a_{226} - 2a_{227} + \\
& a_{228} - 2a_{230} + a_{232} - a_{233} - a_{236} - 2a_{237} + \\
& a_{238} - 2a_{241} - 2a_{242} + 3a_{247} - a_{248} - a_{249} + \\
& a_{252} - a_{254} - a_{127} + 2a_{128} - 2a_{129} - a_{131} - \\
& 2a_{132} - 2a_{134} - a_{135} - a_{136} + a_{138} - 4a_{140} - \\
& a_{142} - 2a_{143} - a_{144} - a_{145} + a_{146} + 3a_{147} + \\
& a_{148} + a_{149} \\
a_{346} &= \frac{a_{218} + \sqrt{a_{218}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_1 + a_3 - a_4 - a_{11} + a_{12} - \\
& a_{14} - 2a_{28} + 4a_{29} + a_{16} + a_{17} - a_{18} + \\
& 2a_{60} - 3a_{61} + 2a_{31} - a_{33} + a_{34} + 2a_{35} + \\
& a_{36} + 4a_{37} - a_{38} + a_{39} + a_{40} + a_{41} - \\
& a_{42} + 2a_{92} - a_{93} + a_{94} - 3a_{95} - 2a_{96} + \\
& 2a_{97} - 2a_{98} - 2a_{99} - a_{100} - 2a_{101} - 2a_{104} - \\
& a_{105} + a_{106} + a_{107} - 3a_{109} + a_{110} - a_{111} - \\
& 2a_{112} + a_{114} + 2a_{115} - a_{116} + a_{117} - a_{118} - \\
& a_{119} - a_{120} + 2a_{121} - a_{122} + 2a_{219} - 3a_{220} - \\
& a_{222} + a_{223} - a_{225} + a_{226} + a_{227} - 2a_{228} + \\
& a_{229} - 2a_{231} + a_{233} - a_{234} - a_{237} - 2a_{238} + \\
& a_{239} - 2a_{242} - 2a_{243} + 3a_{248} - a_{249} - a_{250} + \\
& a_{253} - a_{127} - a_{128} + 2a_{129} - 2a_{130} - a_{132} - \\
& 2a_{133} - 2a_{135} - a_{136} - a_{137} + a_{139} - 4a_{141} - \\
& a_{143} - 2a_{144} - a_{145} - a_{146} + a_{147} + 3a_{148} + \\
& a_{149} + a_{150} \\
a_{347} &= \frac{a_{219} + \sqrt{a_{219}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_2 + a_4 - a_5 - a_{12} + a_{13} - \\
& a_7 - 2a_{29} + 4a_{30} + a_{17} + a_{18} - a_{19} + \\
& 2a_{61} - 3a_{62} + 2a_{32} - a_{34} + a_{35} + 2a_{36} + \\
& a_{37} + 4a_{38} - a_{39} + a_{40} + a_{41} + a_{42} - \\
& a_{43} + 2a_{93} - a_{94} + a_{95} - 3a_{96} - 2a_{97} +
\end{aligned}
$$

$$
\begin{aligned}
& 2a_{98} - 2a_{99} - 2a_{100} - a_{101} - 2a_{102} - 2a_{105} - \\
& a_{106} + a_{107} + a_{108} - 3a_{110} + a_{111} - a_{112} - \\
& 2a_{113} + a_{115} + 2a_{116} - a_{117} + a_{118} - a_{119} - \\
& a_{120} - a_{121} + 2a_{122} - a_{123} + 2a_{220} - 3a_{221} - \\
& a_{223} + a_{224} - a_{226} + a_{227} + a_{228} - 2a_{229} + \\
& a_{230} - 2a_{232} + a_{234} - a_{235} - a_{238} - 2a_{239} + \\
& a_{240} - 2a_{243} - 2a_{244} + 3a_{249} - a_{250} - a_{251} + \\
& a_{254} - a_{128} - a_{129} + 2a_{130} - 2a_{131} - a_{133} - \\
& 2a_{134} - 2a_{136} - a_{137} - a_{138} + a_{140} - 4a_{142} - \\
& a_{144} - 2a_{145} - a_{146} - a_{147} + a_{148} + 3a_{149} + \\
& a_{150} + a_{151}
\end{aligned}
$$

$$
a_{348} = \frac{a_{220} - \sqrt{a_{220}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_0 - 2a_1 + a_5 - a_6 - a_{13} + a_{14} - \\
& a_8 - 2a_{30} + 4a_{15} + a_{18} + a_{19} - a_{20} + \\
& 2a_{62} - 3a_{31} + 2a_{33} - a_{35} + a_{36} + 2a_{37} + \\
& a_{38} + 4a_{39} - a_{40} + a_{41} + a_{42} + a_{43} - \\
& a_{44} + 2a_{94} - a_{95} + a_{96} - 3a_{97} - 2a_{98} + \\
& 2a_{99} - 2a_{100} - 2a_{101} - a_{102} - 2a_{103} - 2a_{106} - \\
& a_{107} + a_{108} + a_{109} - 3a_{111} + a_{112} - a_{113} - \\
& 2a_{114} + a_{116} + 2a_{117} - a_{118} + a_{119} - a_{120} - \\
& a_{121} - a_{122} + 2a_{123} - a_{124} + 2a_{221} - 3a_{222} - \\
& a_{224} + a_{225} - a_{227} + a_{228} + a_{229} - 2a_{230} + \\
& a_{231} - 2a_{233} + a_{235} - a_{236} - a_{239} - 2a_{240} + \\
& a_{241} - 2a_{244} - 2a_{245} + 3a_{250} - a_{251} - a_{252} + \\
& a_{127} - a_{129} - a_{130} + 2a_{131} - 2a_{132} - a_{134} - \\
& 2a_{135} - 2a_{137} - a_{138} - a_{139} + a_{141} - 4a_{143} - \\
& a_{145} - 2a_{146} - a_{147} - a_{148} + a_{149} + 3a_{150} + \\
& a_{151} + a_{152}
\end{aligned}
$$

$$
a_{349} = \frac{a_{221} - \sqrt{a_{221}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_0 - 2a_2 + a_6 - a_3 - a_{14} + a_7 - \\
& a_9 - 2a_{15} + 4a_{16} + a_{19} + a_{20} - a_{21} + \\
& 2a_{31} - 3a_{32} + 2a_{34} - a_{36} + a_{37} + 2a_{38} + \\
& a_{39} + 4a_{40} - a_{41} + a_{42} + a_{43} + a_{44} - \\
& a_{45} + 2a_{95} - a_{96} + a_{97} - 3a_{98} - 2a_{99} + \\
& 2a_{100} - 2a_{101} - 2a_{102} - a_{103} - 2a_{104} - 2a_{107} - \\
& a_{108} + a_{109} + a_{110} - 3a_{112} + a_{113} - a_{114} - \\
& 2a_{115} + a_{117} + 2a_{118} - a_{119} + a_{120} - a_{121} - \\
& a_{122} - a_{123} + 2a_{124} - a_{125} + 2a_{222} - 3a_{223} - \\
& a_{225} + a_{226} - a_{228} + a_{229} + a_{230} - 2a_{231} + \\
& a_{232} - 2a_{234} + a_{236} - a_{237} - a_{240} - 2a_{241} + \\
& a_{242} - 2a_{245} - 2a_{246} + 3a_{251} - a_{252} - a_{253} + \\
& a_{128} - a_{130} - a_{131} + 2a_{132} - 2a_{133} - a_{135} - \\
& 2a_{136} - 2a_{138} - a_{139} - a_{140} + a_{142} - 4a_{144} - \\
& a_{146} - 2a_{147} - a_{148} - a_{149} + a_{150} + 3a_{151} + \\
& a_{152} + a_{153}
\end{aligned}
$$

$$
a_{350} = \frac{a_{222} - \sqrt{a_{222}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_0 - 2a_1 + a_3 - a_4 - a_7 + a_8 - \\
& a_{10} - 2a_{16} + 4a_{17} + a_{20} + a_{21} - a_{22} + \\
& 2a_{32} - 3a_{33} + 2a_{35} - a_{37} + a_{38} + 2a_{39} + \\
& a_{40} + 4a_{41} - a_{42} + a_{43} + a_{44} + a_{45} - \\
& a_{46} + 2a_{96} - a_{97} + a_{98} - 3a_{99} - 2a_{100} + \\
& 2a_{101} - 2a_{102} - 2a_{103} - a_{104} - 2a_{105} - 2a_{108} - \\
& a_{109} + a_{110} + a_{111} - 3a_{113} + a_{114} - a_{115} - \\
& 2a_{116} + a_{118} + 2a_{119} - a_{120} + a_{121} - a_{122} - \\
& a_{123} - a_{124} + 2a_{125} - a_{126} + 2a_{223} - 3a_{224} - \\
& a_{226} + a_{227} - a_{229} + a_{230} + a_{231} - 2a_{232} + \\
& a_{233} - 2a_{235} + a_{237} - a_{238} - a_{241} - 2a_{242} + \\
& a_{243} - 2a_{246} - 2a_{247} + 3a_{252} - a_{253} - a_{254} + \\
& a_{129} - a_{131} - a_{132} + 2a_{133} - 2a_{134} - a_{136} - \\
& 2a_{137} - 2a_{139} - a_{140} - a_{141} + a_{143} - 4a_{145} - \\
& a_{147} - 2a_{148} - a_{149} - a_{150} + a_{151} + 3a_{152} + \\
& a_{153} + a_{154}
\end{aligned}
$$

$$
a_{351} = \frac{a_{223} - \sqrt{a_{223}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_0 - 2a_2 + a_4 - a_5 - a_8 + a_9 - \\
& a_{11} - 2a_{17} + 4a_{18} + a_{21} + a_{22} - a_{23} + \\
& 2a_{33} - 3a_{34} + 2a_{36} - a_{38} + a_{39} + 2a_{40} + \\
& a_{41} + 4a_{42} - a_{43} + a_{44} + a_{45} + a_{46} - \\
& a_{47} + 2a_{97} - a_{98} + a_{99} - 3a_{100} - 2a_{101} + \\
& 2a_{102} - 2a_{103} - 2a_{104} - a_{105} - 2a_{106} - 2a_{109} - \\
& a_{110} + a_{111} + a_{112} - 3a_{114} + a_{115} - a_{116} - \\
& 2a_{117} + a_{119} + 2a_{120} - a_{121} + a_{122} - a_{123} - \\
& a_{124} - a_{125} + 2a_{126} - a_{63} + 2a_{224} - 3a_{225} - \\
& a_{227} + a_{228} - a_{230} + a_{231} + a_{232} - 2a_{233} + \\
& a_{234} - 2a_{236} + a_{238} - a_{239} - a_{242} - 2a_{243} + \\
& a_{244} - 2a_{247} - 2a_{248} + 3a_{253} - a_{254} - a_{127} + \\
& a_{130} - a_{132} - a_{133} + 2a_{134} - 2a_{135} - a_{137} - \\
& 2a_{138} - 2a_{140} - a_{141} - a_{142} + a_{144} - 4a_{146} - \\
& a_{148} - 2a_{149} - a_{150} - a_{151} + a_{152} + 3a_{153} + \\
& a_{154} + a_{155}
\end{aligned}
$$

$$
a_{352} = \frac{a_{224} + \sqrt{a_{224}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_0 - 2a_1 + a_5 - a_6 - a_9 + a_{10} - \\
& a_{12} - 2a_{18} + 4a_{19} + a_{22} + a_{23} - a_{24} + \\
& 2a_{34} - 3a_{35} + 2a_{37} - a_{39} + a_{40} + 2a_{41} + \\
& a_{42} + 4a_{43} - a_{44} + a_{45} + a_{46} + a_{47} - \\
& a_{48} + 2a_{98} - a_{99} + a_{100} - 3a_{101} - 2a_{102} + \\
& 2a_{103} - 2a_{104} - 2a_{105} - a_{106} - 2a_{107} - 2a_{110} - \\
& a_{111} + a_{112} + a_{113} - 3a_{115} + a_{116} - a_{117} - \\
& 2a_{118} + a_{120} + 2a_{121} - a_{122} + a_{123} - a_{124} - \\
& a_{125} - a_{126} + 2a_{63} - a_{64} + 2a_{225} - 3a_{226} - \\
& a_{228} + a_{229} - a_{231} + a_{232} + a_{233} - 2a_{234} + \\
& a_{235} - 2a_{237} + a_{239} - a_{240} - a_{243} - 2a_{244} +
\end{aligned}
$$

$$
\begin{aligned}
& a_{245} - 2a_{248} - 2a_{249} + 3a_{254} - a_{127} - a_{128} + \\
& a_{131} - a_{133} - a_{134} + 2a_{135} - 2a_{136} - a_{138} - \\
& 2a_{139} - 2a_{141} - a_{142} - a_{143} + a_{145} - 4a_{147} - \\
& a_{149} - 2a_{150} - a_{151} - a_{152} + a_{153} + 3a_{154} + \\
& a_{155} + a_{156} \\
a_{353} &= \frac{a_{225} - \sqrt{a_{225}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_2 + a_6 - a_3 - a_{10} + a_{11} - \\
& a_{13} - 2a_{19} + 4a_{20} + a_{23} + a_{24} - a_{25} + \\
& 2a_{35} - 3a_{36} + 2a_{38} - a_{40} + a_{41} + 2a_{42} + \\
& a_{43} + 4a_{44} - a_{45} + a_{46} + a_{47} + a_{48} - \\
& a_{49} + 2a_{99} - a_{100} + a_{101} - 3a_{102} - 2a_{103} + \\
& 2a_{104} - 2a_{105} - 2a_{106} - a_{107} - 2a_{108} - 2a_{111} - \\
& a_{112} + a_{113} + a_{114} - 3a_{116} + a_{117} - a_{118} - \\
& 2a_{119} + a_{121} + 2a_{122} - a_{123} + a_{124} - a_{125} - \\
& a_{126} - a_{63} + 2a_{64} - a_{65} + 2a_{226} - 3a_{227} - \\
& a_{229} + a_{230} - a_{232} + a_{233} + a_{234} - 2a_{235} + \\
& a_{236} - 2a_{238} + a_{240} - a_{241} - a_{244} - 2a_{245} + \\
& a_{246} - 2a_{249} - 2a_{250} + 3a_{127} - a_{128} - a_{129} + \\
& a_{132} - a_{134} - a_{135} + 2a_{136} - 2a_{137} - a_{139} - \\
& 2a_{140} - 2a_{142} - a_{143} - a_{144} + a_{146} - 4a_{148} - \\
& a_{150} - 2a_{151} - a_{152} - a_{153} + a_{154} + 3a_{155} + \\
& a_{156} + a_{157} \\
a_{354} &= \frac{a_{226} + \sqrt{a_{226}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_1 + a_3 - a_4 - a_{11} + a_{12} - \\
& a_{14} - 2a_{20} + 4a_{21} + a_{24} + a_{25} - a_{26} + \\
& 2a_{36} - 3a_{37} + 2a_{39} - a_{41} + a_{42} + 2a_{43} + \\
& a_{44} + 4a_{45} - a_{46} + a_{47} + a_{48} + a_{49} - \\
& a_{50} + 2a_{100} - a_{101} + a_{102} - 3a_{103} - 2a_{104} + \\
& 2a_{105} - 2a_{106} - 2a_{107} - a_{108} - 2a_{109} - 2a_{112} - \\
& a_{113} + a_{114} + a_{115} - 3a_{117} + a_{118} - a_{119} - \\
& 2a_{120} + a_{122} + 2a_{123} - a_{124} + a_{125} - a_{126} - \\
& a_{63} - a_{64} + 2a_{65} - a_{66} + 2a_{227} - 3a_{228} - \\
& a_{230} + a_{231} - a_{233} + a_{234} + a_{235} - 2a_{236} + \\
& a_{237} - 2a_{239} + a_{241} - a_{242} - a_{245} - 2a_{246} + \\
& a_{247} - 2a_{250} - 2a_{251} + 3a_{128} - a_{129} - a_{130} + \\
& a_{133} - a_{135} - a_{136} + 2a_{137} - 2a_{138} - a_{140} - \\
& 2a_{141} - 2a_{143} - a_{144} - a_{145} + a_{147} - 4a_{149} - \\
& a_{151} - 2a_{152} - a_{153} - a_{154} + a_{155} + 3a_{156} + \\
& a_{157} + a_{158} \\
a_{355} &= \frac{a_{227} - \sqrt{a_{227}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_2 + a_4 - a_5 - a_{12} + a_{13} - \\
& a_7 - 2a_{21} + 4a_{22} + a_{25} + a_{26} - a_{27} + \\
& 2a_{37} - 3a_{38} + 2a_{40} - a_{42} + a_{43} + 2a_{44} + \\
& a_{45} + 4a_{46} - a_{47} + a_{48} + a_{49} + a_{50} - \\
& a_{51} + 2a_{101} - a_{102} + a_{103} - 3a_{104} - 2a_{105} + \\
& 2a_{106} - 2a_{107} - 2a_{108} - a_{109} - 2a_{110} - 2a_{113} - \\
& a_{114} + a_{115} + a_{116} - 3a_{118} + a_{119} - a_{120} - \\
& 2a_{121} + a_{123} + 2a_{124} - a_{125} + a_{126} - a_{63} - \\
& a_{64} - a_{65} + 2a_{66} - a_{67} + 2a_{228} - 3a_{229} - \\
& a_{231} + a_{232} - a_{234} + a_{235} + a_{236} - 2a_{237} + \\
& a_{238} - 2a_{240} + a_{242} - a_{243} - a_{246} - 2a_{247} + \\
& a_{248} - 2a_{251} - 2a_{252} + 3a_{129} - a_{130} - a_{131} + \\
& a_{134} - a_{136} - a_{137} + 2a_{138} - 2a_{139} - a_{141} - \\
& 2a_{142} - 2a_{144} - a_{145} - a_{146} + a_{148} - 4a_{150} - \\
& a_{152} - 2a_{153} - a_{154} - a_{155} + a_{156} + 3a_{157} + \\
& a_{158} + a_{159} \\
a_{356} &= \frac{a_{228} + \sqrt{a_{228}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_1 + a_5 - a_6 - a_{13} + a_{14} - \\
& a_8 - 2a_{22} + 4a_{23} + a_{26} + a_{27} - a_{28} + \\
& 2a_{38} - 3a_{39} + 2a_{41} - a_{43} + a_{44} + 2a_{45} + \\
& a_{46} + 4a_{47} - a_{48} + a_{49} + a_{50} + a_{51} - \\
& a_{52} + 2a_{102} - a_{103} + a_{104} - 3a_{105} - 2a_{106} + \\
& 2a_{107} - 2a_{108} - 2a_{109} - a_{110} - 2a_{111} - 2a_{114} - \\
& a_{115} + a_{116} + a_{117} - 3a_{119} + a_{120} - a_{121} - \\
& 2a_{122} + a_{124} + 2a_{125} - a_{126} + a_{63} - a_{64} - \\
& a_{65} - a_{66} + 2a_{67} - a_{68} + 2a_{229} - 3a_{230} - \\
& a_{232} + a_{233} - a_{235} + a_{236} + a_{237} - 2a_{238} + \\
& a_{239} - 2a_{241} + a_{243} - a_{244} - a_{247} - 2a_{248} + \\
& a_{249} - 2a_{252} - 2a_{253} + 3a_{130} - a_{131} - a_{132} + \\
& a_{135} - a_{137} - a_{138} + 2a_{139} - 2a_{140} - a_{142} - \\
& 2a_{143} - 2a_{145} - a_{146} - a_{147} + a_{149} - 4a_{151} - \\
& a_{153} - 2a_{154} - a_{155} - a_{156} + a_{157} + 3a_{158} + \\
& a_{159} + a_{160} \\
a_{357} &= \frac{a_{229} - \sqrt{a_{229}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_2 + a_6 - a_3 - a_{14} + a_7 - \\
& a_9 - 2a_{23} + 4a_{24} + a_{27} + a_{28} - a_{29} + \\
& 2a_{39} - 3a_{40} + 2a_{42} - a_{44} + a_{45} + 2a_{46} + \\
& a_{47} + 4a_{48} - a_{49} + a_{50} + a_{51} + a_{52} - \\
& a_{53} + 2a_{103} - a_{104} + a_{105} - 3a_{106} - 2a_{107} + \\
& 2a_{108} - 2a_{109} - 2a_{110} - a_{111} - 2a_{112} - 2a_{115} - \\
& a_{116} + a_{117} + a_{118} - 3a_{120} + a_{121} - a_{122} - \\
& 2a_{123} + a_{125} + 2a_{126} - a_{63} + a_{64} - a_{65} - \\
& a_{66} - a_{67} + 2a_{68} - a_{69} + 2a_{230} - 3a_{231} - \\
& a_{233} + a_{234} - a_{236} + a_{237} + a_{238} - 2a_{239} + \\
& a_{240} - 2a_{242} + a_{244} - a_{245} - a_{248} - 2a_{249} + \\
& a_{250} - 2a_{253} - 2a_{254} + 3a_{131} - a_{132} - a_{133} + \\
& a_{136} - a_{138} - a_{139} + 2a_{140} - 2a_{141} - a_{143} - \\
& 2a_{144} - 2a_{146} - a_{147} - a_{148} + a_{150} - 4a_{152} - \\
& a_{154} - 2a_{155} - a_{156} - a_{157} + a_{158} + 3a_{159} + \\
& a_{160} + a_{161} \\
a_{358} &= \frac{a_{230} + \sqrt{a_{230}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_1 + a_3 - a_4 - a_7 + a_8 -
\end{aligned}
$$

$$
\begin{aligned}
& a_{10} - 2a_{24} + 4a_{25} + a_{28} + a_{29} - a_{30} + \\
& 2a_{40} - 3a_{41} + 2a_{43} - a_{45} + a_{46} + 2a_{47} + \\
& a_{48} + 4a_{49} - a_{50} + a_{51} + a_{52} + a_{53} - \\
& a_{54} + 2a_{104} - a_{105} + a_{106} - 3a_{107} - 2a_{108} + \\
& 2a_{109} - 2a_{110} - 2a_{111} - a_{112} - 2a_{113} - 2a_{116} - \\
& a_{117} + a_{118} + a_{119} - 3a_{121} + a_{122} - a_{123} - \\
& 2a_{124} + a_{126} + 2a_{63} - a_{64} + a_{65} - a_{66} - \\
& a_{67} - a_{68} + 2a_{69} - a_{70} + 2a_{231} - 3a_{232} - \\
& a_{234} + a_{235} - a_{237} + a_{238} + a_{239} - 2a_{240} + \\
& a_{241} - 2a_{243} + a_{245} - a_{246} - a_{249} - 2a_{250} + \\
& a_{251} - 2a_{254} - 2a_{127} + 3a_{132} - a_{133} - a_{134} + \\
& a_{137} - a_{139} - a_{140} + 2a_{141} - 2a_{142} - a_{144} - \\
& 2a_{145} - 2a_{147} - a_{148} - a_{149} + a_{151} - 4a_{153} - \\
& a_{155} - 2a_{156} - a_{157} - a_{158} + a_{159} + 3a_{160} + \\
& a_{161} + a_{162}
\end{aligned}
$$

$$
a_{359} = \frac{a_{231} + \sqrt{a_{231}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_0 - 2a_2 + a_4 - a_5 - a_8 + a_9 - \\
& a_{11} - 2a_{25} + 4a_{26} + a_{29} + a_{30} - a_{15} + \\
& 2a_{41} - 3a_{42} + 2a_{44} - a_{46} + a_{47} + 2a_{48} + \\
& a_{49} + 4a_{50} - a_{51} + a_{52} + a_{53} + a_{54} - \\
& a_{55} + 2a_{105} - a_{106} + a_{107} - 3a_{108} - 2a_{109} + \\
& 2a_{110} - 2a_{111} - 2a_{112} - a_{113} - 2a_{114} - 2a_{117} - \\
& a_{118} + a_{119} + a_{120} - 3a_{122} + a_{123} - a_{124} - \\
& 2a_{125} + a_{63} + 2a_{64} - a_{65} + a_{66} - a_{67} - \\
& a_{68} - a_{69} + 2a_{70} - a_{71} + 2a_{232} - 3a_{233} - \\
& a_{235} + a_{236} - a_{238} + a_{239} + a_{240} - 2a_{241} + \\
& a_{242} - 2a_{244} + a_{246} - a_{247} - a_{250} - 2a_{251} + \\
& a_{252} - 2a_{127} - 2a_{128} + 3a_{133} - a_{134} - a_{135} + \\
& a_{138} - a_{140} - a_{141} + 2a_{142} - 2a_{143} - a_{145} - \\
& 2a_{146} - 2a_{148} - a_{149} - a_{150} + a_{152} - 4a_{154} - \\
& a_{156} - 2a_{157} - a_{158} - a_{159} + a_{160} + 3a_{161} + \\
& a_{162} + a_{163}
\end{aligned}
$$

$$
a_{360} = \frac{a_{232} - \sqrt{a_{232}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_0 - 2a_1 + a_5 - a_6 - a_9 + a_{10} - \\
& a_{12} - 2a_{26} + 4a_{27} + a_{30} + a_{15} - a_{16} + \\
& 2a_{42} - 3a_{43} + 2a_{45} - a_{47} + a_{48} + 2a_{49} + \\
& a_{50} + 4a_{51} - a_{52} + a_{53} + a_{54} + a_{55} - \\
& a_{56} + 2a_{106} - a_{107} + a_{108} - 3a_{109} - 2a_{110} + \\
& 2a_{111} - 2a_{112} - 2a_{113} - a_{114} - 2a_{115} - 2a_{118} - \\
& a_{119} + a_{120} + a_{121} - 3a_{123} + a_{124} - a_{125} - \\
& 2a_{126} + a_{64} + 2a_{65} - a_{66} + a_{67} - a_{68} - \\
& a_{69} - a_{70} + 2a_{71} - a_{72} + 2a_{233} - 3a_{234} - \\
& a_{236} + a_{237} - a_{239} + a_{240} + a_{241} - 2a_{242} + \\
& a_{243} - 2a_{245} + a_{247} - a_{248} - a_{251} - 2a_{252} + \\
& a_{253} - 2a_{128} - 2a_{129} + 3a_{134} - a_{135} - a_{136} + \\
& a_{139} - a_{141} - a_{142} + 2a_{143} - 2a_{144} - a_{146} - \\
& 2a_{147} - 2a_{149} - a_{150} - a_{151} + a_{153} - 4a_{155} - \\
& a_{157} - 2a_{158} - a_{159} - a_{160} + a_{161} + 3a_{162} + \\
& a_{163} + a_{164}
\end{aligned}
$$

$$
a_{361} = \frac{a_{233} + \sqrt{a_{233}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_0 - 2a_2 + a_6 - a_3 - a_{10} + a_{11} - \\
& a_{13} - 2a_{27} + 4a_{28} + a_{15} + a_{16} - a_{17} + \\
& 2a_{43} - 3a_{44} + 2a_{46} - a_{48} + a_{49} + 2a_{50} + \\
& a_{51} + 4a_{52} - a_{53} + a_{54} + a_{55} + a_{56} - \\
& a_{57} + 2a_{107} - a_{108} + a_{109} - 3a_{110} - 2a_{111} + \\
& 2a_{112} - 2a_{113} - 2a_{114} - a_{115} - 2a_{116} - 2a_{119} - \\
& a_{120} + a_{121} + a_{122} - 3a_{124} + a_{125} - a_{126} - \\
& 2a_{63} + a_{65} + 2a_{66} - a_{67} + a_{68} - a_{69} - \\
& a_{70} - a_{71} + 2a_{72} - a_{73} + 2a_{234} - 3a_{235} - \\
& a_{237} + a_{238} - a_{240} + a_{241} + a_{242} - 2a_{243} + \\
& a_{244} - 2a_{246} + a_{248} - a_{249} - a_{252} - 2a_{253} + \\
& a_{254} - 2a_{129} - 2a_{130} + 3a_{135} - a_{136} - a_{137} + \\
& a_{140} - a_{142} - a_{143} + 2a_{144} - 2a_{145} - a_{147} - \\
& 2a_{148} - 2a_{150} - a_{151} - a_{152} + a_{154} - 4a_{156} - \\
& a_{158} - 2a_{159} - a_{160} - a_{161} + a_{162} + 3a_{163} + \\
& a_{164} + a_{165}
\end{aligned}
$$

$$
a_{362} = \frac{a_{234} + \sqrt{a_{234}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_0 - 2a_1 + a_3 - a_4 - a_{11} + a_{12} - \\
& a_{14} - 2a_{28} + 4a_{29} + a_{16} + a_{17} - a_{18} + \\
& 2a_{44} - 3a_{45} + 2a_{47} - a_{49} + a_{50} + 2a_{51} + \\
& a_{52} + 4a_{53} - a_{54} + a_{55} + a_{56} + a_{57} - \\
& a_{58} + 2a_{108} - a_{109} + a_{110} - 3a_{111} - 2a_{112} + \\
& 2a_{113} - 2a_{114} - 2a_{115} - a_{116} - 2a_{117} - 2a_{120} - \\
& a_{121} + a_{122} + a_{123} - 3a_{125} + a_{126} - a_{63} - \\
& 2a_{64} + a_{66} + 2a_{67} - a_{68} + a_{69} - a_{70} - \\
& a_{71} - a_{72} + 2a_{73} - a_{74} + 2a_{235} - 3a_{236} - \\
& a_{238} + a_{239} - a_{241} + a_{242} + a_{243} - 2a_{244} + \\
& a_{245} - 2a_{247} + a_{249} - a_{250} - a_{253} - 2a_{254} + \\
& a_{127} - 2a_{130} - 2a_{131} + 3a_{136} - a_{137} - a_{138} + \\
& a_{141} - a_{143} - a_{144} + 2a_{145} - 2a_{146} - a_{148} - \\
& 2a_{149} - 2a_{151} - a_{152} - a_{153} + a_{155} - 4a_{157} - \\
& a_{159} - 2a_{160} - a_{161} - a_{162} + a_{163} + 3a_{164} + \\
& a_{165} + a_{166}
\end{aligned}
$$

$$
a_{363} = \frac{a_{235} + \sqrt{a_{235}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_0 - 2a_2 + a_4 - a_5 - a_{12} + a_{13} - \\
& a_7 - 2a_{29} + 4a_{30} + a_{17} + a_{18} - a_{19} + \\
& 2a_{45} - 3a_{46} + 2a_{48} - a_{50} + a_{51} + 2a_{52} + \\
& a_{53} + 4a_{54} - a_{55} + a_{56} + a_{57} + a_{58} - \\
& a_{59} + 2a_{109} - a_{110} + a_{111} - 3a_{112} - 2a_{113} + \\
& 2a_{114} - 2a_{115} - 2a_{116} - a_{117} - 2a_{118} - 2a_{121} - \\
& a_{122} + a_{123} + a_{124} - 3a_{126} + a_{63} - a_{64} - \\
& 2a_{65} + a_{67} + 2a_{68} - a_{69} + a_{70} - a_{71} -
\end{aligned}
$$

$$
\begin{aligned}
& a_{72} - a_{73} + 2a_{74} - a_{75} + 2a_{236} - 3a_{237} - \\
& a_{239} + a_{240} - a_{242} + a_{243} + a_{244} - 2a_{245} + \\
& a_{246} - 2a_{248} + a_{250} - a_{251} - a_{254} - 2a_{127} + \\
& a_{128} - 2a_{131} - 2a_{132} + 3a_{137} - a_{138} - a_{139} + \\
& a_{142} - a_{144} - a_{145} + 2a_{146} - 2a_{147} - a_{149} - \\
& 2a_{150} - 2a_{152} - a_{153} - a_{154} + a_{156} - 4a_{158} - \\
& a_{160} - 2a_{161} - a_{162} - a_{163} + a_{164} + 3a_{165} + \\
& a_{166} + a_{167}
\end{aligned}
$$

$$
a_{364} = \frac{a_{236} + \sqrt{a_{236}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_0 - 2a_1 + a_5 - a_6 - a_{13} + a_{14} - \\
& a_8 - 2a_{30} + 4a_{15} + a_{18} + a_{19} - a_{20} + \\
& 2a_{46} - 3a_{47} + 2a_{49} - a_{51} + a_{52} + 2a_{53} + \\
& a_{54} + 4a_{55} - a_{56} + a_{57} + a_{58} + a_{59} - \\
& a_{60} + 2a_{110} - a_{111} + a_{112} - 3a_{113} - 2a_{114} + \\
& 2a_{115} - 2a_{116} - 2a_{117} - a_{118} - 2a_{119} - 2a_{122} - \\
& a_{123} + a_{124} + a_{125} - 3a_{63} + a_{64} - a_{65} - \\
& 2a_{66} + a_{68} + 2a_{69} - a_{70} + a_{71} - a_{72} - \\
& a_{73} - a_{74} + 2a_{75} - a_{76} + 2a_{237} - 3a_{238} - \\
& a_{240} + a_{241} - a_{243} + a_{244} + a_{245} - 2a_{246} + \\
& a_{247} - 2a_{249} + a_{251} - a_{252} - a_{127} - 2a_{128} + \\
& a_{129} - 2a_{132} - 2a_{133} + 3a_{138} - a_{139} - a_{140} + \\
& a_{143} - a_{145} - a_{146} + 2a_{147} - 2a_{148} - a_{150} - \\
& 2a_{151} - 2a_{153} - a_{154} - a_{155} + a_{157} - 4a_{159} - \\
& a_{161} - 2a_{162} - a_{163} - a_{164} + a_{165} + 3a_{166} + \\
& a_{167} + a_{168}
\end{aligned}
$$

$$
a_{365} = \frac{a_{237} + \sqrt{a_{237}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_0 - 2a_2 + a_6 - a_3 - a_{14} + a_7 - \\
& a_9 - 2a_{15} + 4a_{16} + a_{19} + a_{20} - a_{21} + \\
& 2a_{47} - 3a_{48} + 2a_{50} - a_{52} + a_{53} + 2a_{54} + \\
& a_{55} + 4a_{56} - a_{57} + a_{58} + a_{59} + a_{60} - \\
& a_{61} + 2a_{111} - a_{112} + a_{113} - 3a_{114} - 2a_{115} + \\
& 2a_{116} - 2a_{117} - 2a_{118} - a_{119} - 2a_{120} - 2a_{123} - \\
& a_{124} + a_{125} + a_{126} - 3a_{64} + a_{65} - a_{66} - \\
& 2a_{67} + a_{69} + 2a_{70} - a_{71} + a_{72} - a_{73} - \\
& a_{74} - a_{75} + 2a_{76} - a_{77} + 2a_{238} - 3a_{239} - \\
& a_{241} + a_{242} - a_{244} + a_{245} + a_{246} - 2a_{247} + \\
& a_{248} - 2a_{250} + a_{252} - a_{253} - a_{128} - 2a_{129} + \\
& a_{130} - 2a_{133} - 2a_{134} + 3a_{139} - a_{140} - a_{141} + \\
& a_{144} - a_{146} - a_{147} + 2a_{148} - 2a_{149} - a_{151} - \\
& 2a_{152} - 2a_{154} - a_{155} - a_{156} + a_{158} - 4a_{160} - \\
& a_{162} - 2a_{163} - a_{164} - a_{165} + a_{166} + 3a_{167} + \\
& a_{168} + a_{169}
\end{aligned}
$$

$$
a_{366} = \frac{a_{238} - \sqrt{a_{238}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_0 - 2a_1 + a_3 - a_4 - a_7 + a_8 - \\
& a_{10} - 2a_{16} + 4a_{17} + a_{20} + a_{21} - a_{22} + \\
& 2a_{48} - 3a_{49} + 2a_{51} - a_{53} + a_{54} + 2a_{55} + \\
& a_{56} + 4a_{57} - a_{58} + a_{59} + a_{60} + a_{61} - \\
& a_{62} + 2a_{112} - a_{113} + a_{114} - 3a_{115} - 2a_{116} + \\
& 2a_{117} - 2a_{118} - 2a_{119} - a_{120} - 2a_{121} - 2a_{124} - \\
& a_{125} + a_{126} + a_{63} - 3a_{65} + a_{66} - a_{67} - \\
& 2a_{68} + a_{70} + 2a_{71} - a_{72} + a_{73} - a_{74} - \\
& a_{75} - a_{76} + 2a_{77} - a_{78} + 2a_{239} - 3a_{240} - \\
& a_{242} + a_{243} - a_{245} + a_{246} + a_{247} - 2a_{248} + \\
& a_{249} - 2a_{251} + a_{253} - a_{254} - a_{129} - 2a_{130} + \\
& a_{131} - 2a_{134} - 2a_{135} + 3a_{140} - a_{141} - a_{142} + \\
& a_{145} - a_{147} - a_{148} + 2a_{149} - 2a_{150} - a_{152} - \\
& 2a_{153} - 2a_{155} - a_{156} - a_{157} + a_{159} - 4a_{161} - \\
& a_{163} - 2a_{164} - a_{165} - a_{166} + a_{167} + 3a_{168} + \\
& a_{169} + a_{170}
\end{aligned}
$$

$$
a_{367} = \frac{a_{239} + \sqrt{a_{239}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_0 - 2a_2 + a_4 - a_5 - a_8 + a_9 - \\
& a_{11} - 2a_{17} + 4a_{18} + a_{21} + a_{22} - a_{23} + \\
& 2a_{49} - 3a_{50} + 2a_{52} - a_{54} + a_{55} + 2a_{56} + \\
& a_{57} + 4a_{58} - a_{59} + a_{60} + a_{61} + a_{62} - \\
& a_{31} + 2a_{113} - a_{114} + a_{115} - 3a_{116} - 2a_{117} + \\
& 2a_{118} - 2a_{119} - 2a_{120} - a_{121} - 2a_{122} - 2a_{125} - \\
& a_{126} + a_{63} + a_{64} - 3a_{66} + a_{67} - a_{68} - \\
& 2a_{69} + a_{71} + 2a_{72} - a_{73} + a_{74} - a_{75} - \\
& a_{76} - a_{77} + 2a_{78} - a_{79} + 2a_{240} - 3a_{241} - \\
& a_{243} + a_{244} - a_{246} + a_{247} + a_{248} - 2a_{249} + \\
& a_{250} - 2a_{252} + a_{254} - a_{127} - a_{130} - 2a_{131} + \\
& a_{132} - 2a_{135} - 2a_{136} + 3a_{141} - a_{142} - a_{143} + \\
& a_{146} - a_{148} - a_{149} + 2a_{150} - 2a_{151} - a_{153} - \\
& 2a_{154} - 2a_{156} - a_{157} - a_{158} + a_{160} - 4a_{162} - \\
& a_{164} - 2a_{165} - a_{166} - a_{167} + a_{168} + 3a_{169} + \\
& a_{170} + a_{171}
\end{aligned}
$$

$$
a_{368} = \frac{a_{240} - \sqrt{a_{240}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_0 - 2a_1 + a_5 - a_6 - a_9 + a_{10} - \\
& a_{12} - 2a_{18} + 4a_{19} + a_{22} + a_{23} - a_{24} + \\
& 2a_{50} - 3a_{51} + 2a_{53} - a_{55} + a_{56} + 2a_{57} + \\
& a_{58} + 4a_{59} - a_{60} + a_{61} + a_{62} + a_{31} - \\
& a_{32} + 2a_{114} - a_{115} + a_{116} - 3a_{117} - 2a_{118} + \\
& 2a_{119} - 2a_{120} - 2a_{121} - a_{122} - 2a_{123} - 2a_{126} - \\
& a_{63} + a_{64} + a_{65} - 3a_{67} + a_{68} - a_{69} - \\
& 2a_{70} + a_{72} + 2a_{73} - a_{74} + a_{75} - a_{76} - \\
& a_{77} - a_{78} + 2a_{79} - a_{80} + 2a_{241} - 3a_{242} - \\
& a_{244} + a_{245} - a_{247} + a_{248} + a_{249} - 2a_{250} + \\
& a_{251} - 2a_{253} + a_{127} - a_{128} - a_{131} - 2a_{132} + \\
& a_{133} - 2a_{136} - 2a_{137} + 3a_{142} - a_{143} - a_{144} + \\
& a_{147} - a_{149} - a_{150} + 2a_{151} - 2a_{152} - a_{154} - \\
& 2a_{155} - 2a_{157} - a_{158} - a_{159} + a_{161} - 4a_{163} - \\
& a_{165} - 2a_{166} - a_{167} - a_{168} + a_{169} + 3a_{170} + \\
& a_{171} + a_{172}
\end{aligned}
$$

$$
\begin{aligned}
a_{369} &= \frac{a_{241} - \sqrt{a_{241}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_2 + a_6 - a_3 - a_{10} + a_{11} - \\
&\quad a_{13} - 2a_{19} + 4a_{20} + a_{23} + a_{24} - a_{25} + \\
&\quad 2a_{51} - 3a_{52} + 2a_{54} - a_{56} + a_{57} + 2a_{58} + \\
&\quad a_{59} + 4a_{60} - a_{61} + a_{62} + a_{31} + a_{32} - \\
&\quad a_{33} + 2a_{115} - a_{116} + a_{117} - 3a_{118} - 2a_{119} + \\
&\quad 2a_{120} - 2a_{121} - 2a_{122} - a_{123} - 2a_{124} - 2a_{63} - \\
&\quad a_{64} + a_{65} + a_{66} - 3a_{68} + a_{69} - a_{70} - \\
&\quad 2a_{71} + a_{73} + 2a_{74} - a_{75} + a_{76} - a_{77} - \\
&\quad a_{78} - a_{79} + 2a_{80} - a_{81} + 2a_{242} - 3a_{243} - \\
&\quad a_{245} + a_{246} - a_{248} + a_{249} + a_{250} - 2a_{251} + \\
&\quad a_{252} - 2a_{254} + a_{128} - a_{129} - a_{132} - 2a_{133} + \\
&\quad a_{134} - 2a_{137} - 2a_{138} + 3a_{143} - a_{144} - a_{145} + \\
&\quad a_{148} - a_{150} - a_{151} + 2a_{152} - 2a_{153} - a_{155} - \\
&\quad 2a_{156} - 2a_{158} - a_{159} - a_{160} + a_{162} - 4a_{164} - \\
&\quad a_{166} - 2a_{167} - a_{168} - a_{169} + a_{170} + 3a_{171} + \\
&\quad a_{172} + a_{173}
\end{aligned}
$$

$$
\begin{aligned}
a_{370} &= \frac{a_{242} - \sqrt{a_{242}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_1 + a_3 - a_4 - a_{11} + a_{12} - \\
&\quad a_{14} - 2a_{20} + 4a_{21} + a_{24} + a_{25} - a_{26} + \\
&\quad 2a_{52} - 3a_{53} + 2a_{55} - a_{57} + a_{58} + 2a_{59} + \\
&\quad a_{60} + 4a_{61} - a_{62} + a_{31} + a_{32} + a_{33} - \\
&\quad a_{34} + 2a_{116} - a_{117} + a_{118} - 3a_{119} - 2a_{120} + \\
&\quad 2a_{121} - 2a_{122} - 2a_{123} - a_{124} - 2a_{125} - 2a_{64} - \\
&\quad a_{65} + a_{66} + a_{67} - 3a_{69} + a_{70} - a_{71} - \\
&\quad 2a_{72} + a_{74} + 2a_{75} - a_{76} + a_{77} - a_{78} - \\
&\quad a_{79} - a_{80} + 2a_{81} - a_{82} + 2a_{243} - 3a_{244} - \\
&\quad a_{246} + a_{247} - a_{249} + a_{250} + a_{251} - 2a_{252} + \\
&\quad a_{253} - 2a_{127} + a_{129} - a_{130} - a_{133} - 2a_{134} + \\
&\quad a_{135} - 2a_{138} - 2a_{139} + 3a_{144} - a_{145} - a_{146} + \\
&\quad a_{149} - a_{151} - a_{152} + 2a_{153} - 2a_{154} - a_{156} - \\
&\quad 2a_{157} - 2a_{159} - a_{160} - a_{161} + a_{163} - 4a_{165} - \\
&\quad a_{167} - 2a_{168} - a_{169} - a_{170} + a_{171} + 3a_{172} + \\
&\quad a_{173} + a_{174}
\end{aligned}
$$

$$
\begin{aligned}
a_{371} &= \frac{a_{243} + \sqrt{a_{243}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_2 + a_4 - a_5 - a_{12} + a_{13} - \\
&\quad a_7 - 2a_{21} + 4a_{22} + a_{25} + a_{26} - a_{27} + \\
&\quad 2a_{53} - 3a_{54} + 2a_{56} - a_{58} + a_{59} + 2a_{60} + \\
&\quad a_{61} + 4a_{62} - a_{31} + a_{32} + a_{33} + a_{34} - \\
&\quad a_{35} + 2a_{117} - a_{118} + a_{119} - 3a_{120} - 2a_{121} + \\
&\quad 2a_{122} - 2a_{123} - 2a_{124} - a_{125} - 2a_{126} - 2a_{65} - \\
&\quad a_{66} + a_{67} + a_{68} - 3a_{70} + a_{71} - a_{72} - \\
&\quad 2a_{73} + a_{75} + 2a_{76} - a_{77} + a_{78} - a_{79} - \\
&\quad a_{80} - a_{81} + 2a_{82} - a_{83} + 2a_{244} - 3a_{245} - \\
&\quad a_{247} + a_{248} - a_{250} + a_{251} + a_{252} - 2a_{253} + \\
&\quad a_{254} - 2a_{128} + a_{130} - a_{131} - a_{134} - 2a_{135} + \\
&\quad a_{136} - 2a_{139} - 2a_{140} + 3a_{145} - a_{146} - a_{147} + \\
&\quad a_{150} - a_{152} - a_{153} + 2a_{154} - 2a_{155} - a_{157} - \\
&\quad 2a_{158} - 2a_{160} - a_{161} - a_{162} + a_{164} - 4a_{166} - \\
&\quad a_{168} - 2a_{169} - a_{170} - a_{171} + a_{172} + 3a_{173} + \\
&\quad a_{174} + a_{175}
\end{aligned}
$$

$$
\begin{aligned}
a_{372} &= \frac{a_{244} - \sqrt{a_{244}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_1 + a_5 - a_6 - a_{13} + a_{14} - \\
&\quad a_8 - 2a_{22} + 4a_{23} + a_{26} + a_{27} - a_{28} + \\
&\quad 2a_{54} - 3a_{55} + 2a_{57} - a_{59} + a_{60} + 2a_{61} + \\
&\quad a_{62} + 4a_{31} - a_{32} + a_{33} + a_{34} + a_{35} - \\
&\quad a_{36} + 2a_{118} - a_{119} + a_{120} - 3a_{121} - 2a_{122} + \\
&\quad 2a_{123} - 2a_{124} - 2a_{125} - a_{126} - 2a_{63} - 2a_{66} - \\
&\quad a_{67} + a_{68} + a_{69} - 3a_{71} + a_{72} - a_{73} - \\
&\quad 2a_{74} + a_{76} + 2a_{77} - a_{78} + a_{79} - a_{80} - \\
&\quad a_{81} - a_{82} + 2a_{83} - a_{84} + 2a_{245} - 3a_{246} - \\
&\quad a_{248} + a_{249} - a_{251} + a_{252} + a_{253} - 2a_{254} + \\
&\quad a_{127} - 2a_{129} + a_{131} - a_{132} - a_{135} - 2a_{136} + \\
&\quad a_{137} - 2a_{140} - 2a_{141} + 3a_{146} - a_{147} - a_{148} + \\
&\quad a_{151} - a_{153} - a_{154} + 2a_{155} - 2a_{156} - a_{158} - \\
&\quad 2a_{159} - 2a_{161} - a_{162} - a_{163} + a_{165} - 4a_{167} - \\
&\quad a_{169} - 2a_{170} - a_{171} - a_{172} + a_{173} + 3a_{174} + \\
&\quad a_{175} + a_{176}
\end{aligned}
$$

$$
\begin{aligned}
a_{373} &= \frac{a_{245} - \sqrt{a_{245}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_2 + a_6 - a_3 - a_{14} + a_7 - \\
&\quad a_9 - 2a_{23} + 4a_{24} + a_{27} + a_{28} - a_{29} + \\
&\quad 2a_{55} - 3a_{56} + 2a_{58} - a_{60} + a_{61} + 2a_{62} + \\
&\quad a_{31} + 4a_{32} - a_{33} + a_{34} + a_{35} + a_{36} - \\
&\quad a_{37} + 2a_{119} - a_{120} + a_{121} - 3a_{122} - 2a_{123} + \\
&\quad 2a_{124} - 2a_{125} - 2a_{126} - a_{63} - 2a_{64} - 2a_{67} - \\
&\quad a_{68} + a_{69} + a_{70} - 3a_{72} + a_{73} - a_{74} - \\
&\quad 2a_{75} + a_{77} + 2a_{78} - a_{79} + a_{80} - a_{81} - \\
&\quad a_{82} - a_{83} + 2a_{84} - a_{85} + 2a_{246} - 3a_{247} - \\
&\quad a_{249} + a_{250} - a_{252} + a_{253} + a_{254} - 2a_{127} + \\
&\quad a_{128} - 2a_{130} + a_{132} - a_{133} - a_{136} - 2a_{137} + \\
&\quad a_{138} - 2a_{141} - 2a_{142} + 3a_{147} - a_{148} - a_{149} + \\
&\quad a_{152} - a_{154} - a_{155} + 2a_{156} - 2a_{157} - a_{159} - \\
&\quad 2a_{160} - 2a_{162} - a_{163} - a_{164} + a_{166} - 4a_{168} - \\
&\quad a_{170} - 2a_{171} - a_{172} - a_{173} + a_{174} + 3a_{175} + \\
&\quad a_{176} + a_{177}
\end{aligned}
$$

$$
\begin{aligned}
a_{374} &= \frac{a_{246} + \sqrt{a_{246}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_1 + a_3 - a_4 - a_7 + a_8 - \\
&\quad a_{10} - 2a_{24} + 4a_{25} + a_{28} + a_{29} - a_{30} + \\
&\quad 2a_{56} - 3a_{57} + 2a_{59} - a_{61} + a_{62} + 2a_{31} + \\
&\quad a_{32} + 4a_{33} - a_{34} + a_{35} + a_{36} + a_{37} - \\
&\quad a_{38} + 2a_{120} - a_{121} + a_{122} - 3a_{123} - 2a_{124} +
\end{aligned}
$$

$$
\begin{aligned}
& 2a_{125} - 2a_{126} - 2a_{63} - a_{64} - 2a_{65} - 2a_{68} - \\
& a_{69} + a_{70} + a_{71} - 3a_{73} + a_{74} - a_{75} - \\
& 2a_{76} + a_{78} + 2a_{79} - a_{80} + a_{81} - a_{82} - \\
& a_{83} - a_{84} + 2a_{85} - a_{86} + 2a_{247} - 3a_{248} - \\
& a_{250} + a_{251} - a_{253} + a_{254} + a_{127} - 2a_{128} + \\
& a_{129} - 2a_{131} + a_{133} - a_{134} - a_{137} - 2a_{138} + \\
& a_{139} - 2a_{142} - 2a_{143} + 3a_{148} - a_{149} - a_{150} + \\
& a_{153} - a_{155} - a_{156} + 2a_{157} - 2a_{158} - a_{160} - \\
& 2a_{161} - 2a_{163} - a_{164} - a_{165} + a_{167} - 4a_{169} - \\
& a_{171} - 2a_{172} - a_{173} - a_{174} + a_{175} + 3a_{176} + \\
& a_{177} + a_{178}
\end{aligned}
$$

$$
a_{375} = \frac{a_{247} + \sqrt{a_{247}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_0 - 2a_2 + a_4 - a_5 - a_8 + a_9 - \\
& a_{11} - 2a_{25} + 4a_{26} + a_{29} + a_{30} - a_{15} + \\
& 2a_{57} - 3a_{58} + 2a_{60} - a_{62} + a_{31} + 2a_{32} + \\
& a_{33} + 4a_{34} - a_{35} + a_{36} + a_{37} + a_{38} - \\
& a_{39} + 2a_{121} - a_{122} + a_{123} - 3a_{124} - 2a_{125} + \\
& 2a_{126} - 2a_{63} - 2a_{64} - a_{65} - 2a_{66} - 2a_{69} - \\
& a_{70} + a_{71} + a_{72} - 3a_{74} + a_{75} - a_{76} - \\
& 2a_{77} + a_{79} + 2a_{80} - a_{81} + a_{82} - a_{83} - \\
& a_{84} - a_{85} + 2a_{86} - a_{87} + 2a_{248} - 3a_{249} - \\
& a_{251} + a_{252} - a_{254} + a_{127} + a_{128} - 2a_{129} + \\
& a_{130} - 2a_{132} + a_{134} - a_{135} - a_{138} - 2a_{139} + \\
& a_{140} - 2a_{143} - 2a_{144} + 3a_{149} - a_{150} - a_{151} + \\
& a_{154} - a_{156} - a_{157} + 2a_{158} - 2a_{159} - a_{161} - \\
& 2a_{162} - 2a_{164} - a_{165} - a_{166} + a_{168} - 4a_{170} - \\
& a_{172} - 2a_{173} - a_{174} - a_{175} + a_{176} + 3a_{177} + \\
& a_{178} + a_{179}
\end{aligned}
$$

$$
a_{376} = \frac{a_{248} - \sqrt{a_{248}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_0 - 2a_1 + a_5 - a_6 - a_9 + a_{10} - \\
& a_{12} - 2a_{26} + 4a_{27} + a_{30} + a_{15} - a_{16} + \\
& 2a_{58} - 3a_{59} + 2a_{61} - a_{31} + a_{32} + 2a_{33} + \\
& a_{34} + 4a_{35} - a_{36} + a_{37} + a_{38} + a_{39} - \\
& a_{40} + 2a_{122} - a_{123} + a_{124} - 3a_{125} - 2a_{126} + \\
& 2a_{63} - 2a_{64} - 2a_{65} - a_{66} - 2a_{67} - 2a_{70} - \\
& a_{71} + a_{72} + a_{73} - 3a_{75} + a_{76} - a_{77} - \\
& 2a_{78} + a_{80} + 2a_{81} - a_{82} + a_{83} - a_{84} - \\
& a_{85} - a_{86} + 2a_{87} - a_{88} + 2a_{249} - 3a_{250} - \\
& a_{252} + a_{253} - a_{127} + a_{128} + a_{129} - 2a_{130} + \\
& a_{131} - 2a_{133} + a_{135} - a_{136} - a_{139} - 2a_{140} + \\
& a_{141} - 2a_{144} - 2a_{145} + 3a_{150} - a_{151} - a_{152} + \\
& a_{155} - a_{157} - a_{158} + 2a_{159} - 2a_{160} - a_{162} - \\
& 2a_{163} - 2a_{165} - a_{166} - a_{167} + a_{169} - 4a_{171} - \\
& a_{173} - 2a_{174} - a_{175} - a_{176} + a_{177} + 3a_{178} + \\
& a_{179} + a_{180}
\end{aligned}
$$

$$
a_{377} = \frac{a_{249} - \sqrt{a_{249}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_0 - 2a_2 + a_6 - a_3 - a_{10} + a_{11} - \\
& a_{13} - 2a_{27} + 4a_{28} + a_{15} + a_{16} - a_{17} + \\
& 2a_{59} - 3a_{60} + 2a_{62} - a_{32} + a_{33} + 2a_{34} + \\
& a_{35} + 4a_{36} - a_{37} + a_{38} + a_{39} + a_{40} - \\
& a_{41} + 2a_{123} - a_{124} + a_{125} - 3a_{126} - 2a_{63} + \\
& 2a_{64} - 2a_{65} - 2a_{66} - a_{67} - 2a_{68} - 2a_{71} - \\
& a_{72} + a_{73} + a_{74} - 3a_{76} + a_{77} - a_{78} - \\
& 2a_{79} + a_{81} + 2a_{82} - a_{83} + a_{84} - a_{85} - \\
& a_{86} - a_{87} + 2a_{88} - a_{89} + 2a_{250} - 3a_{251} - \\
& a_{253} + a_{254} - a_{128} + a_{129} + a_{130} - 2a_{131} + \\
& a_{132} - 2a_{134} + a_{136} - a_{137} - a_{140} - 2a_{141} + \\
& a_{142} - 2a_{145} - 2a_{146} + 3a_{151} - a_{152} - a_{153} + \\
& a_{156} - a_{158} - a_{159} + 2a_{160} - 2a_{161} - a_{163} - \\
& 2a_{164} - 2a_{166} - a_{167} - a_{168} + a_{170} - 4a_{172} - \\
& a_{174} - 2a_{175} - a_{176} - a_{177} + a_{178} + 3a_{179} + \\
& a_{180} + a_{181}
\end{aligned}
$$

$$
a_{378} = \frac{a_{250} + \sqrt{a_{250}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_0 - 2a_1 + a_3 - a_4 - a_{11} + a_{12} - \\
& a_{14} - 2a_{28} + 4a_{29} + a_{16} + a_{17} - a_{18} + \\
& 2a_{60} - 3a_{61} + 2a_{31} - a_{33} + a_{34} + 2a_{35} + \\
& a_{36} + 4a_{37} - a_{38} + a_{39} + a_{40} + a_{41} - \\
& a_{42} + 2a_{124} - a_{125} + a_{126} - 3a_{63} - 2a_{64} + \\
& 2a_{65} - 2a_{66} - 2a_{67} - a_{68} - 2a_{69} - 2a_{72} - \\
& a_{73} + a_{74} + a_{75} - 3a_{77} + a_{78} - a_{79} - \\
& 2a_{80} + a_{82} + 2a_{83} - a_{84} + a_{85} - a_{86} - \\
& a_{87} - a_{88} + 2a_{89} - a_{90} + 2a_{251} - 3a_{252} - \\
& a_{254} + a_{127} - a_{129} + a_{130} + a_{131} - 2a_{132} + \\
& a_{133} - 2a_{135} + a_{137} - a_{138} - a_{141} - 2a_{142} + \\
& a_{143} - 2a_{146} - 2a_{147} + 3a_{152} - a_{153} - a_{154} + \\
& a_{157} - a_{159} - a_{160} + 2a_{161} - 2a_{162} - a_{164} - \\
& 2a_{165} - 2a_{167} - a_{168} - a_{169} + a_{171} - 4a_{173} - \\
& a_{175} - 2a_{176} - a_{177} - a_{178} + a_{179} + 3a_{180} + \\
& a_{181} + a_{182}
\end{aligned}
$$

$$
a_{379} = \frac{a_{251} + \sqrt{a_{251}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_0 - 2a_2 + a_4 - a_5 - a_{12} + a_{13} - \\
& a_7 - 2a_{29} + 4a_{30} + a_{17} + a_{18} - a_{19} + \\
& 2a_{61} - 3a_{62} + 2a_{32} - a_{34} + a_{35} + 2a_{36} + \\
& a_{37} + 4a_{38} - a_{39} + a_{40} + a_{41} + a_{42} - \\
& a_{43} + 2a_{125} - a_{126} + a_{63} - 3a_{64} - 2a_{65} + \\
& 2a_{66} - 2a_{67} - 2a_{68} - a_{69} - 2a_{70} - 2a_{73} - \\
& a_{74} + a_{75} + a_{76} - 3a_{78} + a_{79} - a_{80} - \\
& 2a_{81} + a_{83} + 2a_{84} - a_{85} + a_{86} - a_{87} - \\
& a_{88} - a_{89} + 2a_{90} - a_{91} + 2a_{252} - 3a_{253} - \\
& a_{127} + a_{128} - a_{130} + a_{131} + a_{132} - 2a_{133} + \\
& a_{134} - 2a_{136} + a_{138} - a_{139} - a_{142} - 2a_{143} + \\
& a_{144} - 2a_{147} - 2a_{148} + 3a_{153} - a_{154} - a_{155} + \\
& a_{158} - a_{160} - a_{161} + 2a_{162} - 2a_{163} - a_{165} -
\end{aligned}
$$

$$
\begin{aligned}
& 2a_{166} - 2a_{168} - a_{169} - a_{170} + a_{172} - 4a_{174} - \\
& a_{176} - 2a_{177} - a_{178} - a_{179} + a_{180} + 3a_{181} + \\
& a_{182} + a_{183}
\end{aligned}
$$

$$
\begin{aligned}
a_{380} &= \frac{a_{252} + \sqrt{a_{252}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_1 + a_5 - a_6 - a_{13} + a_{14} - \\
& a_8 - 2a_{30} + 4a_{15} + a_{18} + a_{19} - a_{20} + \\
& 2a_{62} - 3a_{31} + 2a_{33} - a_{35} + a_{36} + 2a_{37} + \\
& a_{38} + 4a_{39} - a_{40} + a_{41} + a_{42} + a_{43} - \\
& a_{44} + 2a_{126} - a_{63} + a_{64} - 3a_{65} - 2a_{66} + \\
& 2a_{67} - 2a_{68} - 2a_{69} - a_{70} - 2a_{71} - 2a_{74} - \\
& a_{75} + a_{76} + a_{77} - 3a_{79} + a_{80} - a_{81} - \\
& 2a_{82} + a_{84} + 2a_{85} - a_{86} + a_{87} - a_{88} - \\
& a_{89} - a_{90} + 2a_{91} - a_{92} + 2a_{253} - 3a_{254} - \\
& a_{128} + a_{129} - a_{131} + a_{132} + a_{133} - 2a_{134} + \\
& a_{135} - 2a_{137} + a_{139} - a_{140} - a_{143} - 2a_{144} + \\
& a_{145} - 2a_{148} - 2a_{149} + 3a_{154} - a_{155} - a_{156} + \\
& a_{159} - a_{161} - a_{162} + 2a_{163} - 2a_{164} - a_{166} - \\
& 2a_{167} - 2a_{169} - a_{170} - a_{171} + a_{173} - 4a_{175} - \\
& a_{177} - 2a_{178} - a_{179} - a_{180} + a_{181} + 3a_{182} + \\
& a_{183} + a_{184} \\
a_{381} &= \frac{a_{253} - \sqrt{a_{253}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_2 + a_6 - a_3 - a_{14} + a_7 - \\
& a_9 - 2a_{15} + 4a_{16} + a_{19} + a_{20} - a_{21} + \\
& 2a_{31} - 3a_{32} + 2a_{34} - a_{36} + a_{37} + 2a_{38} + \\
& a_{39} + 4a_{40} - a_{41} + a_{42} + a_{43} + a_{44} - \\
& a_{45} + 2a_{63} - a_{64} + a_{65} - 3a_{66} - 2a_{67} + \\
& 2a_{68} - 2a_{69} - 2a_{70} - a_{71} - 2a_{72} - 2a_{75} - \\
& a_{76} + a_{77} + a_{78} - 3a_{80} + a_{81} - a_{82} - \\
& 2a_{83} + a_{85} + 2a_{86} - a_{87} + a_{88} - a_{89} - \\
& a_{90} - a_{91} + 2a_{92} - a_{93} + 2a_{254} - 3a_{127} - \\
& a_{129} + a_{130} - a_{132} + a_{133} + a_{134} - 2a_{135} + \\
& a_{136} - 2a_{138} + a_{140} - a_{141} - a_{144} - 2a_{145} + \\
& a_{146} - 2a_{149} - 2a_{150} + 3a_{155} - a_{156} - a_{157} + \\
& a_{160} - a_{162} - a_{163} + 2a_{164} - 2a_{165} - a_{167} - \\
& 2a_{168} - 2a_{170} - a_{171} - a_{172} + a_{174} - 4a_{176} - \\
& a_{178} - 2a_{179} - a_{180} - a_{181} + a_{182} + 3a_{183} + \\
& a_{184} + a_{185} \\
a_{382} &= \frac{a_{254} + \sqrt{a_{254}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_1 + a_3 - a_4 - a_7 + a_8 - \\
& a_{10} - 2a_{16} + 4a_{17} + a_{20} + a_{21} - a_{22} + \\
& 2a_{32} - 3a_{33} + 2a_{35} - a_{37} + a_{38} + 2a_{39} + \\
& a_{40} + 4a_{41} - a_{42} + a_{43} + a_{44} + a_{45} - \\
& a_{46} + 2a_{64} - a_{65} + a_{66} - 3a_{67} - 2a_{68} + \\
& 2a_{69} - 2a_{70} - 2a_{71} - a_{72} - 2a_{73} - 2a_{76} - \\
& a_{77} + a_{78} + a_{79} - 3a_{81} + a_{82} - a_{83} - \\
& 2a_{84} + a_{86} + 2a_{87} - a_{88} + a_{89} - a_{90} - \\
& a_{91} - a_{92} + 2a_{93} - a_{94} + 2a_{127} - 3a_{128} - \\
& a_{130} + a_{131} - a_{133} + a_{134} + a_{135} - 2a_{136} + \\
& a_{137} - 2a_{139} + a_{141} - a_{142} - a_{145} - 2a_{146} + \\
& a_{147} - 2a_{150} - 2a_{151} + 3a_{156} - a_{157} - a_{158} + \\
& a_{161} - a_{163} - a_{164} + 2a_{165} - 2a_{166} - a_{168} - \\
& 2a_{169} - 2a_{171} - a_{172} - a_{173} + a_{175} - 4a_{177} - \\
& a_{179} - 2a_{180} - a_{181} - a_{182} + a_{183} + 3a_{184} + \\
& a_{185} + a_{186} \\
a_{383} &= \frac{a_{127} - \sqrt{a_{127}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_2 + a_4 - a_5 - a_8 + a_9 - \\
& a_{11} - 2a_{17} + 4a_{18} + a_{21} + a_{22} - a_{23} + \\
& 2a_{33} - 3a_{34} + 2a_{36} - a_{38} + a_{39} + 2a_{40} + \\
& a_{41} + 4a_{42} - a_{43} + a_{44} + a_{45} + a_{46} - \\
& a_{47} + 2a_{65} - a_{66} + a_{67} - 3a_{68} - 2a_{69} + \\
& 2a_{70} - 2a_{71} - 2a_{72} - a_{73} - 2a_{74} - 2a_{77} - \\
& a_{78} + a_{79} + a_{80} - 3a_{82} + a_{83} - a_{84} - \\
& 2a_{85} + a_{87} + 2a_{88} - a_{89} + a_{90} - a_{91} - \\
& a_{92} - a_{93} + 2a_{94} - a_{95} + 2a_{128} - 3a_{129} - \\
& a_{131} + a_{132} - a_{134} + a_{135} + a_{136} - 2a_{137} + \\
& a_{138} - 2a_{140} + a_{142} - a_{143} - a_{146} - 2a_{147} + \\
& a_{148} - 2a_{151} - 2a_{152} + 3a_{157} - a_{158} - a_{159} + \\
& a_{162} - a_{164} - a_{165} + 2a_{166} - 2a_{167} - a_{169} - \\
& 2a_{170} - 2a_{172} - a_{173} - a_{174} + a_{176} - 4a_{178} - \\
& a_{180} - 2a_{181} - a_{182} - a_{183} + a_{184} + 3a_{185} + \\
& a_{186} + a_{187} \\
a_{384} &= \frac{a_{128} - \sqrt{a_{128}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_1 + a_5 - a_6 - a_9 + a_{10} - \\
& a_{12} - 2a_{18} + 4a_{19} + a_{22} + a_{23} - a_{24} + \\
& 2a_{34} - 3a_{35} + 2a_{37} - a_{39} + a_{40} + 2a_{41} + \\
& a_{42} + 4a_{43} - a_{44} + a_{45} + a_{46} + a_{47} - \\
& a_{48} + 2a_{66} - a_{67} + a_{68} - 3a_{69} - 2a_{70} + \\
& 2a_{71} - 2a_{72} - 2a_{73} - a_{74} - 2a_{75} - 2a_{78} - \\
& a_{79} + a_{80} + a_{81} - 3a_{83} + a_{84} - a_{85} - \\
& 2a_{86} + a_{88} + 2a_{89} - a_{90} + a_{91} - a_{92} - \\
& a_{93} - a_{94} + 2a_{95} - a_{96} + 2a_{129} - 3a_{130} - \\
& a_{132} + a_{133} - a_{135} + a_{136} + a_{137} - 2a_{138} + \\
& a_{139} - 2a_{141} + a_{143} - a_{144} - a_{147} - 2a_{148} + \\
& a_{149} - 2a_{152} - 2a_{153} + 3a_{158} - a_{159} - a_{160} + \\
& a_{163} - a_{165} - a_{166} + 2a_{167} - 2a_{168} - a_{170} - \\
& 2a_{171} - 2a_{173} - a_{174} - a_{175} + a_{177} - 4a_{179} - \\
& a_{181} - 2a_{182} - a_{183} - a_{184} + a_{185} + 3a_{186} + \\
& a_{187} + a_{188} \\
a_{385} &= \frac{a_{129} - \sqrt{a_{129}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_2 + a_6 - a_3 - a_{10} + a_{11} - \\
& a_{13} - 2a_{19} + 4a_{20} + a_{23} + a_{24} - a_{25} +
\end{aligned}
$$

$$
\begin{aligned}
& 2a_{35} - 3a_{36} + 2a_{38} - a_{40} + a_{41} + 2a_{42} + \\
& a_{43} + 4a_{44} - a_{45} + a_{46} + a_{47} + a_{48} - \\
& a_{49} + 2a_{67} - a_{68} + a_{69} - 3a_{70} - 2a_{71} + \\
& 2a_{72} - 2a_{73} - 2a_{74} - a_{75} - 2a_{76} - 2a_{79} - \\
& a_{80} + a_{81} + a_{82} - 3a_{84} + a_{85} - a_{86} - \\
& 2a_{87} + a_{89} + 2a_{90} - a_{91} + a_{92} - a_{93} - \\
& a_{94} - a_{95} + 2a_{96} - a_{97} + 2a_{130} - 3a_{131} - \\
& a_{133} + a_{134} - a_{136} + a_{137} + a_{138} - 2a_{139} + \\
& a_{140} - 2a_{142} + a_{144} - a_{145} - a_{148} - 2a_{149} + \\
& a_{150} - 2a_{153} - 2a_{154} + 3a_{159} - a_{160} - a_{161} + \\
& a_{164} - a_{166} - a_{167} + 2a_{168} - 2a_{169} - a_{171} - \\
& 2a_{172} - 2a_{174} - a_{175} - a_{176} + a_{178} - 4a_{180} - \\
& a_{182} - 2a_{183} - a_{184} - a_{185} + a_{186} + 3a_{187} + \\
& a_{188} + a_{189}
\end{aligned}
$$

$$
a_{386} = \frac{a_{130} - \sqrt{a_{130}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & 2a_0 - 2a_1 + a_3 - a_4 - a_{11} + a_{12} - \\
& a_{14} - 2a_{20} + 4a_{21} + a_{24} + a_{25} - a_{26} + \\
& 2a_{36} - 3a_{37} + 2a_{39} - a_{41} + a_{42} + 2a_{43} + \\
& a_{44} + 4a_{45} - a_{46} + a_{47} + a_{48} + a_{49} - \\
& a_{50} + 2a_{68} - a_{69} + a_{70} - 3a_{71} - 2a_{72} + \\
& 2a_{73} - 2a_{74} - 2a_{75} - a_{76} - 2a_{77} - 2a_{80} - \\
& a_{81} + a_{82} + a_{83} - 3a_{85} + a_{86} - a_{87} - \\
& 2a_{88} + a_{90} + 2a_{91} - a_{92} + a_{93} - a_{94} - \\
& a_{95} - a_{96} + 2a_{97} - a_{98} + 2a_{131} - 3a_{132} - \\
& a_{134} + a_{135} - a_{137} + a_{138} + a_{139} - 2a_{140} + \\
& a_{141} - 2a_{143} + a_{145} - a_{146} - a_{149} - 2a_{150} + \\
& a_{151} - 2a_{154} - 2a_{155} + 3a_{160} - a_{161} - a_{162} + \\
& a_{165} - a_{167} - a_{168} + 2a_{169} - 2a_{170} - a_{172} - \\
& 2a_{173} - 2a_{175} - a_{176} - a_{177} + a_{179} - 4a_{181} - \\
& a_{183} - 2a_{184} - a_{185} - a_{186} + a_{187} + 3a_{188} + \\
& a_{189} + a_{190}
\end{aligned}
$$

$$
a_{387} = \frac{a_{131} - \sqrt{a_{131}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & 2a_0 - 2a_2 + a_4 - a_5 - a_{12} + a_{13} - \\
& a_7 - 2a_{21} + 4a_{22} + a_{25} + a_{26} - a_{27} + \\
& 2a_{37} - 3a_{38} + 2a_{40} - a_{42} + a_{43} + 2a_{44} + \\
& a_{45} + 4a_{46} - a_{47} + a_{48} + a_{49} + a_{50} - \\
& a_{51} + 2a_{69} - a_{70} + a_{71} - 3a_{72} - 2a_{73} + \\
& 2a_{74} - 2a_{75} - 2a_{76} - a_{77} - 2a_{78} - 2a_{81} - \\
& a_{82} + a_{83} + a_{84} - 3a_{86} + a_{87} - a_{88} - \\
& 2a_{89} + a_{91} + 2a_{92} - a_{93} + a_{94} - a_{95} - \\
& a_{96} - a_{97} + 2a_{98} - a_{99} + 2a_{132} - 3a_{133} - \\
& a_{135} + a_{136} - a_{138} + a_{139} + a_{140} - 2a_{141} + \\
& a_{142} - 2a_{144} + a_{146} - a_{147} - a_{150} - 2a_{151} + \\
& a_{152} - 2a_{155} - 2a_{156} + 3a_{161} - a_{162} - a_{163} + \\
& a_{166} - a_{168} - a_{169} + 2a_{170} - 2a_{171} - a_{173} - \\
& 2a_{174} - 2a_{176} - a_{177} - a_{178} + a_{180} - 4a_{182} - \\
& a_{184} - 2a_{185} - a_{186} - a_{187} + a_{188} + 3a_{189} + \\
& a_{190} + a_{191}
\end{aligned}
$$

$$
a_{388} = \frac{a_{132} - \sqrt{a_{132}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & 2a_0 - 2a_1 + a_5 - a_6 - a_{13} + a_{14} - \\
& a_8 - 2a_{22} + 4a_{23} + a_{26} + a_{27} - a_{28} + \\
& 2a_{38} - 3a_{39} + 2a_{41} - a_{43} + a_{44} + 2a_{45} + \\
& a_{46} + 4a_{47} - a_{48} + a_{49} + a_{50} + a_{51} - \\
& a_{52} + 2a_{70} - a_{71} + a_{72} - 3a_{73} - 2a_{74} + \\
& 2a_{75} - 2a_{76} - 2a_{77} - a_{78} - 2a_{79} - 2a_{82} - \\
& a_{83} + a_{84} + a_{85} - 3a_{87} + a_{88} - a_{89} - \\
& 2a_{90} + a_{92} + 2a_{93} - a_{94} + a_{95} - a_{96} - \\
& a_{97} - a_{98} + 2a_{99} - a_{100} + 2a_{133} - 3a_{134} - \\
& a_{136} + a_{137} - a_{139} + a_{140} + a_{141} - 2a_{142} + \\
& a_{143} - 2a_{145} + a_{147} - a_{148} - a_{151} - 2a_{152} + \\
& a_{153} - 2a_{156} - 2a_{157} + 3a_{162} - a_{163} - a_{164} + \\
& a_{167} - a_{169} - a_{170} + 2a_{171} - 2a_{172} - a_{174} - \\
& 2a_{175} - 2a_{177} - a_{178} - a_{179} + a_{181} - 4a_{183} - \\
& a_{185} - 2a_{186} - a_{187} - a_{188} + a_{189} + 3a_{190} + \\
& a_{191} + a_{192}
\end{aligned}
$$

$$
a_{389} = \frac{a_{133} - \sqrt{a_{133}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & 2a_0 - 2a_2 + a_6 - a_3 - a_{14} + a_7 - \\
& a_9 - 2a_{23} + 4a_{24} + a_{27} + a_{28} - a_{29} + \\
& 2a_{39} - 3a_{40} + 2a_{42} - a_{44} + a_{45} + 2a_{46} + \\
& a_{47} + 4a_{48} - a_{49} + a_{50} + a_{51} + a_{52} - \\
& a_{53} + 2a_{71} - a_{72} + a_{73} - 3a_{74} - 2a_{75} + \\
& 2a_{76} - 2a_{77} - 2a_{78} - a_{79} - 2a_{80} - 2a_{83} - \\
& a_{84} + a_{85} + a_{86} - 3a_{88} + a_{89} - a_{90} - \\
& 2a_{91} + a_{93} + 2a_{94} - a_{95} + a_{96} - a_{97} - \\
& a_{98} - a_{99} + 2a_{100} - a_{101} + 2a_{134} - 3a_{135} - \\
& a_{137} + a_{138} - a_{140} + a_{141} + a_{142} - 2a_{143} + \\
& a_{144} - 2a_{146} + a_{148} - a_{149} - a_{152} - 2a_{153} + \\
& a_{154} - 2a_{157} - 2a_{158} + 3a_{163} - a_{164} - a_{165} + \\
& a_{168} - a_{170} - a_{171} + 2a_{172} - 2a_{173} - a_{175} - \\
& 2a_{176} - 2a_{178} - a_{179} - a_{180} + a_{182} - 4a_{184} - \\
& a_{186} - 2a_{187} - a_{188} - a_{189} + a_{190} + 3a_{191} + \\
& a_{192} + a_{193}
\end{aligned}
$$

$$
a_{390} = \frac{a_{134} + \sqrt{a_{134}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & 2a_0 - 2a_1 + a_3 - a_4 - a_7 + a_8 - \\
& a_{10} - 2a_{24} + 4a_{25} + a_{28} + a_{29} - a_{30} + \\
& 2a_{40} - 3a_{41} + 2a_{43} - a_{45} + a_{46} + 2a_{47} + \\
& a_{48} + 4a_{49} - a_{50} + a_{51} + a_{52} + a_{53} - \\
& a_{54} + 2a_{72} - a_{73} + a_{74} - 3a_{75} - 2a_{76} + \\
& 2a_{77} - 2a_{78} - 2a_{79} - a_{80} - 2a_{81} - 2a_{84} - \\
& a_{85} + a_{86} + a_{87} - 3a_{89} + a_{90} - a_{91} - \\
& 2a_{92} + a_{94} + 2a_{95} - a_{96} + a_{97} - a_{98} - \\
& a_{99} - a_{100} + 2a_{101} - a_{102} + 2a_{135} - 3a_{136} -
\end{aligned}
$$

$$
\begin{aligned}
& a_{138} + a_{139} - a_{141} + a_{142} + a_{143} - 2a_{144} + \\
& a_{145} - 2a_{147} + a_{149} - a_{150} - a_{153} - 2a_{154} + \\
& a_{155} - 2a_{158} - 2a_{159} + 3a_{164} - a_{165} - a_{166} + \\
& a_{169} - a_{171} - a_{172} + 2a_{173} - 2a_{174} - a_{176} - \\
& 2a_{177} - 2a_{179} - a_{180} - a_{181} + a_{183} - 4a_{185} - \\
& a_{187} - 2a_{188} - a_{189} - a_{190} + a_{191} + 3a_{192} + \\
& a_{193} + a_{194} \\
a_{391} &= \frac{a_{135} - \sqrt{a_{135}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_2 + a_4 - a_5 - a_8 + a_9 - \\
& a_{11} - 2a_{25} + 4a_{26} + a_{29} + a_{30} - a_{15} + \\
& 2a_{41} - 3a_{42} + 2a_{44} - a_{46} + a_{47} + 2a_{48} + \\
& a_{49} + 4a_{50} - a_{51} + a_{52} + a_{53} + a_{54} - \\
& a_{55} + 2a_{73} - a_{74} + a_{75} - 3a_{76} - 2a_{77} + \\
& 2a_{78} - 2a_{79} - 2a_{80} - a_{81} - 2a_{82} - 2a_{85} - \\
& a_{86} + a_{87} + a_{88} - 3a_{90} + a_{91} - a_{92} - \\
& 2a_{93} + a_{95} + 2a_{96} - a_{97} + a_{98} - a_{99} - \\
& a_{100} - a_{101} + 2a_{102} - a_{103} + 2a_{136} - 3a_{137} - \\
& a_{139} + a_{140} - a_{142} + a_{143} + a_{144} - 2a_{145} + \\
& a_{146} - 2a_{148} + a_{150} - a_{151} - a_{154} - 2a_{155} + \\
& a_{156} - 2a_{159} - 2a_{160} + 3a_{165} - a_{166} - a_{167} + \\
& a_{170} - a_{172} - a_{173} + 2a_{174} - 2a_{175} - a_{177} - \\
& 2a_{178} - 2a_{180} - a_{181} - a_{182} + a_{184} - 4a_{186} - \\
& a_{188} - 2a_{189} - a_{190} - a_{191} + a_{192} + 3a_{193} + \\
& a_{194} + a_{195} \\
a_{392} &= \frac{a_{136} - \sqrt{a_{136}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_1 + a_5 - a_6 - a_9 + a_{10} - \\
& a_{12} - 2a_{26} + 4a_{27} + a_{30} + a_{15} - a_{16} + \\
& 2a_{42} - 3a_{43} + 2a_{45} - a_{47} + a_{48} + 2a_{49} + \\
& a_{50} + 4a_{51} - a_{52} + a_{53} + a_{54} + a_{55} - \\
& a_{56} + 2a_{74} - a_{75} + a_{76} - 3a_{77} - 2a_{78} + \\
& 2a_{79} - 2a_{80} - 2a_{81} - a_{82} - 2a_{83} - 2a_{86} - \\
& a_{87} + a_{88} + a_{89} - 3a_{91} + a_{92} - a_{93} - \\
& 2a_{94} + a_{96} + 2a_{97} - a_{98} + a_{99} - a_{100} - \\
& a_{101} - a_{102} + 2a_{103} - a_{104} + 2a_{137} - 3a_{138} - \\
& a_{140} + a_{141} - a_{143} + a_{144} + a_{145} - 2a_{146} + \\
& a_{147} - 2a_{149} + a_{151} - a_{152} - a_{155} - 2a_{156} + \\
& a_{157} - 2a_{160} - 2a_{161} + 3a_{166} - a_{167} - a_{168} + \\
& a_{171} - a_{173} - a_{174} + 2a_{175} - 2a_{176} - a_{178} - \\
& 2a_{179} - 2a_{181} - a_{182} - a_{183} + a_{185} - 4a_{187} - \\
& a_{189} - 2a_{190} - a_{191} - a_{192} + a_{193} + 3a_{194} + \\
& a_{195} + a_{196} \\
a_{393} &= \frac{a_{137} - \sqrt{a_{137}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_2 + a_6 - a_3 - a_{10} + a_{11} - \\
& a_{13} - 2a_{27} + 4a_{28} + a_{15} + a_{16} - a_{17} + \\
& 2a_{43} - 3a_{44} + 2a_{46} - a_{48} + a_{49} + 2a_{50} + \\
& a_{51} + 4a_{52} - a_{53} + a_{54} + a_{55} + a_{56} - \\
& a_{57} + 2a_{75} - a_{76} + a_{77} - 3a_{78} - 2a_{79} + \\
& 2a_{80} - 2a_{81} - 2a_{82} - a_{83} - 2a_{84} - 2a_{87} - \\
& a_{88} + a_{89} + a_{90} - 3a_{92} + a_{93} - a_{94} - \\
& 2a_{95} + a_{97} + 2a_{98} - a_{99} + a_{100} - a_{101} - \\
& a_{102} - a_{103} + 2a_{104} - a_{105} + 2a_{138} - 3a_{139} - \\
& a_{141} + a_{142} - a_{144} + a_{145} + a_{146} - 2a_{147} + \\
& a_{148} - 2a_{150} + a_{152} - a_{153} - a_{156} - 2a_{157} + \\
& a_{158} - 2a_{161} - 2a_{162} + 3a_{167} - a_{168} - a_{169} + \\
& a_{172} - a_{174} - a_{175} + 2a_{176} - 2a_{177} - a_{179} - \\
& 2a_{180} - 2a_{182} - a_{183} - a_{184} + a_{186} - 4a_{188} - \\
& a_{190} - 2a_{191} - a_{192} - a_{193} + a_{194} + 3a_{195} + \\
& a_{196} + a_{197} \\
a_{394} &= \frac{a_{138} - \sqrt{a_{138}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_1 + a_3 - a_4 - a_{11} + a_{12} - \\
& a_{14} - 2a_{28} + 4a_{29} + a_{16} + a_{17} - a_{18} + \\
& 2a_{44} - 3a_{45} + 2a_{47} - a_{49} + a_{50} + 2a_{51} + \\
& a_{52} + 4a_{53} - a_{54} + a_{55} + a_{56} + a_{57} - \\
& a_{58} + 2a_{76} - a_{77} + a_{78} - 3a_{79} - 2a_{80} + \\
& 2a_{81} - 2a_{82} - 2a_{83} - a_{84} - 2a_{85} - 2a_{88} - \\
& a_{89} + a_{90} + a_{91} - 3a_{93} + a_{94} - a_{95} - \\
& 2a_{96} + a_{98} + 2a_{99} - a_{100} + a_{101} - a_{102} - \\
& a_{103} - a_{104} + 2a_{105} - a_{106} + 2a_{139} - 3a_{140} - \\
& a_{142} + a_{143} - a_{145} + a_{146} + a_{147} - 2a_{148} + \\
& a_{149} - 2a_{151} + a_{153} - a_{154} - a_{157} - 2a_{158} + \\
& a_{159} - 2a_{162} - 2a_{163} + 3a_{168} - a_{169} - a_{170} + \\
& a_{173} - a_{175} - a_{176} + 2a_{177} - 2a_{178} - a_{180} - \\
& 2a_{181} - 2a_{183} - a_{184} - a_{185} + a_{187} - 4a_{189} - \\
& a_{191} - 2a_{192} - a_{193} - a_{194} + a_{195} + 3a_{196} + \\
& a_{197} + a_{198} \\
a_{395} &= \frac{a_{139} + \sqrt{a_{139}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_2 + a_4 - a_5 - a_{12} + a_{13} - \\
& a_7 - 2a_{29} + 4a_{30} + a_{17} + a_{18} - a_{19} + \\
& 2a_{45} - 3a_{46} + 2a_{48} - a_{50} + a_{51} + 2a_{52} + \\
& a_{53} + 4a_{54} - a_{55} + a_{56} + a_{57} + a_{58} - \\
& a_{59} + 2a_{77} - a_{78} + a_{79} - 3a_{80} - 2a_{81} + \\
& 2a_{82} - 2a_{83} - 2a_{84} - a_{85} - 2a_{86} - 2a_{89} - \\
& a_{90} + a_{91} + a_{92} - 3a_{94} + a_{95} - a_{96} - \\
& 2a_{97} + a_{99} + 2a_{100} - a_{101} + a_{102} - a_{103} - \\
& a_{104} - a_{105} + 2a_{106} - a_{107} + 2a_{140} - 3a_{141} - \\
& a_{143} + a_{144} - a_{146} + a_{147} + a_{148} - 2a_{149} + \\
& a_{150} - 2a_{152} + a_{154} - a_{155} - a_{158} - 2a_{159} + \\
& a_{160} - 2a_{163} - 2a_{164} + 3a_{169} - a_{170} - a_{171} + \\
& a_{174} - a_{176} - a_{177} + 2a_{178} - 2a_{179} - a_{181} - \\
& 2a_{182} - 2a_{184} - a_{185} - a_{186} + a_{188} - 4a_{190} - \\
& a_{192} - 2a_{193} - a_{194} - a_{195} + a_{196} + 3a_{197} + \\
& a_{198} + a_{199}
\end{aligned}
$$

$$
\begin{aligned}
a_{396} &= \frac{a_{140} - \sqrt{a_{140}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_1 + a_5 - a_6 - a_{13} + a_{14} - \\
&\quad a_8 - 2a_{30} + 4a_{15} + a_{18} + a_{19} - a_{20} + \\
&\quad 2a_{46} - 3a_{47} + 2a_{49} - a_{51} + a_{52} + 2a_{53} + \\
&\quad a_{54} + 4a_{55} - a_{56} + a_{57} + a_{58} + a_{59} - \\
&\quad a_{60} + 2a_{78} - a_{79} + a_{80} - 3a_{81} - 2a_{82} + \\
&\quad 2a_{83} - 2a_{84} - 2a_{85} - a_{86} - 2a_{87} - 2a_{90} - \\
&\quad a_{91} + a_{92} + a_{93} - 3a_{95} + a_{96} - a_{97} - \\
&\quad 2a_{98} + a_{100} + 2a_{101} - a_{102} + a_{103} - a_{104} - \\
&\quad a_{105} - a_{106} + 2a_{107} - a_{108} + 2a_{141} - 3a_{142} - \\
&\quad a_{144} + a_{145} - a_{147} + a_{148} + a_{149} - 2a_{150} + \\
&\quad a_{151} - 2a_{153} + a_{155} - a_{156} - a_{159} - 2a_{160} + \\
&\quad a_{161} - 2a_{164} - 2a_{165} + 3a_{170} - a_{171} - a_{172} + \\
&\quad a_{175} - a_{177} - a_{178} + 2a_{179} - 2a_{180} - a_{182} - \\
&\quad 2a_{183} - 2a_{185} - a_{186} - a_{187} + a_{189} - 4a_{191} - \\
&\quad a_{193} - 2a_{194} - a_{195} - a_{196} + a_{197} + 3a_{198} + \\
&\quad a_{199} + a_{200} \\
a_{397} &= \frac{a_{141} + \sqrt{a_{141}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_2 + a_6 - a_3 - a_{14} + a_7 - \\
&\quad a_9 - 2a_{15} + 4a_{16} + a_{19} + a_{20} - a_{21} + \\
&\quad 2a_{47} - 3a_{48} + 2a_{50} - a_{52} + a_{53} + 2a_{54} + \\
&\quad a_{55} + 4a_{56} - a_{57} + a_{58} + a_{59} + a_{60} - \\
&\quad a_{61} + 2a_{79} - a_{80} + a_{81} - 3a_{82} - 2a_{83} + \\
&\quad 2a_{84} - 2a_{85} - 2a_{86} - a_{87} - 2a_{88} - 2a_{91} - \\
&\quad a_{92} + a_{93} + a_{94} - 3a_{96} + a_{97} - a_{98} - \\
&\quad 2a_{99} + a_{101} + 2a_{102} - a_{103} + a_{104} - a_{105} - \\
&\quad a_{106} - a_{107} + 2a_{108} - a_{109} + 2a_{142} - 3a_{143} - \\
&\quad a_{145} + a_{146} - a_{148} + a_{149} + a_{150} - 2a_{151} + \\
&\quad a_{152} - 2a_{154} + a_{156} - a_{157} - a_{160} - 2a_{161} + \\
&\quad a_{162} - 2a_{165} - 2a_{166} + 3a_{171} - a_{172} - a_{173} + \\
&\quad a_{176} - a_{178} - a_{179} + 2a_{180} - 2a_{181} - a_{183} - \\
&\quad 2a_{184} - 2a_{186} - a_{187} - a_{188} + a_{190} - 4a_{192} - \\
&\quad a_{194} - 2a_{195} - a_{196} - a_{197} + a_{198} + 3a_{199} + \\
&\quad a_{200} + a_{201} \\
a_{398} &= \frac{a_{142} - \sqrt{a_{142}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_1 + a_3 - a_4 - a_7 + a_8 - \\
&\quad a_{10} - 2a_{16} + 4a_{17} + a_{20} + a_{21} - a_{22} + \\
&\quad 2a_{48} - 3a_{49} + 2a_{51} - a_{53} + a_{54} + 2a_{55} + \\
&\quad a_{56} + 4a_{57} - a_{58} + a_{59} + a_{60} + a_{61} - \\
&\quad a_{62} + 2a_{80} - a_{81} + a_{82} - 3a_{83} - 2a_{84} + \\
&\quad 2a_{85} - 2a_{86} - 2a_{87} - a_{88} - 2a_{89} - 2a_{92} - \\
&\quad a_{93} + a_{94} + a_{95} - 3a_{97} + a_{98} - a_{99} - \\
&\quad 2a_{100} + a_{102} + 2a_{103} - a_{104} + a_{105} - a_{106} - \\
&\quad a_{107} - a_{108} + 2a_{109} - a_{110} + 2a_{143} - 3a_{144} - \\
&\quad a_{146} + a_{147} - a_{149} + a_{150} + a_{151} - 2a_{152} + \\
&\quad a_{153} - 2a_{155} + a_{157} - a_{158} - a_{161} - 2a_{162} + \\
&\quad a_{163} - 2a_{166} - 2a_{167} + 3a_{172} - a_{173} - a_{174} + \\
&\quad a_{177} - a_{179} - a_{180} + 2a_{181} - 2a_{182} - a_{184} - \\
&\quad 2a_{185} - 2a_{187} - a_{188} - a_{189} + a_{191} - 4a_{193} - \\
&\quad a_{195} - 2a_{196} - a_{197} - a_{198} + a_{199} + 3a_{200} + \\
&\quad a_{201} + a_{202} \\
a_{399} &= \frac{a_{143} + \sqrt{a_{143}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_2 + a_4 - a_5 - a_8 + a_9 - \\
&\quad a_{11} - 2a_{17} + 4a_{18} + a_{21} + a_{22} - a_{23} + \\
&\quad 2a_{49} - 3a_{50} + 2a_{52} - a_{54} + a_{55} + 2a_{56} + \\
&\quad a_{57} + 4a_{58} - a_{59} + a_{60} + a_{61} + a_{62} - \\
&\quad a_{31} + 2a_{81} - a_{82} + a_{83} - 3a_{84} - 2a_{85} + \\
&\quad 2a_{86} - 2a_{87} - 2a_{88} - a_{89} - 2a_{90} - 2a_{93} - \\
&\quad a_{94} + a_{95} + a_{96} - 3a_{98} + a_{99} - a_{100} - \\
&\quad 2a_{101} + a_{103} + 2a_{104} - a_{105} + a_{106} - a_{107} - \\
&\quad a_{108} - a_{109} + 2a_{110} - a_{111} + 2a_{144} - 3a_{145} - \\
&\quad a_{147} + a_{148} - a_{150} + a_{151} + a_{152} - 2a_{153} + \\
&\quad a_{154} - 2a_{156} + a_{158} - a_{159} - a_{162} - 2a_{163} + \\
&\quad a_{164} - 2a_{167} - 2a_{168} + 3a_{173} - a_{174} - a_{175} + \\
&\quad a_{178} - a_{180} - a_{181} + 2a_{182} - 2a_{183} - a_{185} - \\
&\quad 2a_{186} - 2a_{188} - a_{189} - a_{190} + a_{192} - 4a_{194} - \\
&\quad a_{196} - 2a_{197} - a_{198} - a_{199} + a_{200} + 3a_{201} + \\
&\quad a_{202} + a_{203} \\
a_{400} &= \frac{a_{144} + \sqrt{a_{144}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_1 + a_5 - a_6 - a_9 + a_{10} - \\
&\quad a_{12} - 2a_{18} + 4a_{19} + a_{22} + a_{23} - a_{24} + \\
&\quad 2a_{50} - 3a_{51} + 2a_{53} - a_{55} + a_{56} + 2a_{57} + \\
&\quad a_{58} + 4a_{59} - a_{60} + a_{61} + a_{62} + a_{31} - \\
&\quad a_{32} + 2a_{82} - a_{83} + a_{84} - 3a_{85} - 2a_{86} + \\
&\quad 2a_{87} - 2a_{88} - 2a_{89} - a_{90} - 2a_{91} - 2a_{94} - \\
&\quad a_{95} + a_{96} + a_{97} - 3a_{99} + a_{100} - a_{101} - \\
&\quad 2a_{102} + a_{104} + 2a_{105} - a_{106} + a_{107} - a_{108} - \\
&\quad a_{109} - a_{110} + 2a_{111} - a_{112} + 2a_{145} - 3a_{146} - \\
&\quad a_{148} + a_{149} - a_{151} + a_{152} + a_{153} - 2a_{154} + \\
&\quad a_{155} - 2a_{157} + a_{159} - a_{160} - a_{163} - 2a_{164} + \\
&\quad a_{165} - 2a_{168} - 2a_{169} + 3a_{174} - a_{175} - a_{176} + \\
&\quad a_{179} - a_{181} - a_{182} + 2a_{183} - 2a_{184} - a_{186} - \\
&\quad 2a_{187} - 2a_{189} - a_{190} - a_{191} + a_{193} - 4a_{195} - \\
&\quad a_{197} - 2a_{198} - a_{199} - a_{200} + a_{201} + 3a_{202} + \\
&\quad a_{203} + a_{204} \\
a_{401} &= \frac{a_{145} + \sqrt{a_{145}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_2 + a_6 - a_3 - a_{10} + a_{11} - \\
&\quad a_{13} - 2a_{19} + 4a_{20} + a_{23} + a_{24} - a_{25} + \\
&\quad 2a_{51} - 3a_{52} + 2a_{54} - a_{56} + a_{57} + 2a_{58} + \\
&\quad a_{59} + 4a_{60} - a_{61} + a_{62} + a_{31} + a_{32} - \\
&\quad a_{33} + 2a_{83} - a_{84} + a_{85} - 3a_{86} - 2a_{87} +
\end{aligned}
$$

$$
\begin{aligned}
& 2a_{88} - 2a_{89} - 2a_{90} - a_{91} - 2a_{92} - 2a_{95} - \\
& a_{96} + a_{97} + a_{98} - 3a_{100} + a_{101} - a_{102} - \\
& 2a_{103} + a_{105} + 2a_{106} - a_{107} + a_{108} - a_{109} - \\
& a_{110} - a_{111} + 2a_{112} - a_{113} + 2a_{146} - 3a_{147} - \\
& a_{149} + a_{150} - a_{152} + a_{153} + a_{154} - 2a_{155} + \\
& a_{156} - 2a_{158} + a_{160} - a_{161} - a_{164} - 2a_{165} + \\
& a_{166} - 2a_{169} - 2a_{170} + 3a_{175} - a_{176} - a_{177} + \\
& a_{180} - a_{182} - a_{183} + 2a_{184} - 2a_{185} - a_{187} - \\
& 2a_{188} - 2a_{190} - a_{191} - a_{192} + a_{194} - 4a_{196} - \\
& a_{198} - 2a_{199} - a_{200} - a_{201} + a_{202} + 3a_{203} + \\
& a_{204} + a_{205}
\end{aligned}
$$

$$
a_{402} = \frac{a_{146} - \sqrt{a_{146}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & 2a_0 - 2a_1 + a_3 - a_4 - a_{11} + a_{12} - \\
& a_{14} - 2a_{20} + 4a_{21} + a_{24} + a_{25} - a_{26} + \\
& 2a_{52} - 3a_{53} + 2a_{55} - a_{57} + a_{58} + 2a_{59} + \\
& a_{60} + 4a_{61} - a_{62} + a_{31} + a_{32} + a_{33} - \\
& a_{34} + 2a_{84} - a_{85} + a_{86} - 3a_{87} - 2a_{88} + \\
& 2a_{89} - 2a_{90} - 2a_{91} - a_{92} - 2a_{93} - 2a_{96} - \\
& a_{97} + a_{98} + a_{99} - 3a_{101} + a_{102} - a_{103} - \\
& 2a_{104} + a_{106} + 2a_{107} - a_{108} + a_{109} - a_{110} - \\
& a_{111} - a_{112} + 2a_{113} - a_{114} + 2a_{147} - 3a_{148} - \\
& a_{150} + a_{151} - a_{153} + a_{154} + a_{155} - 2a_{156} + \\
& a_{157} - 2a_{159} + a_{161} - a_{162} - a_{165} - 2a_{166} + \\
& a_{167} - 2a_{170} - 2a_{171} + 3a_{176} - a_{177} - a_{178} + \\
& a_{181} - a_{183} - a_{184} + 2a_{185} - 2a_{186} - a_{188} - \\
& 2a_{189} - 2a_{191} - a_{192} - a_{193} + a_{195} - 4a_{197} - \\
& a_{199} - 2a_{200} - a_{201} - a_{202} + a_{203} + 3a_{204} + \\
& a_{205} + a_{206}
\end{aligned}
$$

$$
a_{403} = \frac{a_{147} - \sqrt{a_{147}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & 2a_0 - 2a_2 + a_4 - a_5 - a_{12} + a_{13} - \\
& a_7 - 2a_{21} + 4a_{22} + a_{25} + a_{26} - a_{27} + \\
& 2a_{53} - 3a_{54} + 2a_{56} - a_{58} + a_{59} + 2a_{60} + \\
& a_{61} + 4a_{62} - a_{31} + a_{32} + a_{33} + a_{34} - \\
& a_{35} + 2a_{85} - a_{86} + a_{87} - 3a_{88} - 2a_{89} + \\
& 2a_{90} - 2a_{91} - 2a_{92} - a_{93} - 2a_{94} - 2a_{97} - \\
& a_{98} + a_{99} + a_{100} - 3a_{102} + a_{103} - a_{104} - \\
& 2a_{105} + a_{107} + 2a_{108} - a_{109} + a_{110} - a_{111} - \\
& a_{112} - a_{113} + 2a_{114} - a_{115} + 2a_{148} - 3a_{149} - \\
& a_{151} + a_{152} - a_{154} + a_{155} + a_{156} - 2a_{157} + \\
& a_{158} - 2a_{160} + a_{162} - a_{163} - a_{166} - 2a_{167} + \\
& a_{168} - 2a_{171} - 2a_{172} + 3a_{177} - a_{178} - a_{179} + \\
& a_{182} - a_{184} - a_{185} + 2a_{186} - 2a_{187} - a_{189} - \\
& 2a_{190} - 2a_{192} - a_{193} - a_{194} + a_{196} - 4a_{198} - \\
& a_{200} - 2a_{201} - a_{202} - a_{203} + a_{204} + 3a_{205} + \\
& a_{206} + a_{207}
\end{aligned}
$$

$$
a_{404} = \frac{a_{148} + \sqrt{a_{148}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & 2a_0 - 2a_1 + a_5 - a_6 - a_{13} + a_{14} - \\
& a_8 - 2a_{22} + 4a_{23} + a_{26} + a_{27} - a_{28} + \\
& 2a_{54} - 3a_{55} + 2a_{57} - a_{59} + a_{60} + 2a_{61} + \\
& a_{62} + 4a_{31} - a_{32} + a_{33} + a_{34} + a_{35} - \\
& a_{36} + 2a_{86} - a_{87} + a_{88} - 3a_{89} - 2a_{90} + \\
& 2a_{91} - 2a_{92} - 2a_{93} - a_{94} - 2a_{95} - 2a_{98} - \\
& a_{99} + a_{100} + a_{101} - 3a_{103} + a_{104} - a_{105} - \\
& 2a_{106} + a_{108} + 2a_{109} - a_{110} + a_{111} - a_{112} - \\
& a_{113} - a_{114} + 2a_{115} - a_{116} + 2a_{149} - 3a_{150} - \\
& a_{152} + a_{153} - a_{155} + a_{156} + a_{157} - 2a_{158} + \\
& a_{159} - 2a_{161} + a_{163} - a_{164} - a_{167} - 2a_{168} + \\
& a_{169} - 2a_{172} - 2a_{173} + 3a_{178} - a_{179} - a_{180} + \\
& a_{183} - a_{185} - a_{186} + 2a_{187} - 2a_{188} - a_{190} - \\
& 2a_{191} - 2a_{193} - a_{194} - a_{195} + a_{197} - 4a_{199} - \\
& a_{201} - 2a_{202} - a_{203} - a_{204} + a_{205} + 3a_{206} + \\
& a_{207} + a_{208}
\end{aligned}
$$

$$
a_{405} = \frac{a_{149} + \sqrt{a_{149}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & 2a_0 - 2a_2 + a_6 - a_3 - a_{14} + a_7 - \\
& a_9 - 2a_{23} + 4a_{24} + a_{27} + a_{28} - a_{29} + \\
& 2a_{55} - 3a_{56} + 2a_{58} - a_{60} + a_{61} + 2a_{62} + \\
& a_{31} + 4a_{32} - a_{33} + a_{34} + a_{35} + a_{36} - \\
& a_{37} + 2a_{87} - a_{88} + a_{89} - 3a_{90} - 2a_{91} + \\
& 2a_{92} - 2a_{93} - 2a_{94} - a_{95} - 2a_{96} - 2a_{99} - \\
& a_{100} + a_{101} + a_{102} - 3a_{104} + a_{105} - a_{106} - \\
& 2a_{107} + a_{109} + 2a_{110} - a_{111} + a_{112} - a_{113} - \\
& a_{114} - a_{115} + 2a_{116} - a_{117} + 2a_{150} - 3a_{151} - \\
& a_{153} + a_{154} - a_{156} + a_{157} + a_{158} - 2a_{159} + \\
& a_{160} - 2a_{162} + a_{164} - a_{165} - a_{168} - 2a_{169} + \\
& a_{170} - 2a_{173} - 2a_{174} + 3a_{179} - a_{180} - a_{181} + \\
& a_{184} - a_{186} - a_{187} + 2a_{188} - 2a_{189} - a_{191} - \\
& 2a_{192} - 2a_{194} - a_{195} - a_{196} + a_{198} - 4a_{200} - \\
& a_{202} - 2a_{203} - a_{204} - a_{205} + a_{206} + 3a_{207} + \\
& a_{208} + a_{209}
\end{aligned}
$$

$$
a_{406} = \frac{a_{150} - \sqrt{a_{150}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & 2a_0 - 2a_1 + a_3 - a_4 - a_7 + a_8 - \\
& a_{10} - 2a_{24} + 4a_{25} + a_{28} + a_{29} - a_{30} + \\
& 2a_{56} - 3a_{57} + 2a_{59} - a_{61} + a_{62} + 2a_{31} + \\
& a_{32} + 4a_{33} - a_{34} + a_{35} + a_{36} + a_{37} - \\
& a_{38} + 2a_{88} - a_{89} + a_{90} - 3a_{91} - 2a_{92} + \\
& 2a_{93} - 2a_{94} - 2a_{95} - a_{96} - 2a_{97} - 2a_{100} - \\
& a_{101} + a_{102} + a_{103} - 3a_{105} + a_{106} - a_{107} - \\
& 2a_{108} + a_{110} + 2a_{111} - a_{112} + a_{113} - a_{114} - \\
& a_{115} - a_{116} + 2a_{117} - a_{118} + 2a_{151} - 3a_{152} - \\
& a_{154} + a_{155} - a_{157} + a_{158} + a_{159} - 2a_{160} + \\
& a_{161} - 2a_{163} + a_{165} - a_{166} - a_{169} - 2a_{170} + \\
& a_{171} - 2a_{174} - 2a_{175} + 3a_{180} - a_{181} - a_{182} + \\
& a_{185} - a_{187} - a_{188} + 2a_{189} - 2a_{190} - a_{192} -
\end{aligned}
$$

$$
\begin{aligned}
& 2a_{193} - 2a_{195} - a_{196} - a_{197} + a_{199} - 4a_{201} - \\
& a_{203} - 2a_{204} - a_{205} - a_{206} + a_{207} + 3a_{208} + \\
& a_{209} + a_{210} \\
a_{407} &= \frac{a_{151} - \sqrt{a_{151}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_2 + a_4 - a_5 - a_8 + a_9 - \\
& a_{11} - 2a_{25} + 4a_{26} + a_{29} + a_{30} - a_{15} + \\
& 2a_{57} - 3a_{58} + 2a_{60} - a_{62} + a_{31} + 2a_{32} + \\
& a_{33} + 4a_{34} - a_{35} + a_{36} + a_{37} + a_{38} - \\
& a_{39} + 2a_{89} - a_{90} + a_{91} - 3a_{92} - 2a_{93} + \\
& 2a_{94} - 2a_{95} - 2a_{96} - a_{97} - 2a_{98} - 2a_{101} - \\
& a_{102} + a_{103} + a_{104} - 3a_{106} + a_{107} - a_{108} - \\
& 2a_{109} + a_{111} + 2a_{112} - a_{113} + a_{114} - a_{115} - \\
& a_{116} - a_{117} + 2a_{118} - a_{119} + 2a_{152} - 3a_{153} - \\
& a_{155} + a_{156} - a_{158} + a_{159} + a_{160} - 2a_{161} + \\
& a_{162} - 2a_{164} + a_{166} - a_{167} - a_{170} - 2a_{171} + \\
& a_{172} - 2a_{175} - 2a_{176} + 3a_{181} - a_{182} - a_{183} + \\
& a_{186} - a_{188} - a_{189} + 2a_{190} - 2a_{191} - a_{193} - \\
& 2a_{194} - 2a_{196} - a_{197} - a_{198} + a_{200} - 4a_{202} - \\
& a_{204} - 2a_{205} - a_{206} - a_{207} + a_{208} + 3a_{209} + \\
& a_{210} + a_{211} \\
a_{408} &= \frac{a_{152} - \sqrt{a_{152}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_1 + a_5 - a_6 - a_9 + a_{10} - \\
& a_{12} - 2a_{26} + 4a_{27} + a_{30} + a_{15} - a_{16} + \\
& 2a_{58} - 3a_{59} + 2a_{61} - a_{31} + a_{32} + 2a_{33} + \\
& a_{34} + 4a_{35} - a_{36} + a_{37} + a_{38} + a_{39} - \\
& a_{40} + 2a_{90} - a_{91} + a_{92} - 3a_{93} - 2a_{94} + \\
& 2a_{95} - 2a_{96} - 2a_{97} - a_{98} - 2a_{99} - 2a_{102} - \\
& a_{103} + a_{104} + a_{105} - 3a_{107} + a_{108} - a_{109} - \\
& 2a_{110} + a_{112} + 2a_{113} - a_{114} + a_{115} - a_{116} - \\
& a_{117} - a_{118} + 2a_{119} - a_{120} + 2a_{153} - 3a_{154} - \\
& a_{156} + a_{157} - a_{159} + a_{160} + a_{161} - 2a_{162} + \\
& a_{163} - 2a_{165} + a_{167} - a_{168} - a_{171} - 2a_{172} + \\
& a_{173} - 2a_{176} - 2a_{177} + 3a_{182} - a_{183} - a_{184} + \\
& a_{187} - a_{189} - a_{190} + 2a_{191} - 2a_{192} - a_{194} - \\
& 2a_{195} - 2a_{197} - a_{198} - a_{199} + a_{201} - 4a_{203} - \\
& a_{205} - 2a_{206} - a_{207} - a_{208} + a_{209} + 3a_{210} + \\
& a_{211} + a_{212} \\
a_{409} &= \frac{a_{153} + \sqrt{a_{153}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_2 + a_6 - a_3 - a_{10} + a_{11} - \\
& a_{13} - 2a_{27} + 4a_{28} + a_{15} + a_{16} - a_{17} + \\
& 2a_{59} - 3a_{60} + 2a_{62} - a_{32} + a_{33} + 2a_{34} + \\
& a_{35} + 4a_{36} - a_{37} + a_{38} + a_{39} + a_{40} - \\
& a_{41} + 2a_{91} - a_{92} + a_{93} - 3a_{94} - 2a_{95} + \\
& 2a_{96} - 2a_{97} - 2a_{98} - a_{99} - 2a_{100} - 2a_{103} - \\
& a_{104} + a_{105} + a_{106} - 3a_{108} + a_{109} - a_{110} - \\
& 2a_{111} + a_{113} + 2a_{114} - a_{115} + a_{116} - a_{117} - \\
& a_{118} - a_{119} + 2a_{120} - a_{121} + 2a_{154} - 3a_{155} - \\
& a_{157} + a_{158} - a_{160} + a_{161} + a_{162} - 2a_{163} + \\
& a_{164} - 2a_{166} + a_{168} - a_{169} - a_{172} - 2a_{173} + \\
& a_{174} - 2a_{177} - 2a_{178} + 3a_{183} - a_{184} - a_{185} + \\
& a_{188} - a_{190} - a_{191} + 2a_{192} - 2a_{193} - a_{195} - \\
& 2a_{196} - 2a_{198} - a_{199} - a_{200} + a_{202} - 4a_{204} - \\
& a_{206} - 2a_{207} - a_{208} - a_{209} + a_{210} + 3a_{211} + \\
& a_{212} + a_{213} \\
a_{410} &= \frac{a_{154} - \sqrt{a_{154}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_1 + a_3 - a_4 - a_{11} + a_{12} - \\
& a_{14} - 2a_{28} + 4a_{29} + a_{16} + a_{17} - a_{18} + \\
& 2a_{60} - 3a_{61} + 2a_{31} - a_{33} + a_{34} + 2a_{35} + \\
& a_{36} + 4a_{37} - a_{38} + a_{39} + a_{40} + a_{41} - \\
& a_{42} + 2a_{92} - a_{93} + a_{94} - 3a_{95} - 2a_{96} + \\
& 2a_{97} - 2a_{98} - 2a_{99} - a_{100} - 2a_{101} - 2a_{104} - \\
& a_{105} + a_{106} + a_{107} - 3a_{109} + a_{110} - a_{111} - \\
& 2a_{112} + a_{114} + 2a_{115} - a_{116} + a_{117} - a_{118} - \\
& a_{119} - a_{120} + 2a_{121} - a_{122} + 2a_{155} - 3a_{156} - \\
& a_{158} + a_{159} - a_{161} + a_{162} + a_{163} - 2a_{164} + \\
& a_{165} - 2a_{167} + a_{169} - a_{170} - a_{173} - 2a_{174} + \\
& a_{175} - 2a_{178} - 2a_{179} + 3a_{184} - a_{185} - a_{186} + \\
& a_{189} - a_{191} - a_{192} + 2a_{193} - 2a_{194} - a_{196} - \\
& 2a_{197} - 2a_{199} - a_{200} - a_{201} + a_{203} - 4a_{205} - \\
& a_{207} - 2a_{208} - a_{209} - a_{210} + a_{211} + 3a_{212} + \\
& a_{213} + a_{214} \\
a_{411} &= \frac{a_{155} - \sqrt{a_{155}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_2 + a_4 - a_5 - a_{12} + a_{13} - \\
& a_7 - 2a_{29} + 4a_{30} + a_{17} + a_{18} - a_{19} + \\
& 2a_{61} - 3a_{62} + 2a_{32} - a_{34} + a_{35} + 2a_{36} + \\
& a_{37} + 4a_{38} - a_{39} + a_{40} + a_{41} + a_{42} - \\
& a_{43} + 2a_{93} - a_{94} + a_{95} - 3a_{96} - 2a_{97} + \\
& 2a_{98} - 2a_{99} - 2a_{100} - a_{101} - 2a_{102} - 2a_{105} - \\
& a_{106} + a_{107} + a_{108} - 3a_{110} + a_{111} - a_{112} - \\
& 2a_{113} + a_{115} + 2a_{116} - a_{117} + a_{118} - a_{119} - \\
& a_{120} - a_{121} + 2a_{122} - a_{123} + 2a_{156} - 3a_{157} - \\
& a_{159} + a_{160} - a_{162} + a_{163} + a_{164} - 2a_{165} + \\
& a_{166} - 2a_{168} + a_{170} - a_{171} - a_{174} - 2a_{175} + \\
& a_{176} - 2a_{179} - 2a_{180} + 3a_{185} - a_{186} - a_{187} + \\
& a_{190} - a_{192} - a_{193} + 2a_{194} - 2a_{195} - a_{197} - \\
& 2a_{198} - 2a_{200} - a_{201} - a_{202} + a_{204} - 4a_{206} - \\
& a_{208} - 2a_{209} - a_{210} - a_{211} + a_{212} + 3a_{213} + \\
& a_{214} + a_{215} \\
a_{412} &= \frac{a_{156} - \sqrt{a_{156}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_1 + a_5 - a_6 - a_{13} + a_{14} - \\
& a_8 - 2a_{30} + 4a_{15} + a_{18} + a_{19} - a_{20} +
\end{aligned}
$$

$$
\begin{aligned}
& 2a_{62} - 3a_{31} + 2a_{33} - a_{35} + a_{36} + 2a_{37} + \\
& a_{38} + 4a_{39} - a_{40} + a_{41} + a_{42} + a_{43} - \\
& a_{44} + 2a_{94} - a_{95} + a_{96} - 3a_{97} - 2a_{98} + \\
& 2a_{99} - 2a_{100} - 2a_{101} - a_{102} - 2a_{103} - 2a_{106} - \\
& a_{107} + a_{108} + a_{109} - 3a_{111} + a_{112} - a_{113} - \\
& 2a_{114} + a_{116} + 2a_{117} - a_{118} + a_{119} - a_{120} - \\
& a_{121} - a_{122} + 2a_{123} - a_{124} + 2a_{157} - 3a_{158} - \\
& a_{160} + a_{161} - a_{163} + a_{164} + a_{165} - 2a_{166} + \\
& a_{167} - 2a_{169} + a_{171} - a_{172} - a_{175} - 2a_{176} + \\
& a_{177} - 2a_{180} - 2a_{181} + 3a_{186} - a_{187} - a_{188} + \\
& a_{191} - a_{193} - a_{194} + 2a_{195} - 2a_{196} - a_{198} - \\
& 2a_{199} - 2a_{201} - a_{202} - a_{203} + a_{205} - 4a_{207} - \\
& a_{209} - 2a_{210} - a_{211} - a_{212} + a_{213} + 3a_{214} + \\
& a_{215} + a_{216}
\end{aligned}
$$

$$
a_{413} = \frac{a_{157} - \sqrt{a_{157}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_0 - 2a_2 + a_6 - a_3 - a_{14} + a_7 - \\
& a_9 - 2a_{15} + 4a_{16} + a_{19} + a_{20} - a_{21} + \\
& 2a_{31} - 3a_{32} + 2a_{34} - a_{36} + a_{37} + 2a_{38} + \\
& a_{39} + 4a_{40} - a_{41} + a_{42} + a_{43} + a_{44} - \\
& a_{45} + 2a_{95} - a_{96} + a_{97} - 3a_{98} - 2a_{99} + \\
& 2a_{100} - 2a_{101} - 2a_{102} - a_{103} - 2a_{104} - 2a_{107} - \\
& a_{108} + a_{109} + a_{110} - 3a_{112} + a_{113} - a_{114} - \\
& 2a_{115} + a_{117} + 2a_{118} - a_{119} + a_{120} - a_{121} - \\
& a_{122} - a_{123} + 2a_{124} - a_{125} + 2a_{158} - 3a_{159} - \\
& a_{161} + a_{162} - a_{164} + a_{165} + a_{166} - 2a_{167} + \\
& a_{168} - 2a_{170} + a_{172} - a_{173} - a_{176} - 2a_{177} + \\
& a_{178} - 2a_{181} - 2a_{182} + 3a_{187} - a_{188} - a_{189} + \\
& a_{192} - a_{194} - a_{195} + 2a_{196} - 2a_{197} - a_{199} - \\
& 2a_{200} - 2a_{202} - a_{203} - a_{204} + a_{206} - 4a_{208} - \\
& a_{210} - 2a_{211} - a_{212} - a_{213} + a_{214} + 3a_{215} + \\
& a_{216} + a_{217}
\end{aligned}
$$

$$
a_{414} = \frac{a_{158} - \sqrt{a_{158}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_0 - 2a_1 + a_3 - a_4 - a_7 + a_8 - \\
& a_{10} - 2a_{16} + 4a_{17} + a_{20} + a_{21} - a_{22} + \\
& 2a_{32} - 3a_{33} + 2a_{35} - a_{37} + a_{38} + 2a_{39} + \\
& a_{40} + 4a_{41} - a_{42} + a_{43} + a_{44} + a_{45} - \\
& a_{46} + 2a_{96} - a_{97} + a_{98} - 3a_{99} - 2a_{100} + \\
& 2a_{101} - 2a_{102} - 2a_{103} - a_{104} - 2a_{105} - 2a_{108} - \\
& a_{109} + a_{110} + a_{111} - 3a_{113} + a_{114} - a_{115} - \\
& 2a_{116} + a_{118} + 2a_{119} - a_{120} + a_{121} - a_{122} - \\
& a_{123} - a_{124} + 2a_{125} - a_{126} + 2a_{159} - 3a_{160} - \\
& a_{162} + a_{163} - a_{165} + a_{166} + a_{167} - 2a_{168} + \\
& a_{169} - 2a_{171} + a_{173} - a_{174} - a_{177} - 2a_{178} + \\
& a_{179} - 2a_{182} - 2a_{183} + 3a_{188} - a_{189} - a_{190} + \\
& a_{193} - a_{195} - a_{196} + 2a_{197} - 2a_{198} - a_{200} - \\
& 2a_{201} - 2a_{203} - a_{204} - a_{205} + a_{207} - 4a_{209} - \\
& a_{211} - 2a_{212} - a_{213} - a_{214} + a_{215} + 3a_{216} + \\
& a_{217} + a_{218}
\end{aligned}
$$

$$
a_{415} = \frac{a_{159} - \sqrt{a_{159}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_0 - 2a_2 + a_4 - a_5 - a_8 + a_9 - \\
& a_{11} - 2a_{17} + 4a_{18} + a_{21} + a_{22} - a_{23} + \\
& 2a_{33} - 3a_{34} + 2a_{36} - a_{38} + a_{39} + 2a_{40} + \\
& a_{41} + 4a_{42} - a_{43} + a_{44} + a_{45} + a_{46} - \\
& a_{47} + 2a_{97} - a_{98} + a_{99} - 3a_{100} - 2a_{101} + \\
& 2a_{102} - 2a_{103} - 2a_{104} - a_{105} - 2a_{106} - 2a_{109} - \\
& a_{110} + a_{111} + a_{112} - 3a_{114} + a_{115} - a_{116} - \\
& 2a_{117} + a_{119} + 2a_{120} - a_{121} + a_{122} - a_{123} - \\
& a_{124} - a_{125} + 2a_{126} - a_{63} + 2a_{160} - 3a_{161} - \\
& a_{163} + a_{164} - a_{166} + a_{167} + a_{168} - 2a_{169} + \\
& a_{170} - 2a_{172} + a_{174} - a_{175} - a_{178} - 2a_{179} + \\
& a_{180} - 2a_{183} - 2a_{184} + 3a_{189} - a_{190} - a_{191} + \\
& a_{194} - a_{196} - a_{197} + 2a_{198} - 2a_{199} - a_{201} - \\
& 2a_{202} - 2a_{204} - a_{205} - a_{206} + a_{208} - 4a_{210} - \\
& a_{212} - 2a_{213} - a_{214} - a_{215} + a_{216} + 3a_{217} + \\
& a_{218} + a_{219}
\end{aligned}
$$

$$
a_{416} = \frac{a_{160} - \sqrt{a_{160}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_0 - 2a_1 + a_5 - a_6 - a_9 + a_{10} - \\
& a_{12} - 2a_{18} + 4a_{19} + a_{22} + a_{23} - a_{24} + \\
& 2a_{34} - 3a_{35} + 2a_{37} - a_{39} + a_{40} + 2a_{41} + \\
& a_{42} + 4a_{43} - a_{44} + a_{45} + a_{46} + a_{47} - \\
& a_{48} + 2a_{98} - a_{99} + a_{100} - 3a_{101} - 2a_{102} + \\
& 2a_{103} - 2a_{104} - 2a_{105} - a_{106} - 2a_{107} - 2a_{110} - \\
& a_{111} + a_{112} + a_{113} - 3a_{115} + a_{116} - a_{117} - \\
& 2a_{118} + a_{120} + 2a_{121} - a_{122} + a_{123} - a_{124} - \\
& a_{125} - a_{126} + 2a_{63} - a_{64} + 2a_{161} - 3a_{162} - \\
& a_{164} + a_{165} - a_{167} + a_{168} + a_{169} - 2a_{170} + \\
& a_{171} - 2a_{173} + a_{175} - a_{176} - a_{179} - 2a_{180} + \\
& a_{181} - 2a_{184} - 2a_{185} + 3a_{190} - a_{191} - a_{192} + \\
& a_{195} - a_{197} - a_{198} + 2a_{199} - 2a_{200} - a_{202} - \\
& 2a_{203} - 2a_{205} - a_{206} - a_{207} + a_{209} - 4a_{211} - \\
& a_{213} - 2a_{214} - a_{215} - a_{216} + a_{217} + 3a_{218} + \\
& a_{219} + a_{220}
\end{aligned}
$$

$$
a_{417} = \frac{a_{161} - \sqrt{a_{161}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_0 - 2a_2 + a_6 - a_3 - a_{10} + a_{11} - \\
& a_{13} - 2a_{19} + 4a_{20} + a_{23} + a_{24} - a_{25} + \\
& 2a_{35} - 3a_{36} + 2a_{38} - a_{40} + a_{41} + 2a_{42} + \\
& a_{43} + 4a_{44} - a_{45} + a_{46} + a_{47} + a_{48} - \\
& a_{49} + 2a_{99} - a_{100} + a_{101} - 3a_{102} - 2a_{103} + \\
& 2a_{104} - 2a_{105} - 2a_{106} - a_{107} - 2a_{108} - 2a_{111} - \\
& a_{112} + a_{113} + a_{114} - 3a_{116} + a_{117} - a_{118} - \\
& 2a_{119} + a_{121} + 2a_{122} - a_{123} + a_{124} - a_{125} - \\
& a_{126} - a_{63} + 2a_{64} - a_{65} + 2a_{162} - 3a_{163} - \\
& a_{165} + a_{166} - a_{168} + a_{169} + a_{170} - 2a_{171} +
\end{aligned}
$$

$$
\begin{aligned}
& a_{172} - 2a_{174} + a_{176} - a_{177} - a_{180} - 2a_{181} + \\
& a_{182} - 2a_{185} - 2a_{186} + 3a_{191} - a_{192} - a_{193} + \\
& a_{196} - a_{198} - a_{199} + 2a_{200} - 2a_{201} - a_{203} - \\
& 2a_{204} - 2a_{206} - a_{207} - a_{208} + a_{210} - 4a_{212} - \\
& a_{214} - 2a_{215} - a_{216} - a_{217} + a_{218} + 3a_{219} + \\
& a_{220} + a_{221}
\end{aligned}
$$

$$
a_{418} = \frac{a_{162} + \sqrt{a_{162}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_0 - 2a_1 + a_3 - a_4 - a_{11} + a_{12} - \\
& a_{14} - 2a_{20} + 4a_{21} + a_{24} + a_{25} - a_{26} + \\
& 2a_{36} - 3a_{37} + 2a_{39} - a_{41} + a_{42} + 2a_{43} + \\
& a_{44} + 4a_{45} - a_{46} + a_{47} + a_{48} + a_{49} - \\
& a_{50} + 2a_{100} - a_{101} + a_{102} - 3a_{103} - 2a_{104} + \\
& 2a_{105} - 2a_{106} - 2a_{107} - a_{108} - 2a_{109} - 2a_{112} - \\
& a_{113} + a_{114} + a_{115} - 3a_{117} + a_{118} - a_{119} - \\
& 2a_{120} + a_{122} + 2a_{123} - a_{124} + a_{125} - a_{126} - \\
& a_{63} - a_{64} + 2a_{65} - a_{66} + 2a_{163} - 3a_{164} - \\
& a_{166} + a_{167} - a_{169} + a_{170} + a_{171} - 2a_{172} + \\
& a_{173} - 2a_{175} + a_{177} - a_{178} - a_{181} - 2a_{182} + \\
& a_{183} - 2a_{186} - 2a_{187} + 3a_{192} - a_{193} - a_{194} + \\
& a_{197} - a_{199} - a_{200} + 2a_{201} - 2a_{202} - a_{204} - \\
& 2a_{205} - 2a_{207} - a_{208} - a_{209} + a_{211} - 4a_{213} - \\
& a_{215} - 2a_{216} - a_{217} - a_{218} + a_{219} + 3a_{220} + \\
& a_{221} + a_{222}
\end{aligned}
$$

$$
a_{419} = \frac{a_{163} + \sqrt{a_{163}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_0 - 2a_2 + a_4 - a_5 - a_{12} + a_{13} - \\
& a_7 - 2a_{21} + 4a_{22} + a_{25} + a_{26} - a_{27} + \\
& 2a_{37} - 3a_{38} + 2a_{40} - a_{42} + a_{43} + 2a_{44} + \\
& a_{45} + 4a_{46} - a_{47} + a_{48} + a_{49} + a_{50} - \\
& a_{51} + 2a_{101} - a_{102} + a_{103} - 3a_{104} - 2a_{105} + \\
& 2a_{106} - 2a_{107} - 2a_{108} - a_{109} - 2a_{110} - 2a_{113} - \\
& a_{114} + a_{115} + a_{116} - 3a_{118} + a_{119} - a_{120} - \\
& 2a_{121} + a_{123} + 2a_{124} - a_{125} + a_{126} - a_{63} - \\
& a_{64} - a_{65} + 2a_{66} - a_{67} + 2a_{164} - 3a_{165} - \\
& a_{167} + a_{168} - a_{170} + a_{171} + a_{172} - 2a_{173} + \\
& a_{174} - 2a_{176} + a_{178} - a_{179} - a_{182} - 2a_{183} + \\
& a_{184} - 2a_{187} - 2a_{188} + 3a_{193} - a_{194} - a_{195} + \\
& a_{198} - a_{200} - a_{201} + 2a_{202} - 2a_{203} - a_{205} - \\
& 2a_{206} - 2a_{208} - a_{209} - a_{210} + a_{212} - 4a_{214} - \\
& a_{216} - 2a_{217} - a_{218} - a_{219} + a_{220} + 3a_{221} + \\
& a_{222} + a_{223}
\end{aligned}
$$

$$
a_{420} = \frac{a_{164} + \sqrt{a_{164}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_0 - 2a_1 + a_5 - a_6 - a_{13} + a_{14} - \\
& a_8 - 2a_{22} + 4a_{23} + a_{26} + a_{27} - a_{28} + \\
& 2a_{38} - 3a_{39} + 2a_{41} - a_{43} + a_{44} + 2a_{45} + \\
& a_{46} + 4a_{47} - a_{48} + a_{49} + a_{50} + a_{51} - \\
& a_{52} + 2a_{102} - a_{103} + a_{104} - 3a_{105} - 2a_{106} + \\
& 2a_{107} - 2a_{108} - 2a_{109} - a_{110} - 2a_{111} - 2a_{114} - \\
& a_{115} + a_{116} + a_{117} - 3a_{119} + a_{120} - a_{121} - \\
& 2a_{122} + a_{124} + 2a_{125} - a_{126} + a_{63} - a_{64} - \\
& a_{65} - a_{66} + 2a_{67} - a_{68} + 2a_{165} - 3a_{166} - \\
& a_{168} + a_{169} - a_{171} + a_{172} + a_{173} - 2a_{174} + \\
& a_{175} - 2a_{177} + a_{179} - a_{180} - a_{183} - 2a_{184} + \\
& a_{185} - 2a_{188} - 2a_{189} + 3a_{194} - a_{195} - a_{196} + \\
& a_{199} - a_{201} - a_{202} + 2a_{203} - 2a_{204} - a_{206} - \\
& 2a_{207} - 2a_{209} - a_{210} - a_{211} + a_{213} - 4a_{215} - \\
& a_{217} - 2a_{218} - a_{219} - a_{220} + a_{221} + 3a_{222} + \\
& a_{223} + a_{224}
\end{aligned}
$$

$$
a_{421} = \frac{a_{165} + \sqrt{a_{165}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_0 - 2a_2 + a_6 - a_3 - a_{14} + a_7 - \\
& a_9 - 2a_{23} + 4a_{24} + a_{27} + a_{28} - a_{29} + \\
& 2a_{39} - 3a_{40} + 2a_{42} - a_{44} + a_{45} + 2a_{46} + \\
& a_{47} + 4a_{48} - a_{49} + a_{50} + a_{51} + a_{52} - \\
& a_{53} + 2a_{103} - a_{104} + a_{105} - 3a_{106} - 2a_{107} + \\
& 2a_{108} - 2a_{109} - 2a_{110} - a_{111} - 2a_{112} - 2a_{115} - \\
& a_{116} + a_{117} + a_{118} - 3a_{120} + a_{121} - a_{122} - \\
& 2a_{123} + a_{125} + 2a_{126} - a_{63} + a_{64} - a_{65} - \\
& a_{66} - a_{67} + 2a_{68} - a_{69} + 2a_{166} - 3a_{167} - \\
& a_{169} + a_{170} - a_{172} + a_{173} + a_{174} - 2a_{175} + \\
& a_{176} - 2a_{178} + a_{180} - a_{181} - a_{184} - 2a_{185} + \\
& a_{186} - 2a_{189} - 2a_{190} + 3a_{195} - a_{196} - a_{197} + \\
& a_{200} - a_{202} - a_{203} + 2a_{204} - 2a_{205} - a_{207} - \\
& 2a_{208} - 2a_{210} - a_{211} - a_{212} + a_{214} - 4a_{216} - \\
& a_{218} - 2a_{219} - a_{220} - a_{221} + a_{222} + 3a_{223} + \\
& a_{224} + a_{225}
\end{aligned}
$$

$$
a_{422} = \frac{a_{166} + \sqrt{a_{166}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_0 - 2a_1 + a_3 - a_4 - a_7 + a_8 - \\
& a_{10} - 2a_{24} + 4a_{25} + a_{28} + a_{29} - a_{30} + \\
& 2a_{40} - 3a_{41} + 2a_{43} - a_{45} + a_{46} + 2a_{47} + \\
& a_{48} + 4a_{49} - a_{50} + a_{51} + a_{52} + a_{53} - \\
& a_{54} + 2a_{104} - a_{105} + a_{106} - 3a_{107} - 2a_{108} + \\
& 2a_{109} - 2a_{110} - 2a_{111} - a_{112} - 2a_{113} - 2a_{116} - \\
& a_{117} + a_{118} + a_{119} - 3a_{121} + a_{122} - a_{123} - \\
& 2a_{124} + a_{126} + 2a_{63} - a_{64} + a_{65} - a_{66} - \\
& a_{67} - a_{68} + 2a_{69} - a_{70} + 2a_{167} - 3a_{168} - \\
& a_{170} + a_{171} - a_{173} + a_{174} + a_{175} - 2a_{176} + \\
& a_{177} - 2a_{179} + a_{181} - a_{182} - a_{185} - 2a_{186} + \\
& a_{187} - 2a_{190} - 2a_{191} + 3a_{196} - a_{197} - a_{198} + \\
& a_{201} - a_{203} - a_{204} + 2a_{205} - 2a_{206} - a_{208} - \\
& 2a_{209} - 2a_{211} - a_{212} - a_{213} + a_{215} - 4a_{217} - \\
& a_{219} - 2a_{220} - a_{221} - a_{222} + a_{223} + 3a_{224} + \\
& a_{225} + a_{226}
\end{aligned}
$$

$$
\begin{aligned}
a_{423} &= \frac{a_{167} - \sqrt{a_{167}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_2 + a_4 - a_5 - a_8 + a_9 - \\
&\quad a_{11} - 2a_{25} + 4a_{26} + a_{29} + a_{30} - a_{15} + \\
&\quad 2a_{41} - 3a_{42} + 2a_{44} - a_{46} + a_{47} + 2a_{48} + \\
&\quad a_{49} + 4a_{50} - a_{51} + a_{52} + a_{53} + a_{54} - \\
&\quad a_{55} + 2a_{105} - a_{106} + a_{107} - 3a_{108} - 2a_{109} + \\
&\quad 2a_{110} - 2a_{111} - 2a_{112} - a_{113} - 2a_{114} - 2a_{117} - \\
&\quad a_{118} + a_{119} + a_{120} - 3a_{122} + a_{123} - a_{124} - \\
&\quad 2a_{125} + a_{63} + 2a_{64} - a_{65} + a_{66} - a_{67} - \\
&\quad a_{68} - a_{69} + 2a_{70} - a_{71} + 2a_{168} - 3a_{169} - \\
&\quad a_{171} + a_{172} - a_{174} + a_{175} + a_{176} - 2a_{177} + \\
&\quad a_{178} - 2a_{180} + a_{182} - a_{183} - a_{186} - 2a_{187} + \\
&\quad a_{188} - 2a_{191} - 2a_{192} + 3a_{197} - a_{198} - a_{199} + \\
&\quad a_{202} - a_{204} - a_{205} + 2a_{206} - 2a_{207} - a_{209} - \\
&\quad 2a_{210} - 2a_{212} - a_{213} - a_{214} + a_{216} - 4a_{218} - \\
&\quad a_{220} - 2a_{221} - a_{222} - a_{223} + a_{224} + 3a_{225} + \\
&\quad a_{226} + a_{227} \\
a_{424} &= \frac{a_{168} + \sqrt{a_{168}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_1 + a_5 - a_6 - a_9 + a_{10} - \\
&\quad a_{12} - 2a_{26} + 4a_{27} + a_{30} + a_{15} - a_{16} + \\
&\quad 2a_{42} - 3a_{43} + 2a_{45} - a_{47} + a_{48} + 2a_{49} + \\
&\quad a_{50} + 4a_{51} - a_{52} + a_{53} + a_{54} + a_{55} - \\
&\quad a_{56} + 2a_{106} - a_{107} + a_{108} - 3a_{109} - 2a_{110} + \\
&\quad 2a_{111} - 2a_{112} - 2a_{113} - a_{114} - 2a_{115} - 2a_{118} - \\
&\quad a_{119} + a_{120} + a_{121} - 3a_{123} + a_{124} - a_{125} - \\
&\quad 2a_{126} + a_{64} + 2a_{65} - a_{66} + a_{67} - a_{68} - \\
&\quad a_{69} - a_{70} + 2a_{71} - a_{72} + 2a_{169} - 3a_{170} - \\
&\quad a_{172} + a_{173} - a_{175} + a_{176} + a_{177} - 2a_{178} + \\
&\quad a_{179} - 2a_{181} + a_{183} - a_{184} - a_{187} - 2a_{188} + \\
&\quad a_{189} - 2a_{192} - 2a_{193} + 3a_{198} - a_{199} - a_{200} + \\
&\quad a_{203} - a_{205} - a_{206} + 2a_{207} - 2a_{208} - a_{210} - \\
&\quad 2a_{211} - 2a_{213} - a_{214} - a_{215} + a_{217} - 4a_{219} - \\
&\quad a_{221} - 2a_{222} - a_{223} - a_{224} + a_{225} + 3a_{226} + \\
&\quad a_{227} + a_{228} \\
a_{425} &= \frac{a_{169} + \sqrt{a_{169}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_2 + a_6 - a_3 - a_{10} + a_{11} - \\
&\quad a_{13} - 2a_{27} + 4a_{28} + a_{15} + a_{16} - a_{17} + \\
&\quad 2a_{43} - 3a_{44} + 2a_{46} - a_{48} + a_{49} + 2a_{50} + \\
&\quad a_{51} + 4a_{52} - a_{53} + a_{54} + a_{55} + a_{56} - \\
&\quad a_{57} + 2a_{107} - a_{108} + a_{109} - 3a_{110} - 2a_{111} + \\
&\quad 2a_{112} - 2a_{113} - 2a_{114} - a_{115} - 2a_{116} - 2a_{119} - \\
&\quad a_{120} + a_{121} + a_{122} - 3a_{124} + a_{125} - a_{126} - \\
&\quad 2a_{63} + a_{65} + 2a_{66} - a_{67} + a_{68} - a_{69} - \\
&\quad a_{70} - a_{71} + 2a_{72} - a_{73} + 2a_{170} - 3a_{171} - \\
&\quad a_{173} + a_{174} - a_{176} + a_{177} + a_{178} - 2a_{179} + \\
&\quad a_{180} - 2a_{182} + a_{184} - a_{185} - a_{188} - 2a_{189} + \\
&\quad a_{190} - 2a_{193} - 2a_{194} + 3a_{199} - a_{200} - a_{201} + \\
&\quad a_{204} - a_{206} - a_{207} + 2a_{208} - 2a_{209} - a_{211} - \\
&\quad 2a_{212} - 2a_{214} - a_{215} - a_{216} + a_{218} - 4a_{220} - \\
&\quad a_{222} - 2a_{223} - a_{224} - a_{225} + a_{226} + 3a_{227} + \\
&\quad a_{228} + a_{229} \\
a_{426} &= \frac{a_{170} - \sqrt{a_{170}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_1 + a_3 - a_4 - a_{11} + a_{12} - \\
&\quad a_{14} - 2a_{28} + 4a_{29} + a_{16} + a_{17} - a_{18} + \\
&\quad 2a_{44} - 3a_{45} + 2a_{47} - a_{49} + a_{50} + 2a_{51} + \\
&\quad a_{52} + 4a_{53} - a_{54} + a_{55} + a_{56} + a_{57} - \\
&\quad a_{58} + 2a_{108} - a_{109} + a_{110} - 3a_{111} - 2a_{112} + \\
&\quad 2a_{113} - 2a_{114} - 2a_{115} - a_{116} - 2a_{117} - 2a_{120} - \\
&\quad a_{121} + a_{122} + a_{123} - 3a_{125} + a_{126} - a_{63} - \\
&\quad 2a_{64} + a_{66} + 2a_{67} - a_{68} + a_{69} - a_{70} - \\
&\quad a_{71} - a_{72} + 2a_{73} - a_{74} + 2a_{171} - 3a_{172} - \\
&\quad a_{174} + a_{175} - a_{177} + a_{178} + a_{179} - 2a_{180} + \\
&\quad a_{181} - 2a_{183} + a_{185} - a_{186} - a_{189} - 2a_{190} + \\
&\quad a_{191} - 2a_{194} - 2a_{195} + 3a_{200} - a_{201} - a_{202} + \\
&\quad a_{205} - a_{207} - a_{208} + 2a_{209} - 2a_{210} - a_{212} - \\
&\quad 2a_{213} - 2a_{215} - a_{216} - a_{217} + a_{219} - 4a_{221} - \\
&\quad a_{223} - 2a_{224} - a_{225} - a_{226} + a_{227} + 3a_{228} + \\
&\quad a_{229} + a_{230} \\
a_{427} &= \frac{a_{171} + \sqrt{a_{171}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_2 + a_4 - a_5 - a_{12} + a_{13} - \\
&\quad a_7 - 2a_{29} + 4a_{30} + a_{17} + a_{18} - a_{19} + \\
&\quad 2a_{45} - 3a_{46} + 2a_{48} - a_{50} + a_{51} + 2a_{52} + \\
&\quad a_{53} + 4a_{54} - a_{55} + a_{56} + a_{57} + a_{58} - \\
&\quad a_{59} + 2a_{109} - a_{110} + a_{111} - 3a_{112} - 2a_{113} + \\
&\quad 2a_{114} - 2a_{115} - 2a_{116} - a_{117} - 2a_{118} - 2a_{121} - \\
&\quad a_{122} + a_{123} + a_{124} - 3a_{126} + a_{63} - a_{64} - \\
&\quad 2a_{65} + a_{67} + 2a_{68} - a_{69} + a_{70} - a_{71} - \\
&\quad a_{72} - a_{73} + 2a_{74} - a_{75} + 2a_{172} - 3a_{173} - \\
&\quad a_{175} + a_{176} - a_{178} + a_{179} + a_{180} - 2a_{181} + \\
&\quad a_{182} - 2a_{184} + a_{186} - a_{187} - a_{190} - 2a_{191} + \\
&\quad a_{192} - 2a_{195} - 2a_{196} + 3a_{201} - a_{202} - a_{203} + \\
&\quad a_{206} - a_{208} - a_{209} + 2a_{210} - 2a_{211} - a_{213} - \\
&\quad 2a_{214} - 2a_{216} - a_{217} - a_{218} + a_{220} - 4a_{222} - \\
&\quad a_{224} - 2a_{225} - a_{226} - a_{227} + a_{228} + 3a_{229} + \\
&\quad a_{230} + a_{231} \\
a_{428} &= \frac{a_{172} + \sqrt{a_{172}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_1 + a_5 - a_6 - a_{13} + a_{14} - \\
&\quad a_8 - 2a_{30} + 4a_{15} + a_{18} + a_{19} - a_{20} + \\
&\quad 2a_{46} - 3a_{47} + 2a_{49} - a_{51} + a_{52} + 2a_{53} + \\
&\quad a_{54} + 4a_{55} - a_{56} + a_{57} + a_{58} + a_{59} - \\
&\quad a_{60} + 2a_{110} - a_{111} + a_{112} - 3a_{113} - 2a_{114} + \\
&\quad 2a_{115} - 2a_{116} - 2a_{117} - a_{118} - 2a_{119} - 2a_{122} -
\end{aligned}
$$

$$
\begin{aligned}
& a_{123} + a_{124} + a_{125} - 3a_{63} + a_{64} - a_{65} - \\
& 2a_{66} + a_{68} + 2a_{69} - a_{70} + a_{71} - a_{72} - \\
& a_{73} - a_{74} + 2a_{75} - a_{76} + 2a_{173} - 3a_{174} - \\
& a_{176} + a_{177} - a_{179} + a_{180} + a_{181} - 2a_{182} + \\
& a_{183} - 2a_{185} + a_{187} - a_{188} - a_{191} - 2a_{192} + \\
& a_{193} - 2a_{196} - 2a_{197} + 3a_{202} - a_{203} - a_{204} + \\
& a_{207} - a_{209} - a_{210} + 2a_{211} - 2a_{212} - a_{214} - \\
& 2a_{215} - 2a_{217} - a_{218} - a_{219} + a_{221} - 4a_{223} - \\
& a_{225} - 2a_{226} - a_{227} - a_{228} + a_{229} + 3a_{230} + \\
& a_{231} + a_{232}
\end{aligned}
$$

$$
a_{429} = \frac{a_{173} - \sqrt{a_{173}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_0 - 2a_2 + a_6 - a_3 - a_{14} + a_7 - \\
& a_9 - 2a_{15} + 4a_{16} + a_{19} + a_{20} - a_{21} + \\
& 2a_{47} - 3a_{48} + 2a_{50} - a_{52} + a_{53} + 2a_{54} + \\
& a_{55} + 4a_{56} - a_{57} + a_{58} + a_{59} + a_{60} - \\
& a_{61} + 2a_{111} - a_{112} + a_{113} - 3a_{114} - 2a_{115} + \\
& 2a_{116} - 2a_{117} - 2a_{118} - a_{119} - 2a_{120} - 2a_{123} - \\
& a_{124} + a_{125} + a_{126} - 3a_{64} + a_{65} - a_{66} - \\
& 2a_{67} + a_{69} + 2a_{70} - a_{71} + a_{72} - a_{73} - \\
& a_{74} - a_{75} + 2a_{76} - a_{77} + 2a_{174} - 3a_{175} - \\
& a_{177} + a_{178} - a_{180} + a_{181} + a_{182} - 2a_{183} + \\
& a_{184} - 2a_{186} + a_{188} - a_{189} - a_{192} - 2a_{193} + \\
& a_{194} - 2a_{197} - 2a_{198} + 3a_{203} - a_{204} - a_{205} + \\
& a_{208} - a_{210} - a_{211} + 2a_{212} - 2a_{213} - a_{215} - \\
& 2a_{216} - 2a_{218} - a_{219} - a_{220} + a_{222} - 4a_{224} - \\
& a_{226} - 2a_{227} - a_{228} - a_{229} + a_{230} + 3a_{231} + \\
& a_{232} + a_{233}
\end{aligned}
$$

$$
a_{430} = \frac{a_{174} + \sqrt{a_{174}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_0 - 2a_1 + a_3 - a_4 - a_7 + a_8 - \\
& a_{10} - 2a_{16} + 4a_{17} + a_{20} + a_{21} - a_{22} + \\
& 2a_{48} - 3a_{49} + 2a_{51} - a_{53} + a_{54} + 2a_{55} + \\
& a_{56} + 4a_{57} - a_{58} + a_{59} + a_{60} + a_{61} - \\
& a_{62} + 2a_{112} - a_{113} + a_{114} - 3a_{115} - 2a_{116} + \\
& 2a_{117} - 2a_{118} - 2a_{119} - a_{120} - 2a_{121} - 2a_{124} - \\
& a_{125} + a_{126} + a_{63} - 3a_{65} + a_{66} - a_{67} - \\
& 2a_{68} + a_{70} + 2a_{71} - a_{72} + a_{73} - a_{74} - \\
& a_{75} - a_{76} + 2a_{77} - a_{78} + 2a_{175} - 3a_{176} - \\
& a_{178} + a_{179} - a_{181} + a_{182} + a_{183} - 2a_{184} + \\
& a_{185} - 2a_{187} + a_{189} - a_{190} - a_{193} - 2a_{194} + \\
& a_{195} - 2a_{198} - 2a_{199} + 3a_{204} - a_{205} - a_{206} + \\
& a_{209} - a_{211} - a_{212} + 2a_{213} - 2a_{214} - a_{216} - \\
& 2a_{217} - 2a_{219} - a_{220} - a_{221} + a_{223} - 4a_{225} - \\
& a_{227} - 2a_{228} - a_{229} - a_{230} + a_{231} + 3a_{232} + \\
& a_{233} + a_{234}
\end{aligned}
$$

$$
a_{431} = \frac{a_{175} - \sqrt{a_{175}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_0 - 2a_2 + a_4 - a_5 - a_8 + a_9 - \\
& a_{11} - 2a_{17} + 4a_{18} + a_{21} + a_{22} - a_{23} + \\
& 2a_{49} - 3a_{50} + 2a_{52} - a_{54} + a_{55} + 2a_{56} + \\
& a_{57} + 4a_{58} - a_{59} + a_{60} + a_{61} + a_{62} - \\
& a_{31} + 2a_{113} - a_{114} + a_{115} - 3a_{116} - 2a_{117} + \\
& 2a_{118} - 2a_{119} - 2a_{120} - a_{121} - 2a_{122} - 2a_{125} - \\
& a_{126} + a_{63} + a_{64} - 3a_{66} + a_{67} - a_{68} - \\
& 2a_{69} + a_{71} + 2a_{72} - a_{73} + a_{74} - a_{75} - \\
& a_{76} - a_{77} + 2a_{78} - a_{79} + 2a_{176} - 3a_{177} - \\
& a_{179} + a_{180} - a_{182} + a_{183} + a_{184} - 2a_{185} + \\
& a_{186} - 2a_{188} + a_{190} - a_{191} - a_{194} - 2a_{195} + \\
& a_{196} - 2a_{199} - 2a_{200} + 3a_{205} - a_{206} - a_{207} + \\
& a_{210} - a_{212} - a_{213} + 2a_{214} - 2a_{215} - a_{217} - \\
& 2a_{218} - 2a_{220} - a_{221} - a_{222} + a_{224} - 4a_{226} - \\
& a_{228} - 2a_{229} - a_{230} - a_{231} + a_{232} + 3a_{233} + \\
& a_{234} + a_{235}
\end{aligned}
$$

$$
a_{432} = \frac{a_{176} + \sqrt{a_{176}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_0 - 2a_1 + a_5 - a_6 - a_9 + a_{10} - \\
& a_{12} - 2a_{18} + 4a_{19} + a_{22} + a_{23} - a_{24} + \\
& 2a_{50} - 3a_{51} + 2a_{53} - a_{55} + a_{56} + 2a_{57} + \\
& a_{58} + 4a_{59} - a_{60} + a_{61} + a_{62} + a_{31} - \\
& a_{32} + 2a_{114} - a_{115} + a_{116} - 3a_{117} - 2a_{118} + \\
& 2a_{119} - 2a_{120} - 2a_{121} - a_{122} - 2a_{123} - 2a_{126} - \\
& a_{63} + a_{64} + a_{65} - 3a_{67} + a_{68} - a_{69} - \\
& 2a_{70} + a_{72} + 2a_{73} - a_{74} + a_{75} - a_{76} - \\
& a_{77} - a_{78} + 2a_{79} - a_{80} + 2a_{177} - 3a_{178} - \\
& a_{180} + a_{181} - a_{183} + a_{184} + a_{185} - 2a_{186} + \\
& a_{187} - 2a_{189} + a_{191} - a_{192} - a_{195} - 2a_{196} + \\
& a_{197} - 2a_{200} - 2a_{201} + 3a_{206} - a_{207} - a_{208} + \\
& a_{211} - a_{213} - a_{214} + 2a_{215} - 2a_{216} - a_{218} - \\
& 2a_{219} - 2a_{221} - a_{222} - a_{223} + a_{225} - 4a_{227} - \\
& a_{229} - 2a_{230} - a_{231} - a_{232} + a_{233} + 3a_{234} + \\
& a_{235} + a_{236}
\end{aligned}
$$

$$
a_{433} = \frac{a_{177} + \sqrt{a_{177}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_0 - 2a_2 + a_6 - a_3 - a_{10} + a_{11} - \\
& a_{13} - 2a_{19} + 4a_{20} + a_{23} + a_{24} - a_{25} + \\
& 2a_{51} - 3a_{52} + 2a_{54} - a_{56} + a_{57} + 2a_{58} + \\
& a_{59} + 4a_{60} - a_{61} + a_{62} + a_{31} + a_{32} - \\
& a_{33} + 2a_{115} - a_{116} + a_{117} - 3a_{118} - 2a_{119} + \\
& 2a_{120} - 2a_{121} - 2a_{122} - a_{123} - 2a_{124} - 2a_{63} - \\
& a_{64} + a_{65} + a_{66} - 3a_{68} + a_{69} - a_{70} - \\
& 2a_{71} + a_{73} + 2a_{74} - a_{75} + a_{76} - a_{77} - \\
& a_{78} - a_{79} + 2a_{80} - a_{81} + 2a_{178} - 3a_{179} - \\
& a_{181} + a_{182} - a_{184} + a_{185} + a_{186} - 2a_{187} + \\
& a_{188} - 2a_{190} + a_{192} - a_{193} - a_{196} - 2a_{197} + \\
& a_{198} - 2a_{201} - 2a_{202} + 3a_{207} - a_{208} - a_{209} + \\
& a_{212} - a_{214} - a_{215} + 2a_{216} - 2a_{217} - a_{219} -
\end{aligned}
$$

$$
\begin{aligned}
& 2a_{220} - 2a_{222} - a_{223} - a_{224} + a_{226} - 4a_{228} - \\
& a_{230} - 2a_{231} - a_{232} - a_{233} + a_{234} + 3a_{235} + \\
& a_{236} + a_{237} \\
a_{434} &= \frac{a_{178} + \sqrt{a_{178}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_1 + a_3 - a_4 - a_{11} + a_{12} - \\
& a_{14} - 2a_{20} + 4a_{21} + a_{24} + a_{25} - a_{26} + \\
& 2a_{52} - 3a_{53} + 2a_{55} - a_{57} + a_{58} + 2a_{59} + \\
& a_{60} + 4a_{61} - a_{62} + a_{31} + a_{32} + a_{33} - \\
& a_{34} + 2a_{116} - a_{117} + a_{118} - 3a_{119} - 2a_{120} + \\
& 2a_{121} - 2a_{122} - 2a_{123} - a_{124} - 2a_{125} - 2a_{64} - \\
& a_{65} + a_{66} + a_{67} - 3a_{69} + a_{70} - a_{71} - \\
& 2a_{72} + a_{74} + 2a_{75} - a_{76} + a_{77} - a_{78} - \\
& a_{79} - a_{80} + 2a_{81} - a_{82} + 2a_{179} - 3a_{180} - \\
& a_{182} + a_{183} - a_{185} + a_{186} + a_{187} - 2a_{188} + \\
& a_{189} - 2a_{191} + a_{193} - a_{194} - a_{197} - 2a_{198} + \\
& a_{199} - 2a_{202} - 2a_{203} + 3a_{208} - a_{209} - a_{210} + \\
& a_{213} - a_{215} - a_{216} + 2a_{217} - 2a_{218} - a_{220} - \\
& 2a_{221} - 2a_{223} - a_{224} - a_{225} + a_{227} - 4a_{229} - \\
& a_{231} - 2a_{232} - a_{233} - a_{234} + a_{235} + 3a_{236} + \\
& a_{237} + a_{238} \\
a_{435} &= \frac{a_{179} - \sqrt{a_{179}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_2 + a_4 - a_5 - a_{12} + a_{13} - \\
& a_7 - 2a_{21} + 4a_{22} + a_{25} + a_{26} - a_{27} + \\
& 2a_{53} - 3a_{54} + 2a_{56} - a_{58} + a_{59} + 2a_{60} + \\
& a_{61} + 4a_{62} - a_{31} + a_{32} + a_{33} + a_{34} - \\
& a_{35} + 2a_{117} - a_{118} + a_{119} - 3a_{120} - 2a_{121} + \\
& 2a_{122} - 2a_{123} - 2a_{124} - a_{125} - 2a_{126} - 2a_{65} - \\
& a_{66} + a_{67} + a_{68} - 3a_{70} + a_{71} - a_{72} - \\
& 2a_{73} + a_{75} + 2a_{76} - a_{77} + a_{78} - a_{79} - \\
& a_{80} - a_{81} + 2a_{82} - a_{83} + 2a_{180} - 3a_{181} - \\
& a_{183} + a_{184} - a_{186} + a_{187} + a_{188} - 2a_{189} + \\
& a_{190} - 2a_{192} + a_{194} - a_{195} - a_{198} - 2a_{199} + \\
& a_{200} - 2a_{203} - 2a_{204} + 3a_{209} - a_{210} - a_{211} + \\
& a_{214} - a_{216} - a_{217} + 2a_{218} - 2a_{219} - a_{221} - \\
& 2a_{222} - 2a_{224} - a_{225} - a_{226} + a_{228} - 4a_{230} - \\
& a_{232} - 2a_{233} - a_{234} - a_{235} + a_{236} + 3a_{237} + \\
& a_{238} + a_{239} \\
a_{436} &= \frac{a_{180} + \sqrt{a_{180}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_1 + a_5 - a_6 - a_{13} + a_{14} - \\
& a_8 - 2a_{22} + 4a_{23} + a_{26} + a_{27} - a_{28} + \\
& 2a_{54} - 3a_{55} + 2a_{57} - a_{59} + a_{60} + 2a_{61} + \\
& a_{62} + 4a_{31} - a_{32} + a_{33} + a_{34} + a_{35} - \\
& a_{36} + 2a_{118} - a_{119} + a_{120} - 3a_{121} - 2a_{122} + \\
& 2a_{123} - 2a_{124} - 2a_{125} - a_{126} - 2a_{63} - 2a_{66} - \\
& a_{67} + a_{68} + a_{69} - 3a_{71} + a_{72} - a_{73} - \\
& 2a_{74} + a_{76} + 2a_{77} - a_{78} + a_{79} - a_{80} - \\
& a_{81} - a_{82} + 2a_{83} - a_{84} + 2a_{181} - 3a_{182} - \\
& a_{184} + a_{185} - a_{187} + a_{188} + a_{189} - 2a_{190} + \\
& a_{191} - 2a_{193} + a_{195} - a_{196} - a_{199} - 2a_{200} + \\
& a_{201} - 2a_{204} - 2a_{205} + 3a_{210} - a_{211} - a_{212} + \\
& a_{215} - a_{217} - a_{218} + 2a_{219} - 2a_{220} - a_{222} - \\
& 2a_{223} - 2a_{225} - a_{226} - a_{227} + a_{229} - 4a_{231} - \\
& a_{233} - 2a_{234} - a_{235} - a_{236} + a_{237} + 3a_{238} + \\
& a_{239} + a_{240} \\
a_{437} &= \frac{a_{181} - \sqrt{a_{181}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_2 + a_6 - a_3 - a_{14} + a_7 - \\
& a_9 - 2a_{23} + 4a_{24} + a_{27} + a_{28} - a_{29} + \\
& 2a_{55} - 3a_{56} + 2a_{58} - a_{60} + a_{61} + 2a_{62} + \\
& a_{31} + 4a_{32} - a_{33} + a_{34} + a_{35} + a_{36} - \\
& a_{37} + 2a_{119} - a_{120} + a_{121} - 3a_{122} - 2a_{123} + \\
& 2a_{124} - 2a_{125} - 2a_{126} - a_{63} - 2a_{64} - 2a_{67} - \\
& a_{68} + a_{69} + a_{70} - 3a_{72} + a_{73} - a_{74} - \\
& 2a_{75} + a_{77} + 2a_{78} - a_{79} + a_{80} - a_{81} - \\
& a_{82} - a_{83} + 2a_{84} - a_{85} + 2a_{182} - 3a_{183} - \\
& a_{185} + a_{186} - a_{188} + a_{189} + a_{190} - 2a_{191} + \\
& a_{192} - 2a_{194} + a_{196} - a_{197} - a_{200} - 2a_{201} + \\
& a_{202} - 2a_{205} - 2a_{206} + 3a_{211} - a_{212} - a_{213} + \\
& a_{216} - a_{218} - a_{219} + 2a_{220} - 2a_{221} - a_{223} - \\
& 2a_{224} - 2a_{226} - a_{227} - a_{228} + a_{230} - 4a_{232} - \\
& a_{234} - 2a_{235} - a_{236} - a_{237} + a_{238} + 3a_{239} + \\
& a_{240} + a_{241} \\
a_{438} &= \frac{a_{182} - \sqrt{a_{182}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_1 + a_3 - a_4 - a_7 + a_8 - \\
& a_{10} - 2a_{24} + 4a_{25} + a_{28} + a_{29} - a_{30} + \\
& 2a_{56} - 3a_{57} + 2a_{59} - a_{61} + a_{62} + 2a_{31} + \\
& a_{32} + 4a_{33} - a_{34} + a_{35} + a_{36} + a_{37} - \\
& a_{38} + 2a_{120} - a_{121} + a_{122} - 3a_{123} - 2a_{124} + \\
& 2a_{125} - 2a_{126} - 2a_{63} - a_{64} - 2a_{65} - 2a_{68} - \\
& a_{69} + a_{70} + a_{71} - 3a_{73} + a_{74} - a_{75} - \\
& 2a_{76} + a_{78} + 2a_{79} - a_{80} + a_{81} - a_{82} - \\
& a_{83} - a_{84} + 2a_{85} - a_{86} + 2a_{183} - 3a_{184} - \\
& a_{186} + a_{187} - a_{189} + a_{190} + a_{191} - 2a_{192} + \\
& a_{193} - 2a_{195} + a_{197} - a_{198} - a_{201} - 2a_{202} + \\
& a_{203} - 2a_{206} - 2a_{207} + 3a_{212} - a_{213} - a_{214} + \\
& a_{217} - a_{219} - a_{220} + 2a_{221} - 2a_{222} - a_{224} - \\
& 2a_{225} - 2a_{227} - a_{228} - a_{229} + a_{231} - 4a_{233} - \\
& a_{235} - 2a_{236} - a_{237} - a_{238} + a_{239} + 3a_{240} + \\
& a_{241} + a_{242} \\
a_{439} &= \frac{a_{183} + \sqrt{a_{183}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_2 + a_4 - a_5 - a_8 + a_9 - \\
& a_{11} - 2a_{25} + 4a_{26} + a_{29} + a_{30} - a_{15} + \\
& 2a_{57} - 3a_{58} + 2a_{60} - a_{62} + a_{31} + 2a_{32} +
\end{aligned}
$$

$$
\begin{aligned}
& a_{33} + 4a_{34} - a_{35} + a_{36} + a_{37} + a_{38} - \\
& a_{39} + 2a_{121} - a_{122} + a_{123} - 3a_{124} - 2a_{125} + \\
& 2a_{126} - 2a_{63} - 2a_{64} - a_{65} - 2a_{66} - 2a_{69} - \\
& a_{70} + a_{71} + a_{72} - 3a_{74} + a_{75} - a_{76} - \\
& 2a_{77} + a_{79} + 2a_{80} - a_{81} + a_{82} - a_{83} - \\
& a_{84} - a_{85} + 2a_{86} - a_{87} + 2a_{184} - 3a_{185} - \\
& a_{187} + a_{188} - a_{190} + a_{191} + a_{192} - 2a_{193} + \\
& a_{194} - 2a_{196} + a_{198} - a_{199} - a_{202} - 2a_{203} + \\
& a_{204} - 2a_{207} - 2a_{208} + 3a_{213} - a_{214} - a_{215} + \\
& a_{218} - a_{220} - a_{221} + 2a_{222} - 2a_{223} - a_{225} - \\
& 2a_{226} - 2a_{228} - a_{229} - a_{230} + a_{232} - 4a_{234} - \\
& a_{236} - 2a_{237} - a_{238} - a_{239} + a_{240} + 3a_{241} + \\
& a_{242} + a_{243}
\end{aligned}
$$

$$
\begin{aligned}
a_{440} &= \frac{a_{184} + \sqrt{a_{184}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_1 + a_5 - a_6 - a_9 + a_{10} - \\
& a_{12} - 2a_{26} + 4a_{27} + a_{30} + a_{15} - a_{16} + \\
& 2a_{58} - 3a_{59} + 2a_{61} - a_{31} + a_{32} + 2a_{33} + \\
& a_{34} + 4a_{35} - a_{36} + a_{37} + a_{38} + a_{39} - \\
& a_{40} + 2a_{122} - a_{123} + a_{124} - 3a_{125} - 2a_{126} + \\
& 2a_{63} - 2a_{64} - 2a_{65} - a_{66} - 2a_{67} - 2a_{70} - \\
& a_{71} + a_{72} + a_{73} - 3a_{75} + a_{76} - a_{77} - \\
& 2a_{78} + a_{80} + 2a_{81} - a_{82} + a_{83} - a_{84} - \\
& a_{85} - a_{86} + 2a_{87} - a_{88} + 2a_{185} - 3a_{186} - \\
& a_{188} + a_{189} - a_{191} + a_{192} + a_{193} - 2a_{194} + \\
& a_{195} - 2a_{197} + a_{199} - a_{200} - a_{203} - 2a_{204} + \\
& a_{205} - 2a_{208} - 2a_{209} + 3a_{214} - a_{215} - a_{216} + \\
& a_{219} - a_{221} - a_{222} + 2a_{223} - 2a_{224} - a_{226} - \\
& 2a_{227} - 2a_{229} - a_{230} - a_{231} + a_{233} - 4a_{235} - \\
& a_{237} - 2a_{238} - a_{239} - a_{240} + a_{241} + 3a_{242} + \\
& a_{243} + a_{244} \\
a_{441} &= \frac{a_{185} + \sqrt{a_{185}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_2 + a_6 - a_3 - a_{10} + a_{11} - \\
& a_{13} - 2a_{27} + 4a_{28} + a_{15} + a_{16} - a_{17} + \\
& 2a_{59} - 3a_{60} + 2a_{62} - a_{32} + a_{33} + 2a_{34} + \\
& a_{35} + 4a_{36} - a_{37} + a_{38} + a_{39} + a_{40} - \\
& a_{41} + 2a_{123} - a_{124} + a_{125} - 3a_{126} - 2a_{63} + \\
& 2a_{64} - 2a_{65} - 2a_{66} - a_{67} - 2a_{68} - 2a_{71} - \\
& a_{72} + a_{73} + a_{74} - 3a_{76} + a_{77} - a_{78} - \\
& 2a_{79} + a_{81} + 2a_{82} - a_{83} + a_{84} - a_{85} - \\
& a_{86} - a_{87} + 2a_{88} - a_{89} + 2a_{186} - 3a_{187} - \\
& a_{189} + a_{190} - a_{192} + a_{193} + a_{194} - 2a_{195} + \\
& a_{196} - 2a_{198} + a_{200} - a_{201} - a_{204} - 2a_{205} + \\
& a_{206} - 2a_{209} - 2a_{210} + 3a_{215} - a_{216} - a_{217} + \\
& a_{220} - a_{222} - a_{223} + 2a_{224} - 2a_{225} - a_{227} - \\
& 2a_{228} - 2a_{230} - a_{231} - a_{232} + a_{234} - 4a_{236} - \\
& a_{238} - 2a_{239} - a_{240} - a_{241} + a_{242} + 3a_{243} + \\
& a_{244} + a_{245} \\
a_{442} &= \frac{a_{186} - \sqrt{a_{186}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_1 + a_3 - a_4 - a_{11} + a_{12} - \\
& a_{14} - 2a_{28} + 4a_{29} + a_{16} + a_{17} - a_{18} + \\
& 2a_{60} - 3a_{61} + 2a_{31} - a_{33} + a_{34} + 2a_{35} + \\
& a_{36} + 4a_{37} - a_{38} + a_{39} + a_{40} + a_{41} - \\
& a_{42} + 2a_{124} - a_{125} + a_{126} - 3a_{63} - 2a_{64} + \\
& 2a_{65} - 2a_{66} - 2a_{67} - a_{68} - 2a_{69} - 2a_{72} - \\
& a_{73} + a_{74} + a_{75} - 3a_{77} + a_{78} - a_{79} - \\
& 2a_{80} + a_{82} + 2a_{83} - a_{84} + a_{85} - a_{86} - \\
& a_{87} - a_{88} + 2a_{89} - a_{90} + 2a_{187} - 3a_{188} - \\
& a_{190} + a_{191} - a_{193} + a_{194} + a_{195} - 2a_{196} + \\
& a_{197} - 2a_{199} + a_{201} - a_{202} - a_{205} - 2a_{206} + \\
& a_{207} - 2a_{210} - 2a_{211} + 3a_{216} - a_{217} - a_{218} + \\
& a_{221} - a_{223} - a_{224} + 2a_{225} - 2a_{226} - a_{228} - \\
& 2a_{229} - 2a_{231} - a_{232} - a_{233} + a_{235} - 4a_{237} - \\
& a_{239} - 2a_{240} - a_{241} - a_{242} + a_{243} + 3a_{244} + \\
& a_{245} + a_{246} \\
a_{443} &= \frac{a_{187} - \sqrt{a_{187}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_2 + a_4 - a_5 - a_{12} + a_{13} - \\
& a_7 - 2a_{29} + 4a_{30} + a_{17} + a_{18} - a_{19} + \\
& 2a_{61} - 3a_{62} + 2a_{32} - a_{34} + a_{35} + 2a_{36} + \\
& a_{37} + 4a_{38} - a_{39} + a_{40} + a_{41} + a_{42} - \\
& a_{43} + 2a_{125} - a_{126} + a_{63} - 3a_{64} - 2a_{65} + \\
& 2a_{66} - 2a_{67} - 2a_{68} - a_{69} - 2a_{70} - 2a_{73} - \\
& a_{74} + a_{75} + a_{76} - 3a_{78} + a_{79} - a_{80} - \\
& 2a_{81} + a_{83} + 2a_{84} - a_{85} + a_{86} - a_{87} - \\
& a_{88} - a_{89} + 2a_{90} - a_{91} + 2a_{188} - 3a_{189} - \\
& a_{191} + a_{192} - a_{194} + a_{195} + a_{196} - 2a_{197} + \\
& a_{198} - 2a_{200} + a_{202} - a_{203} - a_{206} - 2a_{207} + \\
& a_{208} - 2a_{211} - 2a_{212} + 3a_{217} - a_{218} - a_{219} + \\
& a_{222} - a_{224} - a_{225} + 2a_{226} - 2a_{227} - a_{229} - \\
& 2a_{230} - 2a_{232} - a_{233} - a_{234} + a_{236} - 4a_{238} - \\
& a_{240} - 2a_{241} - a_{242} - a_{243} + a_{244} + 3a_{245} + \\
& a_{246} + a_{247} \\
a_{444} &= \frac{a_{188} + \sqrt{a_{188}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_1 + a_5 - a_6 - a_{13} + a_{14} - \\
& a_8 - 2a_{30} + 4a_{15} + a_{18} + a_{19} - a_{20} + \\
& 2a_{62} - 3a_{31} + 2a_{33} - a_{35} + a_{36} + 2a_{37} + \\
& a_{38} + 4a_{39} - a_{40} + a_{41} + a_{42} + a_{43} - \\
& a_{44} + 2a_{126} - a_{63} + a_{64} - 3a_{65} - 2a_{66} + \\
& 2a_{67} - 2a_{68} - 2a_{69} - a_{70} - 2a_{71} - 2a_{74} - \\
& a_{75} + a_{76} + a_{77} - 3a_{79} + a_{80} - a_{81} - \\
& 2a_{82} + a_{84} + 2a_{85} - a_{86} + a_{87} - a_{88} - \\
& a_{89} - a_{90} + 2a_{91} - a_{92} + 2a_{189} - 3a_{190} - \\
& a_{192} + a_{193} - a_{195} + a_{196} + a_{197} - 2a_{198} +
\end{aligned}
$$

$$
\begin{aligned}
& a_{199} - 2a_{201} + a_{203} - a_{204} - a_{207} - 2a_{208} + \\
& a_{209} - 2a_{212} - 2a_{213} + 3a_{218} - a_{219} - a_{220} + \\
& a_{223} - a_{225} - a_{226} + 2a_{227} - 2a_{228} - a_{230} - \\
& 2a_{231} - 2a_{233} - a_{234} - a_{235} + a_{237} - 4a_{239} - \\
& a_{241} - 2a_{242} - a_{243} - a_{244} + a_{245} + 3a_{246} + \\
& a_{247} + a_{248}
\end{aligned}
$$

$$
a_{445} = \frac{a_{189} - \sqrt{a_{189}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_0 - 2a_2 + a_6 - a_3 - a_{14} + a_7 - \\
& a_9 - 2a_{15} + 4a_{16} + a_{19} + a_{20} - a_{21} + \\
& 2a_{31} - 3a_{32} + 2a_{34} - a_{36} + a_{37} + 2a_{38} + \\
& a_{39} + 4a_{40} - a_{41} + a_{42} + a_{43} + a_{44} - \\
& a_{45} + 2a_{63} - a_{64} + a_{65} - 3a_{66} - 2a_{67} + \\
& 2a_{68} - 2a_{69} - 2a_{70} - a_{71} - 2a_{72} - 2a_{75} - \\
& a_{76} + a_{77} + a_{78} - 3a_{80} + a_{81} - a_{82} - \\
& 2a_{83} + a_{85} + 2a_{86} - a_{87} + a_{88} - a_{89} - \\
& a_{90} - a_{91} + 2a_{92} - a_{93} + 2a_{190} - 3a_{191} - \\
& a_{193} + a_{194} - a_{196} + a_{197} + a_{198} - 2a_{199} + \\
& a_{200} - 2a_{202} + a_{204} - a_{205} - a_{208} - 2a_{209} + \\
& a_{210} - 2a_{213} - 2a_{214} + 3a_{219} - a_{220} - a_{221} + \\
& a_{224} - a_{226} - a_{227} + 2a_{228} - 2a_{229} - a_{231} - \\
& 2a_{232} - 2a_{234} - a_{235} - a_{236} + a_{238} - 4a_{240} - \\
& a_{242} - 2a_{243} - a_{244} - a_{245} + a_{246} + 3a_{247} + \\
& a_{248} + a_{249}
\end{aligned}
$$

$$
a_{446} = \frac{a_{190} + \sqrt{a_{190}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_0 - 2a_1 + a_3 - a_4 - a_7 + a_8 - \\
& a_{10} - 2a_{16} + 4a_{17} + a_{20} + a_{21} - a_{22} + \\
& 2a_{32} - 3a_{33} + 2a_{35} - a_{37} + a_{38} + 2a_{39} + \\
& a_{40} + 4a_{41} - a_{42} + a_{43} + a_{44} + a_{45} - \\
& a_{46} + 2a_{64} - a_{65} + a_{66} - 3a_{67} - 2a_{68} + \\
& 2a_{69} - 2a_{70} - 2a_{71} - a_{72} - 2a_{73} - 2a_{76} - \\
& a_{77} + a_{78} + a_{79} - 3a_{81} + a_{82} - a_{83} - \\
& 2a_{84} + a_{86} + 2a_{87} - a_{88} + a_{89} - a_{90} - \\
& a_{91} - a_{92} + 2a_{93} - a_{94} + 2a_{191} - 3a_{192} - \\
& a_{194} + a_{195} - a_{197} + a_{198} + a_{199} - 2a_{200} + \\
& a_{201} - 2a_{203} + a_{205} - a_{206} - a_{209} - 2a_{210} + \\
& a_{211} - 2a_{214} - 2a_{215} + 3a_{220} - a_{221} - a_{222} + \\
& a_{225} - a_{227} - a_{228} + 2a_{229} - 2a_{230} - a_{232} - \\
& 2a_{233} - 2a_{235} - a_{236} - a_{237} + a_{239} - 4a_{241} - \\
& a_{243} - 2a_{244} - a_{245} - a_{246} + a_{247} + 3a_{248} + \\
& a_{249} + a_{250}
\end{aligned}
$$

$$
a_{447} = \frac{a_{191} - \sqrt{a_{191}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_0 - 2a_2 + a_4 - a_5 - a_8 + a_9 - \\
& a_{11} - 2a_{17} + 4a_{18} + a_{21} + a_{22} - a_{23} + \\
& 2a_{33} - 3a_{34} + 2a_{36} - a_{38} + a_{39} + 2a_{40} + \\
& a_{41} + 4a_{42} - a_{43} + a_{44} + a_{45} + a_{46} - \\
& a_{47} + 2a_{65} - a_{66} + a_{67} - 3a_{68} - 2a_{69} + \\
& 2a_{70} - 2a_{71} - 2a_{72} - a_{73} - 2a_{74} - 2a_{77} - \\
& a_{78} + a_{79} + a_{80} - 3a_{82} + a_{83} - a_{84} - \\
& 2a_{85} + a_{87} + 2a_{88} - a_{89} + a_{90} - a_{91} - \\
& a_{92} - a_{93} + 2a_{94} - a_{95} + 2a_{192} - 3a_{193} - \\
& a_{195} + a_{196} - a_{198} + a_{199} + a_{200} - 2a_{201} + \\
& a_{202} - 2a_{204} + a_{206} - a_{207} - a_{210} - 2a_{211} + \\
& a_{212} - 2a_{215} - 2a_{216} + 3a_{221} - a_{222} - a_{223} + \\
& a_{226} - a_{228} - a_{229} + 2a_{230} - 2a_{231} - a_{233} - \\
& 2a_{234} - 2a_{236} - a_{237} - a_{238} + a_{240} - 4a_{242} - \\
& a_{244} - 2a_{245} - a_{246} - a_{247} + a_{248} + 3a_{249} + \\
& a_{250} + a_{251}
\end{aligned}
$$

$$
a_{448} = \frac{a_{192} - \sqrt{a_{192}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_0 - 2a_1 + a_5 - a_6 - a_9 + a_{10} - \\
& a_{12} - 2a_{18} + 4a_{19} + a_{22} + a_{23} - a_{24} + \\
& 2a_{34} - 3a_{35} + 2a_{37} - a_{39} + a_{40} + 2a_{41} + \\
& a_{42} + 4a_{43} - a_{44} + a_{45} + a_{46} + a_{47} - \\
& a_{48} + 2a_{66} - a_{67} + a_{68} - 3a_{69} - 2a_{70} + \\
& 2a_{71} - 2a_{72} - 2a_{73} - a_{74} - 2a_{75} - 2a_{78} - \\
& a_{79} + a_{80} + a_{81} - 3a_{83} + a_{84} - a_{85} - \\
& 2a_{86} + a_{88} + 2a_{89} - a_{90} + a_{91} - a_{92} - \\
& a_{93} - a_{94} + 2a_{95} - a_{96} + 2a_{193} - 3a_{194} - \\
& a_{196} + a_{197} - a_{199} + a_{200} + a_{201} - 2a_{202} + \\
& a_{203} - 2a_{205} + a_{207} - a_{208} - a_{211} - 2a_{212} + \\
& a_{213} - 2a_{216} - 2a_{217} + 3a_{222} - a_{223} - a_{224} + \\
& a_{227} - a_{229} - a_{230} + 2a_{231} - 2a_{232} - a_{234} - \\
& 2a_{235} - 2a_{237} - a_{238} - a_{239} + a_{241} - 4a_{243} - \\
& a_{245} - 2a_{246} - a_{247} - a_{248} + a_{249} + 3a_{250} + \\
& a_{251} + a_{252}
\end{aligned}
$$

$$
a_{449} = \frac{a_{193} - \sqrt{a_{193}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_0 - 2a_2 + a_6 - a_3 - a_{10} + a_{11} - \\
& a_{13} - 2a_{19} + 4a_{20} + a_{23} + a_{24} - a_{25} + \\
& 2a_{35} - 3a_{36} + 2a_{38} - a_{40} + a_{41} + 2a_{42} + \\
& a_{43} + 4a_{44} - a_{45} + a_{46} + a_{47} + a_{48} - \\
& a_{49} + 2a_{67} - a_{68} + a_{69} - 3a_{70} - 2a_{71} + \\
& 2a_{72} - 2a_{73} - 2a_{74} - a_{75} - 2a_{76} - 2a_{79} - \\
& a_{80} + a_{81} + a_{82} - 3a_{84} + a_{85} - a_{86} - \\
& 2a_{87} + a_{89} + 2a_{90} - a_{91} + a_{92} - a_{93} - \\
& a_{94} - a_{95} + 2a_{96} - a_{97} + 2a_{194} - 3a_{195} - \\
& a_{197} + a_{198} - a_{200} + a_{201} + a_{202} - 2a_{203} + \\
& a_{204} - 2a_{206} + a_{208} - a_{209} - a_{212} - 2a_{213} + \\
& a_{214} - 2a_{217} - 2a_{218} + 3a_{223} - a_{224} - a_{225} + \\
& a_{228} - a_{230} - a_{231} + 2a_{232} - 2a_{233} - a_{235} - \\
& 2a_{236} - 2a_{238} - a_{239} - a_{240} + a_{242} - 4a_{244} - \\
& a_{246} - 2a_{247} - a_{248} - a_{249} + a_{250} + 3a_{251} + \\
& a_{252} + a_{253}
\end{aligned}
$$

$$
\begin{aligned}
a_{450} &= \frac{a_{194}+\sqrt{a_{194}^2-4x}}{2}\\
x &= 2a_0-2a_1+a_3-a_4-a_{11}+a_{12}-\\
&\quad a_{14}-2a_{20}+4a_{21}+a_{24}+a_{25}-a_{26}+\\
&\quad 2a_{36}-3a_{37}+2a_{39}-a_{41}+a_{42}+2a_{43}+\\
&\quad a_{44}+4a_{45}-a_{46}+a_{47}+a_{48}+a_{49}-\\
&\quad a_{50}+2a_{68}-a_{69}+a_{70}-3a_{71}-2a_{72}+\\
&\quad 2a_{73}-2a_{74}-2a_{75}-a_{76}-2a_{77}-2a_{80}-\\
&\quad a_{81}+a_{82}+a_{83}-3a_{85}+a_{86}-a_{87}-\\
&\quad 2a_{88}+a_{90}+2a_{91}-a_{92}+a_{93}-a_{94}-\\
&\quad a_{95}-a_{96}+2a_{97}-a_{98}+2a_{195}-3a_{196}-\\
&\quad a_{198}+a_{199}-a_{201}+a_{202}+a_{203}-2a_{204}+\\
&\quad a_{205}-2a_{207}+a_{209}-a_{210}-a_{213}-2a_{214}+\\
&\quad a_{215}-2a_{218}-2a_{219}+3a_{224}-a_{225}-a_{226}+\\
&\quad a_{229}-a_{231}-a_{232}+2a_{233}-2a_{234}-a_{236}-\\
&\quad 2a_{237}-2a_{239}-a_{240}-a_{241}+a_{243}-4a_{245}-\\
&\quad a_{247}-2a_{248}-a_{249}-a_{250}+a_{251}+3a_{252}+\\
&\quad a_{253}+a_{254}\\
a_{451} &= \frac{a_{195}-\sqrt{a_{195}^2-4x}}{2}\\
x &= 2a_0-2a_2+a_4-a_5-a_{12}+a_{13}-\\
&\quad a_7-2a_{21}+4a_{22}+a_{25}+a_{26}-a_{27}+\\
&\quad 2a_{37}-3a_{38}+2a_{40}-a_{42}+a_{43}+2a_{44}+\\
&\quad a_{45}+4a_{46}-a_{47}+a_{48}+a_{49}+a_{50}-\\
&\quad a_{51}+2a_{69}-a_{70}+a_{71}-3a_{72}-2a_{73}+\\
&\quad 2a_{74}-2a_{75}-2a_{76}-a_{77}-2a_{78}-2a_{81}-\\
&\quad a_{82}+a_{83}+a_{84}-3a_{86}+a_{87}-a_{88}-\\
&\quad 2a_{89}+a_{91}+2a_{92}-a_{93}+a_{94}-a_{95}-\\
&\quad a_{96}-a_{97}+2a_{98}-a_{99}+2a_{196}-3a_{197}-\\
&\quad a_{199}+a_{200}-a_{202}+a_{203}+a_{204}-2a_{205}+\\
&\quad a_{206}-2a_{208}+a_{210}-a_{211}-a_{214}-2a_{215}+\\
&\quad a_{216}-2a_{219}-2a_{220}+3a_{225}-a_{226}-a_{227}+\\
&\quad a_{230}-a_{232}-a_{233}+2a_{234}-2a_{235}-a_{237}-\\
&\quad 2a_{238}-2a_{240}-a_{241}-a_{242}+a_{244}-4a_{246}-\\
&\quad a_{248}-2a_{249}-a_{250}-a_{251}+a_{252}+3a_{253}+\\
&\quad a_{254}+a_{127}\\
a_{452} &= \frac{a_{196}+\sqrt{a_{196}^2-4x}}{2}\\
x &= 2a_0-2a_1+a_5-a_6-a_{13}+a_{14}-\\
&\quad a_8-2a_{22}+4a_{23}+a_{26}+a_{27}-a_{28}+\\
&\quad 2a_{38}-3a_{39}+2a_{41}-a_{43}+a_{44}+2a_{45}+\\
&\quad a_{46}+4a_{47}-a_{48}+a_{49}+a_{50}+a_{51}-\\
&\quad a_{52}+2a_{70}-a_{71}+a_{72}-3a_{73}-2a_{74}+\\
&\quad 2a_{75}-2a_{76}-2a_{77}-a_{78}-2a_{79}-2a_{82}-\\
&\quad a_{83}+a_{84}+a_{85}-3a_{87}+a_{88}-a_{89}-\\
&\quad 2a_{90}+a_{92}+2a_{93}-a_{94}+a_{95}-a_{96}-\\
&\quad a_{97}-a_{98}+2a_{99}-a_{100}+2a_{197}-3a_{198}-\\
&\quad a_{200}+a_{201}-a_{203}+a_{204}+a_{205}-2a_{206}+\\
&\quad a_{207}-2a_{209}+a_{211}-a_{212}-a_{215}-2a_{216}+\\
&\quad a_{217}-2a_{220}-2a_{221}+3a_{226}-a_{227}-a_{228}+\\
&\quad a_{231}-a_{233}-a_{234}+2a_{235}-2a_{236}-a_{238}-\\
&\quad 2a_{239}-2a_{241}-a_{242}-a_{243}+a_{245}-4a_{247}-\\
&\quad a_{249}-2a_{250}-a_{251}-a_{252}+a_{253}+3a_{254}+\\
&\quad a_{127}+a_{128}\\
a_{453} &= \frac{a_{197}-\sqrt{a_{197}^2-4x}}{2}\\
x &= 2a_0-2a_2+a_6-a_3-a_{14}+a_7-\\
&\quad a_9-2a_{23}+4a_{24}+a_{27}+a_{28}-a_{29}+\\
&\quad 2a_{39}-3a_{40}+2a_{42}-a_{44}+a_{45}+2a_{46}+\\
&\quad a_{47}+4a_{48}-a_{49}+a_{50}+a_{51}+a_{52}-\\
&\quad a_{53}+2a_{71}-a_{72}+a_{73}-3a_{74}-2a_{75}+\\
&\quad 2a_{76}-2a_{77}-2a_{78}-a_{79}-2a_{80}-2a_{83}-\\
&\quad a_{84}+a_{85}+a_{86}-3a_{88}+a_{89}-a_{90}-\\
&\quad 2a_{91}+a_{93}+2a_{94}-a_{95}+a_{96}-a_{97}-\\
&\quad a_{98}-a_{99}+2a_{100}-a_{101}+2a_{198}-3a_{199}-\\
&\quad a_{201}+a_{202}-a_{204}+a_{205}+a_{206}-2a_{207}+\\
&\quad a_{208}-2a_{210}+a_{212}-a_{213}-a_{216}-2a_{217}+\\
&\quad a_{218}-2a_{221}-2a_{222}+3a_{227}-a_{228}-a_{229}+\\
&\quad a_{232}-a_{234}-a_{235}+2a_{236}-2a_{237}-a_{239}-\\
&\quad 2a_{240}-2a_{242}-a_{243}-a_{244}+a_{246}-4a_{248}-\\
&\quad a_{250}-2a_{251}-a_{252}-a_{253}+a_{254}+3a_{127}+\\
&\quad a_{128}+a_{129}\\
a_{454} &= \frac{a_{198}-\sqrt{a_{198}^2-4x}}{2}\\
x &= 2a_0-2a_1+a_3-a_4-a_7+a_8-\\
&\quad a_{10}-2a_{24}+4a_{25}+a_{28}+a_{29}-a_{30}+\\
&\quad 2a_{40}-3a_{41}+2a_{43}-a_{45}+a_{46}+2a_{47}+\\
&\quad a_{48}+4a_{49}-a_{50}+a_{51}+a_{52}+a_{53}-\\
&\quad a_{54}+2a_{72}-a_{73}+a_{74}-3a_{75}-2a_{76}+\\
&\quad 2a_{77}-2a_{78}-2a_{79}-a_{80}-2a_{81}-2a_{84}-\\
&\quad a_{85}+a_{86}+a_{87}-3a_{89}+a_{90}-a_{91}-\\
&\quad 2a_{92}+a_{94}+2a_{95}-a_{96}+a_{97}-a_{98}-\\
&\quad a_{99}-a_{100}+2a_{101}-a_{102}+2a_{199}-3a_{200}-\\
&\quad a_{202}+a_{203}-a_{205}+a_{206}+a_{207}-2a_{208}+\\
&\quad a_{209}-2a_{211}+a_{213}-a_{214}-a_{217}-2a_{218}+\\
&\quad a_{219}-2a_{222}-2a_{223}+3a_{228}-a_{229}-a_{230}+\\
&\quad a_{233}-a_{235}-a_{236}+2a_{237}-2a_{238}-a_{240}-\\
&\quad 2a_{241}-2a_{243}-a_{244}-a_{245}+a_{247}-4a_{249}-\\
&\quad a_{251}-2a_{252}-a_{253}-a_{254}+a_{127}+3a_{128}+\\
&\quad a_{129}+a_{130}\\
a_{455} &= \frac{a_{199}-\sqrt{a_{199}^2-4x}}{2}\\
x &= 2a_0-2a_2+a_4-a_5-a_8+a_9-\\
&\quad a_{11}-2a_{25}+4a_{26}+a_{29}+a_{30}-a_{15}+\\
&\quad 2a_{41}-3a_{42}+2a_{44}-a_{46}+a_{47}+2a_{48}+\\
&\quad a_{49}+4a_{50}-a_{51}+a_{52}+a_{53}+a_{54}-\\
&\quad a_{55}+2a_{73}-a_{74}+a_{75}-3a_{76}-2a_{77}+\\
&\quad 2a_{78}-2a_{79}-2a_{80}-a_{81}-2a_{82}-2a_{85}-
\end{aligned}
$$

$$
\begin{aligned}
& a_{86} + a_{87} + a_{88} - 3a_{90} + a_{91} - a_{92} - \\
& 2a_{93} + a_{95} + 2a_{96} - a_{97} + a_{98} - a_{99} - \\
& a_{100} - a_{101} + 2a_{102} - a_{103} + 2a_{200} - 3a_{201} - \\
& a_{203} + a_{204} - a_{206} + a_{207} + a_{208} - 2a_{209} + \\
& a_{210} - 2a_{212} + a_{214} - a_{215} - a_{218} - 2a_{219} + \\
& a_{220} - 2a_{223} - 2a_{224} + 3a_{229} - a_{230} - a_{231} + \\
& a_{234} - a_{236} - a_{237} + 2a_{238} - 2a_{239} - a_{241} - \\
& 2a_{242} - 2a_{244} - a_{245} - a_{246} + a_{248} - 4a_{250} - \\
& a_{252} - 2a_{253} - a_{254} - a_{127} + a_{128} + 3a_{129} + \\
& a_{130} + a_{131}
\end{aligned}
$$

$$
a_{456} = \frac{a_{200} - \sqrt{a_{200}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_0 - 2a_1 + a_5 - a_6 - a_9 + a_{10} - \\
& a_{12} - 2a_{26} + 4a_{27} + a_{30} + a_{15} - a_{16} + \\
& 2a_{42} - 3a_{43} + 2a_{45} - a_{47} + a_{48} + 2a_{49} + \\
& a_{50} + 4a_{51} - a_{52} + a_{53} + a_{54} + a_{55} - \\
& a_{56} + 2a_{74} - a_{75} + a_{76} - 3a_{77} - 2a_{78} + \\
& 2a_{79} - 2a_{80} - 2a_{81} - a_{82} - 2a_{83} - 2a_{86} - \\
& a_{87} + a_{88} + a_{89} - 3a_{91} + a_{92} - a_{93} - \\
& 2a_{94} + a_{96} + 2a_{97} - a_{98} + a_{99} - a_{100} - \\
& a_{101} - a_{102} + 2a_{103} - a_{104} + 2a_{201} - 3a_{202} - \\
& a_{204} + a_{205} - a_{207} + a_{208} + a_{209} - 2a_{210} + \\
& a_{211} - 2a_{213} + a_{215} - a_{216} - a_{219} - 2a_{220} + \\
& a_{221} - 2a_{224} - 2a_{225} + 3a_{230} - a_{231} - a_{232} + \\
& a_{235} - a_{237} - a_{238} + 2a_{239} - 2a_{240} - a_{242} - \\
& 2a_{243} - 2a_{245} - a_{246} - a_{247} + a_{249} - 4a_{251} - \\
& a_{253} - 2a_{254} - a_{127} - a_{128} + a_{129} + 3a_{130} + \\
& a_{131} + a_{132}
\end{aligned}
$$

$$
a_{457} = \frac{a_{201} + \sqrt{a_{201}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_0 - 2a_2 + a_6 - a_3 - a_{10} + a_{11} - \\
& a_{13} - 2a_{27} + 4a_{28} + a_{15} + a_{16} - a_{17} + \\
& 2a_{43} - 3a_{44} + 2a_{46} - a_{48} + a_{49} + 2a_{50} + \\
& a_{51} + 4a_{52} - a_{53} + a_{54} + a_{55} + a_{56} - \\
& a_{57} + 2a_{75} - a_{76} + a_{77} - 3a_{78} - 2a_{79} + \\
& 2a_{80} - 2a_{81} - 2a_{82} - a_{83} - 2a_{84} - 2a_{87} - \\
& a_{88} + a_{89} + a_{90} - 3a_{92} + a_{93} - a_{94} - \\
& 2a_{95} + a_{97} + 2a_{98} - a_{99} + a_{100} - a_{101} - \\
& a_{102} - a_{103} + 2a_{104} - a_{105} + 2a_{202} - 3a_{203} - \\
& a_{205} + a_{206} - a_{208} + a_{209} + a_{210} - 2a_{211} + \\
& a_{212} - 2a_{214} + a_{216} - a_{217} - a_{220} - 2a_{221} + \\
& a_{222} - 2a_{225} - 2a_{226} + 3a_{231} - a_{232} - a_{233} + \\
& a_{236} - a_{238} - a_{239} + 2a_{240} - 2a_{241} - a_{243} - \\
& 2a_{244} - 2a_{246} - a_{247} - a_{248} + a_{250} - 4a_{252} - \\
& a_{254} - 2a_{127} - a_{128} - a_{129} + a_{130} + 3a_{131} + \\
& a_{132} + a_{133}
\end{aligned}
$$

$$
a_{458} = \frac{a_{202} - \sqrt{a_{202}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_0 - 2a_1 + a_3 - a_4 - a_{11} + a_{12} - \\
& a_{14} - 2a_{28} + 4a_{29} + a_{16} + a_{17} - a_{18} + \\
& 2a_{44} - 3a_{45} + 2a_{47} - a_{49} + a_{50} + 2a_{51} + \\
& a_{52} + 4a_{53} - a_{54} + a_{55} + a_{56} + a_{57} - \\
& a_{58} + 2a_{76} - a_{77} + a_{78} - 3a_{79} - 2a_{80} + \\
& 2a_{81} - 2a_{82} - 2a_{83} - a_{84} - 2a_{85} - 2a_{88} - \\
& a_{89} + a_{90} + a_{91} - 3a_{93} + a_{94} - a_{95} - \\
& 2a_{96} + a_{98} + 2a_{99} - a_{100} + a_{101} - a_{102} - \\
& a_{103} - a_{104} + 2a_{105} - a_{106} + 2a_{203} - 3a_{204} - \\
& a_{206} + a_{207} - a_{209} + a_{210} + a_{211} - 2a_{212} + \\
& a_{213} - 2a_{215} + a_{217} - a_{218} - a_{221} - 2a_{222} + \\
& a_{223} - 2a_{226} - 2a_{227} + 3a_{232} - a_{233} - a_{234} + \\
& a_{237} - a_{239} - a_{240} + 2a_{241} - 2a_{242} - a_{244} - \\
& 2a_{245} - 2a_{247} - a_{248} - a_{249} + a_{251} - 4a_{253} - \\
& a_{127} - 2a_{128} - a_{129} - a_{130} + a_{131} + 3a_{132} + \\
& a_{133} + a_{134}
\end{aligned}
$$

$$
a_{459} = \frac{a_{203} - \sqrt{a_{203}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_0 - 2a_2 + a_4 - a_5 - a_{12} + a_{13} - \\
& a_7 - 2a_{29} + 4a_{30} + a_{17} + a_{18} - a_{19} + \\
& 2a_{45} - 3a_{46} + 2a_{48} - a_{50} + a_{51} + 2a_{52} + \\
& a_{53} + 4a_{54} - a_{55} + a_{56} + a_{57} + a_{58} - \\
& a_{59} + 2a_{77} - a_{78} + a_{79} - 3a_{80} - 2a_{81} + \\
& 2a_{82} - 2a_{83} - 2a_{84} - a_{85} - 2a_{86} - 2a_{89} - \\
& a_{90} + a_{91} + a_{92} - 3a_{94} + a_{95} - a_{96} - \\
& 2a_{97} + a_{99} + 2a_{100} - a_{101} + a_{102} - a_{103} - \\
& a_{104} - a_{105} + 2a_{106} - a_{107} + 2a_{204} - 3a_{205} - \\
& a_{207} + a_{208} - a_{210} + a_{211} + a_{212} - 2a_{213} + \\
& a_{214} - 2a_{216} + a_{218} - a_{219} - a_{222} - 2a_{223} + \\
& a_{224} - 2a_{227} - 2a_{228} + 3a_{233} - a_{234} - a_{235} + \\
& a_{238} - a_{240} - a_{241} + 2a_{242} - 2a_{243} - a_{245} - \\
& 2a_{246} - 2a_{248} - a_{249} - a_{250} + a_{252} - 4a_{254} - \\
& a_{128} - 2a_{129} - a_{130} - a_{131} + a_{132} + 3a_{133} + \\
& a_{134} + a_{135}
\end{aligned}
$$

$$
a_{460} = \frac{a_{204} - \sqrt{a_{204}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_0 - 2a_1 + a_5 - a_6 - a_{13} + a_{14} - \\
& a_8 - 2a_{30} + 4a_{15} + a_{18} + a_{19} - a_{20} + \\
& 2a_{46} - 3a_{47} + 2a_{49} - a_{51} + a_{52} + 2a_{53} + \\
& a_{54} + 4a_{55} - a_{56} + a_{57} + a_{58} + a_{59} - \\
& a_{60} + 2a_{78} - a_{79} + a_{80} - 3a_{81} - 2a_{82} + \\
& 2a_{83} - 2a_{84} - 2a_{85} - a_{86} - 2a_{87} - 2a_{90} - \\
& a_{91} + a_{92} + a_{93} - 3a_{95} + a_{96} - a_{97} - \\
& 2a_{98} + a_{100} + 2a_{101} - a_{102} + a_{103} - a_{104} - \\
& a_{105} - a_{106} + 2a_{107} - a_{108} + 2a_{205} - 3a_{206} - \\
& a_{208} + a_{209} - a_{211} + a_{212} + a_{213} - 2a_{214} + \\
& a_{215} - 2a_{217} + a_{219} - a_{220} - a_{223} - 2a_{224} + \\
& a_{225} - 2a_{228} - 2a_{229} + 3a_{234} - a_{235} - a_{236} + \\
& a_{239} - a_{241} - a_{242} + 2a_{243} - 2a_{244} - a_{246} -
\end{aligned}
$$

$$
\begin{aligned}
& 2a_{247} - 2a_{249} - a_{250} - a_{251} + a_{253} - 4a_{127} - \\
& a_{129} - 2a_{130} - a_{131} - a_{132} + a_{133} + 3a_{134} + \\
& a_{135} + a_{136} \\
a_{461} &= \frac{a_{205} + \sqrt{a_{205}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_2 + a_6 - a_3 - a_{14} + a_7 - \\
& a_9 - 2a_{15} + 4a_{16} + a_{19} + a_{20} - a_{21} + \\
& 2a_{47} - 3a_{48} + 2a_{50} - a_{52} + a_{53} + 2a_{54} + \\
& a_{55} + 4a_{56} - a_{57} + a_{58} + a_{59} + a_{60} - \\
& a_{61} + 2a_{79} - a_{80} + a_{81} - 3a_{82} - 2a_{83} + \\
& 2a_{84} - 2a_{85} - 2a_{86} - a_{87} - 2a_{88} - 2a_{91} - \\
& a_{92} + a_{93} + a_{94} - 3a_{96} + a_{97} - a_{98} - \\
& 2a_{99} + a_{101} + 2a_{102} - a_{103} + a_{104} - a_{105} - \\
& a_{106} - a_{107} + 2a_{108} - a_{109} + 2a_{206} - 3a_{207} - \\
& a_{209} + a_{210} - a_{212} + a_{213} + a_{214} - 2a_{215} + \\
& a_{216} - 2a_{218} + a_{220} - a_{221} - a_{224} - 2a_{225} + \\
& a_{226} - 2a_{229} - 2a_{230} + 3a_{235} - a_{236} - a_{237} + \\
& a_{240} - a_{242} - a_{243} + 2a_{244} - 2a_{245} - a_{247} - \\
& 2a_{248} - 2a_{250} - a_{251} - a_{252} + a_{254} - 4a_{128} - \\
& a_{130} - 2a_{131} - a_{132} - a_{133} + a_{134} + 3a_{135} + \\
& a_{136} + a_{137} \\
a_{462} &= \frac{a_{206} + \sqrt{a_{206}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_1 + a_3 - a_4 - a_7 + a_8 - \\
& a_{10} - 2a_{16} + 4a_{17} + a_{20} + a_{21} - a_{22} + \\
& 2a_{48} - 3a_{49} + 2a_{51} - a_{53} + a_{54} + 2a_{55} + \\
& a_{56} + 4a_{57} - a_{58} + a_{59} + a_{60} + a_{61} - \\
& a_{62} + 2a_{80} - a_{81} + a_{82} - 3a_{83} - 2a_{84} + \\
& 2a_{85} - 2a_{86} - 2a_{87} - a_{88} - 2a_{89} - 2a_{92} - \\
& a_{93} + a_{94} + a_{95} - 3a_{97} + a_{98} - a_{99} - \\
& 2a_{100} + a_{102} + 2a_{103} - a_{104} + a_{105} - a_{106} - \\
& a_{107} - a_{108} + 2a_{109} - a_{110} + 2a_{207} - 3a_{208} - \\
& a_{210} + a_{211} - a_{213} + a_{214} + a_{215} - 2a_{216} + \\
& a_{217} - 2a_{219} + a_{221} - a_{222} - a_{225} - 2a_{226} + \\
& a_{227} - 2a_{230} - 2a_{231} + 3a_{236} - a_{237} - a_{238} + \\
& a_{241} - a_{243} - a_{244} + 2a_{245} - 2a_{246} - a_{248} - \\
& 2a_{249} - 2a_{251} - a_{252} - a_{253} + a_{127} - 4a_{129} - \\
& a_{131} - 2a_{132} - a_{133} - a_{134} + a_{135} + 3a_{136} + \\
& a_{137} + a_{138} \\
a_{463} &= \frac{a_{207} + \sqrt{a_{207}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_2 + a_4 - a_5 - a_8 + a_9 - \\
& a_{11} - 2a_{17} + 4a_{18} + a_{21} + a_{22} - a_{23} + \\
& 2a_{49} - 3a_{50} + 2a_{52} - a_{54} + a_{55} + 2a_{56} + \\
& a_{57} + 4a_{58} - a_{59} + a_{60} + a_{61} + a_{62} - \\
& a_{31} + 2a_{81} - a_{82} + a_{83} - 3a_{84} - 2a_{85} + \\
& 2a_{86} - 2a_{87} - 2a_{88} - a_{89} - 2a_{90} - 2a_{93} - \\
& a_{94} + a_{95} + a_{96} - 3a_{98} + a_{99} - a_{100} - \\
& 2a_{101} + a_{103} + 2a_{104} - a_{105} + a_{106} - a_{107} - \\
& a_{108} - a_{109} + 2a_{110} - a_{111} + 2a_{208} - 3a_{209} - \\
& a_{211} + a_{212} - a_{214} + a_{215} + a_{216} - 2a_{217} + \\
& a_{218} - 2a_{220} + a_{222} - a_{223} - a_{226} - 2a_{227} + \\
& a_{228} - 2a_{231} - 2a_{232} + 3a_{237} - a_{238} - a_{239} + \\
& a_{242} - a_{244} - a_{245} + 2a_{246} - 2a_{247} - a_{249} - \\
& 2a_{250} - 2a_{252} - a_{253} - a_{254} + a_{128} - 4a_{130} - \\
& a_{132} - 2a_{133} - a_{134} - a_{135} + a_{136} + 3a_{137} + \\
& a_{138} + a_{139} \\
a_{464} &= \frac{a_{208} - \sqrt{a_{208}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_1 + a_5 - a_6 - a_9 + a_{10} - \\
& a_{12} - 2a_{18} + 4a_{19} + a_{22} + a_{23} - a_{24} + \\
& 2a_{50} - 3a_{51} + 2a_{53} - a_{55} + a_{56} + 2a_{57} + \\
& a_{58} + 4a_{59} - a_{60} + a_{61} + a_{62} + a_{31} - \\
& a_{32} + 2a_{82} - a_{83} + a_{84} - 3a_{85} - 2a_{86} + \\
& 2a_{87} - 2a_{88} - 2a_{89} - a_{90} - 2a_{91} - 2a_{94} - \\
& a_{95} + a_{96} + a_{97} - 3a_{99} + a_{100} - a_{101} - \\
& 2a_{102} + a_{104} + 2a_{105} - a_{106} + a_{107} - a_{108} - \\
& a_{109} - a_{110} + 2a_{111} - a_{112} + 2a_{209} - 3a_{210} - \\
& a_{212} + a_{213} - a_{215} + a_{216} + a_{217} - 2a_{218} + \\
& a_{219} - 2a_{221} + a_{223} - a_{224} - a_{227} - 2a_{228} + \\
& a_{229} - 2a_{232} - 2a_{233} + 3a_{238} - a_{239} - a_{240} + \\
& a_{243} - a_{245} - a_{246} + 2a_{247} - 2a_{248} - a_{250} - \\
& 2a_{251} - 2a_{253} - a_{254} - a_{127} + a_{129} - 4a_{131} - \\
& a_{133} - 2a_{134} - a_{135} - a_{136} + a_{137} + 3a_{138} + \\
& a_{139} + a_{140} \\
a_{465} &= \frac{a_{209} - \sqrt{a_{209}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_2 + a_6 - a_3 - a_{10} + a_{11} - \\
& a_{13} - 2a_{19} + 4a_{20} + a_{23} + a_{24} - a_{25} + \\
& 2a_{51} - 3a_{52} + 2a_{54} - a_{56} + a_{57} + 2a_{58} + \\
& a_{59} + 4a_{60} - a_{61} + a_{62} + a_{31} + a_{32} - \\
& a_{33} + 2a_{83} - a_{84} + a_{85} - 3a_{86} - 2a_{87} + \\
& 2a_{88} - 2a_{89} - 2a_{90} - a_{91} - 2a_{92} - 2a_{95} - \\
& a_{96} + a_{97} + a_{98} - 3a_{100} + a_{101} - a_{102} - \\
& 2a_{103} + a_{105} + 2a_{106} - a_{107} + a_{108} - a_{109} - \\
& a_{110} - a_{111} + 2a_{112} - a_{113} + 2a_{210} - 3a_{211} - \\
& a_{213} + a_{214} - a_{216} + a_{217} + a_{218} - 2a_{219} + \\
& a_{220} - 2a_{222} + a_{224} - a_{225} - a_{228} - 2a_{229} + \\
& a_{230} - 2a_{233} - 2a_{234} + 3a_{239} - a_{240} - a_{241} + \\
& a_{244} - a_{246} - a_{247} + 2a_{248} - 2a_{249} - a_{251} - \\
& 2a_{252} - 2a_{254} - a_{127} - a_{128} + a_{130} - 4a_{132} - \\
& a_{134} - 2a_{135} - a_{136} - a_{137} + a_{138} + 3a_{139} + \\
& a_{140} + a_{141} \\
a_{466} &= \frac{a_{210} + \sqrt{a_{210}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_1 + a_3 - a_4 - a_{11} + a_{12} - \\
& a_{14} - 2a_{20} + 4a_{21} + a_{24} + a_{25} - a_{26} + \\
& 2a_{52} - 3a_{53} + 2a_{55} - a_{57} + a_{58} + 2a_{59} +
\end{aligned}
$$

$$
\begin{aligned}
& a_{60} + 4a_{61} - a_{62} + a_{31} + a_{32} + a_{33} - \\
& a_{34} + 2a_{84} - a_{85} + a_{86} - 3a_{87} - 2a_{88} + \\
& 2a_{89} - 2a_{90} - 2a_{91} - a_{92} - 2a_{93} - 2a_{96} - \\
& a_{97} + a_{98} + a_{99} - 3a_{101} + a_{102} - a_{103} - \\
& 2a_{104} + a_{106} + 2a_{107} - a_{108} + a_{109} - a_{110} - \\
& a_{111} - a_{112} + 2a_{113} - a_{114} + 2a_{211} - 3a_{212} - \\
& a_{214} + a_{215} - a_{217} + a_{218} + a_{219} - 2a_{220} + \\
& a_{221} - 2a_{223} + a_{225} - a_{226} - a_{229} - 2a_{230} + \\
& a_{231} - 2a_{234} - 2a_{235} + 3a_{240} - a_{241} - a_{242} + \\
& a_{245} - a_{247} - a_{248} + 2a_{249} - 2a_{250} - a_{252} - \\
& 2a_{253} - 2a_{127} - a_{128} - a_{129} + a_{131} - 4a_{133} - \\
& a_{135} - 2a_{136} - a_{137} - a_{138} + a_{139} + 3a_{140} + \\
& a_{141} + a_{142}
\end{aligned}
$$

$$
a_{467} = \frac{a_{211} - \sqrt{a_{211}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_0 - 2a_2 + a_4 - a_5 - a_{12} + a_{13} - \\
& a_7 - 2a_{21} + 4a_{22} + a_{25} + a_{26} - a_{27} + \\
& 2a_{53} - 3a_{54} + 2a_{56} - a_{58} + a_{59} + 2a_{60} + \\
& a_{61} + 4a_{62} - a_{31} + a_{32} + a_{33} + a_{34} - \\
& a_{35} + 2a_{85} - a_{86} + a_{87} - 3a_{88} - 2a_{89} + \\
& 2a_{90} - 2a_{91} - 2a_{92} - a_{93} - 2a_{94} - 2a_{97} - \\
& a_{98} + a_{99} + a_{100} - 3a_{102} + a_{103} - a_{104} - \\
& 2a_{105} + a_{107} + 2a_{108} - a_{109} + a_{110} - a_{111} - \\
& a_{112} - a_{113} + 2a_{114} - a_{115} + 2a_{212} - 3a_{213} - \\
& a_{215} + a_{216} - a_{218} + a_{219} + a_{220} - 2a_{221} + \\
& a_{222} - 2a_{224} + a_{226} - a_{227} - a_{230} - 2a_{231} + \\
& a_{232} - 2a_{235} - 2a_{236} + 3a_{241} - a_{242} - a_{243} + \\
& a_{246} - a_{248} - a_{249} + 2a_{250} - 2a_{251} - a_{253} - \\
& 2a_{254} - 2a_{128} - a_{129} - a_{130} + a_{132} - 4a_{134} - \\
& a_{136} - 2a_{137} - a_{138} - a_{139} + a_{140} + 3a_{141} + \\
& a_{142} + a_{143}
\end{aligned}
$$

$$
a_{468} = \frac{a_{212} + \sqrt{a_{212}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_0 - 2a_1 + a_5 - a_6 - a_{13} + a_{14} - \\
& a_8 - 2a_{22} + 4a_{23} + a_{26} + a_{27} - a_{28} + \\
& 2a_{54} - 3a_{55} + 2a_{57} - a_{59} + a_{60} + 2a_{61} + \\
& a_{62} + 4a_{31} - a_{32} + a_{33} + a_{34} + a_{35} - \\
& a_{36} + 2a_{86} - a_{87} + a_{88} - 3a_{89} - 2a_{90} + \\
& 2a_{91} - 2a_{92} - 2a_{93} - a_{94} - 2a_{95} - 2a_{98} - \\
& a_{99} + a_{100} + a_{101} - 3a_{103} + a_{104} - a_{105} - \\
& 2a_{106} + a_{108} + 2a_{109} - a_{110} + a_{111} - a_{112} - \\
& a_{113} - a_{114} + 2a_{115} - a_{116} + 2a_{213} - 3a_{214} - \\
& a_{216} + a_{217} - a_{219} + a_{220} + a_{221} - 2a_{222} + \\
& a_{223} - 2a_{225} + a_{227} - a_{228} - a_{231} - 2a_{232} + \\
& a_{233} - 2a_{236} - 2a_{237} + 3a_{242} - a_{243} - a_{244} + \\
& a_{247} - a_{249} - a_{250} + 2a_{251} - 2a_{252} - a_{254} - \\
& 2a_{127} - 2a_{129} - a_{130} - a_{131} + a_{133} - 4a_{135} - \\
& a_{137} - 2a_{138} - a_{139} - a_{140} + a_{141} + 3a_{142} + \\
& a_{143} + a_{144}
\end{aligned}
$$

$$
a_{469} = \frac{a_{213} + \sqrt{a_{213}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_0 - 2a_2 + a_6 - a_3 - a_{14} + a_7 - \\
& a_9 - 2a_{23} + 4a_{24} + a_{27} + a_{28} - a_{29} + \\
& 2a_{55} - 3a_{56} + 2a_{58} - a_{60} + a_{61} + 2a_{62} + \\
& a_{31} + 4a_{32} - a_{33} + a_{34} + a_{35} + a_{36} - \\
& a_{37} + 2a_{87} - a_{88} + a_{89} - 3a_{90} - 2a_{91} + \\
& 2a_{92} - 2a_{93} - 2a_{94} - a_{95} - 2a_{96} - 2a_{99} - \\
& a_{100} + a_{101} + a_{102} - 3a_{104} + a_{105} - a_{106} - \\
& 2a_{107} + a_{109} + 2a_{110} - a_{111} + a_{112} - a_{113} - \\
& a_{114} - a_{115} + 2a_{116} - a_{117} + 2a_{214} - 3a_{215} - \\
& a_{217} + a_{218} - a_{220} + a_{221} + a_{222} - 2a_{223} + \\
& a_{224} - 2a_{226} + a_{228} - a_{229} - a_{232} - 2a_{233} + \\
& a_{234} - 2a_{237} - 2a_{238} + 3a_{243} - a_{244} - a_{245} + \\
& a_{248} - a_{250} - a_{251} + 2a_{252} - 2a_{253} - a_{127} - \\
& 2a_{128} - 2a_{130} - a_{131} - a_{132} + a_{134} - 4a_{136} - \\
& a_{138} - 2a_{139} - a_{140} - a_{141} + a_{142} + 3a_{143} + \\
& a_{144} + a_{145}
\end{aligned}
$$

$$
a_{470} = \frac{a_{214} + \sqrt{a_{214}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_0 - 2a_1 + a_3 - a_4 - a_7 + a_8 - \\
& a_{10} - 2a_{24} + 4a_{25} + a_{28} + a_{29} - a_{30} + \\
& 2a_{56} - 3a_{57} + 2a_{59} - a_{61} + a_{62} + 2a_{31} + \\
& a_{32} + 4a_{33} - a_{34} + a_{35} + a_{36} + a_{37} - \\
& a_{38} + 2a_{88} - a_{89} + a_{90} - 3a_{91} - 2a_{92} + \\
& 2a_{93} - 2a_{94} - 2a_{95} - a_{96} - 2a_{97} - 2a_{100} - \\
& a_{101} + a_{102} + a_{103} - 3a_{105} + a_{106} - a_{107} - \\
& 2a_{108} + a_{110} + 2a_{111} - a_{112} + a_{113} - a_{114} - \\
& a_{115} - a_{116} + 2a_{117} - a_{118} + 2a_{215} - 3a_{216} - \\
& a_{218} + a_{219} - a_{221} + a_{222} + a_{223} - 2a_{224} + \\
& a_{225} - 2a_{227} + a_{229} - a_{230} - a_{233} - 2a_{234} + \\
& a_{235} - 2a_{238} - 2a_{239} + 3a_{244} - a_{245} - a_{246} + \\
& a_{249} - a_{251} - a_{252} + 2a_{253} - 2a_{254} - a_{128} - \\
& 2a_{129} - 2a_{131} - a_{132} - a_{133} + a_{135} - 4a_{137} - \\
& a_{139} - 2a_{140} - a_{141} - a_{142} + a_{143} + 3a_{144} + \\
& a_{145} + a_{146}
\end{aligned}
$$

$$
a_{471} = \frac{a_{215} + \sqrt{a_{215}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_0 - 2a_2 + a_4 - a_5 - a_8 + a_9 - \\
& a_{11} - 2a_{25} + 4a_{26} + a_{29} + a_{30} - a_{15} + \\
& 2a_{57} - 3a_{58} + 2a_{60} - a_{62} + a_{31} + 2a_{32} + \\
& a_{33} + 4a_{34} - a_{35} + a_{36} + a_{37} + a_{38} - \\
& a_{39} + 2a_{89} - a_{90} + a_{91} - 3a_{92} - 2a_{93} + \\
& 2a_{94} - 2a_{95} - 2a_{96} - a_{97} - 2a_{98} - 2a_{101} - \\
& a_{102} + a_{103} + a_{104} - 3a_{106} + a_{107} - a_{108} - \\
& 2a_{109} + a_{111} + 2a_{112} - a_{113} + a_{114} - a_{115} - \\
& a_{116} - a_{117} + 2a_{118} - a_{119} + 2a_{216} - 3a_{217} - \\
& a_{219} + a_{220} - a_{222} + a_{223} + a_{224} - 2a_{225} +
\end{aligned}
$$

$$
\begin{aligned}
& a_{226} - 2a_{228} + a_{230} - a_{231} - a_{234} - 2a_{235} + \\
& a_{236} - 2a_{239} - 2a_{240} + 3a_{245} - a_{246} - a_{247} + \\
& a_{250} - a_{252} - a_{253} + 2a_{254} - 2a_{127} - a_{129} - \\
& 2a_{130} - 2a_{132} - a_{133} - a_{134} + a_{136} - 4a_{138} - \\
& a_{140} - 2a_{141} - a_{142} - a_{143} + a_{144} + 3a_{145} + \\
& a_{146} + a_{147}
\end{aligned}
$$

$$
a_{472} = \frac{a_{216} + \sqrt{a_{216}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_0 - 2a_1 + a_5 - a_6 - a_9 + a_{10} - \\
& a_{12} - 2a_{26} + 4a_{27} + a_{30} + a_{15} - a_{16} + \\
& 2a_{58} - 3a_{59} + 2a_{61} - a_{31} + a_{32} + 2a_{33} + \\
& a_{34} + 4a_{35} - a_{36} + a_{37} + a_{38} + a_{39} - \\
& a_{40} + 2a_{90} - a_{91} + a_{92} - 3a_{93} - 2a_{94} + \\
& 2a_{95} - 2a_{96} - 2a_{97} - a_{98} - 2a_{99} - 2a_{102} - \\
& a_{103} + a_{104} + a_{105} - 3a_{107} + a_{108} - a_{109} - \\
& 2a_{110} + a_{112} + 2a_{113} - a_{114} + a_{115} - a_{116} - \\
& a_{117} - a_{118} + 2a_{119} - a_{120} + 2a_{217} - 3a_{218} - \\
& a_{220} + a_{221} - a_{223} + a_{224} + a_{225} - 2a_{226} + \\
& a_{227} - 2a_{229} + a_{231} - a_{232} - a_{235} - 2a_{236} + \\
& a_{237} - 2a_{240} - 2a_{241} + 3a_{246} - a_{247} - a_{248} + \\
& a_{251} - a_{253} - a_{254} + 2a_{127} - 2a_{128} - a_{130} - \\
& 2a_{131} - 2a_{133} - a_{134} - a_{135} + a_{137} - 4a_{139} - \\
& a_{141} - 2a_{142} - a_{143} - a_{144} + a_{145} + 3a_{146} + \\
& a_{147} + a_{148}
\end{aligned}
$$

$$
a_{473} = \frac{a_{217} - \sqrt{a_{217}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_0 - 2a_2 + a_6 - a_3 - a_{10} + a_{11} - \\
& a_{13} - 2a_{27} + 4a_{28} + a_{15} + a_{16} - a_{17} + \\
& 2a_{59} - 3a_{60} + 2a_{62} - a_{32} + a_{33} + 2a_{34} + \\
& a_{35} + 4a_{36} - a_{37} + a_{38} + a_{39} + a_{40} - \\
& a_{41} + 2a_{91} - a_{92} + a_{93} - 3a_{94} - 2a_{95} + \\
& 2a_{96} - 2a_{97} - 2a_{98} - a_{99} - 2a_{100} - 2a_{103} - \\
& a_{104} + a_{105} + a_{106} - 3a_{108} + a_{109} - a_{110} - \\
& 2a_{111} + a_{113} + 2a_{114} - a_{115} + a_{116} - a_{117} - \\
& a_{118} - a_{119} + 2a_{120} - a_{121} + 2a_{218} - 3a_{219} - \\
& a_{221} + a_{222} - a_{224} + a_{225} + a_{226} - 2a_{227} + \\
& a_{228} - 2a_{230} + a_{232} - a_{233} - a_{236} - 2a_{237} + \\
& a_{238} - 2a_{241} - 2a_{242} + 3a_{247} - a_{248} - a_{249} + \\
& a_{252} - a_{254} - a_{127} + 2a_{128} - 2a_{129} - a_{131} - \\
& 2a_{132} - 2a_{134} - a_{135} - a_{136} + a_{138} - 4a_{140} - \\
& a_{142} - 2a_{143} - a_{144} - a_{145} + a_{146} + 3a_{147} + \\
& a_{148} + a_{149}
\end{aligned}
$$

$$
a_{474} = \frac{a_{218} - \sqrt{a_{218}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_0 - 2a_1 + a_3 - a_4 - a_{11} + a_{12} - \\
& a_{14} - 2a_{28} + 4a_{29} + a_{16} + a_{17} - a_{18} + \\
& 2a_{60} - 3a_{61} + 2a_{31} - a_{33} + a_{34} + 2a_{35} + \\
& a_{36} + 4a_{37} - a_{38} + a_{39} + a_{40} + a_{41} - \\
& a_{42} + 2a_{92} - a_{93} + a_{94} - 3a_{95} - 2a_{96} + \\
& 2a_{97} - 2a_{98} - 2a_{99} - a_{100} - 2a_{101} - 2a_{104} - \\
& a_{105} + a_{106} + a_{107} - 3a_{109} + a_{110} - a_{111} - \\
& 2a_{112} + a_{114} + 2a_{115} - a_{116} + a_{117} - a_{118} - \\
& a_{119} - a_{120} + 2a_{121} - a_{122} + 2a_{219} - 3a_{220} - \\
& a_{222} + a_{223} - a_{225} + a_{226} + a_{227} - 2a_{228} + \\
& a_{229} - 2a_{231} + a_{233} - a_{234} - a_{237} - 2a_{238} + \\
& a_{239} - 2a_{242} - 2a_{243} + 3a_{248} - a_{249} - a_{250} + \\
& a_{253} - a_{127} - a_{128} + 2a_{129} - 2a_{130} - a_{132} - \\
& 2a_{133} - 2a_{135} - a_{136} - a_{137} + a_{139} - 4a_{141} - \\
& a_{143} - 2a_{144} - a_{145} - a_{146} + a_{147} + 3a_{148} + \\
& a_{149} + a_{150}
\end{aligned}
$$

$$
a_{475} = \frac{a_{219} - \sqrt{a_{219}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_0 - 2a_2 + a_4 - a_5 - a_{12} + a_{13} - \\
& a_7 - 2a_{29} + 4a_{30} + a_{17} + a_{18} - a_{19} + \\
& 2a_{61} - 3a_{62} + 2a_{32} - a_{34} + a_{35} + 2a_{36} + \\
& a_{37} + 4a_{38} - a_{39} + a_{40} + a_{41} + a_{42} - \\
& a_{43} + 2a_{93} - a_{94} + a_{95} - 3a_{96} - 2a_{97} + \\
& 2a_{98} - 2a_{99} - 2a_{100} - a_{101} - 2a_{102} - 2a_{105} - \\
& a_{106} + a_{107} + a_{108} - 3a_{110} + a_{111} - a_{112} - \\
& 2a_{113} + a_{115} + 2a_{116} - a_{117} + a_{118} - a_{119} - \\
& a_{120} - a_{121} + 2a_{122} - a_{123} + 2a_{220} - 3a_{221} - \\
& a_{223} + a_{224} - a_{226} + a_{227} + a_{228} - 2a_{229} + \\
& a_{230} - 2a_{232} + a_{234} - a_{235} - a_{238} - 2a_{239} + \\
& a_{240} - 2a_{243} - 2a_{244} + 3a_{249} - a_{250} - a_{251} + \\
& a_{254} - a_{128} - a_{129} + 2a_{130} - 2a_{131} - a_{133} - \\
& 2a_{134} - 2a_{136} - a_{137} - a_{138} + a_{140} - 4a_{142} - \\
& a_{144} - 2a_{145} - a_{146} - a_{147} + a_{148} + 3a_{149} + \\
& a_{150} + a_{151}
\end{aligned}
$$

$$
a_{476} = \frac{a_{220} + \sqrt{a_{220}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_0 - 2a_1 + a_5 - a_6 - a_{13} + a_{14} - \\
& a_8 - 2a_{30} + 4a_{15} + a_{18} + a_{19} - a_{20} + \\
& 2a_{62} - 3a_{31} + 2a_{33} - a_{35} + a_{36} + 2a_{37} + \\
& a_{38} + 4a_{39} - a_{40} + a_{41} + a_{42} + a_{43} - \\
& a_{44} + 2a_{94} - a_{95} + a_{96} - 3a_{97} - 2a_{98} + \\
& 2a_{99} - 2a_{100} - 2a_{101} - a_{102} - 2a_{103} - 2a_{106} - \\
& a_{107} + a_{108} + a_{109} - 3a_{111} + a_{112} - a_{113} - \\
& 2a_{114} + a_{116} + 2a_{117} - a_{118} + a_{119} - a_{120} - \\
& a_{121} - a_{122} + 2a_{123} - a_{124} + 2a_{221} - 3a_{222} - \\
& a_{224} + a_{225} - a_{227} + a_{228} + a_{229} - 2a_{230} + \\
& a_{231} - 2a_{233} + a_{235} - a_{236} - a_{239} - 2a_{240} + \\
& a_{241} - 2a_{244} - 2a_{245} + 3a_{250} - a_{251} - a_{252} + \\
& a_{127} - a_{129} - a_{130} + 2a_{131} - 2a_{132} - a_{134} - \\
& 2a_{135} - 2a_{137} - a_{138} - a_{139} + a_{141} - 4a_{143} - \\
& a_{145} - 2a_{146} - a_{147} - a_{148} + a_{149} + 3a_{150} + \\
& a_{151} + a_{152}
\end{aligned}
$$

$$
a_{477} = \frac{a_{221} + \sqrt{a_{221}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x &= 2a_0 - 2a_2 + a_6 - a_3 - a_{14} + a_7 - \\
&\quad a_9 - 2a_{15} + 4a_{16} + a_{19} + a_{20} - a_{21} + \\
&\quad 2a_{31} - 3a_{32} + 2a_{34} - a_{36} + a_{37} + 2a_{38} + \\
&\quad a_{39} + 4a_{40} - a_{41} + a_{42} + a_{43} + a_{44} - \\
&\quad a_{45} + 2a_{95} - a_{96} + a_{97} - 3a_{98} - 2a_{99} + \\
&\quad 2a_{100} - 2a_{101} - 2a_{102} - a_{103} - 2a_{104} - 2a_{107} - \\
&\quad a_{108} + a_{109} + a_{110} - 3a_{112} + a_{113} - a_{114} - \\
&\quad 2a_{115} + a_{117} + 2a_{118} - a_{119} + a_{120} - a_{121} - \\
&\quad a_{122} - a_{123} + 2a_{124} - a_{125} + 2a_{222} - 3a_{223} - \\
&\quad a_{225} + a_{226} - a_{228} + a_{229} + a_{230} - 2a_{231} + \\
&\quad a_{232} - 2a_{234} + a_{236} - a_{237} - a_{240} - 2a_{241} + \\
&\quad a_{242} - 2a_{245} - 2a_{246} + 3a_{251} - a_{252} - a_{253} + \\
&\quad a_{128} - a_{130} - a_{131} + 2a_{132} - 2a_{133} - a_{135} - \\
&\quad 2a_{136} - 2a_{138} - a_{139} - a_{140} + a_{142} - 4a_{144} - \\
&\quad a_{146} - 2a_{147} - a_{148} - a_{149} + a_{150} + 3a_{151} + \\
&\quad a_{152} + a_{153}
\end{aligned}
$$

$$
a_{478} = \frac{a_{222} + \sqrt{a_{222}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x &= 2a_0 - 2a_1 + a_3 - a_4 - a_7 + a_8 - \\
&\quad a_{10} - 2a_{16} + 4a_{17} + a_{20} + a_{21} - a_{22} + \\
&\quad 2a_{32} - 3a_{33} + 2a_{35} - a_{37} + a_{38} + 2a_{39} + \\
&\quad a_{40} + 4a_{41} - a_{42} + a_{43} + a_{44} + a_{45} - \\
&\quad a_{46} + 2a_{96} - a_{97} + a_{98} - 3a_{99} - 2a_{100} + \\
&\quad 2a_{101} - 2a_{102} - 2a_{103} - a_{104} - 2a_{105} - 2a_{108} - \\
&\quad a_{109} + a_{110} + a_{111} - 3a_{113} + a_{114} - a_{115} - \\
&\quad 2a_{116} + a_{118} + 2a_{119} - a_{120} + a_{121} - a_{122} - \\
&\quad a_{123} - a_{124} + 2a_{125} - a_{126} + 2a_{223} - 3a_{224} - \\
&\quad a_{226} + a_{227} - a_{229} + a_{230} + a_{231} - 2a_{232} + \\
&\quad a_{233} - 2a_{235} + a_{237} - a_{238} - a_{241} - 2a_{242} + \\
&\quad a_{243} - 2a_{246} - 2a_{247} + 3a_{252} - a_{253} - a_{254} + \\
&\quad a_{129} - a_{131} - a_{132} + 2a_{133} - 2a_{134} - a_{136} - \\
&\quad 2a_{137} - 2a_{139} - a_{140} - a_{141} + a_{143} - 4a_{145} - \\
&\quad a_{147} - 2a_{148} - a_{149} - a_{150} + a_{151} + 3a_{152} + \\
&\quad a_{153} + a_{154}
\end{aligned}
$$

$$
a_{479} = \frac{a_{223} + \sqrt{a_{223}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x &= 2a_0 - 2a_2 + a_4 - a_5 - a_8 + a_9 - \\
&\quad a_{11} - 2a_{17} + 4a_{18} + a_{21} + a_{22} - a_{23} + \\
&\quad 2a_{33} - 3a_{34} + 2a_{36} - a_{38} + a_{39} + 2a_{40} + \\
&\quad a_{41} + 4a_{42} - a_{43} + a_{44} + a_{45} + a_{46} - \\
&\quad a_{47} + 2a_{97} - a_{98} + a_{99} - 3a_{100} - 2a_{101} + \\
&\quad 2a_{102} - 2a_{103} - 2a_{104} - a_{105} - 2a_{106} - 2a_{109} - \\
&\quad a_{110} + a_{111} + a_{112} - 3a_{114} + a_{115} - a_{116} - \\
&\quad 2a_{117} + a_{119} + 2a_{120} - a_{121} + a_{122} - a_{123} - \\
&\quad a_{124} - a_{125} + 2a_{126} - a_{63} + 2a_{224} - 3a_{225} - \\
&\quad a_{227} + a_{228} - a_{230} + a_{231} + a_{232} - 2a_{233} + \\
&\quad a_{234} - 2a_{236} + a_{238} - a_{239} - a_{242} - 2a_{243} + \\
&\quad a_{244} - 2a_{247} - 2a_{248} + 3a_{253} - a_{254} - a_{127} + \\
&\quad a_{130} - a_{132} - a_{133} + 2a_{134} - 2a_{135} - a_{137} - \\
&\quad 2a_{138} - 2a_{140} - a_{141} - a_{142} + a_{144} - 4a_{146} - \\
&\quad a_{148} - 2a_{149} - a_{150} - a_{151} + a_{152} + 3a_{153} + \\
&\quad a_{154} + a_{155}
\end{aligned}
$$

$$
a_{480} = \frac{a_{224} - \sqrt{a_{224}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x &= 2a_0 - 2a_1 + a_5 - a_6 - a_9 + a_{10} - \\
&\quad a_{12} - 2a_{18} + 4a_{19} + a_{22} + a_{23} - a_{24} + \\
&\quad 2a_{34} - 3a_{35} + 2a_{37} - a_{39} + a_{40} + 2a_{41} + \\
&\quad a_{42} + 4a_{43} - a_{44} + a_{45} + a_{46} + a_{47} - \\
&\quad a_{48} + 2a_{98} - a_{99} + a_{100} - 3a_{101} - 2a_{102} + \\
&\quad 2a_{103} - 2a_{104} - 2a_{105} - a_{106} - 2a_{107} - 2a_{110} - \\
&\quad a_{111} + a_{112} + a_{113} - 3a_{115} + a_{116} - a_{117} - \\
&\quad 2a_{118} + a_{120} + 2a_{121} - a_{122} + a_{123} - a_{124} - \\
&\quad a_{125} - a_{126} + 2a_{63} - a_{64} + 2a_{225} - 3a_{226} - \\
&\quad a_{228} + a_{229} - a_{231} + a_{232} + a_{233} - 2a_{234} + \\
&\quad a_{235} - 2a_{237} + a_{239} - a_{240} - a_{243} - 2a_{244} + \\
&\quad a_{245} - 2a_{248} - 2a_{249} + 3a_{254} - a_{127} - a_{128} + \\
&\quad a_{131} - a_{133} - a_{134} + 2a_{135} - 2a_{136} - a_{138} - \\
&\quad 2a_{139} - 2a_{141} - a_{142} - a_{143} + a_{145} - 4a_{147} - \\
&\quad a_{149} - 2a_{150} - a_{151} - a_{152} + a_{153} + 3a_{154} + \\
&\quad a_{155} + a_{156}
\end{aligned}
$$

$$
a_{481} = \frac{a_{225} + \sqrt{a_{225}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x &= 2a_0 - 2a_2 + a_6 - a_3 - a_{10} + a_{11} - \\
&\quad a_{13} - 2a_{19} + 4a_{20} + a_{23} + a_{24} - a_{25} + \\
&\quad 2a_{35} - 3a_{36} + 2a_{38} - a_{40} + a_{41} + 2a_{42} + \\
&\quad a_{43} + 4a_{44} - a_{45} + a_{46} + a_{47} + a_{48} - \\
&\quad a_{49} + 2a_{99} - a_{100} + a_{101} - 3a_{102} - 2a_{103} + \\
&\quad 2a_{104} - 2a_{105} - 2a_{106} - a_{107} - 2a_{108} - 2a_{111} - \\
&\quad a_{112} + a_{113} + a_{114} - 3a_{116} + a_{117} - a_{118} - \\
&\quad 2a_{119} + a_{121} + 2a_{122} - a_{123} + a_{124} - a_{125} - \\
&\quad a_{126} - a_{63} + 2a_{64} - a_{65} + 2a_{226} - 3a_{227} - \\
&\quad a_{229} + a_{230} - a_{232} + a_{233} + a_{234} - 2a_{235} + \\
&\quad a_{236} - 2a_{238} + a_{240} - a_{241} - a_{244} - 2a_{245} + \\
&\quad a_{246} - 2a_{249} - 2a_{250} + 3a_{127} - a_{128} - a_{129} + \\
&\quad a_{132} - a_{134} - a_{135} + 2a_{136} - 2a_{137} - a_{139} - \\
&\quad 2a_{140} - 2a_{142} - a_{143} - a_{144} + a_{146} - 4a_{148} - \\
&\quad a_{150} - 2a_{151} - a_{152} - a_{153} + a_{154} + 3a_{155} + \\
&\quad a_{156} + a_{157}
\end{aligned}
$$

$$
a_{482} = \frac{a_{226} - \sqrt{a_{226}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x &= 2a_0 - 2a_1 + a_3 - a_4 - a_{11} + a_{12} - \\
&\quad a_{14} - 2a_{20} + 4a_{21} + a_{24} + a_{25} - a_{26} + \\
&\quad 2a_{36} - 3a_{37} + 2a_{39} - a_{41} + a_{42} + 2a_{43} + \\
&\quad a_{44} + 4a_{45} - a_{46} + a_{47} + a_{48} + a_{49} - \\
&\quad a_{50} + 2a_{100} - a_{101} + a_{102} - 3a_{103} - 2a_{104} + \\
&\quad 2a_{105} - 2a_{106} - 2a_{107} - a_{108} - 2a_{109} - 2a_{112} - \\
&\quad a_{113} + a_{114} + a_{115} - 3a_{117} + a_{118} - a_{119} -
\end{aligned}
$$

$$
\begin{aligned}
& 2a_{120} + a_{122} + 2a_{123} - a_{124} + a_{125} - a_{126} - \\
& a_{63} - a_{64} + 2a_{65} - a_{66} + 2a_{227} - 3a_{228} - \\
& a_{230} + a_{231} - a_{233} + a_{234} + a_{235} - 2a_{236} + \\
& a_{237} - 2a_{239} + a_{241} - a_{242} - a_{245} - 2a_{246} + \\
& a_{247} - 2a_{250} - 2a_{251} + 3a_{128} - a_{129} - a_{130} + \\
& a_{133} - a_{135} - a_{136} + 2a_{137} - 2a_{138} - a_{140} - \\
& 2a_{141} - 2a_{143} - a_{144} - a_{145} + a_{147} - 4a_{149} - \\
& a_{151} - 2a_{152} - a_{153} - a_{154} + a_{155} + 3a_{156} + \\
& a_{157} + a_{158}
\end{aligned}
$$

$$
a_{483} = \frac{a_{227} + \sqrt{a_{227}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_0 - 2a_2 + a_4 - a_5 - a_{12} + a_{13} - \\
& a_7 - 2a_{21} + 4a_{22} + a_{25} + a_{26} - a_{27} + \\
& 2a_{37} - 3a_{38} + 2a_{40} - a_{42} + a_{43} + 2a_{44} + \\
& a_{45} + 4a_{46} - a_{47} + a_{48} + a_{49} + a_{50} - \\
& a_{51} + 2a_{101} - a_{102} + a_{103} - 3a_{104} - 2a_{105} + \\
& 2a_{106} - 2a_{107} - 2a_{108} - a_{109} - 2a_{110} - 2a_{113} - \\
& a_{114} + a_{115} + a_{116} - 3a_{118} + a_{119} - a_{120} - \\
& 2a_{121} + a_{123} + 2a_{124} - a_{125} + a_{126} - a_{63} - \\
& a_{64} - a_{65} + 2a_{66} - a_{67} + 2a_{228} - 3a_{229} - \\
& a_{231} + a_{232} - a_{234} + a_{235} + a_{236} - 2a_{237} + \\
& a_{238} - 2a_{240} + a_{242} - a_{243} - a_{246} - 2a_{247} + \\
& a_{248} - 2a_{251} - 2a_{252} + 3a_{129} - a_{130} - a_{131} + \\
& a_{134} - a_{136} - a_{137} + 2a_{138} - 2a_{139} - a_{141} - \\
& 2a_{142} - 2a_{144} - a_{145} - a_{146} + a_{148} - 4a_{150} - \\
& a_{152} - 2a_{153} - a_{154} - a_{155} + a_{156} + 3a_{157} + \\
& a_{158} + a_{159}
\end{aligned}
$$

$$
a_{484} = \frac{a_{228} - \sqrt{a_{228}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_0 - 2a_1 + a_5 - a_6 - a_{13} + a_{14} - \\
& a_8 - 2a_{22} + 4a_{23} + a_{26} + a_{27} - a_{28} + \\
& 2a_{38} - 3a_{39} + 2a_{41} - a_{43} + a_{44} + 2a_{45} + \\
& a_{46} + 4a_{47} - a_{48} + a_{49} + a_{50} + a_{51} - \\
& a_{52} + 2a_{102} - a_{103} + a_{104} - 3a_{105} - 2a_{106} + \\
& 2a_{107} - 2a_{108} - 2a_{109} - a_{110} - 2a_{111} - 2a_{114} - \\
& a_{115} + a_{116} + a_{117} - 3a_{119} + a_{120} - a_{121} - \\
& 2a_{122} + a_{124} + 2a_{125} - a_{126} + a_{63} - a_{64} - \\
& a_{65} - a_{66} + 2a_{67} - a_{68} + 2a_{229} - 3a_{230} - \\
& a_{232} + a_{233} - a_{235} + a_{236} + a_{237} - 2a_{238} + \\
& a_{239} - 2a_{241} + a_{243} - a_{244} - a_{247} - 2a_{248} + \\
& a_{249} - 2a_{252} - 2a_{253} + 3a_{130} - a_{131} - a_{132} + \\
& a_{135} - a_{137} - a_{138} + 2a_{139} - 2a_{140} - a_{142} - \\
& 2a_{143} - 2a_{145} - a_{146} - a_{147} + a_{149} - 4a_{151} - \\
& a_{153} - 2a_{154} - a_{155} - a_{156} + a_{157} + 3a_{158} + \\
& a_{159} + a_{160}
\end{aligned}
$$

$$
a_{485} = \frac{a_{229} + \sqrt{a_{229}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_0 - 2a_2 + a_6 - a_3 - a_{14} + a_7 - \\
& a_9 - 2a_{23} + 4a_{24} + a_{27} + a_{28} - a_{29} + \\
& 2a_{39} - 3a_{40} + 2a_{42} - a_{44} + a_{45} + 2a_{46} + \\
& a_{47} + 4a_{48} - a_{49} + a_{50} + a_{51} + a_{52} - \\
& a_{53} + 2a_{103} - a_{104} + a_{105} - 3a_{106} - 2a_{107} + \\
& 2a_{108} - 2a_{109} - 2a_{110} - a_{111} - 2a_{112} - 2a_{115} - \\
& a_{116} + a_{117} + a_{118} - 3a_{120} + a_{121} - a_{122} - \\
& 2a_{123} + a_{125} + 2a_{126} - a_{63} + a_{64} - a_{65} - \\
& a_{66} - a_{67} + 2a_{68} - a_{69} + 2a_{230} - 3a_{231} - \\
& a_{233} + a_{234} - a_{236} + a_{237} + a_{238} - 2a_{239} + \\
& a_{240} - 2a_{242} + a_{244} - a_{245} - a_{248} - 2a_{249} + \\
& a_{250} - 2a_{253} - 2a_{254} + 3a_{131} - a_{132} - a_{133} + \\
& a_{136} - a_{138} - a_{139} + 2a_{140} - 2a_{141} - a_{143} - \\
& 2a_{144} - 2a_{146} - a_{147} - a_{148} + a_{150} - 4a_{152} - \\
& a_{154} - 2a_{155} - a_{156} - a_{157} + a_{158} + 3a_{159} + \\
& a_{160} + a_{161}
\end{aligned}
$$

$$
a_{486} = \frac{a_{230} - \sqrt{a_{230}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_0 - 2a_1 + a_3 - a_4 - a_7 + a_8 - \\
& a_{10} - 2a_{24} + 4a_{25} + a_{28} + a_{29} - a_{30} + \\
& 2a_{40} - 3a_{41} + 2a_{43} - a_{45} + a_{46} + 2a_{47} + \\
& a_{48} + 4a_{49} - a_{50} + a_{51} + a_{52} + a_{53} - \\
& a_{54} + 2a_{104} - a_{105} + a_{106} - 3a_{107} - 2a_{108} + \\
& 2a_{109} - 2a_{110} - 2a_{111} - a_{112} - 2a_{113} - 2a_{116} - \\
& a_{117} + a_{118} + a_{119} - 3a_{121} + a_{122} - a_{123} - \\
& 2a_{124} + a_{126} + 2a_{63} - a_{64} + a_{65} - a_{66} - \\
& a_{67} - a_{68} + 2a_{69} - a_{70} + 2a_{231} - 3a_{232} - \\
& a_{234} + a_{235} - a_{237} + a_{238} + a_{239} - 2a_{240} + \\
& a_{241} - 2a_{243} + a_{245} - a_{246} - a_{249} - 2a_{250} + \\
& a_{251} - 2a_{254} - 2a_{127} + 3a_{132} - a_{133} - a_{134} + \\
& a_{137} - a_{139} - a_{140} + 2a_{141} - 2a_{142} - a_{144} - \\
& 2a_{145} - 2a_{147} - a_{148} - a_{149} + a_{151} - 4a_{153} - \\
& a_{155} - 2a_{156} - a_{157} - a_{158} + a_{159} + 3a_{160} + \\
& a_{161} + a_{162}
\end{aligned}
$$

$$
a_{487} = \frac{a_{231} - \sqrt{a_{231}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_0 - 2a_2 + a_4 - a_5 - a_8 + a_9 - \\
& a_{11} - 2a_{25} + 4a_{26} + a_{29} + a_{30} - a_{15} + \\
& 2a_{41} - 3a_{42} + 2a_{44} - a_{46} + a_{47} + 2a_{48} + \\
& a_{49} + 4a_{50} - a_{51} + a_{52} + a_{53} + a_{54} - \\
& a_{55} + 2a_{105} - a_{106} + a_{107} - 3a_{108} - 2a_{109} + \\
& 2a_{110} - 2a_{111} - 2a_{112} - a_{113} - 2a_{114} - 2a_{117} - \\
& a_{118} + a_{119} + a_{120} - 3a_{122} + a_{123} - a_{124} - \\
& 2a_{125} + a_{63} + 2a_{64} - a_{65} + a_{66} - a_{67} - \\
& a_{68} - a_{69} + 2a_{70} - a_{71} + 2a_{232} - 3a_{233} - \\
& a_{235} + a_{236} - a_{238} + a_{239} + a_{240} - 2a_{241} + \\
& a_{242} - 2a_{244} + a_{246} - a_{247} - a_{250} - 2a_{251} + \\
& a_{252} - 2a_{127} - 2a_{128} + 3a_{133} - a_{134} - a_{135} + \\
& a_{138} - a_{140} - a_{141} + 2a_{142} - 2a_{143} - a_{145} - \\
& 2a_{146} - 2a_{148} - a_{149} - a_{150} + a_{152} - 4a_{154} - \\
& a_{156} - 2a_{157} - a_{158} - a_{159} + a_{160} + 3a_{161} +
\end{aligned}
$$

$$
\begin{aligned}
& a_{162} + a_{163} \\
a_{488} &= \frac{a_{232} + \sqrt{a_{232}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_1 + a_5 - a_6 - a_9 + a_{10} - \\
& a_{12} - 2a_{26} + 4a_{27} + a_{30} + a_{15} - a_{16} + \\
& 2a_{42} - 3a_{43} + 2a_{45} - a_{47} + a_{48} + 2a_{49} + \\
& a_{50} + 4a_{51} - a_{52} + a_{53} + a_{54} + a_{55} - \\
& a_{56} + 2a_{106} - a_{107} + a_{108} - 3a_{109} - 2a_{110} + \\
& 2a_{111} - 2a_{112} - 2a_{113} - a_{114} - 2a_{115} - 2a_{118} - \\
& a_{119} + a_{120} + a_{121} - 3a_{123} + a_{124} - a_{125} - \\
& 2a_{126} + a_{64} + 2a_{65} - a_{66} + a_{67} - a_{68} - \\
& a_{69} - a_{70} + 2a_{71} - a_{72} + 2a_{233} - 3a_{234} - \\
& a_{236} + a_{237} - a_{239} + a_{240} + a_{241} - 2a_{242} + \\
& a_{243} - 2a_{245} + a_{247} - a_{248} - a_{251} - 2a_{252} + \\
& a_{253} - 2a_{128} - 2a_{129} + 3a_{134} - a_{135} - a_{136} + \\
& a_{139} - a_{141} - a_{142} + 2a_{143} - 2a_{144} - a_{146} - \\
& 2a_{147} - 2a_{149} - a_{150} - a_{151} + a_{153} - 4a_{155} - \\
& a_{157} - 2a_{158} - a_{159} - a_{160} + a_{161} + 3a_{162} + \\
& a_{163} + a_{164} \\
a_{489} &= \frac{a_{233} - \sqrt{a_{233}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_2 + a_6 - a_3 - a_{10} + a_{11} - \\
& a_{13} - 2a_{27} + 4a_{28} + a_{15} + a_{16} - a_{17} + \\
& 2a_{43} - 3a_{44} + 2a_{46} - a_{48} + a_{49} + 2a_{50} + \\
& a_{51} + 4a_{52} - a_{53} + a_{54} + a_{55} + a_{56} - \\
& a_{57} + 2a_{107} - a_{108} + a_{109} - 3a_{110} - 2a_{111} + \\
& 2a_{112} - 2a_{113} - 2a_{114} - a_{115} - 2a_{116} - 2a_{119} - \\
& a_{120} + a_{121} + a_{122} - 3a_{124} + a_{125} - a_{126} - \\
& 2a_{63} + a_{65} + 2a_{66} - a_{67} + a_{68} - a_{69} - \\
& a_{70} - a_{71} + 2a_{72} - a_{73} + 2a_{234} - 3a_{235} - \\
& a_{237} + a_{238} - a_{240} + a_{241} + a_{242} - 2a_{243} + \\
& a_{244} - 2a_{246} + a_{248} - a_{249} - a_{252} - 2a_{253} + \\
& a_{254} - 2a_{129} - 2a_{130} + 3a_{135} - a_{136} - a_{137} + \\
& a_{140} - a_{142} - a_{143} + 2a_{144} - 2a_{145} - a_{147} - \\
& 2a_{148} - 2a_{150} - a_{151} - a_{152} + a_{154} - 4a_{156} - \\
& a_{158} - 2a_{159} - a_{160} - a_{161} + a_{162} + 3a_{163} + \\
& a_{164} + a_{165} \\
a_{490} &= \frac{a_{234} - \sqrt{a_{234}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_1 + a_3 - a_4 - a_{11} + a_{12} - \\
& a_{14} - 2a_{28} + 4a_{29} + a_{16} + a_{17} - a_{18} + \\
& 2a_{44} - 3a_{45} + 2a_{47} - a_{49} + a_{50} + 2a_{51} + \\
& a_{52} + 4a_{53} - a_{54} + a_{55} + a_{56} + a_{57} - \\
& a_{58} + 2a_{108} - a_{109} + a_{110} - 3a_{111} - 2a_{112} + \\
& 2a_{113} - 2a_{114} - 2a_{115} - a_{116} - 2a_{117} - 2a_{120} - \\
& a_{121} + a_{122} + a_{123} - 3a_{125} + a_{126} - a_{63} - \\
& 2a_{64} + a_{66} + 2a_{67} - a_{68} + a_{69} - a_{70} - \\
& a_{71} - a_{72} + 2a_{73} - a_{74} + 2a_{235} - 3a_{236} - \\
& a_{238} + a_{239} - a_{241} + a_{242} + a_{243} - 2a_{244} + \\
& a_{245} - 2a_{247} + a_{249} - a_{250} - a_{253} - 2a_{254} + \\
& a_{127} - 2a_{130} - 2a_{131} + 3a_{136} - a_{137} - a_{138} + \\
& a_{141} - a_{143} - a_{144} + 2a_{145} - 2a_{146} - a_{148} - \\
& 2a_{149} - 2a_{151} - a_{152} - a_{153} + a_{155} - 4a_{157} - \\
& a_{159} - 2a_{160} - a_{161} - a_{162} + a_{163} + 3a_{164} + \\
& a_{165} + a_{166} \\
a_{491} &= \frac{a_{235} - \sqrt{a_{235}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_2 + a_4 - a_5 - a_{12} + a_{13} - \\
& a_7 - 2a_{29} + 4a_{30} + a_{17} + a_{18} - a_{19} + \\
& 2a_{45} - 3a_{46} + 2a_{48} - a_{50} + a_{51} + 2a_{52} + \\
& a_{53} + 4a_{54} - a_{55} + a_{56} + a_{57} + a_{58} - \\
& a_{59} + 2a_{109} - a_{110} + a_{111} - 3a_{112} - 2a_{113} + \\
& 2a_{114} - 2a_{115} - 2a_{116} - a_{117} - 2a_{118} - 2a_{121} - \\
& a_{122} + a_{123} + a_{124} - 3a_{126} + a_{63} - a_{64} - \\
& 2a_{65} + a_{67} + 2a_{68} - a_{69} + a_{70} - a_{71} - \\
& a_{72} - a_{73} + 2a_{74} - a_{75} + 2a_{236} - 3a_{237} - \\
& a_{239} + a_{240} - a_{242} + a_{243} + a_{244} - 2a_{245} + \\
& a_{246} - 2a_{248} + a_{250} - a_{251} - a_{254} - 2a_{127} + \\
& a_{128} - 2a_{131} - 2a_{132} + 3a_{137} - a_{138} - a_{139} + \\
& a_{142} - a_{144} - a_{145} + 2a_{146} - 2a_{147} - a_{149} - \\
& 2a_{150} - 2a_{152} - a_{153} - a_{154} + a_{156} - 4a_{158} - \\
& a_{160} - 2a_{161} - a_{162} - a_{163} + a_{164} + 3a_{165} + \\
& a_{166} + a_{167} \\
a_{492} &= \frac{a_{236} - \sqrt{a_{236}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_1 + a_5 - a_6 - a_{13} + a_{14} - \\
& a_8 - 2a_{30} + 4a_{15} + a_{18} + a_{19} - a_{20} + \\
& 2a_{46} - 3a_{47} + 2a_{49} - a_{51} + a_{52} + 2a_{53} + \\
& a_{54} + 4a_{55} - a_{56} + a_{57} + a_{58} + a_{59} - \\
& a_{60} + 2a_{110} - a_{111} + a_{112} - 3a_{113} - 2a_{114} + \\
& 2a_{115} - 2a_{116} - 2a_{117} - a_{118} - 2a_{119} - 2a_{122} - \\
& a_{123} + a_{124} + a_{125} - 3a_{63} + a_{64} - a_{65} - \\
& 2a_{66} + a_{68} + 2a_{69} - a_{70} + a_{71} - a_{72} - \\
& a_{73} - a_{74} + 2a_{75} - a_{76} + 2a_{237} - 3a_{238} - \\
& a_{240} + a_{241} - a_{243} + a_{244} + a_{245} - 2a_{246} + \\
& a_{247} - 2a_{249} + a_{251} - a_{252} - a_{127} - 2a_{128} + \\
& a_{129} - 2a_{132} - 2a_{133} + 3a_{138} - a_{139} - a_{140} + \\
& a_{143} - a_{145} - a_{146} + 2a_{147} - 2a_{148} - a_{150} - \\
& 2a_{151} - 2a_{153} - a_{154} - a_{155} + a_{157} - 4a_{159} - \\
& a_{161} - 2a_{162} - a_{163} - a_{164} + a_{165} + 3a_{166} + \\
& a_{167} + a_{168} \\
a_{493} &= \frac{a_{237} - \sqrt{a_{237}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_2 + a_6 - a_3 - a_{14} + a_7 - \\
& a_9 - 2a_{15} + 4a_{16} + a_{19} + a_{20} - a_{21} + \\
& 2a_{47} - 3a_{48} + 2a_{50} - a_{52} + a_{53} + 2a_{54} + \\
& a_{55} + 4a_{56} - a_{57} + a_{58} + a_{59} + a_{60} -
\end{aligned}
$$

$$
\begin{aligned}
& a_{61} + 2a_{111} - a_{112} + a_{113} - 3a_{114} - 2a_{115} + \\
& 2a_{116} - 2a_{117} - 2a_{118} - a_{119} - 2a_{120} - 2a_{123} - \\
& a_{124} + a_{125} + a_{126} - 3a_{64} + a_{65} - a_{66} - \\
& 2a_{67} + a_{69} + 2a_{70} - a_{71} + a_{72} - a_{73} - \\
& a_{74} - a_{75} + 2a_{76} - a_{77} + 2a_{238} - 3a_{239} - \\
& a_{241} + a_{242} - a_{244} + a_{245} + a_{246} - 2a_{247} + \\
& a_{248} - 2a_{250} + a_{252} - a_{253} - a_{128} - 2a_{129} + \\
& a_{130} - 2a_{133} - 2a_{134} + 3a_{139} - a_{140} - a_{141} + \\
& a_{144} - a_{146} - a_{147} + 2a_{148} - 2a_{149} - a_{151} - \\
& 2a_{152} - 2a_{154} - a_{155} - a_{156} + a_{158} - 4a_{160} - \\
& a_{162} - 2a_{163} - a_{164} - a_{165} + a_{166} + 3a_{167} + \\
& a_{168} + a_{169}
\end{aligned}
$$

$$
a_{494} = \frac{a_{238} + \sqrt{a_{238}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_0 - 2a_1 + a_3 - a_4 - a_7 + a_8 - \\
& a_{10} - 2a_{16} + 4a_{17} + a_{20} + a_{21} - a_{22} + \\
& 2a_{48} - 3a_{49} + 2a_{51} - a_{53} + a_{54} + 2a_{55} + \\
& a_{56} + 4a_{57} - a_{58} + a_{59} + a_{60} + a_{61} - \\
& a_{62} + 2a_{112} - a_{113} + a_{114} - 3a_{115} - 2a_{116} + \\
& 2a_{117} - 2a_{118} - 2a_{119} - a_{120} - 2a_{121} - 2a_{124} - \\
& a_{125} + a_{126} + a_{63} - 3a_{65} + a_{66} - a_{67} - \\
& 2a_{68} + a_{70} + 2a_{71} - a_{72} + a_{73} - a_{74} - \\
& a_{75} - a_{76} + 2a_{77} - a_{78} + 2a_{239} - 3a_{240} - \\
& a_{242} + a_{243} - a_{245} + a_{246} + a_{247} - 2a_{248} + \\
& a_{249} - 2a_{251} + a_{253} - a_{254} - a_{129} - 2a_{130} + \\
& a_{131} - 2a_{134} - 2a_{135} + 3a_{140} - a_{141} - a_{142} + \\
& a_{145} - a_{147} - a_{148} + 2a_{149} - 2a_{150} - a_{152} - \\
& 2a_{153} - 2a_{155} - a_{156} - a_{157} + a_{159} - 4a_{161} - \\
& a_{163} - 2a_{164} - a_{165} - a_{166} + a_{167} + 3a_{168} + \\
& a_{169} + a_{170}
\end{aligned}
$$

$$
a_{495} = \frac{a_{239} - \sqrt{a_{239}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_0 - 2a_2 + a_4 - a_5 - a_8 + a_9 - \\
& a_{11} - 2a_{17} + 4a_{18} + a_{21} + a_{22} - a_{23} + \\
& 2a_{49} - 3a_{50} + 2a_{52} - a_{54} + a_{55} + 2a_{56} + \\
& a_{57} + 4a_{58} - a_{59} + a_{60} + a_{61} + a_{62} - \\
& a_{31} + 2a_{113} - a_{114} + a_{115} - 3a_{116} - 2a_{117} + \\
& 2a_{118} - 2a_{119} - 2a_{120} - a_{121} - 2a_{122} - 2a_{125} - \\
& a_{126} + a_{63} + a_{64} - 3a_{66} + a_{67} - a_{68} - \\
& 2a_{69} + a_{71} + 2a_{72} - a_{73} + a_{74} - a_{75} - \\
& a_{76} - a_{77} + 2a_{78} - a_{79} + 2a_{240} - 3a_{241} - \\
& a_{243} + a_{244} - a_{246} + a_{247} + a_{248} - 2a_{249} + \\
& a_{250} - 2a_{252} + a_{254} - a_{127} - a_{130} - 2a_{131} + \\
& a_{132} - 2a_{135} - 2a_{136} + 3a_{141} - a_{142} - a_{143} + \\
& a_{146} - a_{148} - a_{149} + 2a_{150} - 2a_{151} - a_{153} - \\
& 2a_{154} - 2a_{156} - a_{157} - a_{158} + a_{160} - 4a_{162} - \\
& a_{164} - 2a_{165} - a_{166} - a_{167} + a_{168} + 3a_{169} + \\
& a_{170} + a_{171}
\end{aligned}
$$

$$
a_{496} = \frac{a_{240} + \sqrt{a_{240}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_0 - 2a_1 + a_5 - a_6 - a_9 + a_{10} - \\
& a_{12} - 2a_{18} + 4a_{19} + a_{22} + a_{23} - a_{24} + \\
& 2a_{50} - 3a_{51} + 2a_{53} - a_{55} + a_{56} + 2a_{57} + \\
& a_{58} + 4a_{59} - a_{60} + a_{61} + a_{62} + a_{31} - \\
& a_{32} + 2a_{114} - a_{115} + a_{116} - 3a_{117} - 2a_{118} + \\
& 2a_{119} - 2a_{120} - 2a_{121} - a_{122} - 2a_{123} - 2a_{126} - \\
& a_{63} + a_{64} + a_{65} - 3a_{67} + a_{68} - a_{69} - \\
& 2a_{70} + a_{72} + 2a_{73} - a_{74} + a_{75} - a_{76} - \\
& a_{77} - a_{78} + 2a_{79} - a_{80} + 2a_{241} - 3a_{242} - \\
& a_{244} + a_{245} - a_{247} + a_{248} + a_{249} - 2a_{250} + \\
& a_{251} - 2a_{253} + a_{127} - a_{128} - a_{131} - 2a_{132} + \\
& a_{133} - 2a_{136} - 2a_{137} + 3a_{142} - a_{143} - a_{144} + \\
& a_{147} - a_{149} - a_{150} + 2a_{151} - 2a_{152} - a_{154} - \\
& 2a_{155} - 2a_{157} - a_{158} - a_{159} + a_{161} - 4a_{163} - \\
& a_{165} - 2a_{166} - a_{167} - a_{168} + a_{169} + 3a_{170} + \\
& a_{171} + a_{172}
\end{aligned}
$$

$$
a_{497} = \frac{a_{241} + \sqrt{a_{241}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_0 - 2a_2 + a_6 - a_3 - a_{10} + a_{11} - \\
& a_{13} - 2a_{19} + 4a_{20} + a_{23} + a_{24} - a_{25} + \\
& 2a_{51} - 3a_{52} + 2a_{54} - a_{56} + a_{57} + 2a_{58} + \\
& a_{59} + 4a_{60} - a_{61} + a_{62} + a_{31} + a_{32} - \\
& a_{33} + 2a_{115} - a_{116} + a_{117} - 3a_{118} - 2a_{119} + \\
& 2a_{120} - 2a_{121} - 2a_{122} - a_{123} - 2a_{124} - 2a_{63} - \\
& a_{64} + a_{65} + a_{66} - 3a_{68} + a_{69} - a_{70} - \\
& 2a_{71} + a_{73} + 2a_{74} - a_{75} + a_{76} - a_{77} - \\
& a_{78} - a_{79} + 2a_{80} - a_{81} + 2a_{242} - 3a_{243} - \\
& a_{245} + a_{246} - a_{248} + a_{249} + a_{250} - 2a_{251} + \\
& a_{252} - 2a_{254} + a_{128} - a_{129} - a_{132} - 2a_{133} + \\
& a_{134} - 2a_{137} - 2a_{138} + 3a_{143} - a_{144} - a_{145} + \\
& a_{148} - a_{150} - a_{151} + 2a_{152} - 2a_{153} - a_{155} - \\
& 2a_{156} - 2a_{158} - a_{159} - a_{160} + a_{162} - 4a_{164} - \\
& a_{166} - 2a_{167} - a_{168} - a_{169} + a_{170} + 3a_{171} + \\
& a_{172} + a_{173}
\end{aligned}
$$

$$
a_{498} = \frac{a_{242} + \sqrt{a_{242}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_0 - 2a_1 + a_3 - a_4 - a_{11} + a_{12} - \\
& a_{14} - 2a_{20} + 4a_{21} + a_{24} + a_{25} - a_{26} + \\
& 2a_{52} - 3a_{53} + 2a_{55} - a_{57} + a_{58} + 2a_{59} + \\
& a_{60} + 4a_{61} - a_{62} + a_{31} + a_{32} + a_{33} - \\
& a_{34} + 2a_{116} - a_{117} + a_{118} - 3a_{119} - 2a_{120} + \\
& 2a_{121} - 2a_{122} - 2a_{123} - a_{124} - 2a_{125} - 2a_{64} - \\
& a_{65} + a_{66} + a_{67} - 3a_{69} + a_{70} - a_{71} - \\
& 2a_{72} + a_{74} + 2a_{75} - a_{76} + a_{77} - a_{78} - \\
& a_{79} - a_{80} + 2a_{81} - a_{82} + 2a_{243} - 3a_{244} - \\
& a_{246} + a_{247} - a_{249} + a_{250} + a_{251} - 2a_{252} + \\
& a_{253} - 2a_{127} + a_{129} - a_{130} - a_{133} - 2a_{134} +
\end{aligned}
$$

$$
\begin{aligned}
& a_{135} - 2a_{138} - 2a_{139} + 3a_{144} - a_{145} - a_{146} + \\
& a_{149} - a_{151} - a_{152} + 2a_{153} - 2a_{154} - a_{156} - \\
& 2a_{157} - 2a_{159} - a_{160} - a_{161} + a_{163} - 4a_{165} - \\
& a_{167} - 2a_{168} - a_{169} - a_{170} + a_{171} + 3a_{172} + \\
& a_{173} + a_{174}
\end{aligned}
$$

$$
a_{499} = \frac{a_{243} - \sqrt{a_{243}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_0 - 2a_2 + a_4 - a_5 - a_{12} + a_{13} - \\
& a_7 - 2a_{21} + 4a_{22} + a_{25} + a_{26} - a_{27} + \\
& 2a_{53} - 3a_{54} + 2a_{56} - a_{58} + a_{59} + 2a_{60} + \\
& a_{61} + 4a_{62} - a_{31} + a_{32} + a_{33} + a_{34} - \\
& a_{35} + 2a_{117} - a_{118} + a_{119} - 3a_{120} - 2a_{121} + \\
& 2a_{122} - 2a_{123} - 2a_{124} - a_{125} - 2a_{126} - 2a_{65} - \\
& a_{66} + a_{67} + a_{68} - 3a_{70} + a_{71} - a_{72} - \\
& 2a_{73} + a_{75} + 2a_{76} - a_{77} + a_{78} - a_{79} - \\
& a_{80} - a_{81} + 2a_{82} - a_{83} + 2a_{244} - 3a_{245} - \\
& a_{247} + a_{248} - a_{250} + a_{251} + a_{252} - 2a_{253} + \\
& a_{254} - 2a_{128} + a_{130} - a_{131} - a_{134} - 2a_{135} + \\
& a_{136} - 2a_{139} - 2a_{140} + 3a_{145} - a_{146} - a_{147} + \\
& a_{150} - a_{152} - a_{153} + 2a_{154} - 2a_{155} - a_{157} - \\
& 2a_{158} - 2a_{160} - a_{161} - a_{162} + a_{164} - 4a_{166} - \\
& a_{168} - 2a_{169} - a_{170} - a_{171} + a_{172} + 3a_{173} + \\
& a_{174} + a_{175}
\end{aligned}
$$

$$
a_{500} = \frac{a_{244} + \sqrt{a_{244}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_0 - 2a_1 + a_5 - a_6 - a_{13} + a_{14} - \\
& a_8 - 2a_{22} + 4a_{23} + a_{26} + a_{27} - a_{28} + \\
& 2a_{54} - 3a_{55} + 2a_{57} - a_{59} + a_{60} + 2a_{61} + \\
& a_{62} + 4a_{31} - a_{32} + a_{33} + a_{34} + a_{35} - \\
& a_{36} + 2a_{118} - a_{119} + a_{120} - 3a_{121} - 2a_{122} + \\
& 2a_{123} - 2a_{124} - 2a_{125} - a_{126} - 2a_{63} - 2a_{66} - \\
& a_{67} + a_{68} + a_{69} - 3a_{71} + a_{72} - a_{73} - \\
& 2a_{74} + a_{76} + 2a_{77} - a_{78} + a_{79} - a_{80} - \\
& a_{81} - a_{82} + 2a_{83} - a_{84} + 2a_{245} - 3a_{246} - \\
& a_{248} + a_{249} - a_{251} + a_{252} + a_{253} - 2a_{254} + \\
& a_{127} - 2a_{129} + a_{131} - a_{132} - a_{135} - 2a_{136} + \\
& a_{137} - 2a_{140} - 2a_{141} + 3a_{146} - a_{147} - a_{148} + \\
& a_{151} - a_{153} - a_{154} + 2a_{155} - 2a_{156} - a_{158} - \\
& 2a_{159} - 2a_{161} - a_{162} - a_{163} + a_{165} - 4a_{167} - \\
& a_{169} - 2a_{170} - a_{171} - a_{172} + a_{173} + 3a_{174} + \\
& a_{175} + a_{176}
\end{aligned}
$$

$$
a_{501} = \frac{a_{245} + \sqrt{a_{245}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_0 - 2a_2 + a_6 - a_3 - a_{14} + a_7 - \\
& a_9 - 2a_{23} + 4a_{24} + a_{27} + a_{28} - a_{29} + \\
& 2a_{55} - 3a_{56} + 2a_{58} - a_{60} + a_{61} + 2a_{62} + \\
& a_{31} + 4a_{32} - a_{33} + a_{34} + a_{35} + a_{36} - \\
& a_{37} + 2a_{119} - a_{120} + a_{121} - 3a_{122} - 2a_{123} + \\
& 2a_{124} - 2a_{125} - 2a_{126} - a_{63} - 2a_{64} - 2a_{67} - \\
& a_{68} + a_{69} + a_{70} - 3a_{72} + a_{73} - a_{74} - \\
& 2a_{75} + a_{77} + 2a_{78} - a_{79} + a_{80} - a_{81} - \\
& a_{82} - a_{83} + 2a_{84} - a_{85} + 2a_{246} - 3a_{247} - \\
& a_{249} + a_{250} - a_{252} + a_{253} + a_{254} - 2a_{127} + \\
& a_{128} - 2a_{130} + a_{132} - a_{133} - a_{136} - 2a_{137} + \\
& a_{138} - 2a_{141} - 2a_{142} + 3a_{147} - a_{148} - a_{149} + \\
& a_{152} - a_{154} - a_{155} + 2a_{156} - 2a_{157} - a_{159} - \\
& 2a_{160} - 2a_{162} - a_{163} - a_{164} + a_{166} - 4a_{168} - \\
& a_{170} - 2a_{171} - a_{172} - a_{173} + a_{174} + 3a_{175} + \\
& a_{176} + a_{177}
\end{aligned}
$$

$$
a_{502} = \frac{a_{246} - \sqrt{a_{246}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_0 - 2a_1 + a_3 - a_4 - a_7 + a_8 - \\
& a_{10} - 2a_{24} + 4a_{25} + a_{28} + a_{29} - a_{30} + \\
& 2a_{56} - 3a_{57} + 2a_{59} - a_{61} + a_{62} + 2a_{31} + \\
& a_{32} + 4a_{33} - a_{34} + a_{35} + a_{36} + a_{37} - \\
& a_{38} + 2a_{120} - a_{121} + a_{122} - 3a_{123} - 2a_{124} + \\
& 2a_{125} - 2a_{126} - 2a_{63} - a_{64} - 2a_{65} - 2a_{68} - \\
& a_{69} + a_{70} + a_{71} - 3a_{73} + a_{74} - a_{75} - \\
& 2a_{76} + a_{78} + 2a_{79} - a_{80} + a_{81} - a_{82} - \\
& a_{83} - a_{84} + 2a_{85} - a_{86} + 2a_{247} - 3a_{248} - \\
& a_{250} + a_{251} - a_{253} + a_{254} + a_{127} - 2a_{128} + \\
& a_{129} - 2a_{131} + a_{133} - a_{134} - a_{137} - 2a_{138} + \\
& a_{139} - 2a_{142} - 2a_{143} + 3a_{148} - a_{149} - a_{150} + \\
& a_{153} - a_{155} - a_{156} + 2a_{157} - 2a_{158} - a_{160} - \\
& 2a_{161} - 2a_{163} - a_{164} - a_{165} + a_{167} - 4a_{169} - \\
& a_{171} - 2a_{172} - a_{173} - a_{174} + a_{175} + 3a_{176} + \\
& a_{177} + a_{178}
\end{aligned}
$$

$$
a_{503} = \frac{a_{247} - \sqrt{a_{247}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_0 - 2a_2 + a_4 - a_5 - a_8 + a_9 - \\
& a_{11} - 2a_{25} + 4a_{26} + a_{29} + a_{30} - a_{15} + \\
& 2a_{57} - 3a_{58} + 2a_{60} - a_{62} + a_{31} + 2a_{32} + \\
& a_{33} + 4a_{34} - a_{35} + a_{36} + a_{37} + a_{38} - \\
& a_{39} + 2a_{121} - a_{122} + a_{123} - 3a_{124} - 2a_{125} + \\
& 2a_{126} - 2a_{63} - 2a_{64} - a_{65} - 2a_{66} - 2a_{69} - \\
& a_{70} + a_{71} + a_{72} - 3a_{74} + a_{75} - a_{76} - \\
& 2a_{77} + a_{79} + 2a_{80} - a_{81} + a_{82} - a_{83} - \\
& a_{84} - a_{85} + 2a_{86} - a_{87} + 2a_{248} - 3a_{249} - \\
& a_{251} + a_{252} - a_{254} + a_{127} + a_{128} - 2a_{129} + \\
& a_{130} - 2a_{132} + a_{134} - a_{135} - a_{138} - 2a_{139} + \\
& a_{140} - 2a_{143} - 2a_{144} + 3a_{149} - a_{150} - a_{151} + \\
& a_{154} - a_{156} - a_{157} + 2a_{158} - 2a_{159} - a_{161} - \\
& 2a_{162} - 2a_{164} - a_{165} - a_{166} + a_{168} - 4a_{170} - \\
& a_{172} - 2a_{173} - a_{174} - a_{175} + a_{176} + 3a_{177} + \\
& a_{178} + a_{179}
\end{aligned}
$$

$$
a_{504} = \frac{a_{248} + \sqrt{a_{248}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x &= 2a_0 - 2a_1 + a_5 - a_6 - a_9 + a_{10} - \\
&\quad a_{12} - 2a_{26} + 4a_{27} + a_{30} + a_{15} - a_{16} + \\
&\quad 2a_{58} - 3a_{59} + 2a_{61} - a_{31} + a_{32} + 2a_{33} + \\
&\quad a_{34} + 4a_{35} - a_{36} + a_{37} + a_{38} + a_{39} - \\
&\quad a_{40} + 2a_{122} - a_{123} + a_{124} - 3a_{125} - 2a_{126} + \\
&\quad 2a_{63} - 2a_{64} - 2a_{65} - a_{66} - 2a_{67} - 2a_{70} - \\
&\quad a_{71} + a_{72} + a_{73} - 3a_{75} + a_{76} - a_{77} - \\
&\quad 2a_{78} + a_{80} + 2a_{81} - a_{82} + a_{83} - a_{84} - \\
&\quad a_{85} - a_{86} + 2a_{87} - a_{88} + 2a_{249} - 3a_{250} - \\
&\quad a_{252} + a_{253} - a_{127} + a_{128} + a_{129} - 2a_{130} + \\
&\quad a_{131} - 2a_{133} + a_{135} - a_{136} - a_{139} - 2a_{140} + \\
&\quad a_{141} - 2a_{144} - 2a_{145} + 3a_{150} - a_{151} - a_{152} + \\
&\quad a_{155} - a_{157} - a_{158} + 2a_{159} - 2a_{160} - a_{162} - \\
&\quad 2a_{163} - 2a_{165} - a_{166} - a_{167} + a_{169} - 4a_{171} - \\
&\quad a_{173} - 2a_{174} - a_{175} - a_{176} + a_{177} + 3a_{178} + \\
&\quad a_{179} + a_{180} \\
a_{505} &= \frac{a_{249} + \sqrt{a_{249}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_2 + a_6 - a_3 - a_{10} + a_{11} - \\
&\quad a_{13} - 2a_{27} + 4a_{28} + a_{15} + a_{16} - a_{17} + \\
&\quad 2a_{59} - 3a_{60} + 2a_{62} - a_{32} + a_{33} + 2a_{34} + \\
&\quad a_{35} + 4a_{36} - a_{37} + a_{38} + a_{39} + a_{40} - \\
&\quad a_{41} + 2a_{123} - a_{124} + a_{125} - 3a_{126} - 2a_{63} + \\
&\quad 2a_{64} - 2a_{65} - 2a_{66} - a_{67} - 2a_{68} - 2a_{71} - \\
&\quad a_{72} + a_{73} + a_{74} - 3a_{76} + a_{77} - a_{78} - \\
&\quad 2a_{79} + a_{81} + 2a_{82} - a_{83} + a_{84} - a_{85} - \\
&\quad a_{86} - a_{87} + 2a_{88} - a_{89} + 2a_{250} - 3a_{251} - \\
&\quad a_{253} + a_{254} - a_{128} + a_{129} + a_{130} - 2a_{131} + \\
&\quad a_{132} - 2a_{134} + a_{136} - a_{137} - a_{140} - 2a_{141} + \\
&\quad a_{142} - 2a_{145} - 2a_{146} + 3a_{151} - a_{152} - a_{153} + \\
&\quad a_{156} - a_{158} - a_{159} + 2a_{160} - 2a_{161} - a_{163} - \\
&\quad 2a_{164} - 2a_{166} - a_{167} - a_{168} + a_{170} - 4a_{172} - \\
&\quad a_{174} - 2a_{175} - a_{176} - a_{177} + a_{178} + 3a_{179} + \\
&\quad a_{180} + a_{181} \\
a_{506} &= \frac{a_{250} - \sqrt{a_{250}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_1 + a_3 - a_4 - a_{11} + a_{12} - \\
&\quad a_{14} - 2a_{28} + 4a_{29} + a_{16} + a_{17} - a_{18} + \\
&\quad 2a_{60} - 3a_{61} + 2a_{31} - a_{33} + a_{34} + 2a_{35} + \\
&\quad a_{36} + 4a_{37} - a_{38} + a_{39} + a_{40} + a_{41} - \\
&\quad a_{42} + 2a_{124} - a_{125} + a_{126} - 3a_{63} - 2a_{64} + \\
&\quad 2a_{65} - 2a_{66} - 2a_{67} - a_{68} - 2a_{69} - 2a_{72} - \\
&\quad a_{73} + a_{74} + a_{75} - 3a_{77} + a_{78} - a_{79} - \\
&\quad 2a_{80} + a_{82} + 2a_{83} - a_{84} + a_{85} - a_{86} - \\
&\quad a_{87} - a_{88} + 2a_{89} - a_{90} + 2a_{251} - 3a_{252} - \\
&\quad a_{254} + a_{127} - a_{129} + a_{130} + a_{131} - 2a_{132} + \\
&\quad a_{133} - 2a_{135} + a_{137} - a_{138} - a_{141} - 2a_{142} + \\
&\quad a_{143} - 2a_{146} - 2a_{147} + 3a_{152} - a_{153} - a_{154} + \\
&\quad a_{157} - a_{159} - a_{160} + 2a_{161} - 2a_{162} - a_{164} - \\
&\quad 2a_{165} - 2a_{167} - a_{168} - a_{169} + a_{171} - 4a_{173} - \\
&\quad a_{175} - 2a_{176} - a_{177} - a_{178} + a_{179} + 3a_{180} + \\
&\quad a_{181} + a_{182} \\
a_{507} &= \frac{a_{251} - \sqrt{a_{251}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_2 + a_4 - a_5 - a_{12} + a_{13} - \\
&\quad a_7 - 2a_{29} + 4a_{30} + a_{17} + a_{18} - a_{19} + \\
&\quad 2a_{61} - 3a_{62} + 2a_{32} - a_{34} + a_{35} + 2a_{36} + \\
&\quad a_{37} + 4a_{38} - a_{39} + a_{40} + a_{41} + a_{42} - \\
&\quad a_{43} + 2a_{125} - a_{126} + a_{63} - 3a_{64} - 2a_{65} + \\
&\quad 2a_{66} - 2a_{67} - 2a_{68} - a_{69} - 2a_{70} - 2a_{73} - \\
&\quad a_{74} + a_{75} + a_{76} - 3a_{78} + a_{79} - a_{80} - \\
&\quad 2a_{81} + a_{83} + 2a_{84} - a_{85} + a_{86} - a_{87} - \\
&\quad a_{88} - a_{89} + 2a_{90} - a_{91} + 2a_{252} - 3a_{253} - \\
&\quad a_{127} + a_{128} - a_{130} + a_{131} + a_{132} - 2a_{133} + \\
&\quad a_{134} - 2a_{136} + a_{138} - a_{139} - a_{142} - 2a_{143} + \\
&\quad a_{144} - 2a_{147} - 2a_{148} + 3a_{153} - a_{154} - a_{155} + \\
&\quad a_{158} - a_{160} - a_{161} + 2a_{162} - 2a_{163} - a_{165} - \\
&\quad 2a_{166} - 2a_{168} - a_{169} - a_{170} + a_{172} - 4a_{174} - \\
&\quad a_{176} - 2a_{177} - a_{178} - a_{179} + a_{180} + 3a_{181} + \\
&\quad a_{182} + a_{183} \\
a_{508} &= \frac{a_{252} - \sqrt{a_{252}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_1 + a_5 - a_6 - a_{13} + a_{14} - \\
&\quad a_8 - 2a_{30} + 4a_{15} + a_{18} + a_{19} - a_{20} + \\
&\quad 2a_{62} - 3a_{31} + 2a_{33} - a_{35} + a_{36} + 2a_{37} + \\
&\quad a_{38} + 4a_{39} - a_{40} + a_{41} + a_{42} + a_{43} - \\
&\quad a_{44} + 2a_{126} - a_{63} + a_{64} - 3a_{65} - 2a_{66} + \\
&\quad 2a_{67} - 2a_{68} - 2a_{69} - a_{70} - 2a_{71} - 2a_{74} - \\
&\quad a_{75} + a_{76} + a_{77} - 3a_{79} + a_{80} - a_{81} - \\
&\quad 2a_{82} + a_{84} + 2a_{85} - a_{86} + a_{87} - a_{88} - \\
&\quad a_{89} - a_{90} + 2a_{91} - a_{92} + 2a_{253} - 3a_{254} - \\
&\quad a_{128} + a_{129} - a_{131} + a_{132} + a_{133} - 2a_{134} + \\
&\quad a_{135} - 2a_{137} + a_{139} - a_{140} - a_{143} - 2a_{144} + \\
&\quad a_{145} - 2a_{148} - 2a_{149} + 3a_{154} - a_{155} - a_{156} + \\
&\quad a_{159} - a_{161} - a_{162} + 2a_{163} - 2a_{164} - a_{166} - \\
&\quad 2a_{167} - 2a_{169} - a_{170} - a_{171} + a_{173} - 4a_{175} - \\
&\quad a_{177} - 2a_{178} - a_{179} - a_{180} + a_{181} + 3a_{182} + \\
&\quad a_{183} + a_{184} \\
a_{509} &= \frac{a_{253} + \sqrt{a_{253}^2 - 4x}}{2} \\
x &= 2a_0 - 2a_2 + a_6 - a_3 - a_{14} + a_7 - \\
&\quad a_9 - 2a_{15} + 4a_{16} + a_{19} + a_{20} - a_{21} + \\
&\quad 2a_{31} - 3a_{32} + 2a_{34} - a_{36} + a_{37} + 2a_{38} + \\
&\quad a_{39} + 4a_{40} - a_{41} + a_{42} + a_{43} + a_{44} - \\
&\quad a_{45} + 2a_{63} - a_{64} + a_{65} - 3a_{66} - 2a_{67} + \\
&\quad 2a_{68} - 2a_{69} - 2a_{70} - a_{71} - 2a_{72} - 2a_{75} - \\
&\quad a_{76} + a_{77} + a_{78} - 3a_{80} + a_{81} - a_{82} - \\
&\quad 2a_{83} + a_{85} + 2a_{86} - a_{87} + a_{88} - a_{89} -
\end{aligned}
$$

$$
\begin{aligned}
& a_{90} - a_{91} + 2a_{92} - a_{93} + 2a_{254} - 3a_{127} - \\
& a_{129} + a_{130} - a_{132} + a_{133} + a_{134} - 2a_{135} + \\
& a_{136} - 2a_{138} + a_{140} - a_{141} - a_{144} - 2a_{145} + \\
& a_{146} - 2a_{149} - 2a_{150} + 3a_{155} - a_{156} - a_{157} + \\
& a_{160} - a_{162} - a_{163} + 2a_{164} - 2a_{165} - a_{167} - \\
& 2a_{168} - 2a_{170} - a_{171} - a_{172} + a_{174} - 4a_{176} - \\
& a_{178} - 2a_{179} - a_{180} - a_{181} + a_{182} + 3a_{183} + \\
& a_{184} + a_{185}
\end{aligned}
$$

$$
\begin{aligned}
a_{510} &= \frac{a_{254} - \sqrt{a_{254}^2 - 4x}}{2} \\
x &= a_3 + a_4 - a_7 - a_8 + a_9 - a_{17} + \\
& a_{18} - a_{19} + a_{20} - a_{34} - 2a_{36} + a_{38} + \\
& a_{40} - a_{41} - a_{43} - a_{44} + a_{66} - a_{70} + \\
& a_{71} - a_{72} - a_{82} + a_{83} - 2a_{84} - a_{89} + \\
& a_{90} - a_{91} - a_{92} + a_{127} - a_{130} + a_{134} - \\
& a_{135} + a_{141} + a_{145} - a_{147} - a_{154} + 2a_{155} - \\
& a_{166} - a_{168} + a_{172} + a_{174} - a_{178} - 2a_{180} + \\
& 2a_{184} + a_{186} - a_{188} - a_{255} + 2a_{258} + a_{259} - \\
& a_{273} + a_{274} + a_{284} + a_{285} + a_{288} + a_{292} + \\
& a_{294} + a_{296} + a_{298} + a_{299} - a_{300} - a_{302} + \\
& a_{305} + a_{306} + a_{308} + a_{311} - 2a_{312} - a_{313} - \\
& a_{315} + a_{316} + a_{320} - a_{322} + a_{323} + a_{325} - \\
& a_{327} + a_{333} + a_{334} + a_{336} + 3a_{337} + a_{343} + \\
& a_{344} - a_{346} - a_{358} - a_{360} + a_{361} + a_{364} + \\
& a_{367} - a_{370} - a_{372} - a_{377} - a_{380}
\end{aligned}
$$

$$
\begin{aligned}
a_{511} &= \frac{a_{255} + \sqrt{a_{255}^2 - 4x}}{2} \\
x &= a_4 + a_5 - a_8 - a_9 + a_{10} - a_{18} + \\
& a_{19} - a_{20} + a_{21} - a_{35} - 2a_{37} + a_{39} + \\
& a_{41} - a_{42} - a_{44} - a_{45} + a_{67} - a_{71} + \\
& a_{72} - a_{73} - a_{83} + a_{84} - 2a_{85} - a_{90} + \\
& a_{91} - a_{92} - a_{93} + a_{128} - a_{131} + a_{135} - \\
& a_{136} + a_{142} + a_{146} - a_{148} - a_{155} + 2a_{156} - \\
& a_{167} - a_{169} + a_{173} + a_{175} - a_{179} - 2a_{181} + \\
& 2a_{185} + a_{187} - a_{189} - a_{256} + 2a_{259} + a_{260} - \\
& a_{274} + a_{275} + a_{285} + a_{286} + a_{289} + a_{293} + \\
& a_{295} + a_{297} + a_{299} + a_{300} - a_{301} - a_{303} + \\
& a_{306} + a_{307} + a_{309} + a_{312} - 2a_{313} - a_{314} - \\
& a_{316} + a_{317} + a_{321} - a_{323} + a_{324} + a_{326} - \\
& a_{328} + a_{334} + a_{335} + a_{337} + 3a_{338} + a_{344} + \\
& a_{345} - a_{347} - a_{359} - a_{361} + a_{362} + a_{365} + \\
& a_{368} - a_{371} - a_{373} - a_{378} - a_{381}
\end{aligned}
$$

$$
\begin{aligned}
a_{512} &= \frac{a_{256} + \sqrt{a_{256}^2 - 4x}}{2} \\
x &= a_5 + a_6 - a_9 - a_{10} + a_{11} - a_{19} + \\
& a_{20} - a_{21} + a_{22} - a_{36} - 2a_{38} + a_{40} + \\
& a_{42} - a_{43} - a_{45} - a_{46} + a_{68} - a_{72} + \\
& a_{73} - a_{74} - a_{84} + a_{85} - 2a_{86} - a_{91} + \\
& a_{92} - a_{93} - a_{94} + a_{129} - a_{132} + a_{136} - \\
& a_{137} + a_{143} + a_{147} - a_{149} - a_{156} + 2a_{157} - \\
& a_{168} - a_{170} + a_{174} + a_{176} - a_{180} - 2a_{182} + \\
& 2a_{186} + a_{188} - a_{190} - a_{257} + 2a_{260} + a_{261} - \\
& a_{275} + a_{276} + a_{286} + a_{287} + a_{290} + a_{294} + \\
& a_{296} + a_{298} + a_{300} + a_{301} - a_{302} - a_{304} + \\
& a_{307} + a_{308} + a_{310} + a_{313} - 2a_{314} - a_{315} - \\
& a_{317} + a_{318} + a_{322} - a_{324} + a_{325} + a_{327} - \\
& a_{329} + a_{335} + a_{336} + a_{338} + 3a_{339} + a_{345} + \\
& a_{346} - a_{348} - a_{360} - a_{362} + a_{363} + a_{366} + \\
& a_{369} - a_{372} - a_{374} - a_{379} - a_{382}
\end{aligned}
$$

$$
\begin{aligned}
a_{513} &= \frac{a_{257} - \sqrt{a_{257}^2 - 4x}}{2} \\
x &= a_6 + a_3 - a_{10} - a_{11} + a_{12} - a_{20} + \\
& a_{21} - a_{22} + a_{23} - a_{37} - 2a_{39} + a_{41} + \\
& a_{43} - a_{44} - a_{46} - a_{47} + a_{69} - a_{73} + \\
& a_{74} - a_{75} - a_{85} + a_{86} - 2a_{87} - a_{92} + \\
& a_{93} - a_{94} - a_{95} + a_{130} - a_{133} + a_{137} - \\
& a_{138} + a_{144} + a_{148} - a_{150} - a_{157} + 2a_{158} - \\
& a_{169} - a_{171} + a_{175} + a_{177} - a_{181} - 2a_{183} + \\
& 2a_{187} + a_{189} - a_{191} - a_{258} + 2a_{261} + a_{262} - \\
& a_{276} + a_{277} + a_{287} + a_{288} + a_{291} + a_{295} + \\
& a_{297} + a_{299} + a_{301} + a_{302} - a_{303} - a_{305} + \\
& a_{308} + a_{309} + a_{311} + a_{314} - 2a_{315} - a_{316} - \\
& a_{318} + a_{319} + a_{323} - a_{325} + a_{326} + a_{328} - \\
& a_{330} + a_{336} + a_{337} + a_{339} + 3a_{340} + a_{346} + \\
& a_{347} - a_{349} - a_{361} - a_{363} + a_{364} + a_{367} + \\
& a_{370} - a_{373} - a_{375} - a_{380} - a_{383}
\end{aligned}
$$

$$
\begin{aligned}
a_{514} &= \frac{a_{258} - \sqrt{a_{258}^2 - 4x}}{2} \\
x &= a_3 + a_4 - a_{11} - a_{12} + a_{13} - a_{21} + \\
& a_{22} - a_{23} + a_{24} - a_{38} - 2a_{40} + a_{42} + \\
& a_{44} - a_{45} - a_{47} - a_{48} + a_{70} - a_{74} + \\
& a_{75} - a_{76} - a_{86} + a_{87} - 2a_{88} - a_{93} + \\
& a_{94} - a_{95} - a_{96} + a_{131} - a_{134} + a_{138} - \\
& a_{139} + a_{145} + a_{149} - a_{151} - a_{158} + 2a_{159} - \\
& a_{170} - a_{172} + a_{176} + a_{178} - a_{182} - 2a_{184} + \\
& 2a_{188} + a_{190} - a_{192} - a_{259} + 2a_{262} + a_{263} - \\
& a_{277} + a_{278} + a_{288} + a_{289} + a_{292} + a_{296} + \\
& a_{298} + a_{300} + a_{302} + a_{303} - a_{304} - a_{306} + \\
& a_{309} + a_{310} + a_{312} + a_{315} - 2a_{316} - a_{317} - \\
& a_{319} + a_{320} + a_{324} - a_{326} + a_{327} + a_{329} - \\
& a_{331} + a_{337} + a_{338} + a_{340} + 3a_{341} + a_{347} + \\
& a_{348} - a_{350} - a_{362} - a_{364} + a_{365} + a_{368} + \\
& a_{371} - a_{374} - a_{376} - a_{381} - a_{384}
\end{aligned}
$$

$$
\begin{aligned}
a_{515} &= \frac{a_{259} + \sqrt{a_{259}^2 - 4x}}{2} \\
x &= a_4 + a_5 - a_{12} - a_{13} + a_{14} - a_{22} + \\
& a_{23} - a_{24} + a_{25} - a_{39} - 2a_{41} + a_{43} +
\end{aligned}
$$

$$
\begin{aligned}
& a_{45} - a_{46} - a_{48} - a_{49} + a_{71} - a_{75} + \\
& a_{76} - a_{77} - a_{87} + a_{88} - 2a_{89} - a_{94} + \\
& a_{95} - a_{96} - a_{97} + a_{132} - a_{135} + a_{139} - \\
& a_{140} + a_{146} + a_{150} - a_{152} - a_{159} + 2a_{160} - \\
& a_{171} - a_{173} + a_{177} + a_{179} - a_{183} - 2a_{185} + \\
& 2a_{189} + a_{191} - a_{193} - a_{260} + 2a_{263} + a_{264} - \\
& a_{278} + a_{279} + a_{289} + a_{290} + a_{293} + a_{297} + \\
& a_{299} + a_{301} + a_{303} + a_{304} - a_{305} - a_{307} + \\
& a_{310} + a_{311} + a_{313} + a_{316} - 2a_{317} - a_{318} - \\
& a_{320} + a_{321} + a_{325} - a_{327} + a_{328} + a_{330} - \\
& a_{332} + a_{338} + a_{339} + a_{341} + 3a_{342} + a_{348} + \\
& a_{349} - a_{351} - a_{363} - a_{365} + a_{366} + a_{369} + \\
& a_{372} - a_{375} - a_{377} - a_{382} - a_{385}
\end{aligned}
$$

$$
a_{516} = \frac{a_{260} + \sqrt{a_{260}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_5 + a_6 - a_{13} - a_{14} + a_7 - a_{23} + \\
& a_{24} - a_{25} + a_{26} - a_{40} - 2a_{42} + a_{44} + \\
& a_{46} - a_{47} - a_{49} - a_{50} + a_{72} - a_{76} + \\
& a_{77} - a_{78} - a_{88} + a_{89} - 2a_{90} - a_{95} + \\
& a_{96} - a_{97} - a_{98} + a_{133} - a_{136} + a_{140} - \\
& a_{141} + a_{147} + a_{151} - a_{153} - a_{160} + 2a_{161} - \\
& a_{172} - a_{174} + a_{178} + a_{180} - a_{184} - 2a_{186} + \\
& 2a_{190} + a_{192} - a_{194} - a_{261} + 2a_{264} + a_{265} - \\
& a_{279} + a_{280} + a_{290} + a_{291} + a_{294} + a_{298} + \\
& a_{300} + a_{302} + a_{304} + a_{305} - a_{306} - a_{308} + \\
& a_{311} + a_{312} + a_{314} + a_{317} - 2a_{318} - a_{319} - \\
& a_{321} + a_{322} + a_{326} - a_{328} + a_{329} + a_{331} - \\
& a_{333} + a_{339} + a_{340} + a_{342} + 3a_{343} + a_{349} + \\
& a_{350} - a_{352} - a_{364} - a_{366} + a_{367} + a_{370} + \\
& a_{373} - a_{376} - a_{378} - a_{383} - a_{386}
\end{aligned}
$$

$$
a_{517} = \frac{a_{261} - \sqrt{a_{261}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_6 + a_3 - a_{14} - a_7 + a_8 - a_{24} + \\
& a_{25} - a_{26} + a_{27} - a_{41} - 2a_{43} + a_{45} + \\
& a_{47} - a_{48} - a_{50} - a_{51} + a_{73} - a_{77} + \\
& a_{78} - a_{79} - a_{89} + a_{90} - 2a_{91} - a_{96} + \\
& a_{97} - a_{98} - a_{99} + a_{134} - a_{137} + a_{141} - \\
& a_{142} + a_{148} + a_{152} - a_{154} - a_{161} + 2a_{162} - \\
& a_{173} - a_{175} + a_{179} + a_{181} - a_{185} - 2a_{187} + \\
& 2a_{191} + a_{193} - a_{195} - a_{262} + 2a_{265} + a_{266} - \\
& a_{280} + a_{281} + a_{291} + a_{292} + a_{295} + a_{299} + \\
& a_{301} + a_{303} + a_{305} + a_{306} - a_{307} - a_{309} + \\
& a_{312} + a_{313} + a_{315} + a_{318} - 2a_{319} - a_{320} - \\
& a_{322} + a_{323} + a_{327} - a_{329} + a_{330} + a_{332} - \\
& a_{334} + a_{340} + a_{341} + a_{343} + 3a_{344} + a_{350} + \\
& a_{351} - a_{353} - a_{365} - a_{367} + a_{368} + a_{371} + \\
& a_{374} - a_{377} - a_{379} - a_{384} - a_{387}
\end{aligned}
$$

$$
a_{518} = \frac{a_{262} - \sqrt{a_{262}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_3 + a_4 - a_7 - a_8 + a_9 - a_{25} + \\
& a_{26} - a_{27} + a_{28} - a_{42} - 2a_{44} + a_{46} + \\
& a_{48} - a_{49} - a_{51} - a_{52} + a_{74} - a_{78} + \\
& a_{79} - a_{80} - a_{90} + a_{91} - 2a_{92} - a_{97} + \\
& a_{98} - a_{99} - a_{100} + a_{135} - a_{138} + a_{142} - \\
& a_{143} + a_{149} + a_{153} - a_{155} - a_{162} + 2a_{163} - \\
& a_{174} - a_{176} + a_{180} + a_{182} - a_{186} - 2a_{188} + \\
& 2a_{192} + a_{194} - a_{196} - a_{263} + 2a_{266} + a_{267} - \\
& a_{281} + a_{282} + a_{292} + a_{293} + a_{296} + a_{300} + \\
& a_{302} + a_{304} + a_{306} + a_{307} - a_{308} - a_{310} + \\
& a_{313} + a_{314} + a_{316} + a_{319} - 2a_{320} - a_{321} - \\
& a_{323} + a_{324} + a_{328} - a_{330} + a_{331} + a_{333} - \\
& a_{335} + a_{341} + a_{342} + a_{344} + 3a_{345} + a_{351} + \\
& a_{352} - a_{354} - a_{366} - a_{368} + a_{369} + a_{372} + \\
& a_{375} - a_{378} - a_{380} - a_{385} - a_{388}
\end{aligned}
$$

$$
a_{519} = \frac{a_{263} - \sqrt{a_{263}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_4 + a_5 - a_8 - a_9 + a_{10} - a_{26} + \\
& a_{27} - a_{28} + a_{29} - a_{43} - 2a_{45} + a_{47} + \\
& a_{49} - a_{50} - a_{52} - a_{53} + a_{75} - a_{79} + \\
& a_{80} - a_{81} - a_{91} + a_{92} - 2a_{93} - a_{98} + \\
& a_{99} - a_{100} - a_{101} + a_{136} - a_{139} + a_{143} - \\
& a_{144} + a_{150} + a_{154} - a_{156} - a_{163} + 2a_{164} - \\
& a_{175} - a_{177} + a_{181} + a_{183} - a_{187} - 2a_{189} + \\
& 2a_{193} + a_{195} - a_{197} - a_{264} + 2a_{267} + a_{268} - \\
& a_{282} + a_{283} + a_{293} + a_{294} + a_{297} + a_{301} + \\
& a_{303} + a_{305} + a_{307} + a_{308} - a_{309} - a_{311} + \\
& a_{314} + a_{315} + a_{317} + a_{320} - 2a_{321} - a_{322} - \\
& a_{324} + a_{325} + a_{329} - a_{331} + a_{332} + a_{334} - \\
& a_{336} + a_{342} + a_{343} + a_{345} + 3a_{346} + a_{352} + \\
& a_{353} - a_{355} - a_{367} - a_{369} + a_{370} + a_{373} + \\
& a_{376} - a_{379} - a_{381} - a_{386} - a_{389}
\end{aligned}
$$

$$
a_{520} = \frac{a_{264} - \sqrt{a_{264}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_5 + a_6 - a_9 - a_{10} + a_{11} - a_{27} + \\
& a_{28} - a_{29} + a_{30} - a_{44} - 2a_{46} + a_{48} + \\
& a_{50} - a_{51} - a_{53} - a_{54} + a_{76} - a_{80} + \\
& a_{81} - a_{82} - a_{92} + a_{93} - 2a_{94} - a_{99} + \\
& a_{100} - a_{101} - a_{102} + a_{137} - a_{140} + a_{144} - \\
& a_{145} + a_{151} + a_{155} - a_{157} - a_{164} + 2a_{165} - \\
& a_{176} - a_{178} + a_{182} + a_{184} - a_{188} - 2a_{190} + \\
& 2a_{194} + a_{196} - a_{198} - a_{265} + 2a_{268} + a_{269} - \\
& a_{283} + a_{284} + a_{294} + a_{295} + a_{298} + a_{302} + \\
& a_{304} + a_{306} + a_{308} + a_{309} - a_{310} - a_{312} + \\
& a_{315} + a_{316} + a_{318} + a_{321} - 2a_{322} - a_{323} - \\
& a_{325} + a_{326} + a_{330} - a_{332} + a_{333} + a_{335} - \\
& a_{337} + a_{343} + a_{344} + a_{346} + 3a_{347} + a_{353} + \\
& a_{354} - a_{356} - a_{368} - a_{370} + a_{371} + a_{374} +
\end{aligned}
$$

$$
\begin{aligned}
& a_{377} - a_{380} - a_{382} - a_{387} - a_{390} \\
a_{521} &= \frac{a_{265} - \sqrt{a_{265}^2 - 4x}}{2} \\
x &= a_6 + a_3 - a_{10} - a_{11} + a_{12} - a_{28} + \\
& a_{29} - a_{30} + a_{15} - a_{45} - 2a_{47} + a_{49} + \\
& a_{51} - a_{52} - a_{54} - a_{55} + a_{77} - a_{81} + \\
& a_{82} - a_{83} - a_{93} + a_{94} - 2a_{95} - a_{100} + \\
& a_{101} - a_{102} - a_{103} + a_{138} - a_{141} + a_{145} - \\
& a_{146} + a_{152} + a_{156} - a_{158} - a_{165} + 2a_{166} - \\
& a_{177} - a_{179} + a_{183} + a_{185} - a_{189} - 2a_{191} + \\
& 2a_{195} + a_{197} - a_{199} - a_{266} + 2a_{269} + a_{270} - \\
& a_{284} + a_{285} + a_{295} + a_{296} + a_{299} + a_{303} + \\
& a_{305} + a_{307} + a_{309} + a_{310} - a_{311} - a_{313} + \\
& a_{316} + a_{317} + a_{319} + a_{322} - 2a_{323} - a_{324} - \\
& a_{326} + a_{327} + a_{331} - a_{333} + a_{334} + a_{336} - \\
& a_{338} + a_{344} + a_{345} + a_{347} + 3a_{348} + a_{354} + \\
& a_{355} - a_{357} - a_{369} - a_{371} + a_{372} + a_{375} + \\
& a_{378} - a_{381} - a_{383} - a_{388} - a_{391} \\
a_{522} &= \frac{a_{266} - \sqrt{a_{266}^2 - 4x}}{2} \\
x &= a_3 + a_4 - a_{11} - a_{12} + a_{13} - a_{29} + \\
& a_{30} - a_{15} + a_{16} - a_{46} - 2a_{48} + a_{50} + \\
& a_{52} - a_{53} - a_{55} - a_{56} + a_{78} - a_{82} + \\
& a_{83} - a_{84} - a_{94} + a_{95} - 2a_{96} - a_{101} + \\
& a_{102} - a_{103} - a_{104} + a_{139} - a_{142} + a_{146} - \\
& a_{147} + a_{153} + a_{157} - a_{159} - a_{166} + 2a_{167} - \\
& a_{178} - a_{180} + a_{184} + a_{186} - a_{190} - 2a_{192} + \\
& 2a_{196} + a_{198} - a_{200} - a_{267} + 2a_{270} + a_{271} - \\
& a_{285} + a_{286} + a_{296} + a_{297} + a_{300} + a_{304} + \\
& a_{306} + a_{308} + a_{310} + a_{311} - a_{312} - a_{314} + \\
& a_{317} + a_{318} + a_{320} + a_{323} - 2a_{324} - a_{325} - \\
& a_{327} + a_{328} + a_{332} - a_{334} + a_{335} + a_{337} - \\
& a_{339} + a_{345} + a_{346} + a_{348} + 3a_{349} + a_{355} + \\
& a_{356} - a_{358} - a_{370} - a_{372} + a_{373} + a_{376} + \\
& a_{379} - a_{382} - a_{384} - a_{389} - a_{392} \\
a_{523} &= \frac{a_{267} + \sqrt{a_{267}^2 - 4x}}{2} \\
x &= a_4 + a_5 - a_{12} - a_{13} + a_{14} - a_{30} + \\
& a_{15} - a_{16} + a_{17} - a_{47} - 2a_{49} + a_{51} + \\
& a_{53} - a_{54} - a_{56} - a_{57} + a_{79} - a_{83} + \\
& a_{84} - a_{85} - a_{95} + a_{96} - 2a_{97} - a_{102} + \\
& a_{103} - a_{104} - a_{105} + a_{140} - a_{143} + a_{147} - \\
& a_{148} + a_{154} + a_{158} - a_{160} - a_{167} + 2a_{168} - \\
& a_{179} - a_{181} + a_{185} + a_{187} - a_{191} - 2a_{193} + \\
& 2a_{197} + a_{199} - a_{201} - a_{268} + 2a_{271} + a_{272} - \\
& a_{286} + a_{287} + a_{297} + a_{298} + a_{301} + a_{305} + \\
& a_{307} + a_{309} + a_{311} + a_{312} - a_{313} - a_{315} + \\
& a_{318} + a_{319} + a_{321} + a_{324} - 2a_{325} - a_{326} - \\
& a_{328} + a_{329} + a_{333} - a_{335} + a_{336} + a_{338} - \\
& a_{340} + a_{346} + a_{347} + a_{349} + 3a_{350} + a_{356} + \\
& a_{357} - a_{359} - a_{371} - a_{373} + a_{374} + a_{377} + \\
& a_{380} - a_{383} - a_{385} - a_{390} - a_{393} \\
a_{524} &= \frac{a_{268} + \sqrt{a_{268}^2 - 4x}}{2} \\
x &= a_5 + a_6 - a_{13} - a_{14} + a_7 - a_{15} + \\
& a_{16} - a_{17} + a_{18} - a_{48} - 2a_{50} + a_{52} + \\
& a_{54} - a_{55} - a_{57} - a_{58} + a_{80} - a_{84} + \\
& a_{85} - a_{86} - a_{96} + a_{97} - 2a_{98} - a_{103} + \\
& a_{104} - a_{105} - a_{106} + a_{141} - a_{144} + a_{148} - \\
& a_{149} + a_{155} + a_{159} - a_{161} - a_{168} + 2a_{169} - \\
& a_{180} - a_{182} + a_{186} + a_{188} - a_{192} - 2a_{194} + \\
& 2a_{198} + a_{200} - a_{202} - a_{269} + 2a_{272} + a_{273} - \\
& a_{287} + a_{288} + a_{298} + a_{299} + a_{302} + a_{306} + \\
& a_{308} + a_{310} + a_{312} + a_{313} - a_{314} - a_{316} + \\
& a_{319} + a_{320} + a_{322} + a_{325} - 2a_{326} - a_{327} - \\
& a_{329} + a_{330} + a_{334} - a_{336} + a_{337} + a_{339} - \\
& a_{341} + a_{347} + a_{348} + a_{350} + 3a_{351} + a_{357} + \\
& a_{358} - a_{360} - a_{372} - a_{374} + a_{375} + a_{378} + \\
& a_{381} - a_{384} - a_{386} - a_{391} - a_{394} \\
a_{525} &= \frac{a_{269} + \sqrt{a_{269}^2 - 4x}}{2} \\
x &= a_6 + a_3 - a_{14} - a_7 + a_8 - a_{16} + \\
& a_{17} - a_{18} + a_{19} - a_{49} - 2a_{51} + a_{53} + \\
& a_{55} - a_{56} - a_{58} - a_{59} + a_{81} - a_{85} + \\
& a_{86} - a_{87} - a_{97} + a_{98} - 2a_{99} - a_{104} + \\
& a_{105} - a_{106} - a_{107} + a_{142} - a_{145} + a_{149} - \\
& a_{150} + a_{156} + a_{160} - a_{162} - a_{169} + 2a_{170} - \\
& a_{181} - a_{183} + a_{187} + a_{189} - a_{193} - 2a_{195} + \\
& 2a_{199} + a_{201} - a_{203} - a_{270} + 2a_{273} + a_{274} - \\
& a_{288} + a_{289} + a_{299} + a_{300} + a_{303} + a_{307} + \\
& a_{309} + a_{311} + a_{313} + a_{314} - a_{315} - a_{317} + \\
& a_{320} + a_{321} + a_{323} + a_{326} - 2a_{327} - a_{328} - \\
& a_{330} + a_{331} + a_{335} - a_{337} + a_{338} + a_{340} - \\
& a_{342} + a_{348} + a_{349} + a_{351} + 3a_{352} + a_{358} + \\
& a_{359} - a_{361} - a_{373} - a_{375} + a_{376} + a_{379} + \\
& a_{382} - a_{385} - a_{387} - a_{392} - a_{395} \\
a_{526} &= \frac{a_{270} + \sqrt{a_{270}^2 - 4x}}{2} \\
x &= a_3 + a_4 - a_7 - a_8 + a_9 - a_{17} + \\
& a_{18} - a_{19} + a_{20} - a_{50} - 2a_{52} + a_{54} + \\
& a_{56} - a_{57} - a_{59} - a_{60} + a_{82} - a_{86} + \\
& a_{87} - a_{88} - a_{98} + a_{99} - 2a_{100} - a_{105} + \\
& a_{106} - a_{107} - a_{108} + a_{143} - a_{146} + a_{150} - \\
& a_{151} + a_{157} + a_{161} - a_{163} - a_{170} + 2a_{171} - \\
& a_{182} - a_{184} + a_{188} + a_{190} - a_{194} - 2a_{196} + \\
& 2a_{200} + a_{202} - a_{204} - a_{271} + 2a_{274} + a_{275} - \\
& a_{289} + a_{290} + a_{300} + a_{301} + a_{304} + a_{308} + \\
& a_{310} + a_{312} + a_{314} + a_{315} - a_{316} - a_{318} +
\end{aligned}
$$

$$
\begin{aligned}
& a_{321} + a_{322} + a_{324} + a_{327} - 2a_{328} - a_{329} - \\
& a_{331} + a_{332} + a_{336} - a_{338} + a_{339} + a_{341} - \\
& a_{343} + a_{349} + a_{350} + a_{352} + 3a_{353} + a_{359} + \\
& a_{360} - a_{362} - a_{374} - a_{376} + a_{377} + a_{380} + \\
& a_{383} - a_{386} - a_{388} - a_{393} - a_{396} \\
a_{527} &= \frac{a_{271} - \sqrt{a_{271}^2 - 4x}}{2} \\
x &= a_4 + a_5 - a_8 - a_9 + a_{10} - a_{18} + \\
& a_{19} - a_{20} + a_{21} - a_{51} - 2a_{53} + a_{55} + \\
& a_{57} - a_{58} - a_{60} - a_{61} + a_{83} - a_{87} + \\
& a_{88} - a_{89} - a_{99} + a_{100} - 2a_{101} - a_{106} + \\
& a_{107} - a_{108} - a_{109} + a_{144} - a_{147} + a_{151} - \\
& a_{152} + a_{158} + a_{162} - a_{164} - a_{171} + 2a_{172} - \\
& a_{183} - a_{185} + a_{189} + a_{191} - a_{195} - 2a_{197} + \\
& 2a_{201} + a_{203} - a_{205} - a_{272} + 2a_{275} + a_{276} - \\
& a_{290} + a_{291} + a_{301} + a_{302} + a_{305} + a_{309} + \\
& a_{311} + a_{313} + a_{315} + a_{316} - a_{317} - a_{319} + \\
& a_{322} + a_{323} + a_{325} + a_{328} - 2a_{329} - a_{330} - \\
& a_{332} + a_{333} + a_{337} - a_{339} + a_{340} + a_{342} - \\
& a_{344} + a_{350} + a_{351} + a_{353} + 3a_{354} + a_{360} + \\
& a_{361} - a_{363} - a_{375} - a_{377} + a_{378} + a_{381} + \\
& a_{384} - a_{387} - a_{389} - a_{394} - a_{397} \\
a_{528} &= \frac{a_{272} + \sqrt{a_{272}^2 - 4x}}{2} \\
x &= a_5 + a_6 - a_9 - a_{10} + a_{11} - a_{19} + \\
& a_{20} - a_{21} + a_{22} - a_{52} - 2a_{54} + a_{56} + \\
& a_{58} - a_{59} - a_{61} - a_{62} + a_{84} - a_{88} + \\
& a_{89} - a_{90} - a_{100} + a_{101} - 2a_{102} - a_{107} + \\
& a_{108} - a_{109} - a_{110} + a_{145} - a_{148} + a_{152} - \\
& a_{153} + a_{159} + a_{163} - a_{165} - a_{172} + 2a_{173} - \\
& a_{184} - a_{186} + a_{190} + a_{192} - a_{196} - 2a_{198} + \\
& 2a_{202} + a_{204} - a_{206} - a_{273} + 2a_{276} + a_{277} - \\
& a_{291} + a_{292} + a_{302} + a_{303} + a_{306} + a_{310} + \\
& a_{312} + a_{314} + a_{316} + a_{317} - a_{318} - a_{320} + \\
& a_{323} + a_{324} + a_{326} + a_{329} - 2a_{330} - a_{331} - \\
& a_{333} + a_{334} + a_{338} - a_{340} + a_{341} + a_{343} - \\
& a_{345} + a_{351} + a_{352} + a_{354} + 3a_{355} + a_{361} + \\
& a_{362} - a_{364} - a_{376} - a_{378} + a_{379} + a_{382} + \\
& a_{385} - a_{388} - a_{390} - a_{395} - a_{398} \\
a_{529} &= \frac{a_{273} + \sqrt{a_{273}^2 - 4x}}{2} \\
x &= a_6 + a_3 - a_{10} - a_{11} + a_{12} - a_{20} + \\
& a_{21} - a_{22} + a_{23} - a_{53} - 2a_{55} + a_{57} + \\
& a_{59} - a_{60} - a_{62} - a_{31} + a_{85} - a_{89} + \\
& a_{90} - a_{91} - a_{101} + a_{102} - 2a_{103} - a_{108} + \\
& a_{109} - a_{110} - a_{111} + a_{146} - a_{149} + a_{153} - \\
& a_{154} + a_{160} + a_{164} - a_{166} - a_{173} + 2a_{174} - \\
& a_{185} - a_{187} + a_{191} + a_{193} - a_{197} - 2a_{199} + \\
& 2a_{203} + a_{205} - a_{207} - a_{274} + 2a_{277} + a_{278} - \\
& a_{292} + a_{293} + a_{303} + a_{304} + a_{307} + a_{311} + \\
& a_{313} + a_{315} + a_{317} + a_{318} - a_{319} - a_{321} + \\
& a_{324} + a_{325} + a_{327} + a_{330} - 2a_{331} - a_{332} - \\
& a_{334} + a_{335} + a_{339} - a_{341} + a_{342} + a_{344} - \\
& a_{346} + a_{352} + a_{353} + a_{355} + 3a_{356} + a_{362} + \\
& a_{363} - a_{365} - a_{377} - a_{379} + a_{380} + a_{383} + \\
& a_{386} - a_{389} - a_{391} - a_{396} - a_{399} \\
a_{530} &= \frac{a_{274} + \sqrt{a_{274}^2 - 4x}}{2} \\
x &= a_3 + a_4 - a_{11} - a_{12} + a_{13} - a_{21} + \\
& a_{22} - a_{23} + a_{24} - a_{54} - 2a_{56} + a_{58} + \\
& a_{60} - a_{61} - a_{31} - a_{32} + a_{86} - a_{90} + \\
& a_{91} - a_{92} - a_{102} + a_{103} - 2a_{104} - a_{109} + \\
& a_{110} - a_{111} - a_{112} + a_{147} - a_{150} + a_{154} - \\
& a_{155} + a_{161} + a_{165} - a_{167} - a_{174} + 2a_{175} - \\
& a_{186} - a_{188} + a_{192} + a_{194} - a_{198} - 2a_{200} + \\
& 2a_{204} + a_{206} - a_{208} - a_{275} + 2a_{278} + a_{279} - \\
& a_{293} + a_{294} + a_{304} + a_{305} + a_{308} + a_{312} + \\
& a_{314} + a_{316} + a_{318} + a_{319} - a_{320} - a_{322} + \\
& a_{325} + a_{326} + a_{328} + a_{331} - 2a_{332} - a_{333} - \\
& a_{335} + a_{336} + a_{340} - a_{342} + a_{343} + a_{345} - \\
& a_{347} + a_{353} + a_{354} + a_{356} + 3a_{357} + a_{363} + \\
& a_{364} - a_{366} - a_{378} - a_{380} + a_{381} + a_{384} + \\
& a_{387} - a_{390} - a_{392} - a_{397} - a_{400} \\
a_{531} &= \frac{a_{275} + \sqrt{a_{275}^2 - 4x}}{2} \\
x &= a_4 + a_5 - a_{12} - a_{13} + a_{14} - a_{22} + \\
& a_{23} - a_{24} + a_{25} - a_{55} - 2a_{57} + a_{59} + \\
& a_{61} - a_{62} - a_{32} - a_{33} + a_{87} - a_{91} + \\
& a_{92} - a_{93} - a_{103} + a_{104} - 2a_{105} - a_{110} + \\
& a_{111} - a_{112} - a_{113} + a_{148} - a_{151} + a_{155} - \\
& a_{156} + a_{162} + a_{166} - a_{168} - a_{175} + 2a_{176} - \\
& a_{187} - a_{189} + a_{193} + a_{195} - a_{199} - 2a_{201} + \\
& 2a_{205} + a_{207} - a_{209} - a_{276} + 2a_{279} + a_{280} - \\
& a_{294} + a_{295} + a_{305} + a_{306} + a_{309} + a_{313} + \\
& a_{315} + a_{317} + a_{319} + a_{320} - a_{321} - a_{323} + \\
& a_{326} + a_{327} + a_{329} + a_{332} - 2a_{333} - a_{334} - \\
& a_{336} + a_{337} + a_{341} - a_{343} + a_{344} + a_{346} - \\
& a_{348} + a_{354} + a_{355} + a_{357} + 3a_{358} + a_{364} + \\
& a_{365} - a_{367} - a_{379} - a_{381} + a_{382} + a_{385} + \\
& a_{388} - a_{391} - a_{393} - a_{398} - a_{401} \\
a_{532} &= \frac{a_{276} + \sqrt{a_{276}^2 - 4x}}{2} \\
x &= a_5 + a_6 - a_{13} - a_{14} + a_7 - a_{23} + \\
& a_{24} - a_{25} + a_{26} - a_{56} - 2a_{58} + a_{60} + \\
& a_{62} - a_{31} - a_{33} - a_{34} + a_{88} - a_{92} + \\
& a_{93} - a_{94} - a_{104} + a_{105} - 2a_{106} - a_{111} + \\
& a_{112} - a_{113} - a_{114} + a_{149} - a_{152} + a_{156} -
\end{aligned}
$$

$$
\begin{aligned}
& a_{157} + a_{163} + a_{167} - a_{169} - a_{176} + 2a_{177} - \\
& a_{188} - a_{190} + a_{194} + a_{196} - a_{200} - 2a_{202} + \\
& 2a_{206} + a_{208} - a_{210} - a_{277} + 2a_{280} + a_{281} - \\
& a_{295} + a_{296} + a_{306} + a_{307} + a_{310} + a_{314} + \\
& a_{316} + a_{318} + a_{320} + a_{321} - a_{322} - a_{324} + \\
& a_{327} + a_{328} + a_{330} + a_{333} - 2a_{334} - a_{335} - \\
& a_{337} + a_{338} + a_{342} - a_{344} + a_{345} + a_{347} - \\
& a_{349} + a_{355} + a_{356} + a_{358} + 3a_{359} + a_{365} + \\
& a_{366} - a_{368} - a_{380} - a_{382} + a_{383} + a_{386} + \\
& a_{389} - a_{392} - a_{394} - a_{399} - a_{402}
\end{aligned}
$$

$$
a_{533} = \frac{a_{277} + \sqrt{a_{277}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_6 + a_3 - a_{14} - a_7 + a_8 - a_{24} + \\
& a_{25} - a_{26} + a_{27} - a_{57} - 2a_{59} + a_{61} + \\
& a_{31} - a_{32} - a_{34} - a_{35} + a_{89} - a_{93} + \\
& a_{94} - a_{95} - a_{105} + a_{106} - 2a_{107} - a_{112} + \\
& a_{113} - a_{114} - a_{115} + a_{150} - a_{153} + a_{157} - \\
& a_{158} + a_{164} + a_{168} - a_{170} - a_{177} + 2a_{178} - \\
& a_{189} - a_{191} + a_{195} + a_{197} - a_{201} - 2a_{203} + \\
& 2a_{207} + a_{209} - a_{211} - a_{278} + 2a_{281} + a_{282} - \\
& a_{296} + a_{297} + a_{307} + a_{308} + a_{311} + a_{315} + \\
& a_{317} + a_{319} + a_{321} + a_{322} - a_{323} - a_{325} + \\
& a_{328} + a_{329} + a_{331} + a_{334} - 2a_{335} - a_{336} - \\
& a_{338} + a_{339} + a_{343} - a_{345} + a_{346} + a_{348} - \\
& a_{350} + a_{356} + a_{357} + a_{359} + 3a_{360} + a_{366} + \\
& a_{367} - a_{369} - a_{381} - a_{383} + a_{384} + a_{387} + \\
& a_{390} - a_{393} - a_{395} - a_{400} - a_{403}
\end{aligned}
$$

$$
a_{534} = \frac{a_{278} + \sqrt{a_{278}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_3 + a_4 - a_7 - a_8 + a_9 - a_{25} + \\
& a_{26} - a_{27} + a_{28} - a_{58} - 2a_{60} + a_{62} + \\
& a_{32} - a_{33} - a_{35} - a_{36} + a_{90} - a_{94} + \\
& a_{95} - a_{96} - a_{106} + a_{107} - 2a_{108} - a_{113} + \\
& a_{114} - a_{115} - a_{116} + a_{151} - a_{154} + a_{158} - \\
& a_{159} + a_{165} + a_{169} - a_{171} - a_{178} + 2a_{179} - \\
& a_{190} - a_{192} + a_{196} + a_{198} - a_{202} - 2a_{204} + \\
& 2a_{208} + a_{210} - a_{212} - a_{279} + 2a_{282} + a_{283} - \\
& a_{297} + a_{298} + a_{308} + a_{309} + a_{312} + a_{316} + \\
& a_{318} + a_{320} + a_{322} + a_{323} - a_{324} - a_{326} + \\
& a_{329} + a_{330} + a_{332} + a_{335} - 2a_{336} - a_{337} - \\
& a_{339} + a_{340} + a_{344} - a_{346} + a_{347} + a_{349} - \\
& a_{351} + a_{357} + a_{358} + a_{360} + 3a_{361} + a_{367} + \\
& a_{368} - a_{370} - a_{382} - a_{384} + a_{385} + a_{388} + \\
& a_{391} - a_{394} - a_{396} - a_{401} - a_{404}
\end{aligned}
$$

$$
a_{535} = \frac{a_{279} + \sqrt{a_{279}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_4 + a_5 - a_8 - a_9 + a_{10} - a_{26} + \\
& a_{27} - a_{28} + a_{29} - a_{59} - 2a_{61} + a_{31} + \\
& a_{33} - a_{34} - a_{36} - a_{37} + a_{91} - a_{95} + \\
& a_{96} - a_{97} - a_{107} + a_{108} - 2a_{109} - a_{114} + \\
& a_{115} - a_{116} - a_{117} + a_{152} - a_{155} + a_{159} - \\
& a_{160} + a_{166} + a_{170} - a_{172} - a_{179} + 2a_{180} - \\
& a_{191} - a_{193} + a_{197} + a_{199} - a_{203} - 2a_{205} + \\
& 2a_{209} + a_{211} - a_{213} - a_{280} + 2a_{283} + a_{284} - \\
& a_{298} + a_{299} + a_{309} + a_{310} + a_{313} + a_{317} + \\
& a_{319} + a_{321} + a_{323} + a_{324} - a_{325} - a_{327} + \\
& a_{330} + a_{331} + a_{333} + a_{336} - 2a_{337} - a_{338} - \\
& a_{340} + a_{341} + a_{345} - a_{347} + a_{348} + a_{350} - \\
& a_{352} + a_{358} + a_{359} + a_{361} + 3a_{362} + a_{368} + \\
& a_{369} - a_{371} - a_{383} - a_{385} + a_{386} + a_{389} + \\
& a_{392} - a_{395} - a_{397} - a_{402} - a_{405}
\end{aligned}
$$

$$
a_{536} = \frac{a_{280} - \sqrt{a_{280}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_5 + a_6 - a_9 - a_{10} + a_{11} - a_{27} + \\
& a_{28} - a_{29} + a_{30} - a_{60} - 2a_{62} + a_{32} + \\
& a_{34} - a_{35} - a_{37} - a_{38} + a_{92} - a_{96} + \\
& a_{97} - a_{98} - a_{108} + a_{109} - 2a_{110} - a_{115} + \\
& a_{116} - a_{117} - a_{118} + a_{153} - a_{156} + a_{160} - \\
& a_{161} + a_{167} + a_{171} - a_{173} - a_{180} + 2a_{181} - \\
& a_{192} - a_{194} + a_{198} + a_{200} - a_{204} - 2a_{206} + \\
& 2a_{210} + a_{212} - a_{214} - a_{281} + 2a_{284} + a_{285} - \\
& a_{299} + a_{300} + a_{310} + a_{311} + a_{314} + a_{318} + \\
& a_{320} + a_{322} + a_{324} + a_{325} - a_{326} - a_{328} + \\
& a_{331} + a_{332} + a_{334} + a_{337} - 2a_{338} - a_{339} - \\
& a_{341} + a_{342} + a_{346} - a_{348} + a_{349} + a_{351} - \\
& a_{353} + a_{359} + a_{360} + a_{362} + 3a_{363} + a_{369} + \\
& a_{370} - a_{372} - a_{384} - a_{386} + a_{387} + a_{390} + \\
& a_{393} - a_{396} - a_{398} - a_{403} - a_{406}
\end{aligned}
$$

$$
a_{537} = \frac{a_{281} + \sqrt{a_{281}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_6 + a_3 - a_{10} - a_{11} + a_{12} - a_{28} + \\
& a_{29} - a_{30} + a_{15} - a_{61} - 2a_{31} + a_{33} + \\
& a_{35} - a_{36} - a_{38} - a_{39} + a_{93} - a_{97} + \\
& a_{98} - a_{99} - a_{109} + a_{110} - 2a_{111} - a_{116} + \\
& a_{117} - a_{118} - a_{119} + a_{154} - a_{157} + a_{161} - \\
& a_{162} + a_{168} + a_{172} - a_{174} - a_{181} + 2a_{182} - \\
& a_{193} - a_{195} + a_{199} + a_{201} - a_{205} - 2a_{207} + \\
& 2a_{211} + a_{213} - a_{215} - a_{282} + 2a_{285} + a_{286} - \\
& a_{300} + a_{301} + a_{311} + a_{312} + a_{315} + a_{319} + \\
& a_{321} + a_{323} + a_{325} + a_{326} - a_{327} - a_{329} + \\
& a_{332} + a_{333} + a_{335} + a_{338} - 2a_{339} - a_{340} - \\
& a_{342} + a_{343} + a_{347} - a_{349} + a_{350} + a_{352} - \\
& a_{354} + a_{360} + a_{361} + a_{363} + 3a_{364} + a_{370} + \\
& a_{371} - a_{373} - a_{385} - a_{387} + a_{388} + a_{391} + \\
& a_{394} - a_{397} - a_{399} - a_{404} - a_{407}
\end{aligned}
$$

$$
a_{538} = \frac{a_{282} - \sqrt{a_{282}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_3 + a_4 - a_{11} - a_{12} + a_{13} - a_{29} +
\end{aligned}
$$

$$
\begin{aligned}
& a_{30} - a_{15} + a_{16} - a_{62} - 2a_{32} + a_{34} + \\
& a_{36} - a_{37} - a_{39} - a_{40} + a_{94} - a_{98} + \\
& a_{99} - a_{100} - a_{110} + a_{111} - 2a_{112} - a_{117} + \\
& a_{118} - a_{119} - a_{120} + a_{155} - a_{158} + a_{162} - \\
& a_{163} + a_{169} + a_{173} - a_{175} - a_{182} + 2a_{183} - \\
& a_{194} - a_{196} + a_{200} + a_{202} - a_{206} - 2a_{208} + \\
& 2a_{212} + a_{214} - a_{216} - a_{283} + 2a_{286} + a_{287} - \\
& a_{301} + a_{302} + a_{312} + a_{313} + a_{316} + a_{320} + \\
& a_{322} + a_{324} + a_{326} + a_{327} - a_{328} - a_{330} + \\
& a_{333} + a_{334} + a_{336} + a_{339} - 2a_{340} - a_{341} - \\
& a_{343} + a_{344} + a_{348} - a_{350} + a_{351} + a_{353} - \\
& a_{355} + a_{361} + a_{362} + a_{364} + 3a_{365} + a_{371} + \\
& a_{372} - a_{374} - a_{386} - a_{388} + a_{389} + a_{392} + \\
& a_{395} - a_{398} - a_{400} - a_{405} - a_{408}
\end{aligned}
$$

$$
\begin{aligned}
a_{539} &= \frac{a_{283} - \sqrt{a_{283}^2 - 4x}}{2} \\
x &= a_4 + a_5 - a_{12} - a_{13} + a_{14} - a_{30} + \\
& a_{15} - a_{16} + a_{17} - a_{31} - 2a_{33} + a_{35} + \\
& a_{37} - a_{38} - a_{40} - a_{41} + a_{95} - a_{99} + \\
& a_{100} - a_{101} - a_{111} + a_{112} - 2a_{113} - a_{118} + \\
& a_{119} - a_{120} - a_{121} + a_{156} - a_{159} + a_{163} - \\
& a_{164} + a_{170} + a_{174} - a_{176} - a_{183} + 2a_{184} - \\
& a_{195} - a_{197} + a_{201} + a_{203} - a_{207} - 2a_{209} + \\
& 2a_{213} + a_{215} - a_{217} - a_{284} + 2a_{287} + a_{288} - \\
& a_{302} + a_{303} + a_{313} + a_{314} + a_{317} + a_{321} + \\
& a_{323} + a_{325} + a_{327} + a_{328} - a_{329} - a_{331} + \\
& a_{334} + a_{335} + a_{337} + a_{340} - 2a_{341} - a_{342} - \\
& a_{344} + a_{345} + a_{349} - a_{351} + a_{352} + a_{354} - \\
& a_{356} + a_{362} + a_{363} + a_{365} + 3a_{366} + a_{372} + \\
& a_{373} - a_{375} - a_{387} - a_{389} + a_{390} + a_{393} + \\
& a_{396} - a_{399} - a_{401} - a_{406} - a_{409}
\end{aligned}
$$

$$
\begin{aligned}
a_{540} &= \frac{a_{284} + \sqrt{a_{284}^2 - 4x}}{2} \\
x &= a_5 + a_6 - a_{13} - a_{14} + a_7 - a_{15} + \\
& a_{16} - a_{17} + a_{18} - a_{32} - 2a_{34} + a_{36} + \\
& a_{38} - a_{39} - a_{41} - a_{42} + a_{96} - a_{100} + \\
& a_{101} - a_{102} - a_{112} + a_{113} - 2a_{114} - a_{119} + \\
& a_{120} - a_{121} - a_{122} + a_{157} - a_{160} + a_{164} - \\
& a_{165} + a_{171} + a_{175} - a_{177} - a_{184} + 2a_{185} - \\
& a_{196} - a_{198} + a_{202} + a_{204} - a_{208} - 2a_{210} + \\
& 2a_{214} + a_{216} - a_{218} - a_{285} + 2a_{288} + a_{289} - \\
& a_{303} + a_{304} + a_{314} + a_{315} + a_{318} + a_{322} + \\
& a_{324} + a_{326} + a_{328} + a_{329} - a_{330} - a_{332} + \\
& a_{335} + a_{336} + a_{338} + a_{341} - 2a_{342} - a_{343} - \\
& a_{345} + a_{346} + a_{350} - a_{352} + a_{353} + a_{355} - \\
& a_{357} + a_{363} + a_{364} + a_{366} + 3a_{367} + a_{373} + \\
& a_{374} - a_{376} - a_{388} - a_{390} + a_{391} + a_{394} + \\
& a_{397} - a_{400} - a_{402} - a_{407} - a_{410}
\end{aligned}
$$

$$
\begin{aligned}
a_{541} &= \frac{a_{285} + \sqrt{a_{285}^2 - 4x}}{2} \\
x &= a_6 + a_3 - a_{14} - a_7 + a_8 - a_{16} + \\
& a_{17} - a_{18} + a_{19} - a_{33} - 2a_{35} + a_{37} + \\
& a_{39} - a_{40} - a_{42} - a_{43} + a_{97} - a_{101} + \\
& a_{102} - a_{103} - a_{113} + a_{114} - 2a_{115} - a_{120} + \\
& a_{121} - a_{122} - a_{123} + a_{158} - a_{161} + a_{165} - \\
& a_{166} + a_{172} + a_{176} - a_{178} - a_{185} + 2a_{186} - \\
& a_{197} - a_{199} + a_{203} + a_{205} - a_{209} - 2a_{211} + \\
& 2a_{215} + a_{217} - a_{219} - a_{286} + 2a_{289} + a_{290} - \\
& a_{304} + a_{305} + a_{315} + a_{316} + a_{319} + a_{323} + \\
& a_{325} + a_{327} + a_{329} + a_{330} - a_{331} - a_{333} + \\
& a_{336} + a_{337} + a_{339} + a_{342} - 2a_{343} - a_{344} - \\
& a_{346} + a_{347} + a_{351} - a_{353} + a_{354} + a_{356} - \\
& a_{358} + a_{364} + a_{365} + a_{367} + 3a_{368} + a_{374} + \\
& a_{375} - a_{377} - a_{389} - a_{391} + a_{392} + a_{395} + \\
& a_{398} - a_{401} - a_{403} - a_{408} - a_{411}
\end{aligned}
$$

$$
\begin{aligned}
a_{542} &= \frac{a_{286} + \sqrt{a_{286}^2 - 4x}}{2} \\
x &= a_3 + a_4 - a_7 - a_8 + a_9 - a_{17} + \\
& a_{18} - a_{19} + a_{20} - a_{34} - 2a_{36} + a_{38} + \\
& a_{40} - a_{41} - a_{43} - a_{44} + a_{98} - a_{102} + \\
& a_{103} - a_{104} - a_{114} + a_{115} - 2a_{116} - a_{121} + \\
& a_{122} - a_{123} - a_{124} + a_{159} - a_{162} + a_{166} - \\
& a_{167} + a_{173} + a_{177} - a_{179} - a_{186} + 2a_{187} - \\
& a_{198} - a_{200} + a_{204} + a_{206} - a_{210} - 2a_{212} + \\
& 2a_{216} + a_{218} - a_{220} - a_{287} + 2a_{290} + a_{291} - \\
& a_{305} + a_{306} + a_{316} + a_{317} + a_{320} + a_{324} + \\
& a_{326} + a_{328} + a_{330} + a_{331} - a_{332} - a_{334} + \\
& a_{337} + a_{338} + a_{340} + a_{343} - 2a_{344} - a_{345} - \\
& a_{347} + a_{348} + a_{352} - a_{354} + a_{355} + a_{357} - \\
& a_{359} + a_{365} + a_{366} + a_{368} + 3a_{369} + a_{375} + \\
& a_{376} - a_{378} - a_{390} - a_{392} + a_{393} + a_{396} + \\
& a_{399} - a_{402} - a_{404} - a_{409} - a_{412}
\end{aligned}
$$

$$
\begin{aligned}
a_{543} &= \frac{a_{287} - \sqrt{a_{287}^2 - 4x}}{2} \\
x &= a_4 + a_5 - a_8 - a_9 + a_{10} - a_{18} + \\
& a_{19} - a_{20} + a_{21} - a_{35} - 2a_{37} + a_{39} + \\
& a_{41} - a_{42} - a_{44} - a_{45} + a_{99} - a_{103} + \\
& a_{104} - a_{105} - a_{115} + a_{116} - 2a_{117} - a_{122} + \\
& a_{123} - a_{124} - a_{125} + a_{160} - a_{163} + a_{167} - \\
& a_{168} + a_{174} + a_{178} - a_{180} - a_{187} + 2a_{188} - \\
& a_{199} - a_{201} + a_{205} + a_{207} - a_{211} - 2a_{213} + \\
& 2a_{217} + a_{219} - a_{221} - a_{288} + 2a_{291} + a_{292} - \\
& a_{306} + a_{307} + a_{317} + a_{318} + a_{321} + a_{325} + \\
& a_{327} + a_{329} + a_{331} + a_{332} - a_{333} - a_{335} + \\
& a_{338} + a_{339} + a_{341} + a_{344} - 2a_{345} - a_{346} - \\
& a_{348} + a_{349} + a_{353} - a_{355} + a_{356} + a_{358} - \\
& a_{360} + a_{366} + a_{367} + a_{369} + 3a_{370} + a_{376} +
\end{aligned}
$$

$$
\begin{aligned}
& a_{377} - a_{379} - a_{391} - a_{393} + a_{394} + a_{397} + \\
& a_{400} - a_{403} - a_{405} - a_{410} - a_{413} \\
a_{544} &= \frac{a_{288} - \sqrt{a_{288}^2 - 4x}}{2} \\
x &= a_5 + a_6 - a_9 - a_{10} + a_{11} - a_{19} + \\
& a_{20} - a_{21} + a_{22} - a_{36} - 2a_{38} + a_{40} + \\
& a_{42} - a_{43} - a_{45} - a_{46} + a_{100} - a_{104} + \\
& a_{105} - a_{106} - a_{116} + a_{117} - 2a_{118} - a_{123} + \\
& a_{124} - a_{125} - a_{126} + a_{161} - a_{164} + a_{168} - \\
& a_{169} + a_{175} + a_{179} - a_{181} - a_{188} + 2a_{189} - \\
& a_{200} - a_{202} + a_{206} + a_{208} - a_{212} - 2a_{214} + \\
& 2a_{218} + a_{220} - a_{222} - a_{289} + 2a_{292} + a_{293} - \\
& a_{307} + a_{308} + a_{318} + a_{319} + a_{322} + a_{326} + \\
& a_{328} + a_{330} + a_{332} + a_{333} - a_{334} - a_{336} + \\
& a_{339} + a_{340} + a_{342} + a_{345} - 2a_{346} - a_{347} - \\
& a_{349} + a_{350} + a_{354} - a_{356} + a_{357} + a_{359} - \\
& a_{361} + a_{367} + a_{368} + a_{370} + 3a_{371} + a_{377} + \\
& a_{378} - a_{380} - a_{392} - a_{394} + a_{395} + a_{398} + \\
& a_{401} - a_{404} - a_{406} - a_{411} - a_{414} \\
a_{545} &= \frac{a_{289} - \sqrt{a_{289}^2 - 4x}}{2} \\
x &= a_6 + a_3 - a_{10} - a_{11} + a_{12} - a_{20} + \\
& a_{21} - a_{22} + a_{23} - a_{37} - 2a_{39} + a_{41} + \\
& a_{43} - a_{44} - a_{46} - a_{47} + a_{101} - a_{105} + \\
& a_{106} - a_{107} - a_{117} + a_{118} - 2a_{119} - a_{124} + \\
& a_{125} - a_{126} - a_{63} + a_{162} - a_{165} + a_{169} - \\
& a_{170} + a_{176} + a_{180} - a_{182} - a_{189} + 2a_{190} - \\
& a_{201} - a_{203} + a_{207} + a_{209} - a_{213} - 2a_{215} + \\
& 2a_{219} + a_{221} - a_{223} - a_{290} + 2a_{293} + a_{294} - \\
& a_{308} + a_{309} + a_{319} + a_{320} + a_{323} + a_{327} + \\
& a_{329} + a_{331} + a_{333} + a_{334} - a_{335} - a_{337} + \\
& a_{340} + a_{341} + a_{343} + a_{346} - 2a_{347} - a_{348} - \\
& a_{350} + a_{351} + a_{355} - a_{357} + a_{358} + a_{360} - \\
& a_{362} + a_{368} + a_{369} + a_{371} + 3a_{372} + a_{378} + \\
& a_{379} - a_{381} - a_{393} - a_{395} + a_{396} + a_{399} + \\
& a_{402} - a_{405} - a_{407} - a_{412} - a_{415} \\
a_{546} &= \frac{a_{290} - \sqrt{a_{290}^2 - 4x}}{2} \\
x &= a_3 + a_4 - a_{11} - a_{12} + a_{13} - a_{21} + \\
& a_{22} - a_{23} + a_{24} - a_{38} - 2a_{40} + a_{42} + \\
& a_{44} - a_{45} - a_{47} - a_{48} + a_{102} - a_{106} + \\
& a_{107} - a_{108} - a_{118} + a_{119} - 2a_{120} - a_{125} + \\
& a_{126} - a_{63} - a_{64} + a_{163} - a_{166} + a_{170} - \\
& a_{171} + a_{177} + a_{181} - a_{183} - a_{190} + 2a_{191} - \\
& a_{202} - a_{204} + a_{208} + a_{210} - a_{214} - 2a_{216} + \\
& 2a_{220} + a_{222} - a_{224} - a_{291} + 2a_{294} + a_{295} - \\
& a_{309} + a_{310} + a_{320} + a_{321} + a_{324} + a_{328} + \\
& a_{330} + a_{332} + a_{334} + a_{335} - a_{336} - a_{338} + \\
& a_{341} + a_{342} + a_{344} + a_{347} - 2a_{348} - a_{349} - \\
& a_{351} + a_{352} + a_{356} - a_{358} + a_{359} + a_{361} - \\
& a_{363} + a_{369} + a_{370} + a_{372} + 3a_{373} + a_{379} + \\
& a_{380} - a_{382} - a_{394} - a_{396} + a_{397} + a_{400} + \\
& a_{403} - a_{406} - a_{408} - a_{413} - a_{416} \\
a_{547} &= \frac{a_{291} + \sqrt{a_{291}^2 - 4x}}{2} \\
x &= a_4 + a_5 - a_{12} - a_{13} + a_{14} - a_{22} + \\
& a_{23} - a_{24} + a_{25} - a_{39} - 2a_{41} + a_{43} + \\
& a_{45} - a_{46} - a_{48} - a_{49} + a_{103} - a_{107} + \\
& a_{108} - a_{109} - a_{119} + a_{120} - 2a_{121} - a_{126} + \\
& a_{63} - a_{64} - a_{65} + a_{164} - a_{167} + a_{171} - \\
& a_{172} + a_{178} + a_{182} - a_{184} - a_{191} + 2a_{192} - \\
& a_{203} - a_{205} + a_{209} + a_{211} - a_{215} - 2a_{217} + \\
& 2a_{221} + a_{223} - a_{225} - a_{292} + 2a_{295} + a_{296} - \\
& a_{310} + a_{311} + a_{321} + a_{322} + a_{325} + a_{329} + \\
& a_{331} + a_{333} + a_{335} + a_{336} - a_{337} - a_{339} + \\
& a_{342} + a_{343} + a_{345} + a_{348} - 2a_{349} - a_{350} - \\
& a_{352} + a_{353} + a_{357} - a_{359} + a_{360} + a_{362} - \\
& a_{364} + a_{370} + a_{371} + a_{373} + 3a_{374} + a_{380} + \\
& a_{381} - a_{383} - a_{395} - a_{397} + a_{398} + a_{401} + \\
& a_{404} - a_{407} - a_{409} - a_{414} - a_{417} \\
a_{548} &= \frac{a_{292} + \sqrt{a_{292}^2 - 4x}}{2} \\
x &= a_5 + a_6 - a_{13} - a_{14} + a_7 - a_{23} + \\
& a_{24} - a_{25} + a_{26} - a_{40} - 2a_{42} + a_{44} + \\
& a_{46} - a_{47} - a_{49} - a_{50} + a_{104} - a_{108} + \\
& a_{109} - a_{110} - a_{120} + a_{121} - 2a_{122} - a_{63} + \\
& a_{64} - a_{65} - a_{66} + a_{165} - a_{168} + a_{172} - \\
& a_{173} + a_{179} + a_{183} - a_{185} - a_{192} + 2a_{193} - \\
& a_{204} - a_{206} + a_{210} + a_{212} - a_{216} - 2a_{218} + \\
& 2a_{222} + a_{224} - a_{226} - a_{293} + 2a_{296} + a_{297} - \\
& a_{311} + a_{312} + a_{322} + a_{323} + a_{326} + a_{330} + \\
& a_{332} + a_{334} + a_{336} + a_{337} - a_{338} - a_{340} + \\
& a_{343} + a_{344} + a_{346} + a_{349} - 2a_{350} - a_{351} - \\
& a_{353} + a_{354} + a_{358} - a_{360} + a_{361} + a_{363} - \\
& a_{365} + a_{371} + a_{372} + a_{374} + 3a_{375} + a_{381} + \\
& a_{382} - a_{384} - a_{396} - a_{398} + a_{399} + a_{402} + \\
& a_{405} - a_{408} - a_{410} - a_{415} - a_{418} \\
a_{549} &= \frac{a_{293} + \sqrt{a_{293}^2 - 4x}}{2} \\
x &= a_6 + a_3 - a_{14} - a_7 + a_8 - a_{24} + \\
& a_{25} - a_{26} + a_{27} - a_{41} - 2a_{43} + a_{45} + \\
& a_{47} - a_{48} - a_{50} - a_{51} + a_{105} - a_{109} + \\
& a_{110} - a_{111} - a_{121} + a_{122} - 2a_{123} - a_{64} + \\
& a_{65} - a_{66} - a_{67} + a_{166} - a_{169} + a_{173} - \\
& a_{174} + a_{180} + a_{184} - a_{186} - a_{193} + 2a_{194} - \\
& a_{205} - a_{207} + a_{211} + a_{213} - a_{217} - 2a_{219} + \\
& 2a_{223} + a_{225} - a_{227} - a_{294} + 2a_{297} + a_{298} - \\
& a_{312} + a_{313} + a_{323} + a_{324} + a_{327} + a_{331} +
\end{aligned}
$$

$$
\begin{aligned}
& a_{333} + a_{335} + a_{337} + a_{338} - a_{339} - a_{341} + \\
& a_{344} + a_{345} + a_{347} + a_{350} - 2a_{351} - a_{352} - \\
& a_{354} + a_{355} + a_{359} - a_{361} + a_{362} + a_{364} - \\
& a_{366} + a_{372} + a_{373} + a_{375} + 3a_{376} + a_{382} + \\
& a_{383} - a_{385} - a_{397} - a_{399} + a_{400} + a_{403} + \\
& a_{406} - a_{409} - a_{411} - a_{416} - a_{419}
\end{aligned}
$$

$$
\begin{aligned}
a_{550} &= \frac{a_{294} - \sqrt{a_{294}^2 - 4x}}{2} \\
x &= a_3 + a_4 - a_7 - a_8 + a_9 - a_{25} + \\
& a_{26} - a_{27} + a_{28} - a_{42} - 2a_{44} + a_{46} + \\
& a_{48} - a_{49} - a_{51} - a_{52} + a_{106} - a_{110} + \\
& a_{111} - a_{112} - a_{122} + a_{123} - 2a_{124} - a_{65} + \\
& a_{66} - a_{67} - a_{68} + a_{167} - a_{170} + a_{174} - \\
& a_{175} + a_{181} + a_{185} - a_{187} - a_{194} + 2a_{195} - \\
& a_{206} - a_{208} + a_{212} + a_{214} - a_{218} - 2a_{220} + \\
& 2a_{224} + a_{226} - a_{228} - a_{295} + 2a_{298} + a_{299} - \\
& a_{313} + a_{314} + a_{324} + a_{325} + a_{328} + a_{332} + \\
& a_{334} + a_{336} + a_{338} + a_{339} - a_{340} - a_{342} + \\
& a_{345} + a_{346} + a_{348} + a_{351} - 2a_{352} - a_{353} - \\
& a_{355} + a_{356} + a_{360} - a_{362} + a_{363} + a_{365} - \\
& a_{367} + a_{373} + a_{374} + a_{376} + 3a_{377} + a_{383} + \\
& a_{384} - a_{386} - a_{398} - a_{400} + a_{401} + a_{404} + \\
& a_{407} - a_{410} - a_{412} - a_{417} - a_{420} \\
a_{551} &= \frac{a_{295} - \sqrt{a_{295}^2 - 4x}}{2} \\
x &= a_4 + a_5 - a_8 - a_9 + a_{10} - a_{26} + \\
& a_{27} - a_{28} + a_{29} - a_{43} - 2a_{45} + a_{47} + \\
& a_{49} - a_{50} - a_{52} - a_{53} + a_{107} - a_{111} + \\
& a_{112} - a_{113} - a_{123} + a_{124} - 2a_{125} - a_{66} + \\
& a_{67} - a_{68} - a_{69} + a_{168} - a_{171} + a_{175} - \\
& a_{176} + a_{182} + a_{186} - a_{188} - a_{195} + 2a_{196} - \\
& a_{207} - a_{209} + a_{213} + a_{215} - a_{219} - 2a_{221} + \\
& 2a_{225} + a_{227} - a_{229} - a_{296} + 2a_{299} + a_{300} - \\
& a_{314} + a_{315} + a_{325} + a_{326} + a_{329} + a_{333} + \\
& a_{335} + a_{337} + a_{339} + a_{340} - a_{341} - a_{343} + \\
& a_{346} + a_{347} + a_{349} + a_{352} - 2a_{353} - a_{354} - \\
& a_{356} + a_{357} + a_{361} - a_{363} + a_{364} + a_{366} - \\
& a_{368} + a_{374} + a_{375} + a_{377} + 3a_{378} + a_{384} + \\
& a_{385} - a_{387} - a_{399} - a_{401} + a_{402} + a_{405} + \\
& a_{408} - a_{411} - a_{413} - a_{418} - a_{421} \\
a_{552} &= \frac{a_{296} + \sqrt{a_{296}^2 - 4x}}{2} \\
x &= a_5 + a_6 - a_9 - a_{10} + a_{11} - a_{27} + \\
& a_{28} - a_{29} + a_{30} - a_{44} - 2a_{46} + a_{48} + \\
& a_{50} - a_{51} - a_{53} - a_{54} + a_{108} - a_{112} + \\
& a_{113} - a_{114} - a_{124} + a_{125} - 2a_{126} - a_{67} + \\
& a_{68} - a_{69} - a_{70} + a_{169} - a_{172} + a_{176} - \\
& a_{177} + a_{183} + a_{187} - a_{189} - a_{196} + 2a_{197} - \\
& a_{208} - a_{210} + a_{214} + a_{216} - a_{220} - 2a_{222} + \\
& 2a_{226} + a_{228} - a_{230} - a_{297} + 2a_{300} + a_{301} - \\
& a_{315} + a_{316} + a_{326} + a_{327} + a_{330} + a_{334} + \\
& a_{336} + a_{338} + a_{340} + a_{341} - a_{342} - a_{344} + \\
& a_{347} + a_{348} + a_{350} + a_{353} - 2a_{354} - a_{355} - \\
& a_{357} + a_{358} + a_{362} - a_{364} + a_{365} + a_{367} - \\
& a_{369} + a_{375} + a_{376} + a_{378} + 3a_{379} + a_{385} + \\
& a_{386} - a_{388} - a_{400} - a_{402} + a_{403} + a_{406} + \\
& a_{409} - a_{412} - a_{414} - a_{419} - a_{422} \\
a_{553} &= \frac{a_{297} - \sqrt{a_{297}^2 - 4x}}{2} \\
x &= a_6 + a_3 - a_{10} - a_{11} + a_{12} - a_{28} + \\
& a_{29} - a_{30} + a_{15} - a_{45} - 2a_{47} + a_{49} + \\
& a_{51} - a_{52} - a_{54} - a_{55} + a_{109} - a_{113} + \\
& a_{114} - a_{115} - a_{125} + a_{126} - 2a_{63} - a_{68} + \\
& a_{69} - a_{70} - a_{71} + a_{170} - a_{173} + a_{177} - \\
& a_{178} + a_{184} + a_{188} - a_{190} - a_{197} + 2a_{198} - \\
& a_{209} - a_{211} + a_{215} + a_{217} - a_{221} - 2a_{223} + \\
& 2a_{227} + a_{229} - a_{231} - a_{298} + 2a_{301} + a_{302} - \\
& a_{316} + a_{317} + a_{327} + a_{328} + a_{331} + a_{335} + \\
& a_{337} + a_{339} + a_{341} + a_{342} - a_{343} - a_{345} + \\
& a_{348} + a_{349} + a_{351} + a_{354} - 2a_{355} - a_{356} - \\
& a_{358} + a_{359} + a_{363} - a_{365} + a_{366} + a_{368} - \\
& a_{370} + a_{376} + a_{377} + a_{379} + 3a_{380} + a_{386} + \\
& a_{387} - a_{389} - a_{401} - a_{403} + a_{404} + a_{407} + \\
& a_{410} - a_{413} - a_{415} - a_{420} - a_{423} \\
a_{554} &= \frac{a_{298} + \sqrt{a_{298}^2 - 4x}}{2} \\
x &= a_3 + a_4 - a_{11} - a_{12} + a_{13} - a_{29} + \\
& a_{30} - a_{15} + a_{16} - a_{46} - 2a_{48} + a_{50} + \\
& a_{52} - a_{53} - a_{55} - a_{56} + a_{110} - a_{114} + \\
& a_{115} - a_{116} - a_{126} + a_{63} - 2a_{64} - a_{69} + \\
& a_{70} - a_{71} - a_{72} + a_{171} - a_{174} + a_{178} - \\
& a_{179} + a_{185} + a_{189} - a_{191} - a_{198} + 2a_{199} - \\
& a_{210} - a_{212} + a_{216} + a_{218} - a_{222} - 2a_{224} + \\
& 2a_{228} + a_{230} - a_{232} - a_{299} + 2a_{302} + a_{303} - \\
& a_{317} + a_{318} + a_{328} + a_{329} + a_{332} + a_{336} + \\
& a_{338} + a_{340} + a_{342} + a_{343} - a_{344} - a_{346} + \\
& a_{349} + a_{350} + a_{352} + a_{355} - 2a_{356} - a_{357} - \\
& a_{359} + a_{360} + a_{364} - a_{366} + a_{367} + a_{369} - \\
& a_{371} + a_{377} + a_{378} + a_{380} + 3a_{381} + a_{387} + \\
& a_{388} - a_{390} - a_{402} - a_{404} + a_{405} + a_{408} + \\
& a_{411} - a_{414} - a_{416} - a_{421} - a_{424} \\
a_{555} &= \frac{a_{299} + \sqrt{a_{299}^2 - 4x}}{2} \\
x &= a_4 + a_5 - a_{12} - a_{13} + a_{14} - a_{30} + \\
& a_{15} - a_{16} + a_{17} - a_{47} - 2a_{49} + a_{51} + \\
& a_{53} - a_{54} - a_{56} - a_{57} + a_{111} - a_{115} + \\
& a_{116} - a_{117} - a_{63} + a_{64} - 2a_{65} - a_{70} +
\end{aligned}
$$

$$
\begin{aligned}
& a_{71} - a_{72} - a_{73} + a_{172} - a_{175} + a_{179} - \\
& a_{180} + a_{186} + a_{190} - a_{192} - a_{199} + 2a_{200} - \\
& a_{211} - a_{213} + a_{217} + a_{219} - a_{223} - 2a_{225} + \\
& 2a_{229} + a_{231} - a_{233} - a_{300} + 2a_{303} + a_{304} - \\
& a_{318} + a_{319} + a_{329} + a_{330} + a_{333} + a_{337} + \\
& a_{339} + a_{341} + a_{343} + a_{344} - a_{345} - a_{347} + \\
& a_{350} + a_{351} + a_{353} + a_{356} - 2a_{357} - a_{358} - \\
& a_{360} + a_{361} + a_{365} - a_{367} + a_{368} + a_{370} - \\
& a_{372} + a_{378} + a_{379} + a_{381} + 3a_{382} + a_{388} + \\
& a_{389} - a_{391} - a_{403} - a_{405} + a_{406} + a_{409} + \\
& a_{412} - a_{415} - a_{417} - a_{422} - a_{425}
\end{aligned}
$$

$$
a_{556} = \frac{a_{300} + \sqrt{a_{300}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_5 + a_6 - a_{13} - a_{14} + a_7 - a_{15} + \\
& a_{16} - a_{17} + a_{18} - a_{48} - 2a_{50} + a_{52} + \\
& a_{54} - a_{55} - a_{57} - a_{58} + a_{112} - a_{116} + \\
& a_{117} - a_{118} - a_{64} + a_{65} - 2a_{66} - a_{71} + \\
& a_{72} - a_{73} - a_{74} + a_{173} - a_{176} + a_{180} - \\
& a_{181} + a_{187} + a_{191} - a_{193} - a_{200} + 2a_{201} - \\
& a_{212} - a_{214} + a_{218} + a_{220} - a_{224} - 2a_{226} + \\
& 2a_{230} + a_{232} - a_{234} - a_{301} + 2a_{304} + a_{305} - \\
& a_{319} + a_{320} + a_{330} + a_{331} + a_{334} + a_{338} + \\
& a_{340} + a_{342} + a_{344} + a_{345} - a_{346} - a_{348} + \\
& a_{351} + a_{352} + a_{354} + a_{357} - 2a_{358} - a_{359} - \\
& a_{361} + a_{362} + a_{366} - a_{368} + a_{369} + a_{371} - \\
& a_{373} + a_{379} + a_{380} + a_{382} + 3a_{383} + a_{389} + \\
& a_{390} - a_{392} - a_{404} - a_{406} + a_{407} + a_{410} + \\
& a_{413} - a_{416} - a_{418} - a_{423} - a_{426}
\end{aligned}
$$

$$
a_{557} = \frac{a_{301} + \sqrt{a_{301}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_6 + a_3 - a_{14} - a_7 + a_8 - a_{16} + \\
& a_{17} - a_{18} + a_{19} - a_{49} - 2a_{51} + a_{53} + \\
& a_{55} - a_{56} - a_{58} - a_{59} + a_{113} - a_{117} + \\
& a_{118} - a_{119} - a_{65} + a_{66} - 2a_{67} - a_{72} + \\
& a_{73} - a_{74} - a_{75} + a_{174} - a_{177} + a_{181} - \\
& a_{182} + a_{188} + a_{192} - a_{194} - a_{201} + 2a_{202} - \\
& a_{213} - a_{215} + a_{219} + a_{221} - a_{225} - 2a_{227} + \\
& 2a_{231} + a_{233} - a_{235} - a_{302} + 2a_{305} + a_{306} - \\
& a_{320} + a_{321} + a_{331} + a_{332} + a_{335} + a_{339} + \\
& a_{341} + a_{343} + a_{345} + a_{346} - a_{347} - a_{349} + \\
& a_{352} + a_{353} + a_{355} + a_{358} - 2a_{359} - a_{360} - \\
& a_{362} + a_{363} + a_{367} - a_{369} + a_{370} + a_{372} - \\
& a_{374} + a_{380} + a_{381} + a_{383} + 3a_{384} + a_{390} + \\
& a_{391} - a_{393} - a_{405} - a_{407} + a_{408} + a_{411} + \\
& a_{414} - a_{417} - a_{419} - a_{424} - a_{427}
\end{aligned}
$$

$$
a_{558} = \frac{a_{302} + \sqrt{a_{302}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_3 + a_4 - a_7 - a_8 + a_9 - a_{17} + \\
& a_{18} - a_{19} + a_{20} - a_{50} - 2a_{52} + a_{54} + \\
& a_{56} - a_{57} - a_{59} - a_{60} + a_{114} - a_{118} + \\
& a_{119} - a_{120} - a_{66} + a_{67} - 2a_{68} - a_{73} + \\
& a_{74} - a_{75} - a_{76} + a_{175} - a_{178} + a_{182} - \\
& a_{183} + a_{189} + a_{193} - a_{195} - a_{202} + 2a_{203} - \\
& a_{214} - a_{216} + a_{220} + a_{222} - a_{226} - 2a_{228} + \\
& 2a_{232} + a_{234} - a_{236} - a_{303} + 2a_{306} + a_{307} - \\
& a_{321} + a_{322} + a_{332} + a_{333} + a_{336} + a_{340} + \\
& a_{342} + a_{344} + a_{346} + a_{347} - a_{348} - a_{350} + \\
& a_{353} + a_{354} + a_{356} + a_{359} - 2a_{360} - a_{361} - \\
& a_{363} + a_{364} + a_{368} - a_{370} + a_{371} + a_{373} - \\
& a_{375} + a_{381} + a_{382} + a_{384} + 3a_{385} + a_{391} + \\
& a_{392} - a_{394} - a_{406} - a_{408} + a_{409} + a_{412} + \\
& a_{415} - a_{418} - a_{420} - a_{425} - a_{428}
\end{aligned}
$$

$$
a_{559} = \frac{a_{303} + \sqrt{a_{303}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_4 + a_5 - a_8 - a_9 + a_{10} - a_{18} + \\
& a_{19} - a_{20} + a_{21} - a_{51} - 2a_{53} + a_{55} + \\
& a_{57} - a_{58} - a_{60} - a_{61} + a_{115} - a_{119} + \\
& a_{120} - a_{121} - a_{67} + a_{68} - 2a_{69} - a_{74} + \\
& a_{75} - a_{76} - a_{77} + a_{176} - a_{179} + a_{183} - \\
& a_{184} + a_{190} + a_{194} - a_{196} - a_{203} + 2a_{204} - \\
& a_{215} - a_{217} + a_{221} + a_{223} - a_{227} - 2a_{229} + \\
& 2a_{233} + a_{235} - a_{237} - a_{304} + 2a_{307} + a_{308} - \\
& a_{322} + a_{323} + a_{333} + a_{334} + a_{337} + a_{341} + \\
& a_{343} + a_{345} + a_{347} + a_{348} - a_{349} - a_{351} + \\
& a_{354} + a_{355} + a_{357} + a_{360} - 2a_{361} - a_{362} - \\
& a_{364} + a_{365} + a_{369} - a_{371} + a_{372} + a_{374} - \\
& a_{376} + a_{382} + a_{383} + a_{385} + 3a_{386} + a_{392} + \\
& a_{393} - a_{395} - a_{407} - a_{409} + a_{410} + a_{413} + \\
& a_{416} - a_{419} - a_{421} - a_{426} - a_{429}
\end{aligned}
$$

$$
a_{560} = \frac{a_{304} - \sqrt{a_{304}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_5 + a_6 - a_9 - a_{10} + a_{11} - a_{19} + \\
& a_{20} - a_{21} + a_{22} - a_{52} - 2a_{54} + a_{56} + \\
& a_{58} - a_{59} - a_{61} - a_{62} + a_{116} - a_{120} + \\
& a_{121} - a_{122} - a_{68} + a_{69} - 2a_{70} - a_{75} + \\
& a_{76} - a_{77} - a_{78} + a_{177} - a_{180} + a_{184} - \\
& a_{185} + a_{191} + a_{195} - a_{197} - a_{204} + 2a_{205} - \\
& a_{216} - a_{218} + a_{222} + a_{224} - a_{228} - 2a_{230} + \\
& 2a_{234} + a_{236} - a_{238} - a_{305} + 2a_{308} + a_{309} - \\
& a_{323} + a_{324} + a_{334} + a_{335} + a_{338} + a_{342} + \\
& a_{344} + a_{346} + a_{348} + a_{349} - a_{350} - a_{352} + \\
& a_{355} + a_{356} + a_{358} + a_{361} - 2a_{362} - a_{363} - \\
& a_{365} + a_{366} + a_{370} - a_{372} + a_{373} + a_{375} - \\
& a_{377} + a_{383} + a_{384} + a_{386} + 3a_{387} + a_{393} + \\
& a_{394} - a_{396} - a_{408} - a_{410} + a_{411} + a_{414} + \\
& a_{417} - a_{420} - a_{422} - a_{427} - a_{430}
\end{aligned}
$$

$$
\begin{aligned}
a_{561} &= \frac{a_{305} - \sqrt{a_{305}^2 - 4x}}{2} \\
x &= a_6 + a_3 - a_{10} - a_{11} + a_{12} - a_{20} + \\
&\quad a_{21} - a_{22} + a_{23} - a_{53} - 2a_{55} + a_{57} + \\
&\quad a_{59} - a_{60} - a_{62} - a_{31} + a_{117} - a_{121} + \\
&\quad a_{122} - a_{123} - a_{69} + a_{70} - 2a_{71} - a_{76} + \\
&\quad a_{77} - a_{78} - a_{79} + a_{178} - a_{181} + a_{185} - \\
&\quad a_{186} + a_{192} + a_{196} - a_{198} - a_{205} + 2a_{206} - \\
&\quad a_{217} - a_{219} + a_{223} + a_{225} - a_{229} - 2a_{231} + \\
&\quad 2a_{235} + a_{237} - a_{239} - a_{306} + 2a_{309} + a_{310} - \\
&\quad a_{324} + a_{325} + a_{335} + a_{336} + a_{339} + a_{343} + \\
&\quad a_{345} + a_{347} + a_{349} + a_{350} - a_{351} - a_{353} + \\
&\quad a_{356} + a_{357} + a_{359} + a_{362} - 2a_{363} - a_{364} - \\
&\quad a_{366} + a_{367} + a_{371} - a_{373} + a_{374} + a_{376} - \\
&\quad a_{378} + a_{384} + a_{385} + a_{387} + 3a_{388} + a_{394} + \\
&\quad a_{395} - a_{397} - a_{409} - a_{411} + a_{412} + a_{415} + \\
&\quad a_{418} - a_{421} - a_{423} - a_{428} - a_{431} \\
a_{562} &= \frac{a_{306} + \sqrt{a_{306}^2 - 4x}}{2} \\
x &= a_3 + a_4 - a_{11} - a_{12} + a_{13} - a_{21} + \\
&\quad a_{22} - a_{23} + a_{24} - a_{54} - 2a_{56} + a_{58} + \\
&\quad a_{60} - a_{61} - a_{31} - a_{32} + a_{118} - a_{122} + \\
&\quad a_{123} - a_{124} - a_{70} + a_{71} - 2a_{72} - a_{77} + \\
&\quad a_{78} - a_{79} - a_{80} + a_{179} - a_{182} + a_{186} - \\
&\quad a_{187} + a_{193} + a_{197} - a_{199} - a_{206} + 2a_{207} - \\
&\quad a_{218} - a_{220} + a_{224} + a_{226} - a_{230} - 2a_{232} + \\
&\quad 2a_{236} + a_{238} - a_{240} - a_{307} + 2a_{310} + a_{311} - \\
&\quad a_{325} + a_{326} + a_{336} + a_{337} + a_{340} + a_{344} + \\
&\quad a_{346} + a_{348} + a_{350} + a_{351} - a_{352} - a_{354} + \\
&\quad a_{357} + a_{358} + a_{360} + a_{363} - 2a_{364} - a_{365} - \\
&\quad a_{367} + a_{368} + a_{372} - a_{374} + a_{375} + a_{377} - \\
&\quad a_{379} + a_{385} + a_{386} + a_{388} + 3a_{389} + a_{395} + \\
&\quad a_{396} - a_{398} - a_{410} - a_{412} + a_{413} + a_{416} + \\
&\quad a_{419} - a_{422} - a_{424} - a_{429} - a_{432} \\
a_{563} &= \frac{a_{307} - \sqrt{a_{307}^2 - 4x}}{2} \\
x &= a_4 + a_5 - a_{12} - a_{13} + a_{14} - a_{22} + \\
&\quad a_{23} - a_{24} + a_{25} - a_{55} - 2a_{57} + a_{59} + \\
&\quad a_{61} - a_{62} - a_{32} - a_{33} + a_{119} - a_{123} + \\
&\quad a_{124} - a_{125} - a_{71} + a_{72} - 2a_{73} - a_{78} + \\
&\quad a_{79} - a_{80} - a_{81} + a_{180} - a_{183} + a_{187} - \\
&\quad a_{188} + a_{194} + a_{198} - a_{200} - a_{207} + 2a_{208} - \\
&\quad a_{219} - a_{221} + a_{225} + a_{227} - a_{231} - 2a_{233} + \\
&\quad 2a_{237} + a_{239} - a_{241} - a_{308} + 2a_{311} + a_{312} - \\
&\quad a_{326} + a_{327} + a_{337} + a_{338} + a_{341} + a_{345} + \\
&\quad a_{347} + a_{349} + a_{351} + a_{352} - a_{353} - a_{355} + \\
&\quad a_{358} + a_{359} + a_{361} + a_{364} - 2a_{365} - a_{366} - \\
&\quad a_{368} + a_{369} + a_{373} - a_{375} + a_{376} + a_{378} - \\
&\quad a_{380} + a_{386} + a_{387} + a_{389} + 3a_{390} + a_{396} + \\
&\quad a_{397} - a_{399} - a_{411} - a_{413} + a_{414} + a_{417} + \\
&\quad a_{420} - a_{423} - a_{425} - a_{430} - a_{433} \\
a_{564} &= \frac{a_{308} + \sqrt{a_{308}^2 - 4x}}{2} \\
x &= a_5 + a_6 - a_{13} - a_{14} + a_7 - a_{23} + \\
&\quad a_{24} - a_{25} + a_{26} - a_{56} - 2a_{58} + a_{60} + \\
&\quad a_{62} - a_{31} - a_{33} - a_{34} + a_{120} - a_{124} + \\
&\quad a_{125} - a_{126} - a_{72} + a_{73} - 2a_{74} - a_{79} + \\
&\quad a_{80} - a_{81} - a_{82} + a_{181} - a_{184} + a_{188} - \\
&\quad a_{189} + a_{195} + a_{199} - a_{201} - a_{208} + 2a_{209} - \\
&\quad a_{220} - a_{222} + a_{226} + a_{228} - a_{232} - 2a_{234} + \\
&\quad 2a_{238} + a_{240} - a_{242} - a_{309} + 2a_{312} + a_{313} - \\
&\quad a_{327} + a_{328} + a_{338} + a_{339} + a_{342} + a_{346} + \\
&\quad a_{348} + a_{350} + a_{352} + a_{353} - a_{354} - a_{356} + \\
&\quad a_{359} + a_{360} + a_{362} + a_{365} - 2a_{366} - a_{367} - \\
&\quad a_{369} + a_{370} + a_{374} - a_{376} + a_{377} + a_{379} - \\
&\quad a_{381} + a_{387} + a_{388} + a_{390} + 3a_{391} + a_{397} + \\
&\quad a_{398} - a_{400} - a_{412} - a_{414} + a_{415} + a_{418} + \\
&\quad a_{421} - a_{424} - a_{426} - a_{431} - a_{434} \\
a_{565} &= \frac{a_{309} + \sqrt{a_{309}^2 - 4x}}{2} \\
x &= a_6 + a_3 - a_{14} - a_7 + a_8 - a_{24} + \\
&\quad a_{25} - a_{26} + a_{27} - a_{57} - 2a_{59} + a_{61} + \\
&\quad a_{31} - a_{32} - a_{34} - a_{35} + a_{121} - a_{125} + \\
&\quad a_{126} - a_{63} - a_{73} + a_{74} - 2a_{75} - a_{80} + \\
&\quad a_{81} - a_{82} - a_{83} + a_{182} - a_{185} + a_{189} - \\
&\quad a_{190} + a_{196} + a_{200} - a_{202} - a_{209} + 2a_{210} - \\
&\quad a_{221} - a_{223} + a_{227} + a_{229} - a_{233} - 2a_{235} + \\
&\quad 2a_{239} + a_{241} - a_{243} - a_{310} + 2a_{313} + a_{314} - \\
&\quad a_{328} + a_{329} + a_{339} + a_{340} + a_{343} + a_{347} + \\
&\quad a_{349} + a_{351} + a_{353} + a_{354} - a_{355} - a_{357} + \\
&\quad a_{360} + a_{361} + a_{363} + a_{366} - 2a_{367} - a_{368} - \\
&\quad a_{370} + a_{371} + a_{375} - a_{377} + a_{378} + a_{380} - \\
&\quad a_{382} + a_{388} + a_{389} + a_{391} + 3a_{392} + a_{398} + \\
&\quad a_{399} - a_{401} - a_{413} - a_{415} + a_{416} + a_{419} + \\
&\quad a_{422} - a_{425} - a_{427} - a_{432} - a_{435} \\
a_{566} &= \frac{a_{310} - \sqrt{a_{310}^2 - 4x}}{2} \\
x &= a_3 + a_4 - a_7 - a_8 + a_9 - a_{25} + \\
&\quad a_{26} - a_{27} + a_{28} - a_{58} - 2a_{60} + a_{62} + \\
&\quad a_{32} - a_{33} - a_{35} - a_{36} + a_{122} - a_{126} + \\
&\quad a_{63} - a_{64} - a_{74} + a_{75} - 2a_{76} - a_{81} + \\
&\quad a_{82} - a_{83} - a_{84} + a_{183} - a_{186} + a_{190} - \\
&\quad a_{191} + a_{197} + a_{201} - a_{203} - a_{210} + 2a_{211} - \\
&\quad a_{222} - a_{224} + a_{228} + a_{230} - a_{234} - 2a_{236} + \\
&\quad 2a_{240} + a_{242} - a_{244} - a_{311} + 2a_{314} + a_{315} - \\
&\quad a_{329} + a_{330} + a_{340} + a_{341} + a_{344} + a_{348} + \\
&\quad a_{350} + a_{352} + a_{354} + a_{355} - a_{356} - a_{358} + \\
&\quad a_{361} + a_{362} + a_{364} + a_{367} - 2a_{368} - a_{369} -
\end{aligned}
$$

$$
\begin{aligned}
& a_{371} + a_{372} + a_{376} - a_{378} + a_{379} + a_{381} - \\
& a_{383} + a_{389} + a_{390} + a_{392} + 3a_{393} + a_{399} + \\
& a_{400} - a_{402} - a_{414} - a_{416} + a_{417} + a_{420} + \\
& a_{423} - a_{426} - a_{428} - a_{433} - a_{436} \\
a_{567} &= \frac{a_{311} - \sqrt{a_{311}^2 - 4x}}{2} \\
x &= a_4 + a_5 - a_8 - a_9 + a_{10} - a_{26} + \\
& a_{27} - a_{28} + a_{29} - a_{59} - 2a_{61} + a_{31} + \\
& a_{33} - a_{34} - a_{36} - a_{37} + a_{123} - a_{63} + \\
& a_{64} - a_{65} - a_{75} + a_{76} - 2a_{77} - a_{82} + \\
& a_{83} - a_{84} - a_{85} + a_{184} - a_{187} + a_{191} - \\
& a_{192} + a_{198} + a_{202} - a_{204} - a_{211} + 2a_{212} - \\
& a_{223} - a_{225} + a_{229} + a_{231} - a_{235} - 2a_{237} + \\
& 2a_{241} + a_{243} - a_{245} - a_{312} + 2a_{315} + a_{316} - \\
& a_{330} + a_{331} + a_{341} + a_{342} + a_{345} + a_{349} + \\
& a_{351} + a_{353} + a_{355} + a_{356} - a_{357} - a_{359} + \\
& a_{362} + a_{363} + a_{365} + a_{368} - 2a_{369} - a_{370} - \\
& a_{372} + a_{373} + a_{377} - a_{379} + a_{380} + a_{382} - \\
& a_{384} + a_{390} + a_{391} + a_{393} + 3a_{394} + a_{400} + \\
& a_{401} - a_{403} - a_{415} - a_{417} + a_{418} + a_{421} + \\
& a_{424} - a_{427} - a_{429} - a_{434} - a_{437} \\
a_{568} &= \frac{a_{312} + \sqrt{a_{312}^2 - 4x}}{2} \\
x &= a_5 + a_6 - a_9 - a_{10} + a_{11} - a_{27} + \\
& a_{28} - a_{29} + a_{30} - a_{60} - 2a_{62} + a_{32} + \\
& a_{34} - a_{35} - a_{37} - a_{38} + a_{124} - a_{64} + \\
& a_{65} - a_{66} - a_{76} + a_{77} - 2a_{78} - a_{83} + \\
& a_{84} - a_{85} - a_{86} + a_{185} - a_{188} + a_{192} - \\
& a_{193} + a_{199} + a_{203} - a_{205} - a_{212} + 2a_{213} - \\
& a_{224} - a_{226} + a_{230} + a_{232} - a_{236} - 2a_{238} + \\
& 2a_{242} + a_{244} - a_{246} - a_{313} + 2a_{316} + a_{317} - \\
& a_{331} + a_{332} + a_{342} + a_{343} + a_{346} + a_{350} + \\
& a_{352} + a_{354} + a_{356} + a_{357} - a_{358} - a_{360} + \\
& a_{363} + a_{364} + a_{366} + a_{369} - 2a_{370} - a_{371} - \\
& a_{373} + a_{374} + a_{378} - a_{380} + a_{381} + a_{383} - \\
& a_{385} + a_{391} + a_{392} + a_{394} + 3a_{395} + a_{401} + \\
& a_{402} - a_{404} - a_{416} - a_{418} + a_{419} + a_{422} + \\
& a_{425} - a_{428} - a_{430} - a_{435} - a_{438} \\
a_{569} &= \frac{a_{313} + \sqrt{a_{313}^2 - 4x}}{2} \\
x &= a_6 + a_3 - a_{10} - a_{11} + a_{12} - a_{28} + \\
& a_{29} - a_{30} + a_{15} - a_{61} - 2a_{31} + a_{33} + \\
& a_{35} - a_{36} - a_{38} - a_{39} + a_{125} - a_{65} + \\
& a_{66} - a_{67} - a_{77} + a_{78} - 2a_{79} - a_{84} + \\
& a_{85} - a_{86} - a_{87} + a_{186} - a_{189} + a_{193} - \\
& a_{194} + a_{200} + a_{204} - a_{206} - a_{213} + 2a_{214} - \\
& a_{225} - a_{227} + a_{231} + a_{233} - a_{237} - 2a_{239} + \\
& 2a_{243} + a_{245} - a_{247} - a_{314} + 2a_{317} + a_{318} - \\
& a_{332} + a_{333} + a_{343} + a_{344} + a_{347} + a_{351} + \\
& a_{353} + a_{355} + a_{357} + a_{358} - a_{359} - a_{361} + \\
& a_{364} + a_{365} + a_{367} + a_{370} - 2a_{371} - a_{372} - \\
& a_{374} + a_{375} + a_{379} - a_{381} + a_{382} + a_{384} - \\
& a_{386} + a_{392} + a_{393} + a_{395} + 3a_{396} + a_{402} + \\
& a_{403} - a_{405} - a_{417} - a_{419} + a_{420} + a_{423} + \\
& a_{426} - a_{429} - a_{431} - a_{436} - a_{439} \\
a_{570} &= \frac{a_{314} - \sqrt{a_{314}^2 - 4x}}{2} \\
x &= a_3 + a_4 - a_{11} - a_{12} + a_{13} - a_{29} + \\
& a_{30} - a_{15} + a_{16} - a_{62} - 2a_{32} + a_{34} + \\
& a_{36} - a_{37} - a_{39} - a_{40} + a_{126} - a_{66} + \\
& a_{67} - a_{68} - a_{78} + a_{79} - 2a_{80} - a_{85} + \\
& a_{86} - a_{87} - a_{88} + a_{187} - a_{190} + a_{194} - \\
& a_{195} + a_{201} + a_{205} - a_{207} - a_{214} + 2a_{215} - \\
& a_{226} - a_{228} + a_{232} + a_{234} - a_{238} - 2a_{240} + \\
& 2a_{244} + a_{246} - a_{248} - a_{315} + 2a_{318} + a_{319} - \\
& a_{333} + a_{334} + a_{344} + a_{345} + a_{348} + a_{352} + \\
& a_{354} + a_{356} + a_{358} + a_{359} - a_{360} - a_{362} + \\
& a_{365} + a_{366} + a_{368} + a_{371} - 2a_{372} - a_{373} - \\
& a_{375} + a_{376} + a_{380} - a_{382} + a_{383} + a_{385} - \\
& a_{387} + a_{393} + a_{394} + a_{396} + 3a_{397} + a_{403} + \\
& a_{404} - a_{406} - a_{418} - a_{420} + a_{421} + a_{424} + \\
& a_{427} - a_{430} - a_{432} - a_{437} - a_{440} \\
a_{571} &= \frac{a_{315} - \sqrt{a_{315}^2 - 4x}}{2} \\
x &= a_4 + a_5 - a_{12} - a_{13} + a_{14} - a_{30} + \\
& a_{15} - a_{16} + a_{17} - a_{31} - 2a_{33} + a_{35} + \\
& a_{37} - a_{38} - a_{40} - a_{41} + a_{63} - a_{67} + \\
& a_{68} - a_{69} - a_{79} + a_{80} - 2a_{81} - a_{86} + \\
& a_{87} - a_{88} - a_{89} + a_{188} - a_{191} + a_{195} - \\
& a_{196} + a_{202} + a_{206} - a_{208} - a_{215} + 2a_{216} - \\
& a_{227} - a_{229} + a_{233} + a_{235} - a_{239} - 2a_{241} + \\
& 2a_{245} + a_{247} - a_{249} - a_{316} + 2a_{319} + a_{320} - \\
& a_{334} + a_{335} + a_{345} + a_{346} + a_{349} + a_{353} + \\
& a_{355} + a_{357} + a_{359} + a_{360} - a_{361} - a_{363} + \\
& a_{366} + a_{367} + a_{369} + a_{372} - 2a_{373} - a_{374} - \\
& a_{376} + a_{377} + a_{381} - a_{383} + a_{384} + a_{386} - \\
& a_{388} + a_{394} + a_{395} + a_{397} + 3a_{398} + a_{404} + \\
& a_{405} - a_{407} - a_{419} - a_{421} + a_{422} + a_{425} + \\
& a_{428} - a_{431} - a_{433} - a_{438} - a_{441} \\
a_{572} &= \frac{a_{316} + \sqrt{a_{316}^2 - 4x}}{2} \\
x &= a_5 + a_6 - a_{13} - a_{14} + a_7 - a_{15} + \\
& a_{16} - a_{17} + a_{18} - a_{32} - 2a_{34} + a_{36} + \\
& a_{38} - a_{39} - a_{41} - a_{42} + a_{64} - a_{68} + \\
& a_{69} - a_{70} - a_{80} + a_{81} - 2a_{82} - a_{87} + \\
& a_{88} - a_{89} - a_{90} + a_{189} - a_{192} + a_{196} - \\
& a_{197} + a_{203} + a_{207} - a_{209} - a_{216} + 2a_{217} -
\end{aligned}
$$

$$
\begin{aligned}
& a_{228} - a_{230} + a_{234} + a_{236} - a_{240} - 2a_{242} + \\
& 2a_{246} + a_{248} - a_{250} - a_{317} + 2a_{320} + a_{321} - \\
& a_{335} + a_{336} + a_{346} + a_{347} + a_{350} + a_{354} + \\
& a_{356} + a_{358} + a_{360} + a_{361} - a_{362} - a_{364} + \\
& a_{367} + a_{368} + a_{370} + a_{373} - 2a_{374} - a_{375} - \\
& a_{377} + a_{378} + a_{382} - a_{384} + a_{385} + a_{387} - \\
& a_{389} + a_{395} + a_{396} + a_{398} + 3a_{399} + a_{405} + \\
& a_{406} - a_{408} - a_{420} - a_{422} + a_{423} + a_{426} + \\
& a_{429} - a_{432} - a_{434} - a_{439} - a_{442}
\end{aligned}
$$

$$
a_{573} = \frac{a_{317} + \sqrt{a_{317}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_6 + a_3 - a_{14} - a_7 + a_8 - a_{16} + \\
& a_{17} - a_{18} + a_{19} - a_{33} - 2a_{35} + a_{37} + \\
& a_{39} - a_{40} - a_{42} - a_{43} + a_{65} - a_{69} + \\
& a_{70} - a_{71} - a_{81} + a_{82} - 2a_{83} - a_{88} + \\
& a_{89} - a_{90} - a_{91} + a_{190} - a_{193} + a_{197} - \\
& a_{198} + a_{204} + a_{208} - a_{210} - a_{217} + 2a_{218} - \\
& a_{229} - a_{231} + a_{235} + a_{237} - a_{241} - 2a_{243} + \\
& 2a_{247} + a_{249} - a_{251} - a_{318} + 2a_{321} + a_{322} - \\
& a_{336} + a_{337} + a_{347} + a_{348} + a_{351} + a_{355} + \\
& a_{357} + a_{359} + a_{361} + a_{362} - a_{363} - a_{365} + \\
& a_{368} + a_{369} + a_{371} + a_{374} - 2a_{375} - a_{376} - \\
& a_{378} + a_{379} + a_{383} - a_{385} + a_{386} + a_{388} - \\
& a_{390} + a_{396} + a_{397} + a_{399} + 3a_{400} + a_{406} + \\
& a_{407} - a_{409} - a_{421} - a_{423} + a_{424} + a_{427} + \\
& a_{430} - a_{433} - a_{435} - a_{440} - a_{443}
\end{aligned}
$$

$$
a_{574} = \frac{a_{318} - \sqrt{a_{318}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_3 + a_4 - a_7 - a_8 + a_9 - a_{17} + \\
& a_{18} - a_{19} + a_{20} - a_{34} - 2a_{36} + a_{38} + \\
& a_{40} - a_{41} - a_{43} - a_{44} + a_{66} - a_{70} + \\
& a_{71} - a_{72} - a_{82} + a_{83} - 2a_{84} - a_{89} + \\
& a_{90} - a_{91} - a_{92} + a_{191} - a_{194} + a_{198} - \\
& a_{199} + a_{205} + a_{209} - a_{211} - a_{218} + 2a_{219} - \\
& a_{230} - a_{232} + a_{236} + a_{238} - a_{242} - 2a_{244} + \\
& 2a_{248} + a_{250} - a_{252} - a_{319} + 2a_{322} + a_{323} - \\
& a_{337} + a_{338} + a_{348} + a_{349} + a_{352} + a_{356} + \\
& a_{358} + a_{360} + a_{362} + a_{363} - a_{364} - a_{366} + \\
& a_{369} + a_{370} + a_{372} + a_{375} - 2a_{376} - a_{377} - \\
& a_{379} + a_{380} + a_{384} - a_{386} + a_{387} + a_{389} - \\
& a_{391} + a_{397} + a_{398} + a_{400} + 3a_{401} + a_{407} + \\
& a_{408} - a_{410} - a_{422} - a_{424} + a_{425} + a_{428} + \\
& a_{431} - a_{434} - a_{436} - a_{441} - a_{444}
\end{aligned}
$$

$$
a_{575} = \frac{a_{319} + \sqrt{a_{319}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_4 + a_5 - a_8 - a_9 + a_{10} - a_{18} + \\
& a_{19} - a_{20} + a_{21} - a_{35} - 2a_{37} + a_{39} + \\
& a_{41} - a_{42} - a_{44} - a_{45} + a_{67} - a_{71} + \\
& a_{72} - a_{73} - a_{83} + a_{84} - 2a_{85} - a_{90} + \\
& a_{91} - a_{92} - a_{93} + a_{192} - a_{195} + a_{199} - \\
& a_{200} + a_{206} + a_{210} - a_{212} - a_{219} + 2a_{220} - \\
& a_{231} - a_{233} + a_{237} + a_{239} - a_{243} - 2a_{245} + \\
& 2a_{249} + a_{251} - a_{253} - a_{320} + 2a_{323} + a_{324} - \\
& a_{338} + a_{339} + a_{349} + a_{350} + a_{353} + a_{357} + \\
& a_{359} + a_{361} + a_{363} + a_{364} - a_{365} - a_{367} + \\
& a_{370} + a_{371} + a_{373} + a_{376} - 2a_{377} - a_{378} - \\
& a_{380} + a_{381} + a_{385} - a_{387} + a_{388} + a_{390} - \\
& a_{392} + a_{398} + a_{399} + a_{401} + 3a_{402} + a_{408} + \\
& a_{409} - a_{411} - a_{423} - a_{425} + a_{426} + a_{429} + \\
& a_{432} - a_{435} - a_{437} - a_{442} - a_{445}
\end{aligned}
$$

$$
a_{576} = \frac{a_{320} + \sqrt{a_{320}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_5 + a_6 - a_9 - a_{10} + a_{11} - a_{19} + \\
& a_{20} - a_{21} + a_{22} - a_{36} - 2a_{38} + a_{40} + \\
& a_{42} - a_{43} - a_{45} - a_{46} + a_{68} - a_{72} + \\
& a_{73} - a_{74} - a_{84} + a_{85} - 2a_{86} - a_{91} + \\
& a_{92} - a_{93} - a_{94} + a_{193} - a_{196} + a_{200} - \\
& a_{201} + a_{207} + a_{211} - a_{213} - a_{220} + 2a_{221} - \\
& a_{232} - a_{234} + a_{238} + a_{240} - a_{244} - 2a_{246} + \\
& 2a_{250} + a_{252} - a_{254} - a_{321} + 2a_{324} + a_{325} - \\
& a_{339} + a_{340} + a_{350} + a_{351} + a_{354} + a_{358} + \\
& a_{360} + a_{362} + a_{364} + a_{365} - a_{366} - a_{368} + \\
& a_{371} + a_{372} + a_{374} + a_{377} - 2a_{378} - a_{379} - \\
& a_{381} + a_{382} + a_{386} - a_{388} + a_{389} + a_{391} - \\
& a_{393} + a_{399} + a_{400} + a_{402} + 3a_{403} + a_{409} + \\
& a_{410} - a_{412} - a_{424} - a_{426} + a_{427} + a_{430} + \\
& a_{433} - a_{436} - a_{438} - a_{443} - a_{446}
\end{aligned}
$$

$$
a_{577} = \frac{a_{321} - \sqrt{a_{321}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_6 + a_3 - a_{10} - a_{11} + a_{12} - a_{20} + \\
& a_{21} - a_{22} + a_{23} - a_{37} - 2a_{39} + a_{41} + \\
& a_{43} - a_{44} - a_{46} - a_{47} + a_{69} - a_{73} + \\
& a_{74} - a_{75} - a_{85} + a_{86} - 2a_{87} - a_{92} + \\
& a_{93} - a_{94} - a_{95} + a_{194} - a_{197} + a_{201} - \\
& a_{202} + a_{208} + a_{212} - a_{214} - a_{221} + 2a_{222} - \\
& a_{233} - a_{235} + a_{239} + a_{241} - a_{245} - 2a_{247} + \\
& 2a_{251} + a_{253} - a_{127} - a_{322} + 2a_{325} + a_{326} - \\
& a_{340} + a_{341} + a_{351} + a_{352} + a_{355} + a_{359} + \\
& a_{361} + a_{363} + a_{365} + a_{366} - a_{367} - a_{369} + \\
& a_{372} + a_{373} + a_{375} + a_{378} - 2a_{379} - a_{380} - \\
& a_{382} + a_{383} + a_{387} - a_{389} + a_{390} + a_{392} - \\
& a_{394} + a_{400} + a_{401} + a_{403} + 3a_{404} + a_{410} + \\
& a_{411} - a_{413} - a_{425} - a_{427} + a_{428} + a_{431} + \\
& a_{434} - a_{437} - a_{439} - a_{444} - a_{447}
\end{aligned}
$$

$$
a_{578} = \frac{a_{322} - \sqrt{a_{322}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_3 + a_4 - a_{11} - a_{12} + a_{13} - a_{21} + \\
& a_{22} - a_{23} + a_{24} - a_{38} - 2a_{40} + a_{42} +
\end{aligned}
$$

$$
\begin{aligned}
& a_{44} - a_{45} - a_{47} - a_{48} + a_{70} - a_{74} + \\
& a_{75} - a_{76} - a_{86} + a_{87} - 2a_{88} - a_{93} + \\
& a_{94} - a_{95} - a_{96} + a_{195} - a_{198} + a_{202} - \\
& a_{203} + a_{209} + a_{213} - a_{215} - a_{222} + 2a_{223} - \\
& a_{234} - a_{236} + a_{240} + a_{242} - a_{246} - 2a_{248} + \\
& 2a_{252} + a_{254} - a_{128} - a_{323} + 2a_{326} + a_{327} - \\
& a_{341} + a_{342} + a_{352} + a_{353} + a_{356} + a_{360} + \\
& a_{362} + a_{364} + a_{366} + a_{367} - a_{368} - a_{370} + \\
& a_{373} + a_{374} + a_{376} + a_{379} - 2a_{380} - a_{381} - \\
& a_{383} + a_{384} + a_{388} - a_{390} + a_{391} + a_{393} - \\
& a_{395} + a_{401} + a_{402} + a_{404} + 3a_{405} + a_{411} + \\
& a_{412} - a_{414} - a_{426} - a_{428} + a_{429} + a_{432} + \\
& a_{435} - a_{438} - a_{440} - a_{445} - a_{448}
\end{aligned}
$$

$$
\begin{aligned}
a_{579} &= \frac{a_{323} - \sqrt{a_{323}^2 - 4x}}{2} \\
x &= a_4 + a_5 - a_{12} - a_{13} + a_{14} - a_{22} + \\
& a_{23} - a_{24} + a_{25} - a_{39} - 2a_{41} + a_{43} + \\
& a_{45} - a_{46} - a_{48} - a_{49} + a_{71} - a_{75} + \\
& a_{76} - a_{77} - a_{87} + a_{88} - 2a_{89} - a_{94} + \\
& a_{95} - a_{96} - a_{97} + a_{196} - a_{199} + a_{203} - \\
& a_{204} + a_{210} + a_{214} - a_{216} - a_{223} + 2a_{224} - \\
& a_{235} - a_{237} + a_{241} + a_{243} - a_{247} - 2a_{249} + \\
& 2a_{253} + a_{127} - a_{129} - a_{324} + 2a_{327} + a_{328} - \\
& a_{342} + a_{343} + a_{353} + a_{354} + a_{357} + a_{361} + \\
& a_{363} + a_{365} + a_{367} + a_{368} - a_{369} - a_{371} + \\
& a_{374} + a_{375} + a_{377} + a_{380} - 2a_{381} - a_{382} - \\
& a_{384} + a_{385} + a_{389} - a_{391} + a_{392} + a_{394} - \\
& a_{396} + a_{402} + a_{403} + a_{405} + 3a_{406} + a_{412} + \\
& a_{413} - a_{415} - a_{427} - a_{429} + a_{430} + a_{433} + \\
& a_{436} - a_{439} - a_{441} - a_{446} - a_{449}
\end{aligned}
$$

$$
\begin{aligned}
a_{580} &= \frac{a_{324} - \sqrt{a_{324}^2 - 4x}}{2} \\
x &= a_5 + a_6 - a_{13} - a_{14} + a_7 - a_{23} + \\
& a_{24} - a_{25} + a_{26} - a_{40} - 2a_{42} + a_{44} + \\
& a_{46} - a_{47} - a_{49} - a_{50} + a_{72} - a_{76} + \\
& a_{77} - a_{78} - a_{88} + a_{89} - 2a_{90} - a_{95} + \\
& a_{96} - a_{97} - a_{98} + a_{197} - a_{200} + a_{204} - \\
& a_{205} + a_{211} + a_{215} - a_{217} - a_{224} + 2a_{225} - \\
& a_{236} - a_{238} + a_{242} + a_{244} - a_{248} - 2a_{250} + \\
& 2a_{254} + a_{128} - a_{130} - a_{325} + 2a_{328} + a_{329} - \\
& a_{343} + a_{344} + a_{354} + a_{355} + a_{358} + a_{362} + \\
& a_{364} + a_{366} + a_{368} + a_{369} - a_{370} - a_{372} + \\
& a_{375} + a_{376} + a_{378} + a_{381} - 2a_{382} - a_{383} - \\
& a_{385} + a_{386} + a_{390} - a_{392} + a_{393} + a_{395} - \\
& a_{397} + a_{403} + a_{404} + a_{406} + 3a_{407} + a_{413} + \\
& a_{414} - a_{416} - a_{428} - a_{430} + a_{431} + a_{434} + \\
& a_{437} - a_{440} - a_{442} - a_{447} - a_{450}
\end{aligned}
$$

$$
\begin{aligned}
a_{581} &= \frac{a_{325} - \sqrt{a_{325}^2 - 4x}}{2} \\
x &= a_6 + a_3 - a_{14} - a_7 + a_8 - a_{24} + \\
& a_{25} - a_{26} + a_{27} - a_{41} - 2a_{43} + a_{45} + \\
& a_{47} - a_{48} - a_{50} - a_{51} + a_{73} - a_{77} + \\
& a_{78} - a_{79} - a_{89} + a_{90} - 2a_{91} - a_{96} + \\
& a_{97} - a_{98} - a_{99} + a_{198} - a_{201} + a_{205} - \\
& a_{206} + a_{212} + a_{216} - a_{218} - a_{225} + 2a_{226} - \\
& a_{237} - a_{239} + a_{243} + a_{245} - a_{249} - 2a_{251} + \\
& 2a_{127} + a_{129} - a_{131} - a_{326} + 2a_{329} + a_{330} - \\
& a_{344} + a_{345} + a_{355} + a_{356} + a_{359} + a_{363} + \\
& a_{365} + a_{367} + a_{369} + a_{370} - a_{371} - a_{373} + \\
& a_{376} + a_{377} + a_{379} + a_{382} - 2a_{383} - a_{384} - \\
& a_{386} + a_{387} + a_{391} - a_{393} + a_{394} + a_{396} - \\
& a_{398} + a_{404} + a_{405} + a_{407} + 3a_{408} + a_{414} + \\
& a_{415} - a_{417} - a_{429} - a_{431} + a_{432} + a_{435} + \\
& a_{438} - a_{441} - a_{443} - a_{448} - a_{451}
\end{aligned}
$$

$$
\begin{aligned}
a_{582} &= \frac{a_{326} - \sqrt{a_{326}^2 - 4x}}{2} \\
x &= a_3 + a_4 - a_7 - a_8 + a_9 - a_{25} + \\
& a_{26} - a_{27} + a_{28} - a_{42} - 2a_{44} + a_{46} + \\
& a_{48} - a_{49} - a_{51} - a_{52} + a_{74} - a_{78} + \\
& a_{79} - a_{80} - a_{90} + a_{91} - 2a_{92} - a_{97} + \\
& a_{98} - a_{99} - a_{100} + a_{199} - a_{202} + a_{206} - \\
& a_{207} + a_{213} + a_{217} - a_{219} - a_{226} + 2a_{227} - \\
& a_{238} - a_{240} + a_{244} + a_{246} - a_{250} - 2a_{252} + \\
& 2a_{128} + a_{130} - a_{132} - a_{327} + 2a_{330} + a_{331} - \\
& a_{345} + a_{346} + a_{356} + a_{357} + a_{360} + a_{364} + \\
& a_{366} + a_{368} + a_{370} + a_{371} - a_{372} - a_{374} + \\
& a_{377} + a_{378} + a_{380} + a_{383} - 2a_{384} - a_{385} - \\
& a_{387} + a_{388} + a_{392} - a_{394} + a_{395} + a_{397} - \\
& a_{399} + a_{405} + a_{406} + a_{408} + 3a_{409} + a_{415} + \\
& a_{416} - a_{418} - a_{430} - a_{432} + a_{433} + a_{436} + \\
& a_{439} - a_{442} - a_{444} - a_{449} - a_{452}
\end{aligned}
$$

$$
\begin{aligned}
a_{583} &= \frac{a_{327} - \sqrt{a_{327}^2 - 4x}}{2} \\
x &= a_4 + a_5 - a_8 - a_9 + a_{10} - a_{26} + \\
& a_{27} - a_{28} + a_{29} - a_{43} - 2a_{45} + a_{47} + \\
& a_{49} - a_{50} - a_{52} - a_{53} + a_{75} - a_{79} + \\
& a_{80} - a_{81} - a_{91} + a_{92} - 2a_{93} - a_{98} + \\
& a_{99} - a_{100} - a_{101} + a_{200} - a_{203} + a_{207} - \\
& a_{208} + a_{214} + a_{218} - a_{220} - a_{227} + 2a_{228} - \\
& a_{239} - a_{241} + a_{245} + a_{247} - a_{251} - 2a_{253} + \\
& 2a_{129} + a_{131} - a_{133} - a_{328} + 2a_{331} + a_{332} - \\
& a_{346} + a_{347} + a_{357} + a_{358} + a_{361} + a_{365} + \\
& a_{367} + a_{369} + a_{371} + a_{372} - a_{373} - a_{375} + \\
& a_{378} + a_{379} + a_{381} + a_{384} - 2a_{385} - a_{386} - \\
& a_{388} + a_{389} + a_{393} - a_{395} + a_{396} + a_{398} - \\
& a_{400} + a_{406} + a_{407} + a_{409} + 3a_{410} + a_{416} +
\end{aligned}
$$

$$
\begin{aligned}
& a_{417} - a_{419} - a_{431} - a_{433} + a_{434} + a_{437} + \\
& a_{440} - a_{443} - a_{445} - a_{450} - a_{453} \\
a_{584} &= \frac{a_{328} - \sqrt{a_{328}^2 - 4x}}{2} \\
x &= a_5 + a_6 - a_9 - a_{10} + a_{11} - a_{27} + \\
& a_{28} - a_{29} + a_{30} - a_{44} - 2a_{46} + a_{48} + \\
& a_{50} - a_{51} - a_{53} - a_{54} + a_{76} - a_{80} + \\
& a_{81} - a_{82} - a_{92} + a_{93} - 2a_{94} - a_{99} + \\
& a_{100} - a_{101} - a_{102} + a_{201} - a_{204} + a_{208} - \\
& a_{209} + a_{215} + a_{219} - a_{221} - a_{228} + 2a_{229} - \\
& a_{240} - a_{242} + a_{246} + a_{248} - a_{252} - 2a_{254} + \\
& 2a_{130} + a_{132} - a_{134} - a_{329} + 2a_{332} + a_{333} - \\
& a_{347} + a_{348} + a_{358} + a_{359} + a_{362} + a_{366} + \\
& a_{368} + a_{370} + a_{372} + a_{373} - a_{374} - a_{376} + \\
& a_{379} + a_{380} + a_{382} + a_{385} - 2a_{386} - a_{387} - \\
& a_{389} + a_{390} + a_{394} - a_{396} + a_{397} + a_{399} - \\
& a_{401} + a_{407} + a_{408} + a_{410} + 3a_{411} + a_{417} + \\
& a_{418} - a_{420} - a_{432} - a_{434} + a_{435} + a_{438} + \\
& a_{441} - a_{444} - a_{446} - a_{451} - a_{454} \\
a_{585} &= \frac{a_{329} - \sqrt{a_{329}^2 - 4x}}{2} \\
x &= a_6 + a_3 - a_{10} - a_{11} + a_{12} - a_{28} + \\
& a_{29} - a_{30} + a_{15} - a_{45} - 2a_{47} + a_{49} + \\
& a_{51} - a_{52} - a_{54} - a_{55} + a_{77} - a_{81} + \\
& a_{82} - a_{83} - a_{93} + a_{94} - 2a_{95} - a_{100} + \\
& a_{101} - a_{102} - a_{103} + a_{202} - a_{205} + a_{209} - \\
& a_{210} + a_{216} + a_{220} - a_{222} - a_{229} + 2a_{230} - \\
& a_{241} - a_{243} + a_{247} + a_{249} - a_{253} - 2a_{127} + \\
& 2a_{131} + a_{133} - a_{135} - a_{330} + 2a_{333} + a_{334} - \\
& a_{348} + a_{349} + a_{359} + a_{360} + a_{363} + a_{367} + \\
& a_{369} + a_{371} + a_{373} + a_{374} - a_{375} - a_{377} + \\
& a_{380} + a_{381} + a_{383} + a_{386} - 2a_{387} - a_{388} - \\
& a_{390} + a_{391} + a_{395} - a_{397} + a_{398} + a_{400} - \\
& a_{402} + a_{408} + a_{409} + a_{411} + 3a_{412} + a_{418} + \\
& a_{419} - a_{421} - a_{433} - a_{435} + a_{436} + a_{439} + \\
& a_{442} - a_{445} - a_{447} - a_{452} - a_{455} \\
a_{586} &= \frac{a_{330} + \sqrt{a_{330}^2 - 4x}}{2} \\
x &= a_3 + a_4 - a_{11} - a_{12} + a_{13} - a_{29} + \\
& a_{30} - a_{15} + a_{16} - a_{46} - 2a_{48} + a_{50} + \\
& a_{52} - a_{53} - a_{55} - a_{56} + a_{78} - a_{82} + \\
& a_{83} - a_{84} - a_{94} + a_{95} - 2a_{96} - a_{101} + \\
& a_{102} - a_{103} - a_{104} + a_{203} - a_{206} + a_{210} - \\
& a_{211} + a_{217} + a_{221} - a_{223} - a_{230} + 2a_{231} - \\
& a_{242} - a_{244} + a_{248} + a_{250} - a_{254} - 2a_{128} + \\
& 2a_{132} + a_{134} - a_{136} - a_{331} + 2a_{334} + a_{335} - \\
& a_{349} + a_{350} + a_{360} + a_{361} + a_{364} + a_{368} + \\
& a_{370} + a_{372} + a_{374} + a_{375} - a_{376} - a_{378} + \\
& a_{381} + a_{382} + a_{384} + a_{387} - 2a_{388} - a_{389} - \\
& a_{391} + a_{392} + a_{396} - a_{398} + a_{399} + a_{401} - \\
& a_{403} + a_{409} + a_{410} + a_{412} + 3a_{413} + a_{419} + \\
& a_{420} - a_{422} - a_{434} - a_{436} + a_{437} + a_{440} + \\
& a_{443} - a_{446} - a_{448} - a_{453} - a_{456} \\
a_{587} &= \frac{a_{331} + \sqrt{a_{331}^2 - 4x}}{2} \\
x &= a_4 + a_5 - a_{12} - a_{13} + a_{14} - a_{30} + \\
& a_{15} - a_{16} + a_{17} - a_{47} - 2a_{49} + a_{51} + \\
& a_{53} - a_{54} - a_{56} - a_{57} + a_{79} - a_{83} + \\
& a_{84} - a_{85} - a_{95} + a_{96} - 2a_{97} - a_{102} + \\
& a_{103} - a_{104} - a_{105} + a_{204} - a_{207} + a_{211} - \\
& a_{212} + a_{218} + a_{222} - a_{224} - a_{231} + 2a_{232} - \\
& a_{243} - a_{245} + a_{249} + a_{251} - a_{127} - 2a_{129} + \\
& 2a_{133} + a_{135} - a_{137} - a_{332} + 2a_{335} + a_{336} - \\
& a_{350} + a_{351} + a_{361} + a_{362} + a_{365} + a_{369} + \\
& a_{371} + a_{373} + a_{375} + a_{376} - a_{377} - a_{379} + \\
& a_{382} + a_{383} + a_{385} + a_{388} - 2a_{389} - a_{390} - \\
& a_{392} + a_{393} + a_{397} - a_{399} + a_{400} + a_{402} - \\
& a_{404} + a_{410} + a_{411} + a_{413} + 3a_{414} + a_{420} + \\
& a_{421} - a_{423} - a_{435} - a_{437} + a_{438} + a_{441} + \\
& a_{444} - a_{447} - a_{449} - a_{454} - a_{457} \\
a_{588} &= \frac{a_{332} + \sqrt{a_{332}^2 - 4x}}{2} \\
x &= a_5 + a_6 - a_{13} - a_{14} + a_7 - a_{15} + \\
& a_{16} - a_{17} + a_{18} - a_{48} - 2a_{50} + a_{52} + \\
& a_{54} - a_{55} - a_{57} - a_{58} + a_{80} - a_{84} + \\
& a_{85} - a_{86} - a_{96} + a_{97} - 2a_{98} - a_{103} + \\
& a_{104} - a_{105} - a_{106} + a_{205} - a_{208} + a_{212} - \\
& a_{213} + a_{219} + a_{223} - a_{225} - a_{232} + 2a_{233} - \\
& a_{244} - a_{246} + a_{250} + a_{252} - a_{128} - 2a_{130} + \\
& 2a_{134} + a_{136} - a_{138} - a_{333} + 2a_{336} + a_{337} - \\
& a_{351} + a_{352} + a_{362} + a_{363} + a_{366} + a_{370} + \\
& a_{372} + a_{374} + a_{376} + a_{377} - a_{378} - a_{380} + \\
& a_{383} + a_{384} + a_{386} + a_{389} - 2a_{390} - a_{391} - \\
& a_{393} + a_{394} + a_{398} - a_{400} + a_{401} + a_{403} - \\
& a_{405} + a_{411} + a_{412} + a_{414} + 3a_{415} + a_{421} + \\
& a_{422} - a_{424} - a_{436} - a_{438} + a_{439} + a_{442} + \\
& a_{445} - a_{448} - a_{450} - a_{455} - a_{458} \\
a_{589} &= \frac{a_{333} + \sqrt{a_{333}^2 - 4x}}{2} \\
x &= a_6 + a_3 - a_{14} - a_7 + a_8 - a_{16} + \\
& a_{17} - a_{18} + a_{19} - a_{49} - 2a_{51} + a_{53} + \\
& a_{55} - a_{56} - a_{58} - a_{59} + a_{81} - a_{85} + \\
& a_{86} - a_{87} - a_{97} + a_{98} - 2a_{99} - a_{104} + \\
& a_{105} - a_{106} - a_{107} + a_{206} - a_{209} + a_{213} - \\
& a_{214} + a_{220} + a_{224} - a_{226} - a_{233} + 2a_{234} - \\
& a_{245} - a_{247} + a_{251} + a_{253} - a_{129} - 2a_{131} + \\
& 2a_{135} + a_{137} - a_{139} - a_{334} + 2a_{337} + a_{338} - \\
& a_{352} + a_{353} + a_{363} + a_{364} + a_{367} + a_{371} +
\end{aligned}
$$

$$
\begin{aligned}
& a_{373} + a_{375} + a_{377} + a_{378} - a_{379} - a_{381} + \\
& a_{384} + a_{385} + a_{387} + a_{390} - 2a_{391} - a_{392} - \\
& a_{394} + a_{395} + a_{399} - a_{401} + a_{402} + a_{404} - \\
& a_{406} + a_{412} + a_{413} + a_{415} + 3a_{416} + a_{422} + \\
& a_{423} - a_{425} - a_{437} - a_{439} + a_{440} + a_{443} + \\
& a_{446} - a_{449} - a_{451} - a_{456} - a_{459}
\end{aligned}
$$

$$
\begin{aligned}
a_{590} &= \frac{a_{334} - \sqrt{a_{334}^2 - 4x}}{2} \\
x &= a_3 + a_4 - a_7 - a_8 + a_9 - a_{17} + \\
& a_{18} - a_{19} + a_{20} - a_{50} - 2a_{52} + a_{54} + \\
& a_{56} - a_{57} - a_{59} - a_{60} + a_{82} - a_{86} + \\
& a_{87} - a_{88} - a_{98} + a_{99} - 2a_{100} - a_{105} + \\
& a_{106} - a_{107} - a_{108} + a_{207} - a_{210} + a_{214} - \\
& a_{215} + a_{221} + a_{225} - a_{227} - a_{234} + 2a_{235} - \\
& a_{246} - a_{248} + a_{252} + a_{254} - a_{130} - 2a_{132} + \\
& 2a_{136} + a_{138} - a_{140} - a_{335} + 2a_{338} + a_{339} - \\
& a_{353} + a_{354} + a_{364} + a_{365} + a_{368} + a_{372} + \\
& a_{374} + a_{376} + a_{378} + a_{379} - a_{380} - a_{382} + \\
& a_{385} + a_{386} + a_{388} + a_{391} - 2a_{392} - a_{393} - \\
& a_{395} + a_{396} + a_{400} - a_{402} + a_{403} + a_{405} - \\
& a_{407} + a_{413} + a_{414} + a_{416} + 3a_{417} + a_{423} + \\
& a_{424} - a_{426} - a_{438} - a_{440} + a_{441} + a_{444} + \\
& a_{447} - a_{450} - a_{452} - a_{457} - a_{460}
\end{aligned}
$$

$$
\begin{aligned}
a_{591} &= \frac{a_{335} - \sqrt{a_{335}^2 - 4x}}{2} \\
x &= a_4 + a_5 - a_8 - a_9 + a_{10} - a_{18} + \\
& a_{19} - a_{20} + a_{21} - a_{51} - 2a_{53} + a_{55} + \\
& a_{57} - a_{58} - a_{60} - a_{61} + a_{83} - a_{87} + \\
& a_{88} - a_{89} - a_{99} + a_{100} - 2a_{101} - a_{106} + \\
& a_{107} - a_{108} - a_{109} + a_{208} - a_{211} + a_{215} - \\
& a_{216} + a_{222} + a_{226} - a_{228} - a_{235} + 2a_{236} - \\
& a_{247} - a_{249} + a_{253} + a_{127} - a_{131} - 2a_{133} + \\
& 2a_{137} + a_{139} - a_{141} - a_{336} + 2a_{339} + a_{340} - \\
& a_{354} + a_{355} + a_{365} + a_{366} + a_{369} + a_{373} + \\
& a_{375} + a_{377} + a_{379} + a_{380} - a_{381} - a_{383} + \\
& a_{386} + a_{387} + a_{389} + a_{392} - 2a_{393} - a_{394} - \\
& a_{396} + a_{397} + a_{401} - a_{403} + a_{404} + a_{406} - \\
& a_{408} + a_{414} + a_{415} + a_{417} + 3a_{418} + a_{424} + \\
& a_{425} - a_{427} - a_{439} - a_{441} + a_{442} + a_{445} + \\
& a_{448} - a_{451} - a_{453} - a_{458} - a_{461}
\end{aligned}
$$

$$
\begin{aligned}
a_{592} &= \frac{a_{336} + \sqrt{a_{336}^2 - 4x}}{2} \\
x &= a_5 + a_6 - a_9 - a_{10} + a_{11} - a_{19} + \\
& a_{20} - a_{21} + a_{22} - a_{52} - 2a_{54} + a_{56} + \\
& a_{58} - a_{59} - a_{61} - a_{62} + a_{84} - a_{88} + \\
& a_{89} - a_{90} - a_{100} + a_{101} - 2a_{102} - a_{107} + \\
& a_{108} - a_{109} - a_{110} + a_{209} - a_{212} + a_{216} - \\
& a_{217} + a_{223} + a_{227} - a_{229} - a_{236} + 2a_{237} - \\
& a_{248} - a_{250} + a_{254} + a_{128} - a_{132} - 2a_{134} + \\
& 2a_{138} + a_{140} - a_{142} - a_{337} + 2a_{340} + a_{341} - \\
& a_{355} + a_{356} + a_{366} + a_{367} + a_{370} + a_{374} + \\
& a_{376} + a_{378} + a_{380} + a_{381} - a_{382} - a_{384} + \\
& a_{387} + a_{388} + a_{390} + a_{393} - 2a_{394} - a_{395} - \\
& a_{397} + a_{398} + a_{402} - a_{404} + a_{405} + a_{407} - \\
& a_{409} + a_{415} + a_{416} + a_{418} + 3a_{419} + a_{425} + \\
& a_{426} - a_{428} - a_{440} - a_{442} + a_{443} + a_{446} + \\
& a_{449} - a_{452} - a_{454} - a_{459} - a_{462}
\end{aligned}
$$

$$
\begin{aligned}
a_{593} &= \frac{a_{337} - \sqrt{a_{337}^2 - 4x}}{2} \\
x &= a_6 + a_3 - a_{10} - a_{11} + a_{12} - a_{20} + \\
& a_{21} - a_{22} + a_{23} - a_{53} - 2a_{55} + a_{57} + \\
& a_{59} - a_{60} - a_{62} - a_{31} + a_{85} - a_{89} + \\
& a_{90} - a_{91} - a_{101} + a_{102} - 2a_{103} - a_{108} + \\
& a_{109} - a_{110} - a_{111} + a_{210} - a_{213} + a_{217} - \\
& a_{218} + a_{224} + a_{228} - a_{230} - a_{237} + 2a_{238} - \\
& a_{249} - a_{251} + a_{127} + a_{129} - a_{133} - 2a_{135} + \\
& 2a_{139} + a_{141} - a_{143} - a_{338} + 2a_{341} + a_{342} - \\
& a_{356} + a_{357} + a_{367} + a_{368} + a_{371} + a_{375} + \\
& a_{377} + a_{379} + a_{381} + a_{382} - a_{383} - a_{385} + \\
& a_{388} + a_{389} + a_{391} + a_{394} - 2a_{395} - a_{396} - \\
& a_{398} + a_{399} + a_{403} - a_{405} + a_{406} + a_{408} - \\
& a_{410} + a_{416} + a_{417} + a_{419} + 3a_{420} + a_{426} + \\
& a_{427} - a_{429} - a_{441} - a_{443} + a_{444} + a_{447} + \\
& a_{450} - a_{453} - a_{455} - a_{460} - a_{463}
\end{aligned}
$$

$$
\begin{aligned}
a_{594} &= \frac{a_{338} + \sqrt{a_{338}^2 - 4x}}{2} \\
x &= a_3 + a_4 - a_{11} - a_{12} + a_{13} - a_{21} + \\
& a_{22} - a_{23} + a_{24} - a_{54} - 2a_{56} + a_{58} + \\
& a_{60} - a_{61} - a_{31} - a_{32} + a_{86} - a_{90} + \\
& a_{91} - a_{92} - a_{102} + a_{103} - 2a_{104} - a_{109} + \\
& a_{110} - a_{111} - a_{112} + a_{211} - a_{214} + a_{218} - \\
& a_{219} + a_{225} + a_{229} - a_{231} - a_{238} + 2a_{239} - \\
& a_{250} - a_{252} + a_{128} + a_{130} - a_{134} - 2a_{136} + \\
& 2a_{140} + a_{142} - a_{144} - a_{339} + 2a_{342} + a_{343} - \\
& a_{357} + a_{358} + a_{368} + a_{369} + a_{372} + a_{376} + \\
& a_{378} + a_{380} + a_{382} + a_{383} - a_{384} - a_{386} + \\
& a_{389} + a_{390} + a_{392} + a_{395} - 2a_{396} - a_{397} - \\
& a_{399} + a_{400} + a_{404} - a_{406} + a_{407} + a_{409} - \\
& a_{411} + a_{417} + a_{418} + a_{420} + 3a_{421} + a_{427} + \\
& a_{428} - a_{430} - a_{442} - a_{444} + a_{445} + a_{448} + \\
& a_{451} - a_{454} - a_{456} - a_{461} - a_{464}
\end{aligned}
$$

$$
\begin{aligned}
a_{595} &= \frac{a_{339} - \sqrt{a_{339}^2 - 4x}}{2} \\
x &= a_4 + a_5 - a_{12} - a_{13} + a_{14} - a_{22} + \\
& a_{23} - a_{24} + a_{25} - a_{55} - 2a_{57} + a_{59} + \\
& a_{61} - a_{62} - a_{32} - a_{33} + a_{87} - a_{91} + \\
& a_{92} - a_{93} - a_{103} + a_{104} - 2a_{105} - a_{110} +
\end{aligned}
$$

$$
\begin{aligned}
& a_{111} - a_{112} - a_{113} + a_{212} - a_{215} + a_{219} - \\
& a_{220} + a_{226} + a_{230} - a_{232} - a_{239} + 2a_{240} - \\
& a_{251} - a_{253} + a_{129} + a_{131} - a_{135} - 2a_{137} + \\
& 2a_{141} + a_{143} - a_{145} - a_{340} + 2a_{343} + a_{344} - \\
& a_{358} + a_{359} + a_{369} + a_{370} + a_{373} + a_{377} + \\
& a_{379} + a_{381} + a_{383} + a_{384} - a_{385} - a_{387} + \\
& a_{390} + a_{391} + a_{393} + a_{396} - 2a_{397} - a_{398} - \\
& a_{400} + a_{401} + a_{405} - a_{407} + a_{408} + a_{410} - \\
& a_{412} + a_{418} + a_{419} + a_{421} + 3a_{422} + a_{428} + \\
& a_{429} - a_{431} - a_{443} - a_{445} + a_{446} + a_{449} + \\
& a_{452} - a_{455} - a_{457} - a_{462} - a_{465}
\end{aligned}
$$

$$
a_{596} = \frac{a_{340} - \sqrt{a_{340}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_5 + a_6 - a_{13} - a_{14} + a_7 - a_{23} + \\
& a_{24} - a_{25} + a_{26} - a_{56} - 2a_{58} + a_{60} + \\
& a_{62} - a_{31} - a_{33} - a_{34} + a_{88} - a_{92} + \\
& a_{93} - a_{94} - a_{104} + a_{105} - 2a_{106} - a_{111} + \\
& a_{112} - a_{113} - a_{114} + a_{213} - a_{216} + a_{220} - \\
& a_{221} + a_{227} + a_{231} - a_{233} - a_{240} + 2a_{241} - \\
& a_{252} - a_{254} + a_{130} + a_{132} - a_{136} - 2a_{138} + \\
& 2a_{142} + a_{144} - a_{146} - a_{341} + 2a_{344} + a_{345} - \\
& a_{359} + a_{360} + a_{370} + a_{371} + a_{374} + a_{378} + \\
& a_{380} + a_{382} + a_{384} + a_{385} - a_{386} - a_{388} + \\
& a_{391} + a_{392} + a_{394} + a_{397} - 2a_{398} - a_{399} - \\
& a_{401} + a_{402} + a_{406} - a_{408} + a_{409} + a_{411} - \\
& a_{413} + a_{419} + a_{420} + a_{422} + 3a_{423} + a_{429} + \\
& a_{430} - a_{432} - a_{444} - a_{446} + a_{447} + a_{450} + \\
& a_{453} - a_{456} - a_{458} - a_{463} - a_{466}
\end{aligned}
$$

$$
a_{597} = \frac{a_{341} + \sqrt{a_{341}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_6 + a_3 - a_{14} - a_7 + a_8 - a_{24} + \\
& a_{25} - a_{26} + a_{27} - a_{57} - 2a_{59} + a_{61} + \\
& a_{31} - a_{32} - a_{34} - a_{35} + a_{89} - a_{93} + \\
& a_{94} - a_{95} - a_{105} + a_{106} - 2a_{107} - a_{112} + \\
& a_{113} - a_{114} - a_{115} + a_{214} - a_{217} + a_{221} - \\
& a_{222} + a_{228} + a_{232} - a_{234} - a_{241} + 2a_{242} - \\
& a_{253} - a_{127} + a_{131} + a_{133} - a_{137} - 2a_{139} + \\
& 2a_{143} + a_{145} - a_{147} - a_{342} + 2a_{345} + a_{346} - \\
& a_{360} + a_{361} + a_{371} + a_{372} + a_{375} + a_{379} + \\
& a_{381} + a_{383} + a_{385} + a_{386} - a_{387} - a_{389} + \\
& a_{392} + a_{393} + a_{395} + a_{398} - 2a_{399} - a_{400} - \\
& a_{402} + a_{403} + a_{407} - a_{409} + a_{410} + a_{412} - \\
& a_{414} + a_{420} + a_{421} + a_{423} + 3a_{424} + a_{430} + \\
& a_{431} - a_{433} - a_{445} - a_{447} + a_{448} + a_{451} + \\
& a_{454} - a_{457} - a_{459} - a_{464} - a_{467}
\end{aligned}
$$

$$
a_{598} = \frac{a_{342} - \sqrt{a_{342}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_3 + a_4 - a_7 - a_8 + a_9 - a_{25} + \\
& a_{26} - a_{27} + a_{28} - a_{58} - 2a_{60} + a_{62} + \\
& a_{32} - a_{33} - a_{35} - a_{36} + a_{90} - a_{94} + \\
& a_{95} - a_{96} - a_{106} + a_{107} - 2a_{108} - a_{113} + \\
& a_{114} - a_{115} - a_{116} + a_{215} - a_{218} + a_{222} - \\
& a_{223} + a_{229} + a_{233} - a_{235} - a_{242} + 2a_{243} - \\
& a_{254} - a_{128} + a_{132} + a_{134} - a_{138} - 2a_{140} + \\
& 2a_{144} + a_{146} - a_{148} - a_{343} + 2a_{346} + a_{347} - \\
& a_{361} + a_{362} + a_{372} + a_{373} + a_{376} + a_{380} + \\
& a_{382} + a_{384} + a_{386} + a_{387} - a_{388} - a_{390} + \\
& a_{393} + a_{394} + a_{396} + a_{399} - 2a_{400} - a_{401} - \\
& a_{403} + a_{404} + a_{408} - a_{410} + a_{411} + a_{413} - \\
& a_{415} + a_{421} + a_{422} + a_{424} + 3a_{425} + a_{431} + \\
& a_{432} - a_{434} - a_{446} - a_{448} + a_{449} + a_{452} + \\
& a_{455} - a_{458} - a_{460} - a_{465} - a_{468}
\end{aligned}
$$

$$
a_{599} = \frac{a_{343} + \sqrt{a_{343}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_4 + a_5 - a_8 - a_9 + a_{10} - a_{26} + \\
& a_{27} - a_{28} + a_{29} - a_{59} - 2a_{61} + a_{31} + \\
& a_{33} - a_{34} - a_{36} - a_{37} + a_{91} - a_{95} + \\
& a_{96} - a_{97} - a_{107} + a_{108} - 2a_{109} - a_{114} + \\
& a_{115} - a_{116} - a_{117} + a_{216} - a_{219} + a_{223} - \\
& a_{224} + a_{230} + a_{234} - a_{236} - a_{243} + 2a_{244} - \\
& a_{127} - a_{129} + a_{133} + a_{135} - a_{139} - 2a_{141} + \\
& 2a_{145} + a_{147} - a_{149} - a_{344} + 2a_{347} + a_{348} - \\
& a_{362} + a_{363} + a_{373} + a_{374} + a_{377} + a_{381} + \\
& a_{383} + a_{385} + a_{387} + a_{388} - a_{389} - a_{391} + \\
& a_{394} + a_{395} + a_{397} + a_{400} - 2a_{401} - a_{402} - \\
& a_{404} + a_{405} + a_{409} - a_{411} + a_{412} + a_{414} - \\
& a_{416} + a_{422} + a_{423} + a_{425} + 3a_{426} + a_{432} + \\
& a_{433} - a_{435} - a_{447} - a_{449} + a_{450} + a_{453} + \\
& a_{456} - a_{459} - a_{461} - a_{466} - a_{469}
\end{aligned}
$$

$$
a_{600} = \frac{a_{344} + \sqrt{a_{344}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_5 + a_6 - a_9 - a_{10} + a_{11} - a_{27} + \\
& a_{28} - a_{29} + a_{30} - a_{60} - 2a_{62} + a_{32} + \\
& a_{34} - a_{35} - a_{37} - a_{38} + a_{92} - a_{96} + \\
& a_{97} - a_{98} - a_{108} + a_{109} - 2a_{110} - a_{115} + \\
& a_{116} - a_{117} - a_{118} + a_{217} - a_{220} + a_{224} - \\
& a_{225} + a_{231} + a_{235} - a_{237} - a_{244} + 2a_{245} - \\
& a_{128} - a_{130} + a_{134} + a_{136} - a_{140} - 2a_{142} + \\
& 2a_{146} + a_{148} - a_{150} - a_{345} + 2a_{348} + a_{349} - \\
& a_{363} + a_{364} + a_{374} + a_{375} + a_{378} + a_{382} + \\
& a_{384} + a_{386} + a_{388} + a_{389} - a_{390} - a_{392} + \\
& a_{395} + a_{396} + a_{398} + a_{401} - 2a_{402} - a_{403} - \\
& a_{405} + a_{406} + a_{410} - a_{412} + a_{413} + a_{415} - \\
& a_{417} + a_{423} + a_{424} + a_{426} + 3a_{427} + a_{433} + \\
& a_{434} - a_{436} - a_{448} - a_{450} + a_{451} + a_{454} + \\
& a_{457} - a_{460} - a_{462} - a_{467} - a_{470}
\end{aligned}
$$

$$
\begin{aligned}
a_{601} &= \frac{a_{345}+\sqrt{a_{345}^2-4x}}{2}\\
x &= a_6+a_3-a_{10}-a_{11}+a_{12}-a_{28}+\\
&\quad a_{29}-a_{30}+a_{15}-a_{61}-2a_{31}+a_{33}+\\
&\quad a_{35}-a_{36}-a_{38}-a_{39}+a_{93}-a_{97}+\\
&\quad a_{98}-a_{99}-a_{109}+a_{110}-2a_{111}-a_{116}+\\
&\quad a_{117}-a_{118}-a_{119}+a_{218}-a_{221}+a_{225}-\\
&\quad a_{226}+a_{232}+a_{236}-a_{238}-a_{245}+2a_{246}-\\
&\quad a_{129}-a_{131}+a_{135}+a_{137}-a_{141}-2a_{143}+\\
&\quad 2a_{147}+a_{149}-a_{151}-a_{346}+2a_{349}+a_{350}-\\
&\quad a_{364}+a_{365}+a_{375}+a_{376}+a_{379}+a_{383}+\\
&\quad a_{385}+a_{387}+a_{389}+a_{390}-a_{391}-a_{393}+\\
&\quad a_{396}+a_{397}+a_{399}+a_{402}-2a_{403}-a_{404}-\\
&\quad a_{406}+a_{407}+a_{411}-a_{413}+a_{414}+a_{416}-\\
&\quad a_{418}+a_{424}+a_{425}+a_{427}+3a_{428}+a_{434}+\\
&\quad a_{435}-a_{437}-a_{449}-a_{451}+a_{452}+a_{455}+\\
&\quad a_{458}-a_{461}-a_{463}-a_{468}-a_{471}\\
a_{602} &= \frac{a_{346}-\sqrt{a_{346}^2-4x}}{2}\\
x &= a_3+a_4-a_{11}-a_{12}+a_{13}-a_{29}+\\
&\quad a_{30}-a_{15}+a_{16}-a_{62}-2a_{32}+a_{34}+\\
&\quad a_{36}-a_{37}-a_{39}-a_{40}+a_{94}-a_{98}+\\
&\quad a_{99}-a_{100}-a_{110}+a_{111}-2a_{112}-a_{117}+\\
&\quad a_{118}-a_{119}-a_{120}+a_{219}-a_{222}+a_{226}-\\
&\quad a_{227}+a_{233}+a_{237}-a_{239}-a_{246}+2a_{247}-\\
&\quad a_{130}-a_{132}+a_{136}+a_{138}-a_{142}-2a_{144}+\\
&\quad 2a_{148}+a_{150}-a_{152}-a_{347}+2a_{350}+a_{351}-\\
&\quad a_{365}+a_{366}+a_{376}+a_{377}+a_{380}+a_{384}+\\
&\quad a_{386}+a_{388}+a_{390}+a_{391}-a_{392}-a_{394}+\\
&\quad a_{397}+a_{398}+a_{400}+a_{403}-2a_{404}-a_{405}-\\
&\quad a_{407}+a_{408}+a_{412}-a_{414}+a_{415}+a_{417}-\\
&\quad a_{419}+a_{425}+a_{426}+a_{428}+3a_{429}+a_{435}+\\
&\quad a_{436}-a_{438}-a_{450}-a_{452}+a_{453}+a_{456}+\\
&\quad a_{459}-a_{462}-a_{464}-a_{469}-a_{472}\\
a_{603} &= \frac{a_{347}+\sqrt{a_{347}^2-4x}}{2}\\
x &= a_4+a_5-a_{12}-a_{13}+a_{14}-a_{30}+\\
&\quad a_{15}-a_{16}+a_{17}-a_{31}-2a_{33}+a_{35}+\\
&\quad a_{37}-a_{38}-a_{40}-a_{41}+a_{95}-a_{99}+\\
&\quad a_{100}-a_{101}-a_{111}+a_{112}-2a_{113}-a_{118}+\\
&\quad a_{119}-a_{120}-a_{121}+a_{220}-a_{223}+a_{227}-\\
&\quad a_{228}+a_{234}+a_{238}-a_{240}-a_{247}+2a_{248}-\\
&\quad a_{131}-a_{133}+a_{137}+a_{139}-a_{143}-2a_{145}+\\
&\quad 2a_{149}+a_{151}-a_{153}-a_{348}+2a_{351}+a_{352}-\\
&\quad a_{366}+a_{367}+a_{377}+a_{378}+a_{381}+a_{385}+\\
&\quad a_{387}+a_{389}+a_{391}+a_{392}-a_{393}-a_{395}+\\
&\quad a_{398}+a_{399}+a_{401}+a_{404}-2a_{405}-a_{406}-\\
&\quad a_{408}+a_{409}+a_{413}-a_{415}+a_{416}+a_{418}-\\
&\quad a_{420}+a_{426}+a_{427}+a_{429}+3a_{430}+a_{436}+\\
&\quad a_{437}-a_{439}-a_{451}-a_{453}+a_{454}+a_{457}+\\
&\quad a_{460}-a_{463}-a_{465}-a_{470}-a_{473}\\
a_{604} &= \frac{a_{348}+\sqrt{a_{348}^2-4x}}{2}\\
x &= a_5+a_6-a_{13}-a_{14}+a_7-a_{15}+\\
&\quad a_{16}-a_{17}+a_{18}-a_{32}-2a_{34}+a_{36}+\\
&\quad a_{38}-a_{39}-a_{41}-a_{42}+a_{96}-a_{100}+\\
&\quad a_{101}-a_{102}-a_{112}+a_{113}-2a_{114}-a_{119}+\\
&\quad a_{120}-a_{121}-a_{122}+a_{221}-a_{224}+a_{228}-\\
&\quad a_{229}+a_{235}+a_{239}-a_{241}-a_{248}+2a_{249}-\\
&\quad a_{132}-a_{134}+a_{138}+a_{140}-a_{144}-2a_{146}+\\
&\quad 2a_{150}+a_{152}-a_{154}-a_{349}+2a_{352}+a_{353}-\\
&\quad a_{367}+a_{368}+a_{378}+a_{379}+a_{382}+a_{386}+\\
&\quad a_{388}+a_{390}+a_{392}+a_{393}-a_{394}-a_{396}+\\
&\quad a_{399}+a_{400}+a_{402}+a_{405}-2a_{406}-a_{407}-\\
&\quad a_{409}+a_{410}+a_{414}-a_{416}+a_{417}+a_{419}-\\
&\quad a_{421}+a_{427}+a_{428}+a_{430}+3a_{431}+a_{437}+\\
&\quad a_{438}-a_{440}-a_{452}-a_{454}+a_{455}+a_{458}+\\
&\quad a_{461}-a_{464}-a_{466}-a_{471}-a_{474}\\
a_{605} &= \frac{a_{349}-\sqrt{a_{349}^2-4x}}{2}\\
x &= a_6+a_3-a_{14}-a_7+a_8-a_{16}+\\
&\quad a_{17}-a_{18}+a_{19}-a_{33}-2a_{35}+a_{37}+\\
&\quad a_{39}-a_{40}-a_{42}-a_{43}+a_{97}-a_{101}+\\
&\quad a_{102}-a_{103}-a_{113}+a_{114}-2a_{115}-a_{120}+\\
&\quad a_{121}-a_{122}-a_{123}+a_{222}-a_{225}+a_{229}-\\
&\quad a_{230}+a_{236}+a_{240}-a_{242}-a_{249}+2a_{250}-\\
&\quad a_{133}-a_{135}+a_{139}+a_{141}-a_{145}-2a_{147}+\\
&\quad 2a_{151}+a_{153}-a_{155}-a_{350}+2a_{353}+a_{354}-\\
&\quad a_{368}+a_{369}+a_{379}+a_{380}+a_{383}+a_{387}+\\
&\quad a_{389}+a_{391}+a_{393}+a_{394}-a_{395}-a_{397}+\\
&\quad a_{400}+a_{401}+a_{403}+a_{406}-2a_{407}-a_{408}-\\
&\quad a_{410}+a_{411}+a_{415}-a_{417}+a_{418}+a_{420}-\\
&\quad a_{422}+a_{428}+a_{429}+a_{431}+3a_{432}+a_{438}+\\
&\quad a_{439}-a_{441}-a_{453}-a_{455}+a_{456}+a_{459}+\\
&\quad a_{462}-a_{465}-a_{467}-a_{472}-a_{475}\\
a_{606} &= \frac{a_{350}+\sqrt{a_{350}^2-4x}}{2}\\
x &= a_3+a_4-a_7-a_8+a_9-a_{17}+\\
&\quad a_{18}-a_{19}+a_{20}-a_{34}-2a_{36}+a_{38}+\\
&\quad a_{40}-a_{41}-a_{43}-a_{44}+a_{98}-a_{102}+\\
&\quad a_{103}-a_{104}-a_{114}+a_{115}-2a_{116}-a_{121}+\\
&\quad a_{122}-a_{123}-a_{124}+a_{223}-a_{226}+a_{230}-\\
&\quad a_{231}+a_{237}+a_{241}-a_{243}-a_{250}+2a_{251}-\\
&\quad a_{134}-a_{136}+a_{140}+a_{142}-a_{146}-2a_{148}+\\
&\quad 2a_{152}+a_{154}-a_{156}-a_{351}+2a_{354}+a_{355}-\\
&\quad a_{369}+a_{370}+a_{380}+a_{381}+a_{384}+a_{388}+\\
&\quad a_{390}+a_{392}+a_{394}+a_{395}-a_{396}-a_{398}+\\
&\quad a_{401}+a_{402}+a_{404}+a_{407}-2a_{408}-a_{409}-
\end{aligned}
$$

$$
\begin{aligned}
& a_{411} + a_{412} + a_{416} - a_{418} + a_{419} + a_{421} - \\
& a_{423} + a_{429} + a_{430} + a_{432} + 3a_{433} + a_{439} + \\
& a_{440} - a_{442} - a_{454} - a_{456} + a_{457} + a_{460} + \\
& a_{463} - a_{466} - a_{468} - a_{473} - a_{476} \\
a_{607} &= \frac{a_{351} + \sqrt{a_{351}^2 - 4x}}{2} \\
x &= a_4 + a_5 - a_8 - a_9 + a_{10} - a_{18} + \\
& a_{19} - a_{20} + a_{21} - a_{35} - 2a_{37} + a_{39} + \\
& a_{41} - a_{42} - a_{44} - a_{45} + a_{99} - a_{103} + \\
& a_{104} - a_{105} - a_{115} + a_{116} - 2a_{117} - a_{122} + \\
& a_{123} - a_{124} - a_{125} + a_{224} - a_{227} + a_{231} - \\
& a_{232} + a_{238} + a_{242} - a_{244} - a_{251} + 2a_{252} - \\
& a_{135} - a_{137} + a_{141} + a_{143} - a_{147} - 2a_{149} + \\
& 2a_{153} + a_{155} - a_{157} - a_{352} + 2a_{355} + a_{356} - \\
& a_{370} + a_{371} + a_{381} + a_{382} + a_{385} + a_{389} + \\
& a_{391} + a_{393} + a_{395} + a_{396} - a_{397} - a_{399} + \\
& a_{402} + a_{403} + a_{405} + a_{408} - 2a_{409} - a_{410} - \\
& a_{412} + a_{413} + a_{417} - a_{419} + a_{420} + a_{422} - \\
& a_{424} + a_{430} + a_{431} + a_{433} + 3a_{434} + a_{440} + \\
& a_{441} - a_{443} - a_{455} - a_{457} + a_{458} + a_{461} + \\
& a_{464} - a_{467} - a_{469} - a_{474} - a_{477} \\
a_{608} &= \frac{a_{352} + \sqrt{a_{352}^2 - 4x}}{2} \\
x &= a_5 + a_6 - a_9 - a_{10} + a_{11} - a_{19} + \\
& a_{20} - a_{21} + a_{22} - a_{36} - 2a_{38} + a_{40} + \\
& a_{42} - a_{43} - a_{45} - a_{46} + a_{100} - a_{104} + \\
& a_{105} - a_{106} - a_{116} + a_{117} - 2a_{118} - a_{123} + \\
& a_{124} - a_{125} - a_{126} + a_{225} - a_{228} + a_{232} - \\
& a_{233} + a_{239} + a_{243} - a_{245} - a_{252} + 2a_{253} - \\
& a_{136} - a_{138} + a_{142} + a_{144} - a_{148} - 2a_{150} + \\
& 2a_{154} + a_{156} - a_{158} - a_{353} + 2a_{356} + a_{357} - \\
& a_{371} + a_{372} + a_{382} + a_{383} + a_{386} + a_{390} + \\
& a_{392} + a_{394} + a_{396} + a_{397} - a_{398} - a_{400} + \\
& a_{403} + a_{404} + a_{406} + a_{409} - 2a_{410} - a_{411} - \\
& a_{413} + a_{414} + a_{418} - a_{420} + a_{421} + a_{423} - \\
& a_{425} + a_{431} + a_{432} + a_{434} + 3a_{435} + a_{441} + \\
& a_{442} - a_{444} - a_{456} - a_{458} + a_{459} + a_{462} + \\
& a_{465} - a_{468} - a_{470} - a_{475} - a_{478} \\
a_{609} &= \frac{a_{353} - \sqrt{a_{353}^2 - 4x}}{2} \\
x &= a_6 + a_3 - a_{10} - a_{11} + a_{12} - a_{20} + \\
& a_{21} - a_{22} + a_{23} - a_{37} - 2a_{39} + a_{41} + \\
& a_{43} - a_{44} - a_{46} - a_{47} + a_{101} - a_{105} + \\
& a_{106} - a_{107} - a_{117} + a_{118} - 2a_{119} - a_{124} + \\
& a_{125} - a_{126} - a_{63} + a_{226} - a_{229} + a_{233} - \\
& a_{234} + a_{240} + a_{244} - a_{246} - a_{253} + 2a_{254} - \\
& a_{137} - a_{139} + a_{143} + a_{145} - a_{149} - 2a_{151} + \\
& 2a_{155} + a_{157} - a_{159} - a_{354} + 2a_{357} + a_{358} - \\
& a_{372} + a_{373} + a_{383} + a_{384} + a_{387} + a_{391} + \\
& a_{393} + a_{395} + a_{397} + a_{398} - a_{399} - a_{401} + \\
& a_{404} + a_{405} + a_{407} + a_{410} - 2a_{411} - a_{412} - \\
& a_{414} + a_{415} + a_{419} - a_{421} + a_{422} + a_{424} - \\
& a_{426} + a_{432} + a_{433} + a_{435} + 3a_{436} + a_{442} + \\
& a_{443} - a_{445} - a_{457} - a_{459} + a_{460} + a_{463} + \\
& a_{466} - a_{469} - a_{471} - a_{476} - a_{479} \\
a_{610} &= \frac{a_{354} - \sqrt{a_{354}^2 - 4x}}{2} \\
x &= a_3 + a_4 - a_{11} - a_{12} + a_{13} - a_{21} + \\
& a_{22} - a_{23} + a_{24} - a_{38} - 2a_{40} + a_{42} + \\
& a_{44} - a_{45} - a_{47} - a_{48} + a_{102} - a_{106} + \\
& a_{107} - a_{108} - a_{118} + a_{119} - 2a_{120} - a_{125} + \\
& a_{126} - a_{63} - a_{64} + a_{227} - a_{230} + a_{234} - \\
& a_{235} + a_{241} + a_{245} - a_{247} - a_{254} + 2a_{127} - \\
& a_{138} - a_{140} + a_{144} + a_{146} - a_{150} - 2a_{152} + \\
& 2a_{156} + a_{158} - a_{160} - a_{355} + 2a_{358} + a_{359} - \\
& a_{373} + a_{374} + a_{384} + a_{385} + a_{388} + a_{392} + \\
& a_{394} + a_{396} + a_{398} + a_{399} - a_{400} - a_{402} + \\
& a_{405} + a_{406} + a_{408} + a_{411} - 2a_{412} - a_{413} - \\
& a_{415} + a_{416} + a_{420} - a_{422} + a_{423} + a_{425} - \\
& a_{427} + a_{433} + a_{434} + a_{436} + 3a_{437} + a_{443} + \\
& a_{444} - a_{446} - a_{458} - a_{460} + a_{461} + a_{464} + \\
& a_{467} - a_{470} - a_{472} - a_{477} - a_{480} \\
a_{611} &= \frac{a_{355} - \sqrt{a_{355}^2 - 4x}}{2} \\
x &= a_4 + a_5 - a_{12} - a_{13} + a_{14} - a_{22} + \\
& a_{23} - a_{24} + a_{25} - a_{39} - 2a_{41} + a_{43} + \\
& a_{45} - a_{46} - a_{48} - a_{49} + a_{103} - a_{107} + \\
& a_{108} - a_{109} - a_{119} + a_{120} - 2a_{121} - a_{126} + \\
& a_{63} - a_{64} - a_{65} + a_{228} - a_{231} + a_{235} - \\
& a_{236} + a_{242} + a_{246} - a_{248} - a_{127} + 2a_{128} - \\
& a_{139} - a_{141} + a_{145} + a_{147} - a_{151} - 2a_{153} + \\
& 2a_{157} + a_{159} - a_{161} - a_{356} + 2a_{359} + a_{360} - \\
& a_{374} + a_{375} + a_{385} + a_{386} + a_{389} + a_{393} + \\
& a_{395} + a_{397} + a_{399} + a_{400} - a_{401} - a_{403} + \\
& a_{406} + a_{407} + a_{409} + a_{412} - 2a_{413} - a_{414} - \\
& a_{416} + a_{417} + a_{421} - a_{423} + a_{424} + a_{426} - \\
& a_{428} + a_{434} + a_{435} + a_{437} + 3a_{438} + a_{444} + \\
& a_{445} - a_{447} - a_{459} - a_{461} + a_{462} + a_{465} + \\
& a_{468} - a_{471} - a_{473} - a_{478} - a_{481} \\
a_{612} &= \frac{a_{356} + \sqrt{a_{356}^2 - 4x}}{2} \\
x &= a_5 + a_6 - a_{13} - a_{14} + a_7 - a_{23} + \\
& a_{24} - a_{25} + a_{26} - a_{40} - 2a_{42} + a_{44} + \\
& a_{46} - a_{47} - a_{49} - a_{50} + a_{104} - a_{108} + \\
& a_{109} - a_{110} - a_{120} + a_{121} - 2a_{122} - a_{63} + \\
& a_{64} - a_{65} - a_{66} + a_{229} - a_{232} + a_{236} - \\
& a_{237} + a_{243} + a_{247} - a_{249} - a_{128} + 2a_{129} -
\end{aligned}
$$

$$
\begin{aligned}
& a_{140} - a_{142} + a_{146} + a_{148} - a_{152} - 2a_{154} + \\
& 2a_{158} + a_{160} - a_{162} - a_{357} + 2a_{360} + a_{361} - \\
& a_{375} + a_{376} + a_{386} + a_{387} + a_{390} + a_{394} + \\
& a_{396} + a_{398} + a_{400} + a_{401} - a_{402} - a_{404} + \\
& a_{407} + a_{408} + a_{410} + a_{413} - 2a_{414} - a_{415} - \\
& a_{417} + a_{418} + a_{422} - a_{424} + a_{425} + a_{427} - \\
& a_{429} + a_{435} + a_{436} + a_{438} + 3a_{439} + a_{445} + \\
& a_{446} - a_{448} - a_{460} - a_{462} + a_{463} + a_{466} + \\
& a_{469} - a_{472} - a_{474} - a_{479} - a_{482}
\end{aligned}
$$

$$
a_{613} = \frac{a_{357} + \sqrt{a_{357}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_6 + a_3 - a_{14} - a_7 + a_8 - a_{24} + \\
& a_{25} - a_{26} + a_{27} - a_{41} - 2a_{43} + a_{45} + \\
& a_{47} - a_{48} - a_{50} - a_{51} + a_{105} - a_{109} + \\
& a_{110} - a_{111} - a_{121} + a_{122} - 2a_{123} - a_{64} + \\
& a_{65} - a_{66} - a_{67} + a_{230} - a_{233} + a_{237} - \\
& a_{238} + a_{244} + a_{248} - a_{250} - a_{129} + 2a_{130} - \\
& a_{141} - a_{143} + a_{147} + a_{149} - a_{153} - 2a_{155} + \\
& 2a_{159} + a_{161} - a_{163} - a_{358} + 2a_{361} + a_{362} - \\
& a_{376} + a_{377} + a_{387} + a_{388} + a_{391} + a_{395} + \\
& a_{397} + a_{399} + a_{401} + a_{402} - a_{403} - a_{405} + \\
& a_{408} + a_{409} + a_{411} + a_{414} - 2a_{415} - a_{416} - \\
& a_{418} + a_{419} + a_{423} - a_{425} + a_{426} + a_{428} - \\
& a_{430} + a_{436} + a_{437} + a_{439} + 3a_{440} + a_{446} + \\
& a_{447} - a_{449} - a_{461} - a_{463} + a_{464} + a_{467} + \\
& a_{470} - a_{473} - a_{475} - a_{480} - a_{483}
\end{aligned}
$$

$$
a_{614} = \frac{a_{358} - \sqrt{a_{358}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_3 + a_4 - a_7 - a_8 + a_9 - a_{25} + \\
& a_{26} - a_{27} + a_{28} - a_{42} - 2a_{44} + a_{46} + \\
& a_{48} - a_{49} - a_{51} - a_{52} + a_{106} - a_{110} + \\
& a_{111} - a_{112} - a_{122} + a_{123} - 2a_{124} - a_{65} + \\
& a_{66} - a_{67} - a_{68} + a_{231} - a_{234} + a_{238} - \\
& a_{239} + a_{245} + a_{249} - a_{251} - a_{130} + 2a_{131} - \\
& a_{142} - a_{144} + a_{148} + a_{150} - a_{154} - 2a_{156} + \\
& 2a_{160} + a_{162} - a_{164} - a_{359} + 2a_{362} + a_{363} - \\
& a_{377} + a_{378} + a_{388} + a_{389} + a_{392} + a_{396} + \\
& a_{398} + a_{400} + a_{402} + a_{403} - a_{404} - a_{406} + \\
& a_{409} + a_{410} + a_{412} + a_{415} - 2a_{416} - a_{417} - \\
& a_{419} + a_{420} + a_{424} - a_{426} + a_{427} + a_{429} - \\
& a_{431} + a_{437} + a_{438} + a_{440} + 3a_{441} + a_{447} + \\
& a_{448} - a_{450} - a_{462} - a_{464} + a_{465} + a_{468} + \\
& a_{471} - a_{474} - a_{476} - a_{481} - a_{484}
\end{aligned}
$$

$$
a_{615} = \frac{a_{359} - \sqrt{a_{359}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_4 + a_5 - a_8 - a_9 + a_{10} - a_{26} + \\
& a_{27} - a_{28} + a_{29} - a_{43} - 2a_{45} + a_{47} + \\
& a_{49} - a_{50} - a_{52} - a_{53} + a_{107} - a_{111} + \\
& a_{112} - a_{113} - a_{123} + a_{124} - 2a_{125} - a_{66} + \\
& a_{67} - a_{68} - a_{69} + a_{232} - a_{235} + a_{239} - \\
& a_{240} + a_{246} + a_{250} - a_{252} - a_{131} + 2a_{132} - \\
& a_{143} - a_{145} + a_{149} + a_{151} - a_{155} - 2a_{157} + \\
& 2a_{161} + a_{163} - a_{165} - a_{360} + 2a_{363} + a_{364} - \\
& a_{378} + a_{379} + a_{389} + a_{390} + a_{393} + a_{397} + \\
& a_{399} + a_{401} + a_{403} + a_{404} - a_{405} - a_{407} + \\
& a_{410} + a_{411} + a_{413} + a_{416} - 2a_{417} - a_{418} - \\
& a_{420} + a_{421} + a_{425} - a_{427} + a_{428} + a_{430} - \\
& a_{432} + a_{438} + a_{439} + a_{441} + 3a_{442} + a_{448} + \\
& a_{449} - a_{451} - a_{463} - a_{465} + a_{466} + a_{469} + \\
& a_{472} - a_{475} - a_{477} - a_{482} - a_{485}
\end{aligned}
$$

$$
a_{616} = \frac{a_{360} - \sqrt{a_{360}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_5 + a_6 - a_9 - a_{10} + a_{11} - a_{27} + \\
& a_{28} - a_{29} + a_{30} - a_{44} - 2a_{46} + a_{48} + \\
& a_{50} - a_{51} - a_{53} - a_{54} + a_{108} - a_{112} + \\
& a_{113} - a_{114} - a_{124} + a_{125} - 2a_{126} - a_{67} + \\
& a_{68} - a_{69} - a_{70} + a_{233} - a_{236} + a_{240} - \\
& a_{241} + a_{247} + a_{251} - a_{253} - a_{132} + 2a_{133} - \\
& a_{144} - a_{146} + a_{150} + a_{152} - a_{156} - 2a_{158} + \\
& 2a_{162} + a_{164} - a_{166} - a_{361} + 2a_{364} + a_{365} - \\
& a_{379} + a_{380} + a_{390} + a_{391} + a_{394} + a_{398} + \\
& a_{400} + a_{402} + a_{404} + a_{405} - a_{406} - a_{408} + \\
& a_{411} + a_{412} + a_{414} + a_{417} - 2a_{418} - a_{419} - \\
& a_{421} + a_{422} + a_{426} - a_{428} + a_{429} + a_{431} - \\
& a_{433} + a_{439} + a_{440} + a_{442} + 3a_{443} + a_{449} + \\
& a_{450} - a_{452} - a_{464} - a_{466} + a_{467} + a_{470} + \\
& a_{473} - a_{476} - a_{478} - a_{483} - a_{486}
\end{aligned}
$$

$$
a_{617} = \frac{a_{361} + \sqrt{a_{361}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_6 + a_3 - a_{10} - a_{11} + a_{12} - a_{28} + \\
& a_{29} - a_{30} + a_{15} - a_{45} - 2a_{47} + a_{49} + \\
& a_{51} - a_{52} - a_{54} - a_{55} + a_{109} - a_{113} + \\
& a_{114} - a_{115} - a_{125} + a_{126} - 2a_{63} - a_{68} + \\
& a_{69} - a_{70} - a_{71} + a_{234} - a_{237} + a_{241} - \\
& a_{242} + a_{248} + a_{252} - a_{254} - a_{133} + 2a_{134} - \\
& a_{145} - a_{147} + a_{151} + a_{153} - a_{157} - 2a_{159} + \\
& 2a_{163} + a_{165} - a_{167} - a_{362} + 2a_{365} + a_{366} - \\
& a_{380} + a_{381} + a_{391} + a_{392} + a_{395} + a_{399} + \\
& a_{401} + a_{403} + a_{405} + a_{406} - a_{407} - a_{409} + \\
& a_{412} + a_{413} + a_{415} + a_{418} - 2a_{419} - a_{420} - \\
& a_{422} + a_{423} + a_{427} - a_{429} + a_{430} + a_{432} - \\
& a_{434} + a_{440} + a_{441} + a_{443} + 3a_{444} + a_{450} + \\
& a_{451} - a_{453} - a_{465} - a_{467} + a_{468} + a_{471} + \\
& a_{474} - a_{477} - a_{479} - a_{484} - a_{487}
\end{aligned}
$$

$$
a_{618} = \frac{a_{362} - \sqrt{a_{362}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_3 + a_4 - a_{11} - a_{12} + a_{13} - a_{29} + \\
& a_{30} - a_{15} + a_{16} - a_{46} - 2a_{48} + a_{50} +
\end{aligned}
$$

$$
\begin{aligned}
& a_{52} - a_{53} - a_{55} - a_{56} + a_{110} - a_{114} + \\
& a_{115} - a_{116} - a_{126} + a_{63} - 2a_{64} - a_{69} + \\
& a_{70} - a_{71} - a_{72} + a_{235} - a_{238} + a_{242} - \\
& a_{243} + a_{249} + a_{253} - a_{127} - a_{134} + 2a_{135} - \\
& a_{146} - a_{148} + a_{152} + a_{154} - a_{158} - 2a_{160} + \\
& 2a_{164} + a_{166} - a_{168} - a_{363} + 2a_{366} + a_{367} - \\
& a_{381} + a_{382} + a_{392} + a_{393} + a_{396} + a_{400} + \\
& a_{402} + a_{404} + a_{406} + a_{407} - a_{408} - a_{410} + \\
& a_{413} + a_{414} + a_{416} + a_{419} - 2a_{420} - a_{421} - \\
& a_{423} + a_{424} + a_{428} - a_{430} + a_{431} + a_{433} - \\
& a_{435} + a_{441} + a_{442} + a_{444} + 3a_{445} + a_{451} + \\
& a_{452} - a_{454} - a_{466} - a_{468} + a_{469} + a_{472} + \\
& a_{475} - a_{478} - a_{480} - a_{485} - a_{488}
\end{aligned}
$$

$$
\begin{aligned}
a_{619} &= \frac{a_{363} - \sqrt{a_{363}^2 - 4x}}{2} \\
x &= a_4 + a_5 - a_{12} - a_{13} + a_{14} - a_{30} + \\
& a_{15} - a_{16} + a_{17} - a_{47} - 2a_{49} + a_{51} + \\
& a_{53} - a_{54} - a_{56} - a_{57} + a_{111} - a_{115} + \\
& a_{116} - a_{117} - a_{63} + a_{64} - 2a_{65} - a_{70} + \\
& a_{71} - a_{72} - a_{73} + a_{236} - a_{239} + a_{243} - \\
& a_{244} + a_{250} + a_{254} - a_{128} - a_{135} + 2a_{136} - \\
& a_{147} - a_{149} + a_{153} + a_{155} - a_{159} - 2a_{161} + \\
& 2a_{165} + a_{167} - a_{169} - a_{364} + 2a_{367} + a_{368} - \\
& a_{382} + a_{383} + a_{393} + a_{394} + a_{397} + a_{401} + \\
& a_{403} + a_{405} + a_{407} + a_{408} - a_{409} - a_{411} + \\
& a_{414} + a_{415} + a_{417} + a_{420} - 2a_{421} - a_{422} - \\
& a_{424} + a_{425} + a_{429} - a_{431} + a_{432} + a_{434} - \\
& a_{436} + a_{442} + a_{443} + a_{445} + 3a_{446} + a_{452} + \\
& a_{453} - a_{455} - a_{467} - a_{469} + a_{470} + a_{473} + \\
& a_{476} - a_{479} - a_{481} - a_{486} - a_{489}
\end{aligned}
$$

$$
\begin{aligned}
a_{620} &= \frac{a_{364} + \sqrt{a_{364}^2 - 4x}}{2} \\
x &= a_5 + a_6 - a_{13} - a_{14} + a_7 - a_{15} + \\
& a_{16} - a_{17} + a_{18} - a_{48} - 2a_{50} + a_{52} + \\
& a_{54} - a_{55} - a_{57} - a_{58} + a_{112} - a_{116} + \\
& a_{117} - a_{118} - a_{64} + a_{65} - 2a_{66} - a_{71} + \\
& a_{72} - a_{73} - a_{74} + a_{237} - a_{240} + a_{244} - \\
& a_{245} + a_{251} + a_{127} - a_{129} - a_{136} + 2a_{137} - \\
& a_{148} - a_{150} + a_{154} + a_{156} - a_{160} - 2a_{162} + \\
& 2a_{166} + a_{168} - a_{170} - a_{365} + 2a_{368} + a_{369} - \\
& a_{383} + a_{384} + a_{394} + a_{395} + a_{398} + a_{402} + \\
& a_{404} + a_{406} + a_{408} + a_{409} - a_{410} - a_{412} + \\
& a_{415} + a_{416} + a_{418} + a_{421} - 2a_{422} - a_{423} - \\
& a_{425} + a_{426} + a_{430} - a_{432} + a_{433} + a_{435} - \\
& a_{437} + a_{443} + a_{444} + a_{446} + 3a_{447} + a_{453} + \\
& a_{454} - a_{456} - a_{468} - a_{470} + a_{471} + a_{474} + \\
& a_{477} - a_{480} - a_{482} - a_{487} - a_{490}
\end{aligned}
$$

$$
\begin{aligned}
a_{621} &= \frac{a_{365} - \sqrt{a_{365}^2 - 4x}}{2} \\
x &= a_6 + a_3 - a_{14} - a_7 + a_8 - a_{16} + \\
& a_{17} - a_{18} + a_{19} - a_{49} - 2a_{51} + a_{53} + \\
& a_{55} - a_{56} - a_{58} - a_{59} + a_{113} - a_{117} + \\
& a_{118} - a_{119} - a_{65} + a_{66} - 2a_{67} - a_{72} + \\
& a_{73} - a_{74} - a_{75} + a_{238} - a_{241} + a_{245} - \\
& a_{246} + a_{252} + a_{128} - a_{130} - a_{137} + 2a_{138} - \\
& a_{149} - a_{151} + a_{155} + a_{157} - a_{161} - 2a_{163} + \\
& 2a_{167} + a_{169} - a_{171} - a_{366} + 2a_{369} + a_{370} - \\
& a_{384} + a_{385} + a_{395} + a_{396} + a_{399} + a_{403} + \\
& a_{405} + a_{407} + a_{409} + a_{410} - a_{411} - a_{413} + \\
& a_{416} + a_{417} + a_{419} + a_{422} - 2a_{423} - a_{424} - \\
& a_{426} + a_{427} + a_{431} - a_{433} + a_{434} + a_{436} - \\
& a_{438} + a_{444} + a_{445} + a_{447} + 3a_{448} + a_{454} + \\
& a_{455} - a_{457} - a_{469} - a_{471} + a_{472} + a_{475} + \\
& a_{478} - a_{481} - a_{483} - a_{488} - a_{491}
\end{aligned}
$$

$$
\begin{aligned}
a_{622} &= \frac{a_{366} - \sqrt{a_{366}^2 - 4x}}{2} \\
x &= a_3 + a_4 - a_7 - a_8 + a_9 - a_{17} + \\
& a_{18} - a_{19} + a_{20} - a_{50} - 2a_{52} + a_{54} + \\
& a_{56} - a_{57} - a_{59} - a_{60} + a_{114} - a_{118} + \\
& a_{119} - a_{120} - a_{66} + a_{67} - 2a_{68} - a_{73} + \\
& a_{74} - a_{75} - a_{76} + a_{239} - a_{242} + a_{246} - \\
& a_{247} + a_{253} + a_{129} - a_{131} - a_{138} + 2a_{139} - \\
& a_{150} - a_{152} + a_{156} + a_{158} - a_{162} - 2a_{164} + \\
& 2a_{168} + a_{170} - a_{172} - a_{367} + 2a_{370} + a_{371} - \\
& a_{385} + a_{386} + a_{396} + a_{397} + a_{400} + a_{404} + \\
& a_{406} + a_{408} + a_{410} + a_{411} - a_{412} - a_{414} + \\
& a_{417} + a_{418} + a_{420} + a_{423} - 2a_{424} - a_{425} - \\
& a_{427} + a_{428} + a_{432} - a_{434} + a_{435} + a_{437} - \\
& a_{439} + a_{445} + a_{446} + a_{448} + 3a_{449} + a_{455} + \\
& a_{456} - a_{458} - a_{470} - a_{472} + a_{473} + a_{476} + \\
& a_{479} - a_{482} - a_{484} - a_{489} - a_{492}
\end{aligned}
$$

$$
\begin{aligned}
a_{623} &= \frac{a_{367} - \sqrt{a_{367}^2 - 4x}}{2} \\
x &= a_4 + a_5 - a_8 - a_9 + a_{10} - a_{18} + \\
& a_{19} - a_{20} + a_{21} - a_{51} - 2a_{53} + a_{55} + \\
& a_{57} - a_{58} - a_{60} - a_{61} + a_{115} - a_{119} + \\
& a_{120} - a_{121} - a_{67} + a_{68} - 2a_{69} - a_{74} + \\
& a_{75} - a_{76} - a_{77} + a_{240} - a_{243} + a_{247} - \\
& a_{248} + a_{254} + a_{130} - a_{132} - a_{139} + 2a_{140} - \\
& a_{151} - a_{153} + a_{157} + a_{159} - a_{163} - 2a_{165} + \\
& 2a_{169} + a_{171} - a_{173} - a_{368} + 2a_{371} + a_{372} - \\
& a_{386} + a_{387} + a_{397} + a_{398} + a_{401} + a_{405} + \\
& a_{407} + a_{409} + a_{411} + a_{412} - a_{413} - a_{415} + \\
& a_{418} + a_{419} + a_{421} + a_{424} - 2a_{425} - a_{426} - \\
& a_{428} + a_{429} + a_{433} - a_{435} + a_{436} + a_{438} - \\
& a_{440} + a_{446} + a_{447} + a_{449} + 3a_{450} + a_{456} +
\end{aligned}
$$

$$
\begin{aligned}
& a_{457} - a_{459} - a_{471} - a_{473} + a_{474} + a_{477} + \\
& a_{480} - a_{483} - a_{485} - a_{490} - a_{493} \\
a_{624} &= \frac{a_{368} - \sqrt{a_{368}^2 - 4x}}{2} \\
x &= a_5 + a_6 - a_9 - a_{10} + a_{11} - a_{19} + \\
& a_{20} - a_{21} + a_{22} - a_{52} - 2a_{54} + a_{56} + \\
& a_{58} - a_{59} - a_{61} - a_{62} + a_{116} - a_{120} + \\
& a_{121} - a_{122} - a_{68} + a_{69} - 2a_{70} - a_{75} + \\
& a_{76} - a_{77} - a_{78} + a_{241} - a_{244} + a_{248} - \\
& a_{249} + a_{127} + a_{131} - a_{133} - a_{140} + 2a_{141} - \\
& a_{152} - a_{154} + a_{158} + a_{160} - a_{164} - 2a_{166} + \\
& 2a_{170} + a_{172} - a_{174} - a_{369} + 2a_{372} + a_{373} - \\
& a_{387} + a_{388} + a_{398} + a_{399} + a_{402} + a_{406} + \\
& a_{408} + a_{410} + a_{412} + a_{413} - a_{414} - a_{416} + \\
& a_{419} + a_{420} + a_{422} + a_{425} - 2a_{426} - a_{427} - \\
& a_{429} + a_{430} + a_{434} - a_{436} + a_{437} + a_{439} - \\
& a_{441} + a_{447} + a_{448} + a_{450} + 3a_{451} + a_{457} + \\
& a_{458} - a_{460} - a_{472} - a_{474} + a_{475} + a_{478} + \\
& a_{481} - a_{484} - a_{486} - a_{491} - a_{494} \\
a_{625} &= \frac{a_{369} + \sqrt{a_{369}^2 - 4x}}{2} \\
x &= a_6 + a_3 - a_{10} - a_{11} + a_{12} - a_{20} + \\
& a_{21} - a_{22} + a_{23} - a_{53} - 2a_{55} + a_{57} + \\
& a_{59} - a_{60} - a_{62} - a_{31} + a_{117} - a_{121} + \\
& a_{122} - a_{123} - a_{69} + a_{70} - 2a_{71} - a_{76} + \\
& a_{77} - a_{78} - a_{79} + a_{242} - a_{245} + a_{249} - \\
& a_{250} + a_{128} + a_{132} - a_{134} - a_{141} + 2a_{142} - \\
& a_{153} - a_{155} + a_{159} + a_{161} - a_{165} - 2a_{167} + \\
& 2a_{171} + a_{173} - a_{175} - a_{370} + 2a_{373} + a_{374} - \\
& a_{388} + a_{389} + a_{399} + a_{400} + a_{403} + a_{407} + \\
& a_{409} + a_{411} + a_{413} + a_{414} - a_{415} - a_{417} + \\
& a_{420} + a_{421} + a_{423} + a_{426} - 2a_{427} - a_{428} - \\
& a_{430} + a_{431} + a_{435} - a_{437} + a_{438} + a_{440} - \\
& a_{442} + a_{448} + a_{449} + a_{451} + 3a_{452} + a_{458} + \\
& a_{459} - a_{461} - a_{473} - a_{475} + a_{476} + a_{479} + \\
& a_{482} - a_{485} - a_{487} - a_{492} - a_{495} \\
a_{626} &= \frac{a_{370} - \sqrt{a_{370}^2 - 4x}}{2} \\
x &= a_3 + a_4 - a_{11} - a_{12} + a_{13} - a_{21} + \\
& a_{22} - a_{23} + a_{24} - a_{54} - 2a_{56} + a_{58} + \\
& a_{60} - a_{61} - a_{31} - a_{32} + a_{118} - a_{122} + \\
& a_{123} - a_{124} - a_{70} + a_{71} - 2a_{72} - a_{77} + \\
& a_{78} - a_{79} - a_{80} + a_{243} - a_{246} + a_{250} - \\
& a_{251} + a_{129} + a_{133} - a_{135} - a_{142} + 2a_{143} - \\
& a_{154} - a_{156} + a_{160} + a_{162} - a_{166} - 2a_{168} + \\
& 2a_{172} + a_{174} - a_{176} - a_{371} + 2a_{374} + a_{375} - \\
& a_{389} + a_{390} + a_{400} + a_{401} + a_{404} + a_{408} + \\
& a_{410} + a_{412} + a_{414} + a_{415} - a_{416} - a_{418} + \\
& a_{421} + a_{422} + a_{424} + a_{427} - 2a_{428} - a_{429} - \\
& a_{431} + a_{432} + a_{436} - a_{438} + a_{439} + a_{441} - \\
& a_{443} + a_{449} + a_{450} + a_{452} + 3a_{453} + a_{459} + \\
& a_{460} - a_{462} - a_{474} - a_{476} + a_{477} + a_{480} + \\
& a_{483} - a_{486} - a_{488} - a_{493} - a_{496} \\
a_{627} &= \frac{a_{371} + \sqrt{a_{371}^2 - 4x}}{2} \\
x &= a_4 + a_5 - a_{12} - a_{13} + a_{14} - a_{22} + \\
& a_{23} - a_{24} + a_{25} - a_{55} - 2a_{57} + a_{59} + \\
& a_{61} - a_{62} - a_{32} - a_{33} + a_{119} - a_{123} + \\
& a_{124} - a_{125} - a_{71} + a_{72} - 2a_{73} - a_{78} + \\
& a_{79} - a_{80} - a_{81} + a_{244} - a_{247} + a_{251} - \\
& a_{252} + a_{130} + a_{134} - a_{136} - a_{143} + 2a_{144} - \\
& a_{155} - a_{157} + a_{161} + a_{163} - a_{167} - 2a_{169} + \\
& 2a_{173} + a_{175} - a_{177} - a_{372} + 2a_{375} + a_{376} - \\
& a_{390} + a_{391} + a_{401} + a_{402} + a_{405} + a_{409} + \\
& a_{411} + a_{413} + a_{415} + a_{416} - a_{417} - a_{419} + \\
& a_{422} + a_{423} + a_{425} + a_{428} - 2a_{429} - a_{430} - \\
& a_{432} + a_{433} + a_{437} - a_{439} + a_{440} + a_{442} - \\
& a_{444} + a_{450} + a_{451} + a_{453} + 3a_{454} + a_{460} + \\
& a_{461} - a_{463} - a_{475} - a_{477} + a_{478} + a_{481} + \\
& a_{484} - a_{487} - a_{489} - a_{494} - a_{497} \\
a_{628} &= \frac{a_{372} + \sqrt{a_{372}^2 - 4x}}{2} \\
x &= a_5 + a_6 - a_{13} - a_{14} + a_7 - a_{23} + \\
& a_{24} - a_{25} + a_{26} - a_{56} - 2a_{58} + a_{60} + \\
& a_{62} - a_{31} - a_{33} - a_{34} + a_{120} - a_{124} + \\
& a_{125} - a_{126} - a_{72} + a_{73} - 2a_{74} - a_{79} + \\
& a_{80} - a_{81} - a_{82} + a_{245} - a_{248} + a_{252} - \\
& a_{253} + a_{131} + a_{135} - a_{137} - a_{144} + 2a_{145} - \\
& a_{156} - a_{158} + a_{162} + a_{164} - a_{168} - 2a_{170} + \\
& 2a_{174} + a_{176} - a_{178} - a_{373} + 2a_{376} + a_{377} - \\
& a_{391} + a_{392} + a_{402} + a_{403} + a_{406} + a_{410} + \\
& a_{412} + a_{414} + a_{416} + a_{417} - a_{418} - a_{420} + \\
& a_{423} + a_{424} + a_{426} + a_{429} - 2a_{430} - a_{431} - \\
& a_{433} + a_{434} + a_{438} - a_{440} + a_{441} + a_{443} - \\
& a_{445} + a_{451} + a_{452} + a_{454} + 3a_{455} + a_{461} + \\
& a_{462} - a_{464} - a_{476} - a_{478} + a_{479} + a_{482} + \\
& a_{485} - a_{488} - a_{490} - a_{495} - a_{498} \\
a_{629} &= \frac{a_{373} + \sqrt{a_{373}^2 - 4x}}{2} \\
x &= a_6 + a_3 - a_{14} - a_7 + a_8 - a_{24} + \\
& a_{25} - a_{26} + a_{27} - a_{57} - 2a_{59} + a_{61} + \\
& a_{31} - a_{32} - a_{34} - a_{35} + a_{121} - a_{125} + \\
& a_{126} - a_{63} - a_{73} + a_{74} - 2a_{75} - a_{80} + \\
& a_{81} - a_{82} - a_{83} + a_{246} - a_{249} + a_{253} - \\
& a_{254} + a_{132} + a_{136} - a_{138} - a_{145} + 2a_{146} - \\
& a_{157} - a_{159} + a_{163} + a_{165} - a_{169} - 2a_{171} + \\
& 2a_{175} + a_{177} - a_{179} - a_{374} + 2a_{377} + a_{378} - \\
& a_{392} + a_{393} + a_{403} + a_{404} + a_{407} + a_{411} +
\end{aligned}
$$

$$
\begin{aligned}
& a_{413} + a_{415} + a_{417} + a_{418} - a_{419} - a_{421} + \\
& a_{424} + a_{425} + a_{427} + a_{430} - 2a_{431} - a_{432} - \\
& a_{434} + a_{435} + a_{439} - a_{441} + a_{442} + a_{444} - \\
& a_{446} + a_{452} + a_{453} + a_{455} + 3a_{456} + a_{462} + \\
& a_{463} - a_{465} - a_{477} - a_{479} + a_{480} + a_{483} + \\
& a_{486} - a_{489} - a_{491} - a_{496} - a_{499}
\end{aligned}
$$

$$
\begin{aligned}
a_{630} &= \frac{a_{374} - \sqrt{a_{374}^2 - 4x}}{2} \\
x &= a_3 + a_4 - a_7 - a_8 + a_9 - a_{25} + \\
& a_{26} - a_{27} + a_{28} - a_{58} - 2a_{60} + a_{62} + \\
& a_{32} - a_{33} - a_{35} - a_{36} + a_{122} - a_{126} + \\
& a_{63} - a_{64} - a_{74} + a_{75} - 2a_{76} - a_{81} + \\
& a_{82} - a_{83} - a_{84} + a_{247} - a_{250} + a_{254} - \\
& a_{127} + a_{133} + a_{137} - a_{139} - a_{146} + 2a_{147} - \\
& a_{158} - a_{160} + a_{164} + a_{166} - a_{170} - 2a_{172} + \\
& 2a_{176} + a_{178} - a_{180} - a_{375} + 2a_{378} + a_{379} - \\
& a_{393} + a_{394} + a_{404} + a_{405} + a_{408} + a_{412} + \\
& a_{414} + a_{416} + a_{418} + a_{419} - a_{420} - a_{422} + \\
& a_{425} + a_{426} + a_{428} + a_{431} - 2a_{432} - a_{433} - \\
& a_{435} + a_{436} + a_{440} - a_{442} + a_{443} + a_{445} - \\
& a_{447} + a_{453} + a_{454} + a_{456} + 3a_{457} + a_{463} + \\
& a_{464} - a_{466} - a_{478} - a_{480} + a_{481} + a_{484} + \\
& a_{487} - a_{490} - a_{492} - a_{497} - a_{500} \\
a_{631} &= \frac{a_{375} - \sqrt{a_{375}^2 - 4x}}{2} \\
x &= a_4 + a_5 - a_8 - a_9 + a_{10} - a_{26} + \\
& a_{27} - a_{28} + a_{29} - a_{59} - 2a_{61} + a_{31} + \\
& a_{33} - a_{34} - a_{36} - a_{37} + a_{123} - a_{63} + \\
& a_{64} - a_{65} - a_{75} + a_{76} - 2a_{77} - a_{82} + \\
& a_{83} - a_{84} - a_{85} + a_{248} - a_{251} + a_{127} - \\
& a_{128} + a_{134} + a_{138} - a_{140} - a_{147} + 2a_{148} - \\
& a_{159} - a_{161} + a_{165} + a_{167} - a_{171} - 2a_{173} + \\
& 2a_{177} + a_{179} - a_{181} - a_{376} + 2a_{379} + a_{380} - \\
& a_{394} + a_{395} + a_{405} + a_{406} + a_{409} + a_{413} + \\
& a_{415} + a_{417} + a_{419} + a_{420} - a_{421} - a_{423} + \\
& a_{426} + a_{427} + a_{429} + a_{432} - 2a_{433} - a_{434} - \\
& a_{436} + a_{437} + a_{441} - a_{443} + a_{444} + a_{446} - \\
& a_{448} + a_{454} + a_{455} + a_{457} + 3a_{458} + a_{464} + \\
& a_{465} - a_{467} - a_{479} - a_{481} + a_{482} + a_{485} + \\
& a_{488} - a_{491} - a_{493} - a_{498} - a_{501} \\
a_{632} &= \frac{a_{376} - \sqrt{a_{376}^2 - 4x}}{2} \\
x &= a_5 + a_6 - a_9 - a_{10} + a_{11} - a_{27} + \\
& a_{28} - a_{29} + a_{30} - a_{60} - 2a_{62} + a_{32} + \\
& a_{34} - a_{35} - a_{37} - a_{38} + a_{124} - a_{64} + \\
& a_{65} - a_{66} - a_{76} + a_{77} - 2a_{78} - a_{83} + \\
& a_{84} - a_{85} - a_{86} + a_{249} - a_{252} + a_{128} - \\
& a_{129} + a_{135} + a_{139} - a_{141} - a_{148} + 2a_{149} - \\
& a_{160} - a_{162} + a_{166} + a_{168} - a_{172} - 2a_{174} + \\
& 2a_{178} + a_{180} - a_{182} - a_{377} + 2a_{380} + a_{381} - \\
& a_{395} + a_{396} + a_{406} + a_{407} + a_{410} + a_{414} + \\
& a_{416} + a_{418} + a_{420} + a_{421} - a_{422} - a_{424} + \\
& a_{427} + a_{428} + a_{430} + a_{433} - 2a_{434} - a_{435} - \\
& a_{437} + a_{438} + a_{442} - a_{444} + a_{445} + a_{447} - \\
& a_{449} + a_{455} + a_{456} + a_{458} + 3a_{459} + a_{465} + \\
& a_{466} - a_{468} - a_{480} - a_{482} + a_{483} + a_{486} + \\
& a_{489} - a_{492} - a_{494} - a_{499} - a_{502} \\
a_{633} &= \frac{a_{377} + \sqrt{a_{377}^2 - 4x}}{2} \\
x &= a_6 + a_3 - a_{10} - a_{11} + a_{12} - a_{28} + \\
& a_{29} - a_{30} + a_{15} - a_{61} - 2a_{31} + a_{33} + \\
& a_{35} - a_{36} - a_{38} - a_{39} + a_{125} - a_{65} + \\
& a_{66} - a_{67} - a_{77} + a_{78} - 2a_{79} - a_{84} + \\
& a_{85} - a_{86} - a_{87} + a_{250} - a_{253} + a_{129} - \\
& a_{130} + a_{136} + a_{140} - a_{142} - a_{149} + 2a_{150} - \\
& a_{161} - a_{163} + a_{167} + a_{169} - a_{173} - 2a_{175} + \\
& 2a_{179} + a_{181} - a_{183} - a_{378} + 2a_{381} + a_{382} - \\
& a_{396} + a_{397} + a_{407} + a_{408} + a_{411} + a_{415} + \\
& a_{417} + a_{419} + a_{421} + a_{422} - a_{423} - a_{425} + \\
& a_{428} + a_{429} + a_{431} + a_{434} - 2a_{435} - a_{436} - \\
& a_{438} + a_{439} + a_{443} - a_{445} + a_{446} + a_{448} - \\
& a_{450} + a_{456} + a_{457} + a_{459} + 3a_{460} + a_{466} + \\
& a_{467} - a_{469} - a_{481} - a_{483} + a_{484} + a_{487} + \\
& a_{490} - a_{493} - a_{495} - a_{500} - a_{503} \\
a_{634} &= \frac{a_{378} - \sqrt{a_{378}^2 - 4x}}{2} \\
x &= a_3 + a_4 - a_{11} - a_{12} + a_{13} - a_{29} + \\
& a_{30} - a_{15} + a_{16} - a_{62} - 2a_{32} + a_{34} + \\
& a_{36} - a_{37} - a_{39} - a_{40} + a_{126} - a_{66} + \\
& a_{67} - a_{68} - a_{78} + a_{79} - 2a_{80} - a_{85} + \\
& a_{86} - a_{87} - a_{88} + a_{251} - a_{254} + a_{130} - \\
& a_{131} + a_{137} + a_{141} - a_{143} - a_{150} + 2a_{151} - \\
& a_{162} - a_{164} + a_{168} + a_{170} - a_{174} - 2a_{176} + \\
& 2a_{180} + a_{182} - a_{184} - a_{379} + 2a_{382} + a_{383} - \\
& a_{397} + a_{398} + a_{408} + a_{409} + a_{412} + a_{416} + \\
& a_{418} + a_{420} + a_{422} + a_{423} - a_{424} - a_{426} + \\
& a_{429} + a_{430} + a_{432} + a_{435} - 2a_{436} - a_{437} - \\
& a_{439} + a_{440} + a_{444} - a_{446} + a_{447} + a_{449} - \\
& a_{451} + a_{457} + a_{458} + a_{460} + 3a_{461} + a_{467} + \\
& a_{468} - a_{470} - a_{482} - a_{484} + a_{485} + a_{488} + \\
& a_{491} - a_{494} - a_{496} - a_{501} - a_{504} \\
a_{635} &= \frac{a_{379} - \sqrt{a_{379}^2 - 4x}}{2} \\
x &= a_4 + a_5 - a_{12} - a_{13} + a_{14} - a_{30} + \\
& a_{15} - a_{16} + a_{17} - a_{31} - 2a_{33} + a_{35} + \\
& a_{37} - a_{38} - a_{40} - a_{41} + a_{63} - a_{67} + \\
& a_{68} - a_{69} - a_{79} + a_{80} - 2a_{81} - a_{86} +
\end{aligned}
$$

$$
\begin{aligned}
& a_{87} - a_{88} - a_{89} + a_{252} - a_{127} + a_{131} - \\
& a_{132} + a_{138} + a_{142} - a_{144} - a_{151} + 2a_{152} - \\
& a_{163} - a_{165} + a_{169} + a_{171} - a_{175} - 2a_{177} + \\
& 2a_{181} + a_{183} - a_{185} - a_{380} + 2a_{383} + a_{384} - \\
& a_{398} + a_{399} + a_{409} + a_{410} + a_{413} + a_{417} + \\
& a_{419} + a_{421} + a_{423} + a_{424} - a_{425} - a_{427} + \\
& a_{430} + a_{431} + a_{433} + a_{436} - 2a_{437} - a_{438} - \\
& a_{440} + a_{441} + a_{445} - a_{447} + a_{448} + a_{450} - \\
& a_{452} + a_{458} + a_{459} + a_{461} + 3a_{462} + a_{468} + \\
& a_{469} - a_{471} - a_{483} - a_{485} + a_{486} + a_{489} + \\
& a_{492} - a_{495} - a_{497} - a_{502} - a_{505}
\end{aligned}
$$

$$
a_{636} = \frac{a_{380} - \sqrt{a_{380}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_5 + a_6 - a_{13} - a_{14} + a_7 - a_{15} + \\
& a_{16} - a_{17} + a_{18} - a_{32} - 2a_{34} + a_{36} + \\
& a_{38} - a_{39} - a_{41} - a_{42} + a_{64} - a_{68} + \\
& a_{69} - a_{70} - a_{80} + a_{81} - 2a_{82} - a_{87} + \\
& a_{88} - a_{89} - a_{90} + a_{253} - a_{128} + a_{132} - \\
& a_{133} + a_{139} + a_{143} - a_{145} - a_{152} + 2a_{153} - \\
& a_{164} - a_{166} + a_{170} + a_{172} - a_{176} - 2a_{178} + \\
& 2a_{182} + a_{184} - a_{186} - a_{381} + 2a_{384} + a_{385} - \\
& a_{399} + a_{400} + a_{410} + a_{411} + a_{414} + a_{418} + \\
& a_{420} + a_{422} + a_{424} + a_{425} - a_{426} - a_{428} + \\
& a_{431} + a_{432} + a_{434} + a_{437} - 2a_{438} - a_{439} - \\
& a_{441} + a_{442} + a_{446} - a_{448} + a_{449} + a_{451} - \\
& a_{453} + a_{459} + a_{460} + a_{462} + 3a_{463} + a_{469} + \\
& a_{470} - a_{472} - a_{484} - a_{486} + a_{487} + a_{490} + \\
& a_{493} - a_{496} - a_{498} - a_{503} - a_{506}
\end{aligned}
$$

$$
a_{637} = \frac{a_{381} + \sqrt{a_{381}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_6 + a_3 - a_{14} - a_7 + a_8 - a_{16} + \\
& a_{17} - a_{18} + a_{19} - a_{33} - 2a_{35} + a_{37} + \\
& a_{39} - a_{40} - a_{42} - a_{43} + a_{65} - a_{69} + \\
& a_{70} - a_{71} - a_{81} + a_{82} - 2a_{83} - a_{88} + \\
& a_{89} - a_{90} - a_{91} + a_{254} - a_{129} + a_{133} - \\
& a_{134} + a_{140} + a_{144} - a_{146} - a_{153} + 2a_{154} - \\
& a_{165} - a_{167} + a_{171} + a_{173} - a_{177} - 2a_{179} + \\
& 2a_{183} + a_{185} - a_{187} - a_{382} + 2a_{385} + a_{386} - \\
& a_{400} + a_{401} + a_{411} + a_{412} + a_{415} + a_{419} + \\
& a_{421} + a_{423} + a_{425} + a_{426} - a_{427} - a_{429} + \\
& a_{432} + a_{433} + a_{435} + a_{438} - 2a_{439} - a_{440} - \\
& a_{442} + a_{443} + a_{447} - a_{449} + a_{450} + a_{452} - \\
& a_{454} + a_{460} + a_{461} + a_{463} + 3a_{464} + a_{470} + \\
& a_{471} - a_{473} - a_{485} - a_{487} + a_{488} + a_{491} + \\
& a_{494} - a_{497} - a_{499} - a_{504} - a_{507}
\end{aligned}
$$

$$
a_{638} = \frac{a_{382} - \sqrt{a_{382}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_3 + a_4 - a_7 - a_8 + a_9 - a_{17} + \\
& a_{18} - a_{19} + a_{20} - a_{34} - 2a_{36} + a_{38} + \\
& a_{40} - a_{41} - a_{43} - a_{44} + a_{66} - a_{70} + \\
& a_{71} - a_{72} - a_{82} + a_{83} - 2a_{84} - a_{89} + \\
& a_{90} - a_{91} - a_{92} + a_{127} - a_{130} + a_{134} - \\
& a_{135} + a_{141} + a_{145} - a_{147} - a_{154} + 2a_{155} - \\
& a_{166} - a_{168} + a_{172} + a_{174} - a_{178} - 2a_{180} + \\
& 2a_{184} + a_{186} - a_{188} - a_{383} + 2a_{386} + a_{387} - \\
& a_{401} + a_{402} + a_{412} + a_{413} + a_{416} + a_{420} + \\
& a_{422} + a_{424} + a_{426} + a_{427} - a_{428} - a_{430} + \\
& a_{433} + a_{434} + a_{436} + a_{439} - 2a_{440} - a_{441} - \\
& a_{443} + a_{444} + a_{448} - a_{450} + a_{451} + a_{453} - \\
& a_{455} + a_{461} + a_{462} + a_{464} + 3a_{465} + a_{471} + \\
& a_{472} - a_{474} - a_{486} - a_{488} + a_{489} + a_{492} + \\
& a_{495} - a_{498} - a_{500} - a_{505} - a_{508}
\end{aligned}
$$

$$
a_{639} = \frac{a_{383} - \sqrt{a_{383}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_4 + a_5 - a_8 - a_9 + a_{10} - a_{18} + \\
& a_{19} - a_{20} + a_{21} - a_{35} - 2a_{37} + a_{39} + \\
& a_{41} - a_{42} - a_{44} - a_{45} + a_{67} - a_{71} + \\
& a_{72} - a_{73} - a_{83} + a_{84} - 2a_{85} - a_{90} + \\
& a_{91} - a_{92} - a_{93} + a_{128} - a_{131} + a_{135} - \\
& a_{136} + a_{142} + a_{146} - a_{148} - a_{155} + 2a_{156} - \\
& a_{167} - a_{169} + a_{173} + a_{175} - a_{179} - 2a_{181} + \\
& 2a_{185} + a_{187} - a_{189} - a_{384} + 2a_{387} + a_{388} - \\
& a_{402} + a_{403} + a_{413} + a_{414} + a_{417} + a_{421} + \\
& a_{423} + a_{425} + a_{427} + a_{428} - a_{429} - a_{431} + \\
& a_{434} + a_{435} + a_{437} + a_{440} - 2a_{441} - a_{442} - \\
& a_{444} + a_{445} + a_{449} - a_{451} + a_{452} + a_{454} - \\
& a_{456} + a_{462} + a_{463} + a_{465} + 3a_{466} + a_{472} + \\
& a_{473} - a_{475} - a_{487} - a_{489} + a_{490} + a_{493} + \\
& a_{496} - a_{499} - a_{501} - a_{506} - a_{509}
\end{aligned}
$$

$$
a_{640} = \frac{a_{384} - \sqrt{a_{384}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_5 + a_6 - a_9 - a_{10} + a_{11} - a_{19} + \\
& a_{20} - a_{21} + a_{22} - a_{36} - 2a_{38} + a_{40} + \\
& a_{42} - a_{43} - a_{45} - a_{46} + a_{68} - a_{72} + \\
& a_{73} - a_{74} - a_{84} + a_{85} - 2a_{86} - a_{91} + \\
& a_{92} - a_{93} - a_{94} + a_{129} - a_{132} + a_{136} - \\
& a_{137} + a_{143} + a_{147} - a_{149} - a_{156} + 2a_{157} - \\
& a_{168} - a_{170} + a_{174} + a_{176} - a_{180} - 2a_{182} + \\
& 2a_{186} + a_{188} - a_{190} - a_{385} + 2a_{388} + a_{389} - \\
& a_{403} + a_{404} + a_{414} + a_{415} + a_{418} + a_{422} + \\
& a_{424} + a_{426} + a_{428} + a_{429} - a_{430} - a_{432} + \\
& a_{435} + a_{436} + a_{438} + a_{441} - 2a_{442} - a_{443} - \\
& a_{445} + a_{446} + a_{450} - a_{452} + a_{453} + a_{455} - \\
& a_{457} + a_{463} + a_{464} + a_{466} + 3a_{467} + a_{473} + \\
& a_{474} - a_{476} - a_{488} - a_{490} + a_{491} + a_{494} + \\
& a_{497} - a_{500} - a_{502} - a_{507} - a_{510}
\end{aligned}
$$

$$
\begin{aligned}
a_{641} &= \frac{a_{385}-\sqrt{a_{385}^2-4x}}{2}\\
x &= a_6+a_3-a_{10}-a_{11}+a_{12}-a_{20}+\\
&\quad a_{21}-a_{22}+a_{23}-a_{37}-2a_{39}+a_{41}+\\
&\quad a_{43}-a_{44}-a_{46}-a_{47}+a_{69}-a_{73}+\\
&\quad a_{74}-a_{75}-a_{85}+a_{86}-2a_{87}-a_{92}+\\
&\quad a_{93}-a_{94}-a_{95}+a_{130}-a_{133}+a_{137}-\\
&\quad a_{138}+a_{144}+a_{148}-a_{150}-a_{157}+2a_{158}-\\
&\quad a_{169}-a_{171}+a_{175}+a_{177}-a_{181}-2a_{183}+\\
&\quad 2a_{187}+a_{189}-a_{191}-a_{386}+2a_{389}+a_{390}-\\
&\quad a_{404}+a_{405}+a_{415}+a_{416}+a_{419}+a_{423}+\\
&\quad a_{425}+a_{427}+a_{429}+a_{430}-a_{431}-a_{433}+\\
&\quad a_{436}+a_{437}+a_{439}+a_{442}-2a_{443}-a_{444}-\\
&\quad a_{446}+a_{447}+a_{451}-a_{453}+a_{454}+a_{456}-\\
&\quad a_{458}+a_{464}+a_{465}+a_{467}+3a_{468}+a_{474}+\\
&\quad a_{475}-a_{477}-a_{489}-a_{491}+a_{492}+a_{495}+\\
&\quad a_{498}-a_{501}-a_{503}-a_{508}-a_{255}\\
a_{642} &= \frac{a_{386}-\sqrt{a_{386}^2-4x}}{2}\\
x &= a_3+a_4-a_{11}-a_{12}+a_{13}-a_{21}+\\
&\quad a_{22}-a_{23}+a_{24}-a_{38}-2a_{40}+a_{42}+\\
&\quad a_{44}-a_{45}-a_{47}-a_{48}+a_{70}-a_{74}+\\
&\quad a_{75}-a_{76}-a_{86}+a_{87}-2a_{88}-a_{93}+\\
&\quad a_{94}-a_{95}-a_{96}+a_{131}-a_{134}+a_{138}-\\
&\quad a_{139}+a_{145}+a_{149}-a_{151}-a_{158}+2a_{159}-\\
&\quad a_{170}-a_{172}+a_{176}+a_{178}-a_{182}-2a_{184}+\\
&\quad 2a_{188}+a_{190}-a_{192}-a_{387}+2a_{390}+a_{391}-\\
&\quad a_{405}+a_{406}+a_{416}+a_{417}+a_{420}+a_{424}+\\
&\quad a_{426}+a_{428}+a_{430}+a_{431}-a_{432}-a_{434}+\\
&\quad a_{437}+a_{438}+a_{440}+a_{443}-2a_{444}-a_{445}-\\
&\quad a_{447}+a_{448}+a_{452}-a_{454}+a_{455}+a_{457}-\\
&\quad a_{459}+a_{465}+a_{466}+a_{468}+3a_{469}+a_{475}+\\
&\quad a_{476}-a_{478}-a_{490}-a_{492}+a_{493}+a_{496}+\\
&\quad a_{499}-a_{502}-a_{504}-a_{509}-a_{256}\\
a_{643} &= \frac{a_{387}+\sqrt{a_{387}^2-4x}}{2}\\
x &= a_4+a_5-a_{12}-a_{13}+a_{14}-a_{22}+\\
&\quad a_{23}-a_{24}+a_{25}-a_{39}-2a_{41}+a_{43}+\\
&\quad a_{45}-a_{46}-a_{48}-a_{49}+a_{71}-a_{75}+\\
&\quad a_{76}-a_{77}-a_{87}+a_{88}-2a_{89}-a_{94}+\\
&\quad a_{95}-a_{96}-a_{97}+a_{132}-a_{135}+a_{139}-\\
&\quad a_{140}+a_{146}+a_{150}-a_{152}-a_{159}+2a_{160}-\\
&\quad a_{171}-a_{173}+a_{177}+a_{179}-a_{183}-2a_{185}+\\
&\quad 2a_{189}+a_{191}-a_{193}-a_{388}+2a_{391}+a_{392}-\\
&\quad a_{406}+a_{407}+a_{417}+a_{418}+a_{421}+a_{425}+\\
&\quad a_{427}+a_{429}+a_{431}+a_{432}-a_{433}-a_{435}+\\
&\quad a_{438}+a_{439}+a_{441}+a_{444}-2a_{445}-a_{446}-\\
&\quad a_{448}+a_{449}+a_{453}-a_{455}+a_{456}+a_{458}-\\
&\quad a_{460}+a_{466}+a_{467}+a_{469}+3a_{470}+a_{476}+\\
&\quad a_{477}-a_{479}-a_{491}-a_{493}+a_{494}+a_{497}+\\
&\quad a_{500}-a_{503}-a_{505}-a_{510}-a_{257}\\
a_{644} &= \frac{a_{388}+\sqrt{a_{388}^2-4x}}{2}\\
x &= a_5+a_6-a_{13}-a_{14}+a_7-a_{23}+\\
&\quad a_{24}-a_{25}+a_{26}-a_{40}-2a_{42}+a_{44}+\\
&\quad a_{46}-a_{47}-a_{49}-a_{50}+a_{72}-a_{76}+\\
&\quad a_{77}-a_{78}-a_{88}+a_{89}-2a_{90}-a_{95}+\\
&\quad a_{96}-a_{97}-a_{98}+a_{133}-a_{136}+a_{140}-\\
&\quad a_{141}+a_{147}+a_{151}-a_{153}-a_{160}+2a_{161}-\\
&\quad a_{172}-a_{174}+a_{178}+a_{180}-a_{184}-2a_{186}+\\
&\quad 2a_{190}+a_{192}-a_{194}-a_{389}+2a_{392}+a_{393}-\\
&\quad a_{407}+a_{408}+a_{418}+a_{419}+a_{422}+a_{426}+\\
&\quad a_{428}+a_{430}+a_{432}+a_{433}-a_{434}-a_{436}+\\
&\quad a_{439}+a_{440}+a_{442}+a_{445}-2a_{446}-a_{447}-\\
&\quad a_{449}+a_{450}+a_{454}-a_{456}+a_{457}+a_{459}-\\
&\quad a_{461}+a_{467}+a_{468}+a_{470}+3a_{471}+a_{477}+\\
&\quad a_{478}-a_{480}-a_{492}-a_{494}+a_{495}+a_{498}+\\
&\quad a_{501}-a_{504}-a_{506}-a_{255}-a_{258}\\
a_{645} &= \frac{a_{389}-\sqrt{a_{389}^2-4x}}{2}\\
x &= a_6+a_3-a_{14}-a_7+a_8-a_{24}+\\
&\quad a_{25}-a_{26}+a_{27}-a_{41}-2a_{43}+a_{45}+\\
&\quad a_{47}-a_{48}-a_{50}-a_{51}+a_{73}-a_{77}+\\
&\quad a_{78}-a_{79}-a_{89}+a_{90}-2a_{91}-a_{96}+\\
&\quad a_{97}-a_{98}-a_{99}+a_{134}-a_{137}+a_{141}-\\
&\quad a_{142}+a_{148}+a_{152}-a_{154}-a_{161}+2a_{162}-\\
&\quad a_{173}-a_{175}+a_{179}+a_{181}-a_{185}-2a_{187}+\\
&\quad 2a_{191}+a_{193}-a_{195}-a_{390}+2a_{393}+a_{394}-\\
&\quad a_{408}+a_{409}+a_{419}+a_{420}+a_{423}+a_{427}+\\
&\quad a_{429}+a_{431}+a_{433}+a_{434}-a_{435}-a_{437}+\\
&\quad a_{440}+a_{441}+a_{443}+a_{446}-2a_{447}-a_{448}-\\
&\quad a_{450}+a_{451}+a_{455}-a_{457}+a_{458}+a_{460}-\\
&\quad a_{462}+a_{468}+a_{469}+a_{471}+3a_{472}+a_{478}+\\
&\quad a_{479}-a_{481}-a_{493}-a_{495}+a_{496}+a_{499}+\\
&\quad a_{502}-a_{505}-a_{507}-a_{256}-a_{259}\\
a_{646} &= \frac{a_{390}+\sqrt{a_{390}^2-4x}}{2}\\
x &= a_3+a_4-a_7-a_8+a_9-a_{25}+\\
&\quad a_{26}-a_{27}+a_{28}-a_{42}-2a_{44}+a_{46}+\\
&\quad a_{48}-a_{49}-a_{51}-a_{52}+a_{74}-a_{78}+\\
&\quad a_{79}-a_{80}-a_{90}+a_{91}-2a_{92}-a_{97}+\\
&\quad a_{98}-a_{99}-a_{100}+a_{135}-a_{138}+a_{142}-\\
&\quad a_{143}+a_{149}+a_{153}-a_{155}-a_{162}+2a_{163}-\\
&\quad a_{174}-a_{176}+a_{180}+a_{182}-a_{186}-2a_{188}+\\
&\quad 2a_{192}+a_{194}-a_{196}-a_{391}+2a_{394}+a_{395}-\\
&\quad a_{409}+a_{410}+a_{420}+a_{421}+a_{424}+a_{428}+\\
&\quad a_{430}+a_{432}+a_{434}+a_{435}-a_{436}-a_{438}+\\
&\quad a_{441}+a_{442}+a_{444}+a_{447}-2a_{448}-a_{449}-
\end{aligned}
$$

$$
\begin{aligned}
& a_{451} + a_{452} + a_{456} - a_{458} + a_{459} + a_{461} - \\
& a_{463} + a_{469} + a_{470} + a_{472} + 3a_{473} + a_{479} + \\
& a_{480} - a_{482} - a_{494} - a_{496} + a_{497} + a_{500} + \\
& a_{503} - a_{506} - a_{508} - a_{257} - a_{260}
\end{aligned}
$$

$$
a_{647} = \frac{a_{391} - \sqrt{a_{391}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_4 + a_5 - a_8 - a_9 + a_{10} - a_{26} + \\
& a_{27} - a_{28} + a_{29} - a_{43} - 2a_{45} + a_{47} + \\
& a_{49} - a_{50} - a_{52} - a_{53} + a_{75} - a_{79} + \\
& a_{80} - a_{81} - a_{91} + a_{92} - 2a_{93} - a_{98} + \\
& a_{99} - a_{100} - a_{101} + a_{136} - a_{139} + a_{143} - \\
& a_{144} + a_{150} + a_{154} - a_{156} - a_{163} + 2a_{164} - \\
& a_{175} - a_{177} + a_{181} + a_{183} - a_{187} - 2a_{189} + \\
& 2a_{193} + a_{195} - a_{197} - a_{392} + 2a_{395} + a_{396} - \\
& a_{410} + a_{411} + a_{421} + a_{422} + a_{425} + a_{429} + \\
& a_{431} + a_{433} + a_{435} + a_{436} - a_{437} - a_{439} + \\
& a_{442} + a_{443} + a_{445} + a_{448} - 2a_{449} - a_{450} - \\
& a_{452} + a_{453} + a_{457} - a_{459} + a_{460} + a_{462} - \\
& a_{464} + a_{470} + a_{471} + a_{473} + 3a_{474} + a_{480} + \\
& a_{481} - a_{483} - a_{495} - a_{497} + a_{498} + a_{501} + \\
& a_{504} - a_{507} - a_{509} - a_{258} - a_{261}
\end{aligned}
$$

$$
a_{648} = \frac{a_{392} - \sqrt{a_{392}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_5 + a_6 - a_9 - a_{10} + a_{11} - a_{27} + \\
& a_{28} - a_{29} + a_{30} - a_{44} - 2a_{46} + a_{48} + \\
& a_{50} - a_{51} - a_{53} - a_{54} + a_{76} - a_{80} + \\
& a_{81} - a_{82} - a_{92} + a_{93} - 2a_{94} - a_{99} + \\
& a_{100} - a_{101} - a_{102} + a_{137} - a_{140} + a_{144} - \\
& a_{145} + a_{151} + a_{155} - a_{157} - a_{164} + 2a_{165} - \\
& a_{176} - a_{178} + a_{182} + a_{184} - a_{188} - 2a_{190} + \\
& 2a_{194} + a_{196} - a_{198} - a_{393} + 2a_{396} + a_{397} - \\
& a_{411} + a_{412} + a_{422} + a_{423} + a_{426} + a_{430} + \\
& a_{432} + a_{434} + a_{436} + a_{437} - a_{438} - a_{440} + \\
& a_{443} + a_{444} + a_{446} + a_{449} - 2a_{450} - a_{451} - \\
& a_{453} + a_{454} + a_{458} - a_{460} + a_{461} + a_{463} - \\
& a_{465} + a_{471} + a_{472} + a_{474} + 3a_{475} + a_{481} + \\
& a_{482} - a_{484} - a_{496} - a_{498} + a_{499} + a_{502} + \\
& a_{505} - a_{508} - a_{510} - a_{259} - a_{262}
\end{aligned}
$$

$$
a_{649} = \frac{a_{393} + \sqrt{a_{393}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_6 + a_3 - a_{10} - a_{11} + a_{12} - a_{28} + \\
& a_{29} - a_{30} + a_{15} - a_{45} - 2a_{47} + a_{49} + \\
& a_{51} - a_{52} - a_{54} - a_{55} + a_{77} - a_{81} + \\
& a_{82} - a_{83} - a_{93} + a_{94} - 2a_{95} - a_{100} + \\
& a_{101} - a_{102} - a_{103} + a_{138} - a_{141} + a_{145} - \\
& a_{146} + a_{152} + a_{156} - a_{158} - a_{165} + 2a_{166} - \\
& a_{177} - a_{179} + a_{183} + a_{185} - a_{189} - 2a_{191} + \\
& 2a_{195} + a_{197} - a_{199} - a_{394} + 2a_{397} + a_{398} - \\
& a_{412} + a_{413} + a_{423} + a_{424} + a_{427} + a_{431} + \\
& a_{433} + a_{435} + a_{437} + a_{438} - a_{439} - a_{441} + \\
& a_{444} + a_{445} + a_{447} + a_{450} - 2a_{451} - a_{452} - \\
& a_{454} + a_{455} + a_{459} - a_{461} + a_{462} + a_{464} - \\
& a_{466} + a_{472} + a_{473} + a_{475} + 3a_{476} + a_{482} + \\
& a_{483} - a_{485} - a_{497} - a_{499} + a_{500} + a_{503} + \\
& a_{506} - a_{509} - a_{255} - a_{260} - a_{263}
\end{aligned}
$$

$$
a_{650} = \frac{a_{394} - \sqrt{a_{394}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_3 + a_4 - a_{11} - a_{12} + a_{13} - a_{29} + \\
& a_{30} - a_{15} + a_{16} - a_{46} - 2a_{48} + a_{50} + \\
& a_{52} - a_{53} - a_{55} - a_{56} + a_{78} - a_{82} + \\
& a_{83} - a_{84} - a_{94} + a_{95} - 2a_{96} - a_{101} + \\
& a_{102} - a_{103} - a_{104} + a_{139} - a_{142} + a_{146} - \\
& a_{147} + a_{153} + a_{157} - a_{159} - a_{166} + 2a_{167} - \\
& a_{178} - a_{180} + a_{184} + a_{186} - a_{190} - 2a_{192} + \\
& 2a_{196} + a_{198} - a_{200} - a_{395} + 2a_{398} + a_{399} - \\
& a_{413} + a_{414} + a_{424} + a_{425} + a_{428} + a_{432} + \\
& a_{434} + a_{436} + a_{438} + a_{439} - a_{440} - a_{442} + \\
& a_{445} + a_{446} + a_{448} + a_{451} - 2a_{452} - a_{453} - \\
& a_{455} + a_{456} + a_{460} - a_{462} + a_{463} + a_{465} - \\
& a_{467} + a_{473} + a_{474} + a_{476} + 3a_{477} + a_{483} + \\
& a_{484} - a_{486} - a_{498} - a_{500} + a_{501} + a_{504} + \\
& a_{507} - a_{510} - a_{256} - a_{261} - a_{264}
\end{aligned}
$$

$$
a_{651} = \frac{a_{395} - \sqrt{a_{395}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_4 + a_5 - a_{12} - a_{13} + a_{14} - a_{30} + \\
& a_{15} - a_{16} + a_{17} - a_{47} - 2a_{49} + a_{51} + \\
& a_{53} - a_{54} - a_{56} - a_{57} + a_{79} - a_{83} + \\
& a_{84} - a_{85} - a_{95} + a_{96} - 2a_{97} - a_{102} + \\
& a_{103} - a_{104} - a_{105} + a_{140} - a_{143} + a_{147} - \\
& a_{148} + a_{154} + a_{158} - a_{160} - a_{167} + 2a_{168} - \\
& a_{179} - a_{181} + a_{185} + a_{187} - a_{191} - 2a_{193} + \\
& 2a_{197} + a_{199} - a_{201} - a_{396} + 2a_{399} + a_{400} - \\
& a_{414} + a_{415} + a_{425} + a_{426} + a_{429} + a_{433} + \\
& a_{435} + a_{437} + a_{439} + a_{440} - a_{441} - a_{443} + \\
& a_{446} + a_{447} + a_{449} + a_{452} - 2a_{453} - a_{454} - \\
& a_{456} + a_{457} + a_{461} - a_{463} + a_{464} + a_{466} - \\
& a_{468} + a_{474} + a_{475} + a_{477} + 3a_{478} + a_{484} + \\
& a_{485} - a_{487} - a_{499} - a_{501} + a_{502} + a_{505} + \\
& a_{508} - a_{255} - a_{257} - a_{262} - a_{265}
\end{aligned}
$$

$$
a_{652} = \frac{a_{396} - \sqrt{a_{396}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_5 + a_6 - a_{13} - a_{14} + a_7 - a_{15} + \\
& a_{16} - a_{17} + a_{18} - a_{48} - 2a_{50} + a_{52} + \\
& a_{54} - a_{55} - a_{57} - a_{58} + a_{80} - a_{84} + \\
& a_{85} - a_{86} - a_{96} + a_{97} - 2a_{98} - a_{103} + \\
& a_{104} - a_{105} - a_{106} + a_{141} - a_{144} + a_{148} - \\
& a_{149} + a_{155} + a_{159} - a_{161} - a_{168} + 2a_{169} -
\end{aligned}
$$

$$
\begin{aligned}
& a_{180} - a_{182} + a_{186} + a_{188} - a_{192} - 2a_{194} + \\
& 2a_{198} + a_{200} - a_{202} - a_{397} + 2a_{400} + a_{401} - \\
& a_{415} + a_{416} + a_{426} + a_{427} + a_{430} + a_{434} + \\
& a_{436} + a_{438} + a_{440} + a_{441} - a_{442} - a_{444} + \\
& a_{447} + a_{448} + a_{450} + a_{453} - 2a_{454} - a_{455} - \\
& a_{457} + a_{458} + a_{462} - a_{464} + a_{465} + a_{467} - \\
& a_{469} + a_{475} + a_{476} + a_{478} + 3a_{479} + a_{485} + \\
& a_{486} - a_{488} - a_{500} - a_{502} + a_{503} + a_{506} + \\
& a_{509} - a_{256} - a_{258} - a_{263} - a_{266}
\end{aligned}
$$

$$
a_{653} = \frac{a_{397} - \sqrt{a_{397}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_6 + a_3 - a_{14} - a_7 + a_8 - a_{16} + \\
& a_{17} - a_{18} + a_{19} - a_{49} - 2a_{51} + a_{53} + \\
& a_{55} - a_{56} - a_{58} - a_{59} + a_{81} - a_{85} + \\
& a_{86} - a_{87} - a_{97} + a_{98} - 2a_{99} - a_{104} + \\
& a_{105} - a_{106} - a_{107} + a_{142} - a_{145} + a_{149} - \\
& a_{150} + a_{156} + a_{160} - a_{162} - a_{169} + 2a_{170} - \\
& a_{181} - a_{183} + a_{187} + a_{189} - a_{193} - 2a_{195} + \\
& 2a_{199} + a_{201} - a_{203} - a_{398} + 2a_{401} + a_{402} - \\
& a_{416} + a_{417} + a_{427} + a_{428} + a_{431} + a_{435} + \\
& a_{437} + a_{439} + a_{441} + a_{442} - a_{443} - a_{445} + \\
& a_{448} + a_{449} + a_{451} + a_{454} - 2a_{455} - a_{456} - \\
& a_{458} + a_{459} + a_{463} - a_{465} + a_{466} + a_{468} - \\
& a_{470} + a_{476} + a_{477} + a_{479} + 3a_{480} + a_{486} + \\
& a_{487} - a_{489} - a_{501} - a_{503} + a_{504} + a_{507} + \\
& a_{510} - a_{257} - a_{259} - a_{264} - a_{267}
\end{aligned}
$$

$$
a_{654} = \frac{a_{398} + \sqrt{a_{398}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_3 + a_4 - a_7 - a_8 + a_9 - a_{17} + \\
& a_{18} - a_{19} + a_{20} - a_{50} - 2a_{52} + a_{54} + \\
& a_{56} - a_{57} - a_{59} - a_{60} + a_{82} - a_{86} + \\
& a_{87} - a_{88} - a_{98} + a_{99} - 2a_{100} - a_{105} + \\
& a_{106} - a_{107} - a_{108} + a_{143} - a_{146} + a_{150} - \\
& a_{151} + a_{157} + a_{161} - a_{163} - a_{170} + 2a_{171} - \\
& a_{182} - a_{184} + a_{188} + a_{190} - a_{194} - 2a_{196} + \\
& 2a_{200} + a_{202} - a_{204} - a_{399} + 2a_{402} + a_{403} - \\
& a_{417} + a_{418} + a_{428} + a_{429} + a_{432} + a_{436} + \\
& a_{438} + a_{440} + a_{442} + a_{443} - a_{444} - a_{446} + \\
& a_{449} + a_{450} + a_{452} + a_{455} - 2a_{456} - a_{457} - \\
& a_{459} + a_{460} + a_{464} - a_{466} + a_{467} + a_{469} - \\
& a_{471} + a_{477} + a_{478} + a_{480} + 3a_{481} + a_{487} + \\
& a_{488} - a_{490} - a_{502} - a_{504} + a_{505} + a_{508} + \\
& a_{255} - a_{258} - a_{260} - a_{265} - a_{268}
\end{aligned}
$$

$$
a_{655} = \frac{a_{399} + \sqrt{a_{399}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_4 + a_5 - a_8 - a_9 + a_{10} - a_{18} + \\
& a_{19} - a_{20} + a_{21} - a_{51} - 2a_{53} + a_{55} + \\
& a_{57} - a_{58} - a_{60} - a_{61} + a_{83} - a_{87} + \\
& a_{88} - a_{89} - a_{99} + a_{100} - 2a_{101} - a_{106} + \\
& a_{107} - a_{108} - a_{109} + a_{144} - a_{147} + a_{151} - \\
& a_{152} + a_{158} + a_{162} - a_{164} - a_{171} + 2a_{172} - \\
& a_{183} - a_{185} + a_{189} + a_{191} - a_{195} - 2a_{197} + \\
& 2a_{201} + a_{203} - a_{205} - a_{400} + 2a_{403} + a_{404} - \\
& a_{418} + a_{419} + a_{429} + a_{430} + a_{433} + a_{437} + \\
& a_{439} + a_{441} + a_{443} + a_{444} - a_{445} - a_{447} + \\
& a_{450} + a_{451} + a_{453} + a_{456} - 2a_{457} - a_{458} - \\
& a_{460} + a_{461} + a_{465} - a_{467} + a_{468} + a_{470} - \\
& a_{472} + a_{478} + a_{479} + a_{481} + 3a_{482} + a_{488} + \\
& a_{489} - a_{491} - a_{503} - a_{505} + a_{506} + a_{509} + \\
& a_{256} - a_{259} - a_{261} - a_{266} - a_{269}
\end{aligned}
$$

$$
a_{656} = \frac{a_{400} - \sqrt{a_{400}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_5 + a_6 - a_9 - a_{10} + a_{11} - a_{19} + \\
& a_{20} - a_{21} + a_{22} - a_{52} - 2a_{54} + a_{56} + \\
& a_{58} - a_{59} - a_{61} - a_{62} + a_{84} - a_{88} + \\
& a_{89} - a_{90} - a_{100} + a_{101} - 2a_{102} - a_{107} + \\
& a_{108} - a_{109} - a_{110} + a_{145} - a_{148} + a_{152} - \\
& a_{153} + a_{159} + a_{163} - a_{165} - a_{172} + 2a_{173} - \\
& a_{184} - a_{186} + a_{190} + a_{192} - a_{196} - 2a_{198} + \\
& 2a_{202} + a_{204} - a_{206} - a_{401} + 2a_{404} + a_{405} - \\
& a_{419} + a_{420} + a_{430} + a_{431} + a_{434} + a_{438} + \\
& a_{440} + a_{442} + a_{444} + a_{445} - a_{446} - a_{448} + \\
& a_{451} + a_{452} + a_{454} + a_{457} - 2a_{458} - a_{459} - \\
& a_{461} + a_{462} + a_{466} - a_{468} + a_{469} + a_{471} - \\
& a_{473} + a_{479} + a_{480} + a_{482} + 3a_{483} + a_{489} + \\
& a_{490} - a_{492} - a_{504} - a_{506} + a_{507} + a_{510} + \\
& a_{257} - a_{260} - a_{262} - a_{267} - a_{270}
\end{aligned}
$$

$$
a_{657} = \frac{a_{401} + \sqrt{a_{401}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_6 + a_3 - a_{10} - a_{11} + a_{12} - a_{20} + \\
& a_{21} - a_{22} + a_{23} - a_{53} - 2a_{55} + a_{57} + \\
& a_{59} - a_{60} - a_{62} - a_{31} + a_{85} - a_{89} + \\
& a_{90} - a_{91} - a_{101} + a_{102} - 2a_{103} - a_{108} + \\
& a_{109} - a_{110} - a_{111} + a_{146} - a_{149} + a_{153} - \\
& a_{154} + a_{160} + a_{164} - a_{166} - a_{173} + 2a_{174} - \\
& a_{185} - a_{187} + a_{191} + a_{193} - a_{197} - 2a_{199} + \\
& 2a_{203} + a_{205} - a_{207} - a_{402} + 2a_{405} + a_{406} - \\
& a_{420} + a_{421} + a_{431} + a_{432} + a_{435} + a_{439} + \\
& a_{441} + a_{443} + a_{445} + a_{446} - a_{447} - a_{449} + \\
& a_{452} + a_{453} + a_{455} + a_{458} - 2a_{459} - a_{460} - \\
& a_{462} + a_{463} + a_{467} - a_{469} + a_{470} + a_{472} - \\
& a_{474} + a_{480} + a_{481} + a_{483} + 3a_{484} + a_{490} + \\
& a_{491} - a_{493} - a_{505} - a_{507} + a_{508} + a_{255} + \\
& a_{258} - a_{261} - a_{263} - a_{268} - a_{271}
\end{aligned}
$$

$$
a_{658} = \frac{a_{402} + \sqrt{a_{402}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_3 + a_4 - a_{11} - a_{12} + a_{13} - a_{21} + \\
& a_{22} - a_{23} + a_{24} - a_{54} - 2a_{56} + a_{58} +
\end{aligned}
$$

$$
\begin{aligned}
& a_{60} - a_{61} - a_{31} - a_{32} + a_{86} - a_{90} + \\
& a_{91} - a_{92} - a_{102} + a_{103} - 2a_{104} - a_{109} + \\
& a_{110} - a_{111} - a_{112} + a_{147} - a_{150} + a_{154} - \\
& a_{155} + a_{161} + a_{165} - a_{167} - a_{174} + 2a_{175} - \\
& a_{186} - a_{188} + a_{192} + a_{194} - a_{198} - 2a_{200} + \\
& 2a_{204} + a_{206} - a_{208} - a_{403} + 2a_{406} + a_{407} - \\
& a_{421} + a_{422} + a_{432} + a_{433} + a_{436} + a_{440} + \\
& a_{442} + a_{444} + a_{446} + a_{447} - a_{448} - a_{450} + \\
& a_{453} + a_{454} + a_{456} + a_{459} - 2a_{460} - a_{461} - \\
& a_{463} + a_{464} + a_{468} - a_{470} + a_{471} + a_{473} - \\
& a_{475} + a_{481} + a_{482} + a_{484} + 3a_{485} + a_{491} + \\
& a_{492} - a_{494} - a_{506} - a_{508} + a_{509} + a_{256} + \\
& a_{259} - a_{262} - a_{264} - a_{269} - a_{272}
\end{aligned}
$$

$$
\begin{aligned}
a_{659} &= \frac{a_{403} + \sqrt{a_{403}^2 - 4x}}{2} \\
x &= a_4 + a_5 - a_{12} - a_{13} + a_{14} - a_{22} + \\
& a_{23} - a_{24} + a_{25} - a_{55} - 2a_{57} + a_{59} + \\
& a_{61} - a_{62} - a_{32} - a_{33} + a_{87} - a_{91} + \\
& a_{92} - a_{93} - a_{103} + a_{104} - 2a_{105} - a_{110} + \\
& a_{111} - a_{112} - a_{113} + a_{148} - a_{151} + a_{155} - \\
& a_{156} + a_{162} + a_{166} - a_{168} - a_{175} + 2a_{176} - \\
& a_{187} - a_{189} + a_{193} + a_{195} - a_{199} - 2a_{201} + \\
& 2a_{205} + a_{207} - a_{209} - a_{404} + 2a_{407} + a_{408} - \\
& a_{422} + a_{423} + a_{433} + a_{434} + a_{437} + a_{441} + \\
& a_{443} + a_{445} + a_{447} + a_{448} - a_{449} - a_{451} + \\
& a_{454} + a_{455} + a_{457} + a_{460} - 2a_{461} - a_{462} - \\
& a_{464} + a_{465} + a_{469} - a_{471} + a_{472} + a_{474} - \\
& a_{476} + a_{482} + a_{483} + a_{485} + 3a_{486} + a_{492} + \\
& a_{493} - a_{495} - a_{507} - a_{509} + a_{510} + a_{257} + \\
& a_{260} - a_{263} - a_{265} - a_{270} - a_{273}
\end{aligned}
$$

$$
\begin{aligned}
a_{660} &= \frac{a_{404} - \sqrt{a_{404}^2 - 4x}}{2} \\
x &= a_5 + a_6 - a_{13} - a_{14} + a_7 - a_{23} + \\
& a_{24} - a_{25} + a_{26} - a_{56} - 2a_{58} + a_{60} + \\
& a_{62} - a_{31} - a_{33} - a_{34} + a_{88} - a_{92} + \\
& a_{93} - a_{94} - a_{104} + a_{105} - 2a_{106} - a_{111} + \\
& a_{112} - a_{113} - a_{114} + a_{149} - a_{152} + a_{156} - \\
& a_{157} + a_{163} + a_{167} - a_{169} - a_{176} + 2a_{177} - \\
& a_{188} - a_{190} + a_{194} + a_{196} - a_{200} - 2a_{202} + \\
& 2a_{206} + a_{208} - a_{210} - a_{405} + 2a_{408} + a_{409} - \\
& a_{423} + a_{424} + a_{434} + a_{435} + a_{438} + a_{442} + \\
& a_{444} + a_{446} + a_{448} + a_{449} - a_{450} - a_{452} + \\
& a_{455} + a_{456} + a_{458} + a_{461} - 2a_{462} - a_{463} - \\
& a_{465} + a_{466} + a_{470} - a_{472} + a_{473} + a_{475} - \\
& a_{477} + a_{483} + a_{484} + a_{486} + 3a_{487} + a_{493} + \\
& a_{494} - a_{496} - a_{508} - a_{510} + a_{255} + a_{258} + \\
& a_{261} - a_{264} - a_{266} - a_{271} - a_{274}
\end{aligned}
$$

$$
\begin{aligned}
a_{661} &= \frac{a_{405} + \sqrt{a_{405}^2 - 4x}}{2} \\
x &= a_6 + a_3 - a_{14} - a_7 + a_8 - a_{24} + \\
& a_{25} - a_{26} + a_{27} - a_{57} - 2a_{59} + a_{61} + \\
& a_{31} - a_{32} - a_{34} - a_{35} + a_{89} - a_{93} + \\
& a_{94} - a_{95} - a_{105} + a_{106} - 2a_{107} - a_{112} + \\
& a_{113} - a_{114} - a_{115} + a_{150} - a_{153} + a_{157} - \\
& a_{158} + a_{164} + a_{168} - a_{170} - a_{177} + 2a_{178} - \\
& a_{189} - a_{191} + a_{195} + a_{197} - a_{201} - 2a_{203} + \\
& 2a_{207} + a_{209} - a_{211} - a_{406} + 2a_{409} + a_{410} - \\
& a_{424} + a_{425} + a_{435} + a_{436} + a_{439} + a_{443} + \\
& a_{445} + a_{447} + a_{449} + a_{450} - a_{451} - a_{453} + \\
& a_{456} + a_{457} + a_{459} + a_{462} - 2a_{463} - a_{464} - \\
& a_{466} + a_{467} + a_{471} - a_{473} + a_{474} + a_{476} - \\
& a_{478} + a_{484} + a_{485} + a_{487} + 3a_{488} + a_{494} + \\
& a_{495} - a_{497} - a_{509} - a_{255} + a_{256} + a_{259} + \\
& a_{262} - a_{265} - a_{267} - a_{272} - a_{275}
\end{aligned}
$$

$$
\begin{aligned}
a_{662} &= \frac{a_{406} + \sqrt{a_{406}^2 - 4x}}{2} \\
x &= a_3 + a_4 - a_7 - a_8 + a_9 - a_{25} + \\
& a_{26} - a_{27} + a_{28} - a_{58} - 2a_{60} + a_{62} + \\
& a_{32} - a_{33} - a_{35} - a_{36} + a_{90} - a_{94} + \\
& a_{95} - a_{96} - a_{106} + a_{107} - 2a_{108} - a_{113} + \\
& a_{114} - a_{115} - a_{116} + a_{151} - a_{154} + a_{158} - \\
& a_{159} + a_{165} + a_{169} - a_{171} - a_{178} + 2a_{179} - \\
& a_{190} - a_{192} + a_{196} + a_{198} - a_{202} - 2a_{204} + \\
& 2a_{208} + a_{210} - a_{212} - a_{407} + 2a_{410} + a_{411} - \\
& a_{425} + a_{426} + a_{436} + a_{437} + a_{440} + a_{444} + \\
& a_{446} + a_{448} + a_{450} + a_{451} - a_{452} - a_{454} + \\
& a_{457} + a_{458} + a_{460} + a_{463} - 2a_{464} - a_{465} - \\
& a_{467} + a_{468} + a_{472} - a_{474} + a_{475} + a_{477} - \\
& a_{479} + a_{485} + a_{486} + a_{488} + 3a_{489} + a_{495} + \\
& a_{496} - a_{498} - a_{510} - a_{256} + a_{257} + a_{260} + \\
& a_{263} - a_{266} - a_{268} - a_{273} - a_{276}
\end{aligned}
$$

$$
\begin{aligned}
a_{663} &= \frac{a_{407} - \sqrt{a_{407}^2 - 4x}}{2} \\
x &= a_4 + a_5 - a_8 - a_9 + a_{10} - a_{26} + \\
& a_{27} - a_{28} + a_{29} - a_{59} - 2a_{61} + a_{31} + \\
& a_{33} - a_{34} - a_{36} - a_{37} + a_{91} - a_{95} + \\
& a_{96} - a_{97} - a_{107} + a_{108} - 2a_{109} - a_{114} + \\
& a_{115} - a_{116} - a_{117} + a_{152} - a_{155} + a_{159} - \\
& a_{160} + a_{166} + a_{170} - a_{172} - a_{179} + 2a_{180} - \\
& a_{191} - a_{193} + a_{197} + a_{199} - a_{203} - 2a_{205} + \\
& 2a_{209} + a_{211} - a_{213} - a_{408} + 2a_{411} + a_{412} - \\
& a_{426} + a_{427} + a_{437} + a_{438} + a_{441} + a_{445} + \\
& a_{447} + a_{449} + a_{451} + a_{452} - a_{453} - a_{455} + \\
& a_{458} + a_{459} + a_{461} + a_{464} - 2a_{465} - a_{466} - \\
& a_{468} + a_{469} + a_{473} - a_{475} + a_{476} + a_{478} - \\
& a_{480} + a_{486} + a_{487} + a_{489} + 3a_{490} + a_{496} +
\end{aligned}
$$

$$
\begin{aligned}
& a_{497} - a_{499} - a_{255} - a_{257} + a_{258} + a_{261} + \\
& a_{264} - a_{267} - a_{269} - a_{274} - a_{277} \\
a_{664} &= \frac{a_{408} - \sqrt{a_{408}^2 - 4x}}{2} \\
x &= a_5 + a_6 - a_9 - a_{10} + a_{11} - a_{27} + \\
& a_{28} - a_{29} + a_{30} - a_{60} - 2a_{62} + a_{32} + \\
& a_{34} - a_{35} - a_{37} - a_{38} + a_{92} - a_{96} + \\
& a_{97} - a_{98} - a_{108} + a_{109} - 2a_{110} - a_{115} + \\
& a_{116} - a_{117} - a_{118} + a_{153} - a_{156} + a_{160} - \\
& a_{161} + a_{167} + a_{171} - a_{173} - a_{180} + 2a_{181} - \\
& a_{192} - a_{194} + a_{198} + a_{200} - a_{204} - 2a_{206} + \\
& 2a_{210} + a_{212} - a_{214} - a_{409} + 2a_{412} + a_{413} - \\
& a_{427} + a_{428} + a_{438} + a_{439} + a_{442} + a_{446} + \\
& a_{448} + a_{450} + a_{452} + a_{453} - a_{454} - a_{456} + \\
& a_{459} + a_{460} + a_{462} + a_{465} - 2a_{466} - a_{467} - \\
& a_{469} + a_{470} + a_{474} - a_{476} + a_{477} + a_{479} - \\
& a_{481} + a_{487} + a_{488} + a_{490} + 3a_{491} + a_{497} + \\
& a_{498} - a_{500} - a_{256} - a_{258} + a_{259} + a_{262} + \\
& a_{265} - a_{268} - a_{270} - a_{275} - a_{278} \\
a_{665} &= \frac{a_{409} + \sqrt{a_{409}^2 - 4x}}{2} \\
x &= a_6 + a_3 - a_{10} - a_{11} + a_{12} - a_{28} + \\
& a_{29} - a_{30} + a_{15} - a_{61} - 2a_{31} + a_{33} + \\
& a_{35} - a_{36} - a_{38} - a_{39} + a_{93} - a_{97} + \\
& a_{98} - a_{99} - a_{109} + a_{110} - 2a_{111} - a_{116} + \\
& a_{117} - a_{118} - a_{119} + a_{154} - a_{157} + a_{161} - \\
& a_{162} + a_{168} + a_{172} - a_{174} - a_{181} + 2a_{182} - \\
& a_{193} - a_{195} + a_{199} + a_{201} - a_{205} - 2a_{207} + \\
& 2a_{211} + a_{213} - a_{215} - a_{410} + 2a_{413} + a_{414} - \\
& a_{428} + a_{429} + a_{439} + a_{440} + a_{443} + a_{447} + \\
& a_{449} + a_{451} + a_{453} + a_{454} - a_{455} - a_{457} + \\
& a_{460} + a_{461} + a_{463} + a_{466} - 2a_{467} - a_{468} - \\
& a_{470} + a_{471} + a_{475} - a_{477} + a_{478} + a_{480} - \\
& a_{482} + a_{488} + a_{489} + a_{491} + 3a_{492} + a_{498} + \\
& a_{499} - a_{501} - a_{257} - a_{259} + a_{260} + a_{263} + \\
& a_{266} - a_{269} - a_{271} - a_{276} - a_{279} \\
a_{666} &= \frac{a_{410} + \sqrt{a_{410}^2 - 4x}}{2} \\
x &= a_3 + a_4 - a_{11} - a_{12} + a_{13} - a_{29} + \\
& a_{30} - a_{15} + a_{16} - a_{62} - 2a_{32} + a_{34} + \\
& a_{36} - a_{37} - a_{39} - a_{40} + a_{94} - a_{98} + \\
& a_{99} - a_{100} - a_{110} + a_{111} - 2a_{112} - a_{117} + \\
& a_{118} - a_{119} - a_{120} + a_{155} - a_{158} + a_{162} - \\
& a_{163} + a_{169} + a_{173} - a_{175} - a_{182} + 2a_{183} - \\
& a_{194} - a_{196} + a_{200} + a_{202} - a_{206} - 2a_{208} + \\
& 2a_{212} + a_{214} - a_{216} - a_{411} + 2a_{414} + a_{415} - \\
& a_{429} + a_{430} + a_{440} + a_{441} + a_{444} + a_{448} + \\
& a_{450} + a_{452} + a_{454} + a_{455} - a_{456} - a_{458} + \\
& a_{461} + a_{462} + a_{464} + a_{467} - 2a_{468} - a_{469} - \\
& a_{471} + a_{472} + a_{476} - a_{478} + a_{479} + a_{481} - \\
& a_{483} + a_{489} + a_{490} + a_{492} + 3a_{493} + a_{499} + \\
& a_{500} - a_{502} - a_{258} - a_{260} + a_{261} + a_{264} + \\
& a_{267} - a_{270} - a_{272} - a_{277} - a_{280} \\
a_{667} &= \frac{a_{411} + \sqrt{a_{411}^2 - 4x}}{2} \\
x &= a_4 + a_5 - a_{12} - a_{13} + a_{14} - a_{30} + \\
& a_{15} - a_{16} + a_{17} - a_{31} - 2a_{33} + a_{35} + \\
& a_{37} - a_{38} - a_{40} - a_{41} + a_{95} - a_{99} + \\
& a_{100} - a_{101} - a_{111} + a_{112} - 2a_{113} - a_{118} + \\
& a_{119} - a_{120} - a_{121} + a_{156} - a_{159} + a_{163} - \\
& a_{164} + a_{170} + a_{174} - a_{176} - a_{183} + 2a_{184} - \\
& a_{195} - a_{197} + a_{201} + a_{203} - a_{207} - 2a_{209} + \\
& 2a_{213} + a_{215} - a_{217} - a_{412} + 2a_{415} + a_{416} - \\
& a_{430} + a_{431} + a_{441} + a_{442} + a_{445} + a_{449} + \\
& a_{451} + a_{453} + a_{455} + a_{456} - a_{457} - a_{459} + \\
& a_{462} + a_{463} + a_{465} + a_{468} - 2a_{469} - a_{470} - \\
& a_{472} + a_{473} + a_{477} - a_{479} + a_{480} + a_{482} - \\
& a_{484} + a_{490} + a_{491} + a_{493} + 3a_{494} + a_{500} + \\
& a_{501} - a_{503} - a_{259} - a_{261} + a_{262} + a_{265} + \\
& a_{268} - a_{271} - a_{273} - a_{278} - a_{281} \\
a_{668} &= \frac{a_{412} - \sqrt{a_{412}^2 - 4x}}{2} \\
x &= a_5 + a_6 - a_{13} - a_{14} + a_7 - a_{15} + \\
& a_{16} - a_{17} + a_{18} - a_{32} - 2a_{34} + a_{36} + \\
& a_{38} - a_{39} - a_{41} - a_{42} + a_{96} - a_{100} + \\
& a_{101} - a_{102} - a_{112} + a_{113} - 2a_{114} - a_{119} + \\
& a_{120} - a_{121} - a_{122} + a_{157} - a_{160} + a_{164} - \\
& a_{165} + a_{171} + a_{175} - a_{177} - a_{184} + 2a_{185} - \\
& a_{196} - a_{198} + a_{202} + a_{204} - a_{208} - 2a_{210} + \\
& 2a_{214} + a_{216} - a_{218} - a_{413} + 2a_{416} + a_{417} - \\
& a_{431} + a_{432} + a_{442} + a_{443} + a_{446} + a_{450} + \\
& a_{452} + a_{454} + a_{456} + a_{457} - a_{458} - a_{460} + \\
& a_{463} + a_{464} + a_{466} + a_{469} - 2a_{470} - a_{471} - \\
& a_{473} + a_{474} + a_{478} - a_{480} + a_{481} + a_{483} - \\
& a_{485} + a_{491} + a_{492} + a_{494} + 3a_{495} + a_{501} + \\
& a_{502} - a_{504} - a_{260} - a_{262} + a_{263} + a_{266} + \\
& a_{269} - a_{272} - a_{274} - a_{279} - a_{282} \\
a_{669} &= \frac{a_{413} - \sqrt{a_{413}^2 - 4x}}{2} \\
x &= a_6 + a_3 - a_{14} - a_7 + a_8 - a_{16} + \\
& a_{17} - a_{18} + a_{19} - a_{33} - 2a_{35} + a_{37} + \\
& a_{39} - a_{40} - a_{42} - a_{43} + a_{97} - a_{101} + \\
& a_{102} - a_{103} - a_{113} + a_{114} - 2a_{115} - a_{120} + \\
& a_{121} - a_{122} - a_{123} + a_{158} - a_{161} + a_{165} - \\
& a_{166} + a_{172} + a_{176} - a_{178} - a_{185} + 2a_{186} - \\
& a_{197} - a_{199} + a_{203} + a_{205} - a_{209} - 2a_{211} + \\
& 2a_{215} + a_{217} - a_{219} - a_{414} + 2a_{417} + a_{418} - \\
& a_{432} + a_{433} + a_{443} + a_{444} + a_{447} + a_{451} +
\end{aligned}
$$

$$
\begin{aligned}
& a_{453} + a_{455} + a_{457} + a_{458} - a_{459} - a_{461} + \\
& a_{464} + a_{465} + a_{467} + a_{470} - 2a_{471} - a_{472} - \\
& a_{474} + a_{475} + a_{479} - a_{481} + a_{482} + a_{484} - \\
& a_{486} + a_{492} + a_{493} + a_{495} + 3a_{496} + a_{502} + \\
& a_{503} - a_{505} - a_{261} - a_{263} + a_{264} + a_{267} + \\
& a_{270} - a_{273} - a_{275} - a_{280} - a_{283}
\end{aligned}
$$

$$
\begin{aligned}
a_{670} &= \frac{a_{414} + \sqrt{a_{414}^2 - 4x}}{2} \\
x &= a_3 + a_4 - a_7 - a_8 + a_9 - a_{17} + \\
& a_{18} - a_{19} + a_{20} - a_{34} - 2a_{36} + a_{38} + \\
& a_{40} - a_{41} - a_{43} - a_{44} + a_{98} - a_{102} + \\
& a_{103} - a_{104} - a_{114} + a_{115} - 2a_{116} - a_{121} + \\
& a_{122} - a_{123} - a_{124} + a_{159} - a_{162} + a_{166} - \\
& a_{167} + a_{173} + a_{177} - a_{179} - a_{186} + 2a_{187} - \\
& a_{198} - a_{200} + a_{204} + a_{206} - a_{210} - 2a_{212} + \\
& 2a_{216} + a_{218} - a_{220} - a_{415} + 2a_{418} + a_{419} - \\
& a_{433} + a_{434} + a_{444} + a_{445} + a_{448} + a_{452} + \\
& a_{454} + a_{456} + a_{458} + a_{459} - a_{460} - a_{462} + \\
& a_{465} + a_{466} + a_{468} + a_{471} - 2a_{472} - a_{473} - \\
& a_{475} + a_{476} + a_{480} - a_{482} + a_{483} + a_{485} - \\
& a_{487} + a_{493} + a_{494} + a_{496} + 3a_{497} + a_{503} + \\
& a_{504} - a_{506} - a_{262} - a_{264} + a_{265} + a_{268} + \\
& a_{271} - a_{274} - a_{276} - a_{281} - a_{284} \\
a_{671} &= \frac{a_{415} + \sqrt{a_{415}^2 - 4x}}{2} \\
x &= a_4 + a_5 - a_8 - a_9 + a_{10} - a_{18} + \\
& a_{19} - a_{20} + a_{21} - a_{35} - 2a_{37} + a_{39} + \\
& a_{41} - a_{42} - a_{44} - a_{45} + a_{99} - a_{103} + \\
& a_{104} - a_{105} - a_{115} + a_{116} - 2a_{117} - a_{122} + \\
& a_{123} - a_{124} - a_{125} + a_{160} - a_{163} + a_{167} - \\
& a_{168} + a_{174} + a_{178} - a_{180} - a_{187} + 2a_{188} - \\
& a_{199} - a_{201} + a_{205} + a_{207} - a_{211} - 2a_{213} + \\
& 2a_{217} + a_{219} - a_{221} - a_{416} + 2a_{419} + a_{420} - \\
& a_{434} + a_{435} + a_{445} + a_{446} + a_{449} + a_{453} + \\
& a_{455} + a_{457} + a_{459} + a_{460} - a_{461} - a_{463} + \\
& a_{466} + a_{467} + a_{469} + a_{472} - 2a_{473} - a_{474} - \\
& a_{476} + a_{477} + a_{481} - a_{483} + a_{484} + a_{486} - \\
& a_{488} + a_{494} + a_{495} + a_{497} + 3a_{498} + a_{504} + \\
& a_{505} - a_{507} - a_{263} - a_{265} + a_{266} + a_{269} + \\
& a_{272} - a_{275} - a_{277} - a_{282} - a_{285} \\
a_{672} &= \frac{a_{416} + \sqrt{a_{416}^2 - 4x}}{2} \\
x &= a_5 + a_6 - a_9 - a_{10} + a_{11} - a_{19} + \\
& a_{20} - a_{21} + a_{22} - a_{36} - 2a_{38} + a_{40} + \\
& a_{42} - a_{43} - a_{45} - a_{46} + a_{100} - a_{104} + \\
& a_{105} - a_{106} - a_{116} + a_{117} - 2a_{118} - a_{123} + \\
& a_{124} - a_{125} - a_{126} + a_{161} - a_{164} + a_{168} - \\
& a_{169} + a_{175} + a_{179} - a_{181} - a_{188} + 2a_{189} - \\
& a_{200} - a_{202} + a_{206} + a_{208} - a_{212} - 2a_{214} + \\
& 2a_{218} + a_{220} - a_{222} - a_{417} + 2a_{420} + a_{421} - \\
& a_{435} + a_{436} + a_{446} + a_{447} + a_{450} + a_{454} + \\
& a_{456} + a_{458} + a_{460} + a_{461} - a_{462} - a_{464} + \\
& a_{467} + a_{468} + a_{470} + a_{473} - 2a_{474} - a_{475} - \\
& a_{477} + a_{478} + a_{482} - a_{484} + a_{485} + a_{487} - \\
& a_{489} + a_{495} + a_{496} + a_{498} + 3a_{499} + a_{505} + \\
& a_{506} - a_{508} - a_{264} - a_{266} + a_{267} + a_{270} + \\
& a_{273} - a_{276} - a_{278} - a_{283} - a_{286} \\
a_{673} &= \frac{a_{417} - \sqrt{a_{417}^2 - 4x}}{2} \\
x &= a_6 + a_3 - a_{10} - a_{11} + a_{12} - a_{20} + \\
& a_{21} - a_{22} + a_{23} - a_{37} - 2a_{39} + a_{41} + \\
& a_{43} - a_{44} - a_{46} - a_{47} + a_{101} - a_{105} + \\
& a_{106} - a_{107} - a_{117} + a_{118} - 2a_{119} - a_{124} + \\
& a_{125} - a_{126} - a_{63} + a_{162} - a_{165} + a_{169} - \\
& a_{170} + a_{176} + a_{180} - a_{182} - a_{189} + 2a_{190} - \\
& a_{201} - a_{203} + a_{207} + a_{209} - a_{213} - 2a_{215} + \\
& 2a_{219} + a_{221} - a_{223} - a_{418} + 2a_{421} + a_{422} - \\
& a_{436} + a_{437} + a_{447} + a_{448} + a_{451} + a_{455} + \\
& a_{457} + a_{459} + a_{461} + a_{462} - a_{463} - a_{465} + \\
& a_{468} + a_{469} + a_{471} + a_{474} - 2a_{475} - a_{476} - \\
& a_{478} + a_{479} + a_{483} - a_{485} + a_{486} + a_{488} - \\
& a_{490} + a_{496} + a_{497} + a_{499} + 3a_{500} + a_{506} + \\
& a_{507} - a_{509} - a_{265} - a_{267} + a_{268} + a_{271} + \\
& a_{274} - a_{277} - a_{279} - a_{284} - a_{287} \\
a_{674} &= \frac{a_{418} - \sqrt{a_{418}^2 - 4x}}{2} \\
x &= a_3 + a_4 - a_{11} - a_{12} + a_{13} - a_{21} + \\
& a_{22} - a_{23} + a_{24} - a_{38} - 2a_{40} + a_{42} + \\
& a_{44} - a_{45} - a_{47} - a_{48} + a_{102} - a_{106} + \\
& a_{107} - a_{108} - a_{118} + a_{119} - 2a_{120} - a_{125} + \\
& a_{126} - a_{63} - a_{64} + a_{163} - a_{166} + a_{170} - \\
& a_{171} + a_{177} + a_{181} - a_{183} - a_{190} + 2a_{191} - \\
& a_{202} - a_{204} + a_{208} + a_{210} - a_{214} - 2a_{216} + \\
& 2a_{220} + a_{222} - a_{224} - a_{419} + 2a_{422} + a_{423} - \\
& a_{437} + a_{438} + a_{448} + a_{449} + a_{452} + a_{456} + \\
& a_{458} + a_{460} + a_{462} + a_{463} - a_{464} - a_{466} + \\
& a_{469} + a_{470} + a_{472} + a_{475} - 2a_{476} - a_{477} - \\
& a_{479} + a_{480} + a_{484} - a_{486} + a_{487} + a_{489} - \\
& a_{491} + a_{497} + a_{498} + a_{500} + 3a_{501} + a_{507} + \\
& a_{508} - a_{510} - a_{266} - a_{268} + a_{269} + a_{272} + \\
& a_{275} - a_{278} - a_{280} - a_{285} - a_{288} \\
a_{675} &= \frac{a_{419} - \sqrt{a_{419}^2 - 4x}}{2} \\
x &= a_4 + a_5 - a_{12} - a_{13} + a_{14} - a_{22} + \\
& a_{23} - a_{24} + a_{25} - a_{39} - 2a_{41} + a_{43} + \\
& a_{45} - a_{46} - a_{48} - a_{49} + a_{103} - a_{107} + \\
& a_{108} - a_{109} - a_{119} + a_{120} - 2a_{121} - a_{126} +
\end{aligned}
$$

$$
\begin{aligned}
& a_{63} - a_{64} - a_{65} + a_{164} - a_{167} + a_{171} - \\
& a_{172} + a_{178} + a_{182} - a_{184} - a_{191} + 2a_{192} - \\
& a_{203} - a_{205} + a_{209} + a_{211} - a_{215} - 2a_{217} + \\
& 2a_{221} + a_{223} - a_{225} - a_{420} + 2a_{423} + a_{424} - \\
& a_{438} + a_{439} + a_{449} + a_{450} + a_{453} + a_{457} + \\
& a_{459} + a_{461} + a_{463} + a_{464} - a_{465} - a_{467} + \\
& a_{470} + a_{471} + a_{473} + a_{476} - 2a_{477} - a_{478} - \\
& a_{480} + a_{481} + a_{485} - a_{487} + a_{488} + a_{490} - \\
& a_{492} + a_{498} + a_{499} + a_{501} + 3a_{502} + a_{508} + \\
& a_{509} - a_{255} - a_{267} - a_{269} + a_{270} + a_{273} + \\
& a_{276} - a_{279} - a_{281} - a_{286} - a_{289}
\end{aligned}
$$

$$
a_{676} = \frac{a_{420} + \sqrt{a_{420}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_5 + a_6 - a_{13} - a_{14} + a_7 - a_{23} + \\
& a_{24} - a_{25} + a_{26} - a_{40} - 2a_{42} + a_{44} + \\
& a_{46} - a_{47} - a_{49} - a_{50} + a_{104} - a_{108} + \\
& a_{109} - a_{110} - a_{120} + a_{121} - 2a_{122} - a_{63} + \\
& a_{64} - a_{65} - a_{66} + a_{165} - a_{168} + a_{172} - \\
& a_{173} + a_{179} + a_{183} - a_{185} - a_{192} + 2a_{193} - \\
& a_{204} - a_{206} + a_{210} + a_{212} - a_{216} - 2a_{218} + \\
& 2a_{222} + a_{224} - a_{226} - a_{421} + 2a_{424} + a_{425} - \\
& a_{439} + a_{440} + a_{450} + a_{451} + a_{454} + a_{458} + \\
& a_{460} + a_{462} + a_{464} + a_{465} - a_{466} - a_{468} + \\
& a_{471} + a_{472} + a_{474} + a_{477} - 2a_{478} - a_{479} - \\
& a_{481} + a_{482} + a_{486} - a_{488} + a_{489} + a_{491} - \\
& a_{493} + a_{499} + a_{500} + a_{502} + 3a_{503} + a_{509} + \\
& a_{510} - a_{256} - a_{268} - a_{270} + a_{271} + a_{274} + \\
& a_{277} - a_{280} - a_{282} - a_{287} - a_{290}
\end{aligned}
$$

$$
a_{677} = \frac{a_{421} - \sqrt{a_{421}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_6 + a_3 - a_{14} - a_7 + a_8 - a_{24} + \\
& a_{25} - a_{26} + a_{27} - a_{41} - 2a_{43} + a_{45} + \\
& a_{47} - a_{48} - a_{50} - a_{51} + a_{105} - a_{109} + \\
& a_{110} - a_{111} - a_{121} + a_{122} - 2a_{123} - a_{64} + \\
& a_{65} - a_{66} - a_{67} + a_{166} - a_{169} + a_{173} - \\
& a_{174} + a_{180} + a_{184} - a_{186} - a_{193} + 2a_{194} - \\
& a_{205} - a_{207} + a_{211} + a_{213} - a_{217} - 2a_{219} + \\
& 2a_{223} + a_{225} - a_{227} - a_{422} + 2a_{425} + a_{426} - \\
& a_{440} + a_{441} + a_{451} + a_{452} + a_{455} + a_{459} + \\
& a_{461} + a_{463} + a_{465} + a_{466} - a_{467} - a_{469} + \\
& a_{472} + a_{473} + a_{475} + a_{478} - 2a_{479} - a_{480} - \\
& a_{482} + a_{483} + a_{487} - a_{489} + a_{490} + a_{492} - \\
& a_{494} + a_{500} + a_{501} + a_{503} + 3a_{504} + a_{510} + \\
& a_{255} - a_{257} - a_{269} - a_{271} + a_{272} + a_{275} + \\
& a_{278} - a_{281} - a_{283} - a_{288} - a_{291}
\end{aligned}
$$

$$
a_{678} = \frac{a_{422} + \sqrt{a_{422}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_3 + a_4 - a_7 - a_8 + a_9 - a_{25} + \\
& a_{26} - a_{27} + a_{28} - a_{42} - 2a_{44} + a_{46} + \\
& a_{48} - a_{49} - a_{51} - a_{52} + a_{106} - a_{110} + \\
& a_{111} - a_{112} - a_{122} + a_{123} - 2a_{124} - a_{65} + \\
& a_{66} - a_{67} - a_{68} + a_{167} - a_{170} + a_{174} - \\
& a_{175} + a_{181} + a_{185} - a_{187} - a_{194} + 2a_{195} - \\
& a_{206} - a_{208} + a_{212} + a_{214} - a_{218} - 2a_{220} + \\
& 2a_{224} + a_{226} - a_{228} - a_{423} + 2a_{426} + a_{427} - \\
& a_{441} + a_{442} + a_{452} + a_{453} + a_{456} + a_{460} + \\
& a_{462} + a_{464} + a_{466} + a_{467} - a_{468} - a_{470} + \\
& a_{473} + a_{474} + a_{476} + a_{479} - 2a_{480} - a_{481} - \\
& a_{483} + a_{484} + a_{488} - a_{490} + a_{491} + a_{493} - \\
& a_{495} + a_{501} + a_{502} + a_{504} + 3a_{505} + a_{255} + \\
& a_{256} - a_{258} - a_{270} - a_{272} + a_{273} + a_{276} + \\
& a_{279} - a_{282} - a_{284} - a_{289} - a_{292}
\end{aligned}
$$

$$
a_{679} = \frac{a_{423} - \sqrt{a_{423}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_4 + a_5 - a_8 - a_9 + a_{10} - a_{26} + \\
& a_{27} - a_{28} + a_{29} - a_{43} - 2a_{45} + a_{47} + \\
& a_{49} - a_{50} - a_{52} - a_{53} + a_{107} - a_{111} + \\
& a_{112} - a_{113} - a_{123} + a_{124} - 2a_{125} - a_{66} + \\
& a_{67} - a_{68} - a_{69} + a_{168} - a_{171} + a_{175} - \\
& a_{176} + a_{182} + a_{186} - a_{188} - a_{195} + 2a_{196} - \\
& a_{207} - a_{209} + a_{213} + a_{215} - a_{219} - 2a_{221} + \\
& 2a_{225} + a_{227} - a_{229} - a_{424} + 2a_{427} + a_{428} - \\
& a_{442} + a_{443} + a_{453} + a_{454} + a_{457} + a_{461} + \\
& a_{463} + a_{465} + a_{467} + a_{468} - a_{469} - a_{471} + \\
& a_{474} + a_{475} + a_{477} + a_{480} - 2a_{481} - a_{482} - \\
& a_{484} + a_{485} + a_{489} - a_{491} + a_{492} + a_{494} - \\
& a_{496} + a_{502} + a_{503} + a_{505} + 3a_{506} + a_{256} + \\
& a_{257} - a_{259} - a_{271} - a_{273} + a_{274} + a_{277} + \\
& a_{280} - a_{283} - a_{285} - a_{290} - a_{293}
\end{aligned}
$$

$$
a_{680} = \frac{a_{424} + \sqrt{a_{424}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_5 + a_6 - a_9 - a_{10} + a_{11} - a_{27} + \\
& a_{28} - a_{29} + a_{30} - a_{44} - 2a_{46} + a_{48} + \\
& a_{50} - a_{51} - a_{53} - a_{54} + a_{108} - a_{112} + \\
& a_{113} - a_{114} - a_{124} + a_{125} - 2a_{126} - a_{67} + \\
& a_{68} - a_{69} - a_{70} + a_{169} - a_{172} + a_{176} - \\
& a_{177} + a_{183} + a_{187} - a_{189} - a_{196} + 2a_{197} - \\
& a_{208} - a_{210} + a_{214} + a_{216} - a_{220} - 2a_{222} + \\
& 2a_{226} + a_{228} - a_{230} - a_{425} + 2a_{428} + a_{429} - \\
& a_{443} + a_{444} + a_{454} + a_{455} + a_{458} + a_{462} + \\
& a_{464} + a_{466} + a_{468} + a_{469} - a_{470} - a_{472} + \\
& a_{475} + a_{476} + a_{478} + a_{481} - 2a_{482} - a_{483} - \\
& a_{485} + a_{486} + a_{490} - a_{492} + a_{493} + a_{495} - \\
& a_{497} + a_{503} + a_{504} + a_{506} + 3a_{507} + a_{257} + \\
& a_{258} - a_{260} - a_{272} - a_{274} + a_{275} + a_{278} + \\
& a_{281} - a_{284} - a_{286} - a_{291} - a_{294}
\end{aligned}
$$

$$
\begin{aligned}
a_{681} &= \frac{a_{425}+\sqrt{a_{425}^2-4x}}{2}\\
x &= a_6+a_3-a_{10}-a_{11}+a_{12}-a_{28}+\\
&\quad a_{29}-a_{30}+a_{15}-a_{45}-2a_{47}+a_{49}+\\
&\quad a_{51}-a_{52}-a_{54}-a_{55}+a_{109}-a_{113}+\\
&\quad a_{114}-a_{115}-a_{125}+a_{126}-2a_{63}-a_{68}+\\
&\quad a_{69}-a_{70}-a_{71}+a_{170}-a_{173}+a_{177}-\\
&\quad a_{178}+a_{184}+a_{188}-a_{190}-a_{197}+2a_{198}-\\
&\quad a_{209}-a_{211}+a_{215}+a_{217}-a_{221}-2a_{223}+\\
&\quad 2a_{227}+a_{229}-a_{231}-a_{426}+2a_{429}+a_{430}-\\
&\quad a_{444}+a_{445}+a_{455}+a_{456}+a_{459}+a_{463}+\\
&\quad a_{465}+a_{467}+a_{469}+a_{470}-a_{471}-a_{473}+\\
&\quad a_{476}+a_{477}+a_{479}+a_{482}-2a_{483}-a_{484}-\\
&\quad a_{486}+a_{487}+a_{491}-a_{493}+a_{494}+a_{496}-\\
&\quad a_{498}+a_{504}+a_{505}+a_{507}+3a_{508}+a_{258}+\\
&\quad a_{259}-a_{261}-a_{273}-a_{275}+a_{276}+a_{279}+\\
&\quad a_{282}-a_{285}-a_{287}-a_{292}-a_{295}\\
a_{682} &= \frac{a_{426}-\sqrt{a_{426}^2-4x}}{2}\\
x &= a_3+a_4-a_{11}-a_{12}+a_{13}-a_{29}+\\
&\quad a_{30}-a_{15}+a_{16}-a_{46}-2a_{48}+a_{50}+\\
&\quad a_{52}-a_{53}-a_{55}-a_{56}+a_{110}-a_{114}+\\
&\quad a_{115}-a_{116}-a_{126}+a_{63}-2a_{64}-a_{69}+\\
&\quad a_{70}-a_{71}-a_{72}+a_{171}-a_{174}+a_{178}-\\
&\quad a_{179}+a_{185}+a_{189}-a_{191}-a_{198}+2a_{199}-\\
&\quad a_{210}-a_{212}+a_{216}+a_{218}-a_{222}-2a_{224}+\\
&\quad 2a_{228}+a_{230}-a_{232}-a_{427}+2a_{430}+a_{431}-\\
&\quad a_{445}+a_{446}+a_{456}+a_{457}+a_{460}+a_{464}+\\
&\quad a_{466}+a_{468}+a_{470}+a_{471}-a_{472}-a_{474}+\\
&\quad a_{477}+a_{478}+a_{480}+a_{483}-2a_{484}-a_{485}-\\
&\quad a_{487}+a_{488}+a_{492}-a_{494}+a_{495}+a_{497}-\\
&\quad a_{499}+a_{505}+a_{506}+a_{508}+3a_{509}+a_{259}+\\
&\quad a_{260}-a_{262}-a_{274}-a_{276}+a_{277}+a_{280}+\\
&\quad a_{283}-a_{286}-a_{288}-a_{293}-a_{296}\\
a_{683} &= \frac{a_{427}-\sqrt{a_{427}^2-4x}}{2}\\
x &= a_4+a_5-a_{12}-a_{13}+a_{14}-a_{30}+\\
&\quad a_{15}-a_{16}+a_{17}-a_{47}-2a_{49}+a_{51}+\\
&\quad a_{53}-a_{54}-a_{56}-a_{57}+a_{111}-a_{115}+\\
&\quad a_{116}-a_{117}-a_{63}+a_{64}-2a_{65}-a_{70}+\\
&\quad a_{71}-a_{72}-a_{73}+a_{172}-a_{175}+a_{179}-\\
&\quad a_{180}+a_{186}+a_{190}-a_{192}-a_{199}+2a_{200}-\\
&\quad a_{211}-a_{213}+a_{217}+a_{219}-a_{223}-2a_{225}+\\
&\quad 2a_{229}+a_{231}-a_{233}-a_{428}+2a_{431}+a_{432}-\\
&\quad a_{446}+a_{447}+a_{457}+a_{458}+a_{461}+a_{465}+\\
&\quad a_{467}+a_{469}+a_{471}+a_{472}-a_{473}-a_{475}+\\
&\quad a_{478}+a_{479}+a_{481}+a_{484}-2a_{485}-a_{486}-\\
&\quad a_{488}+a_{489}+a_{493}-a_{495}+a_{496}+a_{498}-\\
&\quad a_{500}+a_{506}+a_{507}+a_{509}+3a_{510}+a_{260}+\\
&\quad a_{261}-a_{263}-a_{275}-a_{277}+a_{278}+a_{281}+\\
&\quad a_{284}-a_{287}-a_{289}-a_{294}-a_{297}\\
a_{684} &= \frac{a_{428}-\sqrt{a_{428}^2-4x}}{2}\\
x &= a_5+a_6-a_{13}-a_{14}+a_7-a_{15}+\\
&\quad a_{16}-a_{17}+a_{18}-a_{48}-2a_{50}+a_{52}+\\
&\quad a_{54}-a_{55}-a_{57}-a_{58}+a_{112}-a_{116}+\\
&\quad a_{117}-a_{118}-a_{64}+a_{65}-2a_{66}-a_{71}+\\
&\quad a_{72}-a_{73}-a_{74}+a_{173}-a_{176}+a_{180}-\\
&\quad a_{181}+a_{187}+a_{191}-a_{193}-a_{200}+2a_{201}-\\
&\quad a_{212}-a_{214}+a_{218}+a_{220}-a_{224}-2a_{226}+\\
&\quad 2a_{230}+a_{232}-a_{234}-a_{429}+2a_{432}+a_{433}-\\
&\quad a_{447}+a_{448}+a_{458}+a_{459}+a_{462}+a_{466}+\\
&\quad a_{468}+a_{470}+a_{472}+a_{473}-a_{474}-a_{476}+\\
&\quad a_{479}+a_{480}+a_{482}+a_{485}-2a_{486}-a_{487}-\\
&\quad a_{489}+a_{490}+a_{494}-a_{496}+a_{497}+a_{499}-\\
&\quad a_{501}+a_{507}+a_{508}+a_{510}+3a_{255}+a_{261}+\\
&\quad a_{262}-a_{264}-a_{276}-a_{278}+a_{279}+a_{282}+\\
&\quad a_{285}-a_{288}-a_{290}-a_{295}-a_{298}\\
a_{685} &= \frac{a_{429}-\sqrt{a_{429}^2-4x}}{2}\\
x &= a_6+a_3-a_{14}-a_7+a_8-a_{16}+\\
&\quad a_{17}-a_{18}+a_{19}-a_{49}-2a_{51}+a_{53}+\\
&\quad a_{55}-a_{56}-a_{58}-a_{59}+a_{113}-a_{117}+\\
&\quad a_{118}-a_{119}-a_{65}+a_{66}-2a_{67}-a_{72}+\\
&\quad a_{73}-a_{74}-a_{75}+a_{174}-a_{177}+a_{181}-\\
&\quad a_{182}+a_{188}+a_{192}-a_{194}-a_{201}+2a_{202}-\\
&\quad a_{213}-a_{215}+a_{219}+a_{221}-a_{225}-2a_{227}+\\
&\quad 2a_{231}+a_{233}-a_{235}-a_{430}+2a_{433}+a_{434}-\\
&\quad a_{448}+a_{449}+a_{459}+a_{460}+a_{463}+a_{467}+\\
&\quad a_{469}+a_{471}+a_{473}+a_{474}-a_{475}-a_{477}+\\
&\quad a_{480}+a_{481}+a_{483}+a_{486}-2a_{487}-a_{488}-\\
&\quad a_{490}+a_{491}+a_{495}-a_{497}+a_{498}+a_{500}-\\
&\quad a_{502}+a_{508}+a_{509}+a_{255}+3a_{256}+a_{262}+\\
&\quad a_{263}-a_{265}-a_{277}-a_{279}+a_{280}+a_{283}+\\
&\quad a_{286}-a_{289}-a_{291}-a_{296}-a_{299}\\
a_{686} &= \frac{a_{430}-\sqrt{a_{430}^2-4x}}{2}\\
x &= a_3+a_4-a_7-a_8+a_9-a_{17}+\\
&\quad a_{18}-a_{19}+a_{20}-a_{50}-2a_{52}+a_{54}+\\
&\quad a_{56}-a_{57}-a_{59}-a_{60}+a_{114}-a_{118}+\\
&\quad a_{119}-a_{120}-a_{66}+a_{67}-2a_{68}-a_{73}+\\
&\quad a_{74}-a_{75}-a_{76}+a_{175}-a_{178}+a_{182}-\\
&\quad a_{183}+a_{189}+a_{193}-a_{195}-a_{202}+2a_{203}-\\
&\quad a_{214}-a_{216}+a_{220}+a_{222}-a_{226}-2a_{228}+\\
&\quad 2a_{232}+a_{234}-a_{236}-a_{431}+2a_{434}+a_{435}-\\
&\quad a_{449}+a_{450}+a_{460}+a_{461}+a_{464}+a_{468}+\\
&\quad a_{470}+a_{472}+a_{474}+a_{475}-a_{476}-a_{478}+\\
&\quad a_{481}+a_{482}+a_{484}+a_{487}-2a_{488}-a_{489}-
\end{aligned}
$$

$$
\begin{aligned}
& a_{491} + a_{492} + a_{496} - a_{498} + a_{499} + a_{501} - \\
& a_{503} + a_{509} + a_{510} + a_{256} + 3a_{257} + a_{263} + \\
& a_{264} - a_{266} - a_{278} - a_{280} + a_{281} + a_{284} + \\
& a_{287} - a_{290} - a_{292} - a_{297} - a_{300}
\end{aligned}
$$

$$
a_{687} = \frac{a_{431} - \sqrt{a_{431}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_4 + a_5 - a_8 - a_9 + a_{10} - a_{18} + \\
& a_{19} - a_{20} + a_{21} - a_{51} - 2a_{53} + a_{55} + \\
& a_{57} - a_{58} - a_{60} - a_{61} + a_{115} - a_{119} + \\
& a_{120} - a_{121} - a_{67} + a_{68} - 2a_{69} - a_{74} + \\
& a_{75} - a_{76} - a_{77} + a_{176} - a_{179} + a_{183} - \\
& a_{184} + a_{190} + a_{194} - a_{196} - a_{203} + 2a_{204} - \\
& a_{215} - a_{217} + a_{221} + a_{223} - a_{227} - 2a_{229} + \\
& 2a_{233} + a_{235} - a_{237} - a_{432} + 2a_{435} + a_{436} - \\
& a_{450} + a_{451} + a_{461} + a_{462} + a_{465} + a_{469} + \\
& a_{471} + a_{473} + a_{475} + a_{476} - a_{477} - a_{479} + \\
& a_{482} + a_{483} + a_{485} + a_{488} - 2a_{489} - a_{490} - \\
& a_{492} + a_{493} + a_{497} - a_{499} + a_{500} + a_{502} - \\
& a_{504} + a_{510} + a_{255} + a_{257} + 3a_{258} + a_{264} + \\
& a_{265} - a_{267} - a_{279} - a_{281} + a_{282} + a_{285} + \\
& a_{288} - a_{291} - a_{293} - a_{298} - a_{301}
\end{aligned}
$$

$$
a_{688} = \frac{a_{432} - \sqrt{a_{432}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_5 + a_6 - a_9 - a_{10} + a_{11} - a_{19} + \\
& a_{20} - a_{21} + a_{22} - a_{52} - 2a_{54} + a_{56} + \\
& a_{58} - a_{59} - a_{61} - a_{62} + a_{116} - a_{120} + \\
& a_{121} - a_{122} - a_{68} + a_{69} - 2a_{70} - a_{75} + \\
& a_{76} - a_{77} - a_{78} + a_{177} - a_{180} + a_{184} - \\
& a_{185} + a_{191} + a_{195} - a_{197} - a_{204} + 2a_{205} - \\
& a_{216} - a_{218} + a_{222} + a_{224} - a_{228} - 2a_{230} + \\
& 2a_{234} + a_{236} - a_{238} - a_{433} + 2a_{436} + a_{437} - \\
& a_{451} + a_{452} + a_{462} + a_{463} + a_{466} + a_{470} + \\
& a_{472} + a_{474} + a_{476} + a_{477} - a_{478} - a_{480} + \\
& a_{483} + a_{484} + a_{486} + a_{489} - 2a_{490} - a_{491} - \\
& a_{493} + a_{494} + a_{498} - a_{500} + a_{501} + a_{503} - \\
& a_{505} + a_{255} + a_{256} + a_{258} + 3a_{259} + a_{265} + \\
& a_{266} - a_{268} - a_{280} - a_{282} + a_{283} + a_{286} + \\
& a_{289} - a_{292} - a_{294} - a_{299} - a_{302}
\end{aligned}
$$

$$
a_{689} = \frac{a_{433} - \sqrt{a_{433}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_6 + a_3 - a_{10} - a_{11} + a_{12} - a_{20} + \\
& a_{21} - a_{22} + a_{23} - a_{53} - 2a_{55} + a_{57} + \\
& a_{59} - a_{60} - a_{62} - a_{31} + a_{117} - a_{121} + \\
& a_{122} - a_{123} - a_{69} + a_{70} - 2a_{71} - a_{76} + \\
& a_{77} - a_{78} - a_{79} + a_{178} - a_{181} + a_{185} - \\
& a_{186} + a_{192} + a_{196} - a_{198} - a_{205} + 2a_{206} - \\
& a_{217} - a_{219} + a_{223} + a_{225} - a_{229} - 2a_{231} + \\
& 2a_{235} + a_{237} - a_{239} - a_{434} + 2a_{437} + a_{438} - \\
& a_{452} + a_{453} + a_{463} + a_{464} + a_{467} + a_{471} + \\
& a_{473} + a_{475} + a_{477} + a_{478} - a_{479} - a_{481} + \\
& a_{484} + a_{485} + a_{487} + a_{490} - 2a_{491} - a_{492} - \\
& a_{494} + a_{495} + a_{499} - a_{501} + a_{502} + a_{504} - \\
& a_{506} + a_{256} + a_{257} + a_{259} + 3a_{260} + a_{266} + \\
& a_{267} - a_{269} - a_{281} - a_{283} + a_{284} + a_{287} + \\
& a_{290} - a_{293} - a_{295} - a_{300} - a_{303}
\end{aligned}
$$

$$
a_{690} = \frac{a_{434} + \sqrt{a_{434}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_3 + a_4 - a_{11} - a_{12} + a_{13} - a_{21} + \\
& a_{22} - a_{23} + a_{24} - a_{54} - 2a_{56} + a_{58} + \\
& a_{60} - a_{61} - a_{31} - a_{32} + a_{118} - a_{122} + \\
& a_{123} - a_{124} - a_{70} + a_{71} - 2a_{72} - a_{77} + \\
& a_{78} - a_{79} - a_{80} + a_{179} - a_{182} + a_{186} - \\
& a_{187} + a_{193} + a_{197} - a_{199} - a_{206} + 2a_{207} - \\
& a_{218} - a_{220} + a_{224} + a_{226} - a_{230} - 2a_{232} + \\
& 2a_{236} + a_{238} - a_{240} - a_{435} + 2a_{438} + a_{439} - \\
& a_{453} + a_{454} + a_{464} + a_{465} + a_{468} + a_{472} + \\
& a_{474} + a_{476} + a_{478} + a_{479} - a_{480} - a_{482} + \\
& a_{485} + a_{486} + a_{488} + a_{491} - 2a_{492} - a_{493} - \\
& a_{495} + a_{496} + a_{500} - a_{502} + a_{503} + a_{505} - \\
& a_{507} + a_{257} + a_{258} + a_{260} + 3a_{261} + a_{267} + \\
& a_{268} - a_{270} - a_{282} - a_{284} + a_{285} + a_{288} + \\
& a_{291} - a_{294} - a_{296} - a_{301} - a_{304}
\end{aligned}
$$

$$
a_{691} = \frac{a_{435} - \sqrt{a_{435}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_4 + a_5 - a_{12} - a_{13} + a_{14} - a_{22} + \\
& a_{23} - a_{24} + a_{25} - a_{55} - 2a_{57} + a_{59} + \\
& a_{61} - a_{62} - a_{32} - a_{33} + a_{119} - a_{123} + \\
& a_{124} - a_{125} - a_{71} + a_{72} - 2a_{73} - a_{78} + \\
& a_{79} - a_{80} - a_{81} + a_{180} - a_{183} + a_{187} - \\
& a_{188} + a_{194} + a_{198} - a_{200} - a_{207} + 2a_{208} - \\
& a_{219} - a_{221} + a_{225} + a_{227} - a_{231} - 2a_{233} + \\
& 2a_{237} + a_{239} - a_{241} - a_{436} + 2a_{439} + a_{440} - \\
& a_{454} + a_{455} + a_{465} + a_{466} + a_{469} + a_{473} + \\
& a_{475} + a_{477} + a_{479} + a_{480} - a_{481} - a_{483} + \\
& a_{486} + a_{487} + a_{489} + a_{492} - 2a_{493} - a_{494} - \\
& a_{496} + a_{497} + a_{501} - a_{503} + a_{504} + a_{506} - \\
& a_{508} + a_{258} + a_{259} + a_{261} + 3a_{262} + a_{268} + \\
& a_{269} - a_{271} - a_{283} - a_{285} + a_{286} + a_{289} + \\
& a_{292} - a_{295} - a_{297} - a_{302} - a_{305}
\end{aligned}
$$

$$
a_{692} = \frac{a_{436} + \sqrt{a_{436}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_5 + a_6 - a_{13} - a_{14} + a_7 - a_{23} + \\
& a_{24} - a_{25} + a_{26} - a_{56} - 2a_{58} + a_{60} + \\
& a_{62} - a_{31} - a_{33} - a_{34} + a_{120} - a_{124} + \\
& a_{125} - a_{126} - a_{72} + a_{73} - 2a_{74} - a_{79} + \\
& a_{80} - a_{81} - a_{82} + a_{181} - a_{184} + a_{188} - \\
& a_{189} + a_{195} + a_{199} - a_{201} - a_{208} + 2a_{209} -
\end{aligned}
$$

$$
\begin{aligned}
& a_{220} - a_{222} + a_{226} + a_{228} - a_{232} - 2a_{234} + \\
& 2a_{238} + a_{240} - a_{242} - a_{437} + 2a_{440} + a_{441} - \\
& a_{455} + a_{456} + a_{466} + a_{467} + a_{470} + a_{474} + \\
& a_{476} + a_{478} + a_{480} + a_{481} - a_{482} - a_{484} + \\
& a_{487} + a_{488} + a_{490} + a_{493} - 2a_{494} - a_{495} - \\
& a_{497} + a_{498} + a_{502} - a_{504} + a_{505} + a_{507} - \\
& a_{509} + a_{259} + a_{260} + a_{262} + 3a_{263} + a_{269} + \\
& a_{270} - a_{272} - a_{284} - a_{286} + a_{287} + a_{290} + \\
& a_{293} - a_{296} - a_{298} - a_{303} - a_{306}
\end{aligned}
$$

$$
a_{693} = \frac{a_{437} - \sqrt{a_{437}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_6 + a_3 - a_{14} - a_7 + a_8 - a_{24} + \\
& a_{25} - a_{26} + a_{27} - a_{57} - 2a_{59} + a_{61} + \\
& a_{31} - a_{32} - a_{34} - a_{35} + a_{121} - a_{125} + \\
& a_{126} - a_{63} - a_{73} + a_{74} - 2a_{75} - a_{80} + \\
& a_{81} - a_{82} - a_{83} + a_{182} - a_{185} + a_{189} - \\
& a_{190} + a_{196} + a_{200} - a_{202} - a_{209} + 2a_{210} - \\
& a_{221} - a_{223} + a_{227} + a_{229} - a_{233} - 2a_{235} + \\
& 2a_{239} + a_{241} - a_{243} - a_{438} + 2a_{441} + a_{442} - \\
& a_{456} + a_{457} + a_{467} + a_{468} + a_{471} + a_{475} + \\
& a_{477} + a_{479} + a_{481} + a_{482} - a_{483} - a_{485} + \\
& a_{488} + a_{489} + a_{491} + a_{494} - 2a_{495} - a_{496} - \\
& a_{498} + a_{499} + a_{503} - a_{505} + a_{506} + a_{508} - \\
& a_{510} + a_{260} + a_{261} + a_{263} + 3a_{264} + a_{270} + \\
& a_{271} - a_{273} - a_{285} - a_{287} + a_{288} + a_{291} + \\
& a_{294} - a_{297} - a_{299} - a_{304} - a_{307}
\end{aligned}
$$

$$
a_{694} = \frac{a_{438} - \sqrt{a_{438}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_3 + a_4 - a_7 - a_8 + a_9 - a_{25} + \\
& a_{26} - a_{27} + a_{28} - a_{58} - 2a_{60} + a_{62} + \\
& a_{32} - a_{33} - a_{35} - a_{36} + a_{122} - a_{126} + \\
& a_{63} - a_{64} - a_{74} + a_{75} - 2a_{76} - a_{81} + \\
& a_{82} - a_{83} - a_{84} + a_{183} - a_{186} + a_{190} - \\
& a_{191} + a_{197} + a_{201} - a_{203} - a_{210} + 2a_{211} - \\
& a_{222} - a_{224} + a_{228} + a_{230} - a_{234} - 2a_{236} + \\
& 2a_{240} + a_{242} - a_{244} - a_{439} + 2a_{442} + a_{443} - \\
& a_{457} + a_{458} + a_{468} + a_{469} + a_{472} + a_{476} + \\
& a_{478} + a_{480} + a_{482} + a_{483} - a_{484} - a_{486} + \\
& a_{489} + a_{490} + a_{492} + a_{495} - 2a_{496} - a_{497} - \\
& a_{499} + a_{500} + a_{504} - a_{506} + a_{507} + a_{509} - \\
& a_{255} + a_{261} + a_{262} + a_{264} + 3a_{265} + a_{271} + \\
& a_{272} - a_{274} - a_{286} - a_{288} + a_{289} + a_{292} + \\
& a_{295} - a_{298} - a_{300} - a_{305} - a_{308}
\end{aligned}
$$

$$
a_{695} = \frac{a_{439} + \sqrt{a_{439}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_4 + a_5 - a_8 - a_9 + a_{10} - a_{26} + \\
& a_{27} - a_{28} + a_{29} - a_{59} - 2a_{61} + a_{31} + \\
& a_{33} - a_{34} - a_{36} - a_{37} + a_{123} - a_{63} + \\
& a_{64} - a_{65} - a_{75} + a_{76} - 2a_{77} - a_{82} + \\
& a_{83} - a_{84} - a_{85} + a_{184} - a_{187} + a_{191} - \\
& a_{192} + a_{198} + a_{202} - a_{204} - a_{211} + 2a_{212} - \\
& a_{223} - a_{225} + a_{229} + a_{231} - a_{235} - 2a_{237} + \\
& 2a_{241} + a_{243} - a_{245} - a_{440} + 2a_{443} + a_{444} - \\
& a_{458} + a_{459} + a_{469} + a_{470} + a_{473} + a_{477} + \\
& a_{479} + a_{481} + a_{483} + a_{484} - a_{485} - a_{487} + \\
& a_{490} + a_{491} + a_{493} + a_{496} - 2a_{497} - a_{498} - \\
& a_{500} + a_{501} + a_{505} - a_{507} + a_{508} + a_{510} - \\
& a_{256} + a_{262} + a_{263} + a_{265} + 3a_{266} + a_{272} + \\
& a_{273} - a_{275} - a_{287} - a_{289} + a_{290} + a_{293} + \\
& a_{296} - a_{299} - a_{301} - a_{306} - a_{309}
\end{aligned}
$$

$$
a_{696} = \frac{a_{440} + \sqrt{a_{440}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_5 + a_6 - a_9 - a_{10} + a_{11} - a_{27} + \\
& a_{28} - a_{29} + a_{30} - a_{60} - 2a_{62} + a_{32} + \\
& a_{34} - a_{35} - a_{37} - a_{38} + a_{124} - a_{64} + \\
& a_{65} - a_{66} - a_{76} + a_{77} - 2a_{78} - a_{83} + \\
& a_{84} - a_{85} - a_{86} + a_{185} - a_{188} + a_{192} - \\
& a_{193} + a_{199} + a_{203} - a_{205} - a_{212} + 2a_{213} - \\
& a_{224} - a_{226} + a_{230} + a_{232} - a_{236} - 2a_{238} + \\
& 2a_{242} + a_{244} - a_{246} - a_{441} + 2a_{444} + a_{445} - \\
& a_{459} + a_{460} + a_{470} + a_{471} + a_{474} + a_{478} + \\
& a_{480} + a_{482} + a_{484} + a_{485} - a_{486} - a_{488} + \\
& a_{491} + a_{492} + a_{494} + a_{497} - 2a_{498} - a_{499} - \\
& a_{501} + a_{502} + a_{506} - a_{508} + a_{509} + a_{255} - \\
& a_{257} + a_{263} + a_{264} + a_{266} + 3a_{267} + a_{273} + \\
& a_{274} - a_{276} - a_{288} - a_{290} + a_{291} + a_{294} + \\
& a_{297} - a_{300} - a_{302} - a_{307} - a_{310}
\end{aligned}
$$

$$
a_{697} = \frac{a_{441} + \sqrt{a_{441}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_6 + a_3 - a_{10} - a_{11} + a_{12} - a_{28} + \\
& a_{29} - a_{30} + a_{15} - a_{61} - 2a_{31} + a_{33} + \\
& a_{35} - a_{36} - a_{38} - a_{39} + a_{125} - a_{65} + \\
& a_{66} - a_{67} - a_{77} + a_{78} - 2a_{79} - a_{84} + \\
& a_{85} - a_{86} - a_{87} + a_{186} - a_{189} + a_{193} - \\
& a_{194} + a_{200} + a_{204} - a_{206} - a_{213} + 2a_{214} - \\
& a_{225} - a_{227} + a_{231} + a_{233} - a_{237} - 2a_{239} + \\
& 2a_{243} + a_{245} - a_{247} - a_{442} + 2a_{445} + a_{446} - \\
& a_{460} + a_{461} + a_{471} + a_{472} + a_{475} + a_{479} + \\
& a_{481} + a_{483} + a_{485} + a_{486} - a_{487} - a_{489} + \\
& a_{492} + a_{493} + a_{495} + a_{498} - 2a_{499} - a_{500} - \\
& a_{502} + a_{503} + a_{507} - a_{509} + a_{510} + a_{256} - \\
& a_{258} + a_{264} + a_{265} + a_{267} + 3a_{268} + a_{274} + \\
& a_{275} - a_{277} - a_{289} - a_{291} + a_{292} + a_{295} + \\
& a_{298} - a_{301} - a_{303} - a_{308} - a_{311}
\end{aligned}
$$

$$
a_{698} = \frac{a_{442} + \sqrt{a_{442}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_3 + a_4 - a_{11} - a_{12} + a_{13} - a_{29} + \\
& a_{30} - a_{15} + a_{16} - a_{62} - 2a_{32} + a_{34} +
\end{aligned}
$$

$$
\begin{aligned}
& a_{36} - a_{37} - a_{39} - a_{40} + a_{126} - a_{66} + \\
& a_{67} - a_{68} - a_{78} + a_{79} - 2a_{80} - a_{85} + \\
& a_{86} - a_{87} - a_{88} + a_{187} - a_{190} + a_{194} - \\
& a_{195} + a_{201} + a_{205} - a_{207} - a_{214} + 2a_{215} - \\
& a_{226} - a_{228} + a_{232} + a_{234} - a_{238} - 2a_{240} + \\
& 2a_{244} + a_{246} - a_{248} - a_{443} + 2a_{446} + a_{447} - \\
& a_{461} + a_{462} + a_{472} + a_{473} + a_{476} + a_{480} + \\
& a_{482} + a_{484} + a_{486} + a_{487} - a_{488} - a_{490} + \\
& a_{493} + a_{494} + a_{496} + a_{499} - 2a_{500} - a_{501} - \\
& a_{503} + a_{504} + a_{508} - a_{510} + a_{255} + a_{257} - \\
& a_{259} + a_{265} + a_{266} + a_{268} + 3a_{269} + a_{275} + \\
& a_{276} - a_{278} - a_{290} - a_{292} + a_{293} + a_{296} + \\
& a_{299} - a_{302} - a_{304} - a_{309} - a_{312}
\end{aligned}
$$

$$
\begin{aligned}
a_{699} &= \frac{a_{443} + \sqrt{a_{443}^2 - 4x}}{2} \\
x &= a_4 + a_5 - a_{12} - a_{13} + a_{14} - a_{30} + \\
& a_{15} - a_{16} + a_{17} - a_{31} - 2a_{33} + a_{35} + \\
& a_{37} - a_{38} - a_{40} - a_{41} + a_{63} - a_{67} + \\
& a_{68} - a_{69} - a_{79} + a_{80} - 2a_{81} - a_{86} + \\
& a_{87} - a_{88} - a_{89} + a_{188} - a_{191} + a_{195} - \\
& a_{196} + a_{202} + a_{206} - a_{208} - a_{215} + 2a_{216} - \\
& a_{227} - a_{229} + a_{233} + a_{235} - a_{239} - 2a_{241} + \\
& 2a_{245} + a_{247} - a_{249} - a_{444} + 2a_{447} + a_{448} - \\
& a_{462} + a_{463} + a_{473} + a_{474} + a_{477} + a_{481} + \\
& a_{483} + a_{485} + a_{487} + a_{488} - a_{489} - a_{491} + \\
& a_{494} + a_{495} + a_{497} + a_{500} - 2a_{501} - a_{502} - \\
& a_{504} + a_{505} + a_{509} - a_{255} + a_{256} + a_{258} - \\
& a_{260} + a_{266} + a_{267} + a_{269} + 3a_{270} + a_{276} + \\
& a_{277} - a_{279} - a_{291} - a_{293} + a_{294} + a_{297} + \\
& a_{300} - a_{303} - a_{305} - a_{310} - a_{313}
\end{aligned}
$$

$$
\begin{aligned}
a_{700} &= \frac{a_{444} - \sqrt{a_{444}^2 - 4x}}{2} \\
x &= a_5 + a_6 - a_{13} - a_{14} + a_7 - a_{15} + \\
& a_{16} - a_{17} + a_{18} - a_{32} - 2a_{34} + a_{36} + \\
& a_{38} - a_{39} - a_{41} - a_{42} + a_{64} - a_{68} + \\
& a_{69} - a_{70} - a_{80} + a_{81} - 2a_{82} - a_{87} + \\
& a_{88} - a_{89} - a_{90} + a_{189} - a_{192} + a_{196} - \\
& a_{197} + a_{203} + a_{207} - a_{209} - a_{216} + 2a_{217} - \\
& a_{228} - a_{230} + a_{234} + a_{236} - a_{240} - 2a_{242} + \\
& 2a_{246} + a_{248} - a_{250} - a_{445} + 2a_{448} + a_{449} - \\
& a_{463} + a_{464} + a_{474} + a_{475} + a_{478} + a_{482} + \\
& a_{484} + a_{486} + a_{488} + a_{489} - a_{490} - a_{492} + \\
& a_{495} + a_{496} + a_{498} + a_{501} - 2a_{502} - a_{503} - \\
& a_{505} + a_{506} + a_{510} - a_{256} + a_{257} + a_{259} - \\
& a_{261} + a_{267} + a_{268} + a_{270} + 3a_{271} + a_{277} + \\
& a_{278} - a_{280} - a_{292} - a_{294} + a_{295} + a_{298} + \\
& a_{301} - a_{304} - a_{306} - a_{311} - a_{314}
\end{aligned}
$$

$$
\begin{aligned}
a_{701} &= \frac{a_{445} + \sqrt{a_{445}^2 - 4x}}{2} \\
x &= a_6 + a_3 - a_{14} - a_7 + a_8 - a_{16} + \\
& a_{17} - a_{18} + a_{19} - a_{33} - 2a_{35} + a_{37} + \\
& a_{39} - a_{40} - a_{42} - a_{43} + a_{65} - a_{69} + \\
& a_{70} - a_{71} - a_{81} + a_{82} - 2a_{83} - a_{88} + \\
& a_{89} - a_{90} - a_{91} + a_{190} - a_{193} + a_{197} - \\
& a_{198} + a_{204} + a_{208} - a_{210} - a_{217} + 2a_{218} - \\
& a_{229} - a_{231} + a_{235} + a_{237} - a_{241} - 2a_{243} + \\
& 2a_{247} + a_{249} - a_{251} - a_{446} + 2a_{449} + a_{450} - \\
& a_{464} + a_{465} + a_{475} + a_{476} + a_{479} + a_{483} + \\
& a_{485} + a_{487} + a_{489} + a_{490} - a_{491} - a_{493} + \\
& a_{496} + a_{497} + a_{499} + a_{502} - 2a_{503} - a_{504} - \\
& a_{506} + a_{507} + a_{255} - a_{257} + a_{258} + a_{260} - \\
& a_{262} + a_{268} + a_{269} + a_{271} + 3a_{272} + a_{278} + \\
& a_{279} - a_{281} - a_{293} - a_{295} + a_{296} + a_{299} + \\
& a_{302} - a_{305} - a_{307} - a_{312} - a_{315}
\end{aligned}
$$

$$
\begin{aligned}
a_{702} &= \frac{a_{446} - \sqrt{a_{446}^2 - 4x}}{2} \\
x &= a_3 + a_4 - a_7 - a_8 + a_9 - a_{17} + \\
& a_{18} - a_{19} + a_{20} - a_{34} - 2a_{36} + a_{38} + \\
& a_{40} - a_{41} - a_{43} - a_{44} + a_{66} - a_{70} + \\
& a_{71} - a_{72} - a_{82} + a_{83} - 2a_{84} - a_{89} + \\
& a_{90} - a_{91} - a_{92} + a_{191} - a_{194} + a_{198} - \\
& a_{199} + a_{205} + a_{209} - a_{211} - a_{218} + 2a_{219} - \\
& a_{230} - a_{232} + a_{236} + a_{238} - a_{242} - 2a_{244} + \\
& 2a_{248} + a_{250} - a_{252} - a_{447} + 2a_{450} + a_{451} - \\
& a_{465} + a_{466} + a_{476} + a_{477} + a_{480} + a_{484} + \\
& a_{486} + a_{488} + a_{490} + a_{491} - a_{492} - a_{494} + \\
& a_{497} + a_{498} + a_{500} + a_{503} - 2a_{504} - a_{505} - \\
& a_{507} + a_{508} + a_{256} - a_{258} + a_{259} + a_{261} - \\
& a_{263} + a_{269} + a_{270} + a_{272} + 3a_{273} + a_{279} + \\
& a_{280} - a_{282} - a_{294} - a_{296} + a_{297} + a_{300} + \\
& a_{303} - a_{306} - a_{308} - a_{313} - a_{316}
\end{aligned}
$$

$$
\begin{aligned}
a_{703} &= \frac{a_{447} - \sqrt{a_{447}^2 - 4x}}{2} \\
x &= a_4 + a_5 - a_8 - a_9 + a_{10} - a_{18} + \\
& a_{19} - a_{20} + a_{21} - a_{35} - 2a_{37} + a_{39} + \\
& a_{41} - a_{42} - a_{44} - a_{45} + a_{67} - a_{71} + \\
& a_{72} - a_{73} - a_{83} + a_{84} - 2a_{85} - a_{90} + \\
& a_{91} - a_{92} - a_{93} + a_{192} - a_{195} + a_{199} - \\
& a_{200} + a_{206} + a_{210} - a_{212} - a_{219} + 2a_{220} - \\
& a_{231} - a_{233} + a_{237} + a_{239} - a_{243} - 2a_{245} + \\
& 2a_{249} + a_{251} - a_{253} - a_{448} + 2a_{451} + a_{452} - \\
& a_{466} + a_{467} + a_{477} + a_{478} + a_{481} + a_{485} + \\
& a_{487} + a_{489} + a_{491} + a_{492} - a_{493} - a_{495} + \\
& a_{498} + a_{499} + a_{501} + a_{504} - 2a_{505} - a_{506} - \\
& a_{508} + a_{509} + a_{257} - a_{259} + a_{260} + a_{262} - \\
& a_{264} + a_{270} + a_{271} + a_{273} + 3a_{274} + a_{280} +
\end{aligned}
$$

$$
\begin{aligned}
& a_{281} - a_{283} - a_{295} - a_{297} + a_{298} + a_{301} + \\
& a_{304} - a_{307} - a_{309} - a_{314} - a_{317} \\
a_{704} &= \frac{a_{448} + \sqrt{a_{448}^2 - 4x}}{2} \\
x &= a_5 + a_6 - a_9 - a_{10} + a_{11} - a_{19} + \\
& a_{20} - a_{21} + a_{22} - a_{36} - 2a_{38} + a_{40} + \\
& a_{42} - a_{43} - a_{45} - a_{46} + a_{68} - a_{72} + \\
& a_{73} - a_{74} - a_{84} + a_{85} - 2a_{86} - a_{91} + \\
& a_{92} - a_{93} - a_{94} + a_{193} - a_{196} + a_{200} - \\
& a_{201} + a_{207} + a_{211} - a_{213} - a_{220} + 2a_{221} - \\
& a_{232} - a_{234} + a_{238} + a_{240} - a_{244} - 2a_{246} + \\
& 2a_{250} + a_{252} - a_{254} - a_{449} + 2a_{452} + a_{453} - \\
& a_{467} + a_{468} + a_{478} + a_{479} + a_{482} + a_{486} + \\
& a_{488} + a_{490} + a_{492} + a_{493} - a_{494} - a_{496} + \\
& a_{499} + a_{500} + a_{502} + a_{505} - 2a_{506} - a_{507} - \\
& a_{509} + a_{510} + a_{258} - a_{260} + a_{261} + a_{263} - \\
& a_{265} + a_{271} + a_{272} + a_{274} + 3a_{275} + a_{281} + \\
& a_{282} - a_{284} - a_{296} - a_{298} + a_{299} + a_{302} + \\
& a_{305} - a_{308} - a_{310} - a_{315} - a_{318} \\
a_{705} &= \frac{a_{449} + \sqrt{a_{449}^2 - 4x}}{2} \\
x &= a_6 + a_3 - a_{10} - a_{11} + a_{12} - a_{20} + \\
& a_{21} - a_{22} + a_{23} - a_{37} - 2a_{39} + a_{41} + \\
& a_{43} - a_{44} - a_{46} - a_{47} + a_{69} - a_{73} + \\
& a_{74} - a_{75} - a_{85} + a_{86} - 2a_{87} - a_{92} + \\
& a_{93} - a_{94} - a_{95} + a_{194} - a_{197} + a_{201} - \\
& a_{202} + a_{208} + a_{212} - a_{214} - a_{221} + 2a_{222} - \\
& a_{233} - a_{235} + a_{239} + a_{241} - a_{245} - 2a_{247} + \\
& 2a_{251} + a_{253} - a_{127} - a_{450} + 2a_{453} + a_{454} - \\
& a_{468} + a_{469} + a_{479} + a_{480} + a_{483} + a_{487} + \\
& a_{489} + a_{491} + a_{493} + a_{494} - a_{495} - a_{497} + \\
& a_{500} + a_{501} + a_{503} + a_{506} - 2a_{507} - a_{508} - \\
& a_{510} + a_{255} + a_{259} - a_{261} + a_{262} + a_{264} - \\
& a_{266} + a_{272} + a_{273} + a_{275} + 3a_{276} + a_{282} + \\
& a_{283} - a_{285} - a_{297} - a_{299} + a_{300} + a_{303} + \\
& a_{306} - a_{309} - a_{311} - a_{316} - a_{319} \\
a_{706} &= \frac{a_{450} - \sqrt{a_{450}^2 - 4x}}{2} \\
x &= a_3 + a_4 - a_{11} - a_{12} + a_{13} - a_{21} + \\
& a_{22} - a_{23} + a_{24} - a_{38} - 2a_{40} + a_{42} + \\
& a_{44} - a_{45} - a_{47} - a_{48} + a_{70} - a_{74} + \\
& a_{75} - a_{76} - a_{86} + a_{87} - 2a_{88} - a_{93} + \\
& a_{94} - a_{95} - a_{96} + a_{195} - a_{198} + a_{202} - \\
& a_{203} + a_{209} + a_{213} - a_{215} - a_{222} + 2a_{223} - \\
& a_{234} - a_{236} + a_{240} + a_{242} - a_{246} - 2a_{248} + \\
& 2a_{252} + a_{254} - a_{128} - a_{451} + 2a_{454} + a_{455} - \\
& a_{469} + a_{470} + a_{480} + a_{481} + a_{484} + a_{488} + \\
& a_{490} + a_{492} + a_{494} + a_{495} - a_{496} - a_{498} + \\
& a_{501} + a_{502} + a_{504} + a_{507} - 2a_{508} - a_{509} - \\
& a_{255} + a_{256} + a_{260} - a_{262} + a_{263} + a_{265} - \\
& a_{267} + a_{273} + a_{274} + a_{276} + 3a_{277} + a_{283} + \\
& a_{284} - a_{286} - a_{298} - a_{300} + a_{301} + a_{304} + \\
& a_{307} - a_{310} - a_{312} - a_{317} - a_{320} \\
a_{707} &= \frac{a_{451} + \sqrt{a_{451}^2 - 4x}}{2} \\
x &= a_4 + a_5 - a_{12} - a_{13} + a_{14} - a_{22} + \\
& a_{23} - a_{24} + a_{25} - a_{39} - 2a_{41} + a_{43} + \\
& a_{45} - a_{46} - a_{48} - a_{49} + a_{71} - a_{75} + \\
& a_{76} - a_{77} - a_{87} + a_{88} - 2a_{89} - a_{94} + \\
& a_{95} - a_{96} - a_{97} + a_{196} - a_{199} + a_{203} - \\
& a_{204} + a_{210} + a_{214} - a_{216} - a_{223} + 2a_{224} - \\
& a_{235} - a_{237} + a_{241} + a_{243} - a_{247} - 2a_{249} + \\
& 2a_{253} + a_{127} - a_{129} - a_{452} + 2a_{455} + a_{456} - \\
& a_{470} + a_{471} + a_{481} + a_{482} + a_{485} + a_{489} + \\
& a_{491} + a_{493} + a_{495} + a_{496} - a_{497} - a_{499} + \\
& a_{502} + a_{503} + a_{505} + a_{508} - 2a_{509} - a_{510} - \\
& a_{256} + a_{257} + a_{261} - a_{263} + a_{264} + a_{266} - \\
& a_{268} + a_{274} + a_{275} + a_{277} + 3a_{278} + a_{284} + \\
& a_{285} - a_{287} - a_{299} - a_{301} + a_{302} + a_{305} + \\
& a_{308} - a_{311} - a_{313} - a_{318} - a_{321} \\
a_{708} &= \frac{a_{452} - \sqrt{a_{452}^2 - 4x}}{2} \\
x &= a_5 + a_6 - a_{13} - a_{14} + a_7 - a_{23} + \\
& a_{24} - a_{25} + a_{26} - a_{40} - 2a_{42} + a_{44} + \\
& a_{46} - a_{47} - a_{49} - a_{50} + a_{72} - a_{76} + \\
& a_{77} - a_{78} - a_{88} + a_{89} - 2a_{90} - a_{95} + \\
& a_{96} - a_{97} - a_{98} + a_{197} - a_{200} + a_{204} - \\
& a_{205} + a_{211} + a_{215} - a_{217} - a_{224} + 2a_{225} - \\
& a_{236} - a_{238} + a_{242} + a_{244} - a_{248} - 2a_{250} + \\
& 2a_{254} + a_{128} - a_{130} - a_{453} + 2a_{456} + a_{457} - \\
& a_{471} + a_{472} + a_{482} + a_{483} + a_{486} + a_{490} + \\
& a_{492} + a_{494} + a_{496} + a_{497} - a_{498} - a_{500} + \\
& a_{503} + a_{504} + a_{506} + a_{509} - 2a_{510} - a_{255} - \\
& a_{257} + a_{258} + a_{262} - a_{264} + a_{265} + a_{267} - \\
& a_{269} + a_{275} + a_{276} + a_{278} + 3a_{279} + a_{285} + \\
& a_{286} - a_{288} - a_{300} - a_{302} + a_{303} + a_{306} + \\
& a_{309} - a_{312} - a_{314} - a_{319} - a_{322} \\
a_{709} &= \frac{a_{453} - \sqrt{a_{453}^2 - 4x}}{2} \\
x &= a_6 + a_3 - a_{14} - a_7 + a_8 - a_{24} + \\
& a_{25} - a_{26} + a_{27} - a_{41} - 2a_{43} + a_{45} + \\
& a_{47} - a_{48} - a_{50} - a_{51} + a_{73} - a_{77} + \\
& a_{78} - a_{79} - a_{89} + a_{90} - 2a_{91} - a_{96} + \\
& a_{97} - a_{98} - a_{99} + a_{198} - a_{201} + a_{205} - \\
& a_{206} + a_{212} + a_{216} - a_{218} - a_{225} + 2a_{226} - \\
& a_{237} - a_{239} + a_{243} + a_{245} - a_{249} - 2a_{251} + \\
& 2a_{127} + a_{129} - a_{131} - a_{454} + 2a_{457} + a_{458} - \\
& a_{472} + a_{473} + a_{483} + a_{484} + a_{487} + a_{491} +
\end{aligned}
$$

$$
\begin{aligned}
& a_{493} + a_{495} + a_{497} + a_{498} - a_{499} - a_{501} + \\
& a_{504} + a_{505} + a_{507} + a_{510} - 2a_{255} - a_{256} - \\
& a_{258} + a_{259} + a_{263} - a_{265} + a_{266} + a_{268} - \\
& a_{270} + a_{276} + a_{277} + a_{279} + 3a_{280} + a_{286} + \\
& a_{287} - a_{289} - a_{301} - a_{303} + a_{304} + a_{307} + \\
& a_{310} - a_{313} - a_{315} - a_{320} - a_{323}
\end{aligned}
$$

$$
\begin{aligned}
a_{710} &= \frac{a_{454} + \sqrt{a_{454}^2 - 4x}}{2} \\
x &= a_3 + a_4 - a_7 - a_8 + a_9 - a_{25} + \\
& a_{26} - a_{27} + a_{28} - a_{42} - 2a_{44} + a_{46} + \\
& a_{48} - a_{49} - a_{51} - a_{52} + a_{74} - a_{78} + \\
& a_{79} - a_{80} - a_{90} + a_{91} - 2a_{92} - a_{97} + \\
& a_{98} - a_{99} - a_{100} + a_{199} - a_{202} + a_{206} - \\
& a_{207} + a_{213} + a_{217} - a_{219} - a_{226} + 2a_{227} - \\
& a_{238} - a_{240} + a_{244} + a_{246} - a_{250} - 2a_{252} + \\
& 2a_{128} + a_{130} - a_{132} - a_{455} + 2a_{458} + a_{459} - \\
& a_{473} + a_{474} + a_{484} + a_{485} + a_{488} + a_{492} + \\
& a_{494} + a_{496} + a_{498} + a_{499} - a_{500} - a_{502} + \\
& a_{505} + a_{506} + a_{508} + a_{255} - 2a_{256} - a_{257} - \\
& a_{259} + a_{260} + a_{264} - a_{266} + a_{267} + a_{269} - \\
& a_{271} + a_{277} + a_{278} + a_{280} + 3a_{281} + a_{287} + \\
& a_{288} - a_{290} - a_{302} - a_{304} + a_{305} + a_{308} + \\
& a_{311} - a_{314} - a_{316} - a_{321} - a_{324} \\
a_{711} &= \frac{a_{455} - \sqrt{a_{455}^2 - 4x}}{2} \\
x &= a_4 + a_5 - a_8 - a_9 + a_{10} - a_{26} + \\
& a_{27} - a_{28} + a_{29} - a_{43} - 2a_{45} + a_{47} + \\
& a_{49} - a_{50} - a_{52} - a_{53} + a_{75} - a_{79} + \\
& a_{80} - a_{81} - a_{91} + a_{92} - 2a_{93} - a_{98} + \\
& a_{99} - a_{100} - a_{101} + a_{200} - a_{203} + a_{207} - \\
& a_{208} + a_{214} + a_{218} - a_{220} - a_{227} + 2a_{228} - \\
& a_{239} - a_{241} + a_{245} + a_{247} - a_{251} - 2a_{253} + \\
& 2a_{129} + a_{131} - a_{133} - a_{456} + 2a_{459} + a_{460} - \\
& a_{474} + a_{475} + a_{485} + a_{486} + a_{489} + a_{493} + \\
& a_{495} + a_{497} + a_{499} + a_{500} - a_{501} - a_{503} + \\
& a_{506} + a_{507} + a_{509} + a_{256} - 2a_{257} - a_{258} - \\
& a_{260} + a_{261} + a_{265} - a_{267} + a_{268} + a_{270} - \\
& a_{272} + a_{278} + a_{279} + a_{281} + 3a_{282} + a_{288} + \\
& a_{289} - a_{291} - a_{303} - a_{305} + a_{306} + a_{309} + \\
& a_{312} - a_{315} - a_{317} - a_{322} - a_{325} \\
a_{712} &= \frac{a_{456} - \sqrt{a_{456}^2 - 4x}}{2} \\
x &= a_5 + a_6 - a_9 - a_{10} + a_{11} - a_{27} + \\
& a_{28} - a_{29} + a_{30} - a_{44} - 2a_{46} + a_{48} + \\
& a_{50} - a_{51} - a_{53} - a_{54} + a_{76} - a_{80} + \\
& a_{81} - a_{82} - a_{92} + a_{93} - 2a_{94} - a_{99} + \\
& a_{100} - a_{101} - a_{102} + a_{201} - a_{204} + a_{208} - \\
& a_{209} + a_{215} + a_{219} - a_{221} - a_{228} + 2a_{229} - \\
& a_{240} - a_{242} + a_{246} + a_{248} - a_{252} - 2a_{254} + \\
& 2a_{130} + a_{132} - a_{134} - a_{457} + 2a_{460} + a_{461} - \\
& a_{475} + a_{476} + a_{486} + a_{487} + a_{490} + a_{494} + \\
& a_{496} + a_{498} + a_{500} + a_{501} - a_{502} - a_{504} + \\
& a_{507} + a_{508} + a_{510} + a_{257} - 2a_{258} - a_{259} - \\
& a_{261} + a_{262} + a_{266} - a_{268} + a_{269} + a_{271} - \\
& a_{273} + a_{279} + a_{280} + a_{282} + 3a_{283} + a_{289} + \\
& a_{290} - a_{292} - a_{304} - a_{306} + a_{307} + a_{310} + \\
& a_{313} - a_{316} - a_{318} - a_{323} - a_{326} \\
a_{713} &= \frac{a_{457} + \sqrt{a_{457}^2 - 4x}}{2} \\
x &= a_6 + a_3 - a_{10} - a_{11} + a_{12} - a_{28} + \\
& a_{29} - a_{30} + a_{15} - a_{45} - 2a_{47} + a_{49} + \\
& a_{51} - a_{52} - a_{54} - a_{55} + a_{77} - a_{81} + \\
& a_{82} - a_{83} - a_{93} + a_{94} - 2a_{95} - a_{100} + \\
& a_{101} - a_{102} - a_{103} + a_{202} - a_{205} + a_{209} - \\
& a_{210} + a_{216} + a_{220} - a_{222} - a_{229} + 2a_{230} - \\
& a_{241} - a_{243} + a_{247} + a_{249} - a_{253} - 2a_{127} + \\
& 2a_{131} + a_{133} - a_{135} - a_{458} + 2a_{461} + a_{462} - \\
& a_{476} + a_{477} + a_{487} + a_{488} + a_{491} + a_{495} + \\
& a_{497} + a_{499} + a_{501} + a_{502} - a_{503} - a_{505} + \\
& a_{508} + a_{509} + a_{255} + a_{258} - 2a_{259} - a_{260} - \\
& a_{262} + a_{263} + a_{267} - a_{269} + a_{270} + a_{272} - \\
& a_{274} + a_{280} + a_{281} + a_{283} + 3a_{284} + a_{290} + \\
& a_{291} - a_{293} - a_{305} - a_{307} + a_{308} + a_{311} + \\
& a_{314} - a_{317} - a_{319} - a_{324} - a_{327} \\
a_{714} &= \frac{a_{458} - \sqrt{a_{458}^2 - 4x}}{2} \\
x &= a_3 + a_4 - a_{11} - a_{12} + a_{13} - a_{29} + \\
& a_{30} - a_{15} + a_{16} - a_{46} - 2a_{48} + a_{50} + \\
& a_{52} - a_{53} - a_{55} - a_{56} + a_{78} - a_{82} + \\
& a_{83} - a_{84} - a_{94} + a_{95} - 2a_{96} - a_{101} + \\
& a_{102} - a_{103} - a_{104} + a_{203} - a_{206} + a_{210} - \\
& a_{211} + a_{217} + a_{221} - a_{223} - a_{230} + 2a_{231} - \\
& a_{242} - a_{244} + a_{248} + a_{250} - a_{254} - 2a_{128} + \\
& 2a_{132} + a_{134} - a_{136} - a_{459} + 2a_{462} + a_{463} - \\
& a_{477} + a_{478} + a_{488} + a_{489} + a_{492} + a_{496} + \\
& a_{498} + a_{500} + a_{502} + a_{503} - a_{504} - a_{506} + \\
& a_{509} + a_{510} + a_{256} + a_{259} - 2a_{260} - a_{261} - \\
& a_{263} + a_{264} + a_{268} - a_{270} + a_{271} + a_{273} - \\
& a_{275} + a_{281} + a_{282} + a_{284} + 3a_{285} + a_{291} + \\
& a_{292} - a_{294} - a_{306} - a_{308} + a_{309} + a_{312} + \\
& a_{315} - a_{318} - a_{320} - a_{325} - a_{328} \\
a_{715} &= \frac{a_{459} - \sqrt{a_{459}^2 - 4x}}{2} \\
x &= a_4 + a_5 - a_{12} - a_{13} + a_{14} - a_{30} + \\
& a_{15} - a_{16} + a_{17} - a_{47} - 2a_{49} + a_{51} + \\
& a_{53} - a_{54} - a_{56} - a_{57} + a_{79} - a_{83} + \\
& a_{84} - a_{85} - a_{95} + a_{96} - 2a_{97} - a_{102} +
\end{aligned}
$$

$$
\begin{aligned}
& a_{103} - a_{104} - a_{105} + a_{204} - a_{207} + a_{211} - \\
& a_{212} + a_{218} + a_{222} - a_{224} - a_{231} + 2a_{232} - \\
& a_{243} - a_{245} + a_{249} + a_{251} - a_{127} - 2a_{129} + \\
& 2a_{133} + a_{135} - a_{137} - a_{460} + 2a_{463} + a_{464} - \\
& a_{478} + a_{479} + a_{489} + a_{490} + a_{493} + a_{497} + \\
& a_{499} + a_{501} + a_{503} + a_{504} - a_{505} - a_{507} + \\
& a_{510} + a_{255} + a_{257} + a_{260} - 2a_{261} - a_{262} - \\
& a_{264} + a_{265} + a_{269} - a_{271} + a_{272} + a_{274} - \\
& a_{276} + a_{282} + a_{283} + a_{285} + 3a_{286} + a_{292} + \\
& a_{293} - a_{295} - a_{307} - a_{309} + a_{310} + a_{313} + \\
& a_{316} - a_{319} - a_{321} - a_{326} - a_{329}
\end{aligned}
$$

$$
a_{716} = \frac{a_{460} + \sqrt{a_{460}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_5 + a_6 - a_{13} - a_{14} + a_7 - a_{15} + \\
& a_{16} - a_{17} + a_{18} - a_{48} - 2a_{50} + a_{52} + \\
& a_{54} - a_{55} - a_{57} - a_{58} + a_{80} - a_{84} + \\
& a_{85} - a_{86} - a_{96} + a_{97} - 2a_{98} - a_{103} + \\
& a_{104} - a_{105} - a_{106} + a_{205} - a_{208} + a_{212} - \\
& a_{213} + a_{219} + a_{223} - a_{225} - a_{232} + 2a_{233} - \\
& a_{244} - a_{246} + a_{250} + a_{252} - a_{128} - 2a_{130} + \\
& 2a_{134} + a_{136} - a_{138} - a_{461} + 2a_{464} + a_{465} - \\
& a_{479} + a_{480} + a_{490} + a_{491} + a_{494} + a_{498} + \\
& a_{500} + a_{502} + a_{504} + a_{505} - a_{506} - a_{508} + \\
& a_{255} + a_{256} + a_{258} + a_{261} - 2a_{262} - a_{263} - \\
& a_{265} + a_{266} + a_{270} - a_{272} + a_{273} + a_{275} - \\
& a_{277} + a_{283} + a_{284} + a_{286} + 3a_{287} + a_{293} + \\
& a_{294} - a_{296} - a_{308} - a_{310} + a_{311} + a_{314} + \\
& a_{317} - a_{320} - a_{322} - a_{327} - a_{330}
\end{aligned}
$$

$$
a_{717} = \frac{a_{461} + \sqrt{a_{461}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_6 + a_3 - a_{14} - a_7 + a_8 - a_{16} + \\
& a_{17} - a_{18} + a_{19} - a_{49} - 2a_{51} + a_{53} + \\
& a_{55} - a_{56} - a_{58} - a_{59} + a_{81} - a_{85} + \\
& a_{86} - a_{87} - a_{97} + a_{98} - 2a_{99} - a_{104} + \\
& a_{105} - a_{106} - a_{107} + a_{206} - a_{209} + a_{213} - \\
& a_{214} + a_{220} + a_{224} - a_{226} - a_{233} + 2a_{234} - \\
& a_{245} - a_{247} + a_{251} + a_{253} - a_{129} - 2a_{131} + \\
& 2a_{135} + a_{137} - a_{139} - a_{462} + 2a_{465} + a_{466} - \\
& a_{480} + a_{481} + a_{491} + a_{492} + a_{495} + a_{499} + \\
& a_{501} + a_{503} + a_{505} + a_{506} - a_{507} - a_{509} + \\
& a_{256} + a_{257} + a_{259} + a_{262} - 2a_{263} - a_{264} - \\
& a_{266} + a_{267} + a_{271} - a_{273} + a_{274} + a_{276} - \\
& a_{278} + a_{284} + a_{285} + a_{287} + 3a_{288} + a_{294} + \\
& a_{295} - a_{297} - a_{309} - a_{311} + a_{312} + a_{315} + \\
& a_{318} - a_{321} - a_{323} - a_{328} - a_{331}
\end{aligned}
$$

$$
a_{718} = \frac{a_{462} - \sqrt{a_{462}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_3 + a_4 - a_7 - a_8 + a_9 - a_{17} + \\
& a_{18} - a_{19} + a_{20} - a_{50} - 2a_{52} + a_{54} + \\
& a_{56} - a_{57} - a_{59} - a_{60} + a_{82} - a_{86} + \\
& a_{87} - a_{88} - a_{98} + a_{99} - 2a_{100} - a_{105} + \\
& a_{106} - a_{107} - a_{108} + a_{207} - a_{210} + a_{214} - \\
& a_{215} + a_{221} + a_{225} - a_{227} - a_{234} + 2a_{235} - \\
& a_{246} - a_{248} + a_{252} + a_{254} - a_{130} - 2a_{132} + \\
& 2a_{136} + a_{138} - a_{140} - a_{463} + 2a_{466} + a_{467} - \\
& a_{481} + a_{482} + a_{492} + a_{493} + a_{496} + a_{500} + \\
& a_{502} + a_{504} + a_{506} + a_{507} - a_{508} - a_{510} + \\
& a_{257} + a_{258} + a_{260} + a_{263} - 2a_{264} - a_{265} - \\
& a_{267} + a_{268} + a_{272} - a_{274} + a_{275} + a_{277} - \\
& a_{279} + a_{285} + a_{286} + a_{288} + 3a_{289} + a_{295} + \\
& a_{296} - a_{298} - a_{310} - a_{312} + a_{313} + a_{316} + \\
& a_{319} - a_{322} - a_{324} - a_{329} - a_{332}
\end{aligned}
$$

$$
a_{719} = \frac{a_{463} + \sqrt{a_{463}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_4 + a_5 - a_8 - a_9 + a_{10} - a_{18} + \\
& a_{19} - a_{20} + a_{21} - a_{51} - 2a_{53} + a_{55} + \\
& a_{57} - a_{58} - a_{60} - a_{61} + a_{83} - a_{87} + \\
& a_{88} - a_{89} - a_{99} + a_{100} - 2a_{101} - a_{106} + \\
& a_{107} - a_{108} - a_{109} + a_{208} - a_{211} + a_{215} - \\
& a_{216} + a_{222} + a_{226} - a_{228} - a_{235} + 2a_{236} - \\
& a_{247} - a_{249} + a_{253} + a_{127} - a_{131} - 2a_{133} + \\
& 2a_{137} + a_{139} - a_{141} - a_{464} + 2a_{467} + a_{468} - \\
& a_{482} + a_{483} + a_{493} + a_{494} + a_{497} + a_{501} + \\
& a_{503} + a_{505} + a_{507} + a_{508} - a_{509} - a_{255} + \\
& a_{258} + a_{259} + a_{261} + a_{264} - 2a_{265} - a_{266} - \\
& a_{268} + a_{269} + a_{273} - a_{275} + a_{276} + a_{278} - \\
& a_{280} + a_{286} + a_{287} + a_{289} + 3a_{290} + a_{296} + \\
& a_{297} - a_{299} - a_{311} - a_{313} + a_{314} + a_{317} + \\
& a_{320} - a_{323} - a_{325} - a_{330} - a_{333}
\end{aligned}
$$

$$
a_{720} = \frac{a_{464} + \sqrt{a_{464}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_5 + a_6 - a_9 - a_{10} + a_{11} - a_{19} + \\
& a_{20} - a_{21} + a_{22} - a_{52} - 2a_{54} + a_{56} + \\
& a_{58} - a_{59} - a_{61} - a_{62} + a_{84} - a_{88} + \\
& a_{89} - a_{90} - a_{100} + a_{101} - 2a_{102} - a_{107} + \\
& a_{108} - a_{109} - a_{110} + a_{209} - a_{212} + a_{216} - \\
& a_{217} + a_{223} + a_{227} - a_{229} - a_{236} + 2a_{237} - \\
& a_{248} - a_{250} + a_{254} + a_{128} - a_{132} - 2a_{134} + \\
& 2a_{138} + a_{140} - a_{142} - a_{465} + 2a_{468} + a_{469} - \\
& a_{483} + a_{484} + a_{494} + a_{495} + a_{498} + a_{502} + \\
& a_{504} + a_{506} + a_{508} + a_{509} - a_{510} - a_{256} + \\
& a_{259} + a_{260} + a_{262} + a_{265} - 2a_{266} - a_{267} - \\
& a_{269} + a_{270} + a_{274} - a_{276} + a_{277} + a_{279} - \\
& a_{281} + a_{287} + a_{288} + a_{290} + 3a_{291} + a_{297} + \\
& a_{298} - a_{300} - a_{312} - a_{314} + a_{315} + a_{318} + \\
& a_{321} - a_{324} - a_{326} - a_{331} - a_{334}
\end{aligned}
$$

$$
\begin{aligned}
a_{721} &= \frac{a_{465}-\sqrt{a_{465}^2-4x}}{2}\\
x &= a_6+a_3-a_{10}-a_{11}+a_{12}-a_{20}+\\
&\quad a_{21}-a_{22}+a_{23}-a_{53}-2a_{55}+a_{57}+\\
&\quad a_{59}-a_{60}-a_{62}-a_{31}+a_{85}-a_{89}+\\
&\quad a_{90}-a_{91}-a_{101}+a_{102}-2a_{103}-a_{108}+\\
&\quad a_{109}-a_{110}-a_{111}+a_{210}-a_{213}+a_{217}-\\
&\quad a_{218}+a_{224}+a_{228}-a_{230}-a_{237}+2a_{238}-\\
&\quad a_{249}-a_{251}+a_{127}+a_{129}-a_{133}-2a_{135}+\\
&\quad 2a_{139}+a_{141}-a_{143}-a_{466}+2a_{469}+a_{470}-\\
&\quad a_{484}+a_{485}+a_{495}+a_{496}+a_{499}+a_{503}+\\
&\quad a_{505}+a_{507}+a_{509}+a_{510}-a_{255}-a_{257}+\\
&\quad a_{260}+a_{261}+a_{263}+a_{266}-2a_{267}-a_{268}-\\
&\quad a_{270}+a_{271}+a_{275}-a_{277}+a_{278}+a_{280}-\\
&\quad a_{282}+a_{288}+a_{289}+a_{291}+3a_{292}+a_{298}+\\
&\quad a_{299}-a_{301}-a_{313}-a_{315}+a_{316}+a_{319}+\\
&\quad a_{322}-a_{325}-a_{327}-a_{332}-a_{335}\\
a_{722} &= \frac{a_{466}-\sqrt{a_{466}^2-4x}}{2}\\
x &= a_3+a_4-a_{11}-a_{12}+a_{13}-a_{21}+\\
&\quad a_{22}-a_{23}+a_{24}-a_{54}-2a_{56}+a_{58}+\\
&\quad a_{60}-a_{61}-a_{31}-a_{32}+a_{86}-a_{90}+\\
&\quad a_{91}-a_{92}-a_{102}+a_{103}-2a_{104}-a_{109}+\\
&\quad a_{110}-a_{111}-a_{112}+a_{211}-a_{214}+a_{218}-\\
&\quad a_{219}+a_{225}+a_{229}-a_{231}-a_{238}+2a_{239}-\\
&\quad a_{250}-a_{252}+a_{128}+a_{130}-a_{134}-2a_{136}+\\
&\quad 2a_{140}+a_{142}-a_{144}-a_{467}+2a_{470}+a_{471}-\\
&\quad a_{485}+a_{486}+a_{496}+a_{497}+a_{500}+a_{504}+\\
&\quad a_{506}+a_{508}+a_{510}+a_{255}-a_{256}-a_{258}+\\
&\quad a_{261}+a_{262}+a_{264}+a_{267}-2a_{268}-a_{269}-\\
&\quad a_{271}+a_{272}+a_{276}-a_{278}+a_{279}+a_{281}-\\
&\quad a_{283}+a_{289}+a_{290}+a_{292}+3a_{293}+a_{299}+\\
&\quad a_{300}-a_{302}-a_{314}-a_{316}+a_{317}+a_{320}+\\
&\quad a_{323}-a_{326}-a_{328}-a_{333}-a_{336}\\
a_{723} &= \frac{a_{467}+\sqrt{a_{467}^2-4x}}{2}\\
x &= a_4+a_5-a_{12}-a_{13}+a_{14}-a_{22}+\\
&\quad a_{23}-a_{24}+a_{25}-a_{55}-2a_{57}+a_{59}+\\
&\quad a_{61}-a_{62}-a_{32}-a_{33}+a_{87}-a_{91}+\\
&\quad a_{92}-a_{93}-a_{103}+a_{104}-2a_{105}-a_{110}+\\
&\quad a_{111}-a_{112}-a_{113}+a_{212}-a_{215}+a_{219}-\\
&\quad a_{220}+a_{226}+a_{230}-a_{232}-a_{239}+2a_{240}-\\
&\quad a_{251}-a_{253}+a_{129}+a_{131}-a_{135}-2a_{137}+\\
&\quad 2a_{141}+a_{143}-a_{145}-a_{468}+2a_{471}+a_{472}-\\
&\quad a_{486}+a_{487}+a_{497}+a_{498}+a_{501}+a_{505}+\\
&\quad a_{507}+a_{509}+a_{255}+a_{256}-a_{257}-a_{259}+\\
&\quad a_{262}+a_{263}+a_{265}+a_{268}-2a_{269}-a_{270}-\\
&\quad a_{272}+a_{273}+a_{277}-a_{279}+a_{280}+a_{282}-\\
&\quad a_{284}+a_{290}+a_{291}+a_{293}+3a_{294}+a_{300}+\\
&\quad a_{301}-a_{303}-a_{315}-a_{317}+a_{318}+a_{321}+\\
&\quad a_{324}-a_{327}-a_{329}-a_{334}-a_{337}\\
a_{724} &= \frac{a_{468}-\sqrt{a_{468}^2-4x}}{2}\\
x &= a_5+a_6-a_{13}-a_{14}+a_7-a_{23}+\\
&\quad a_{24}-a_{25}+a_{26}-a_{56}-2a_{58}+a_{60}+\\
&\quad a_{62}-a_{31}-a_{33}-a_{34}+a_{88}-a_{92}+\\
&\quad a_{93}-a_{94}-a_{104}+a_{105}-2a_{106}-a_{111}+\\
&\quad a_{112}-a_{113}-a_{114}+a_{213}-a_{216}+a_{220}-\\
&\quad a_{221}+a_{227}+a_{231}-a_{233}-a_{240}+2a_{241}-\\
&\quad a_{252}-a_{254}+a_{130}+a_{132}-a_{136}-2a_{138}+\\
&\quad 2a_{142}+a_{144}-a_{146}-a_{469}+2a_{472}+a_{473}-\\
&\quad a_{487}+a_{488}+a_{498}+a_{499}+a_{502}+a_{506}+\\
&\quad a_{508}+a_{510}+a_{256}+a_{257}-a_{258}-a_{260}+\\
&\quad a_{263}+a_{264}+a_{266}+a_{269}-2a_{270}-a_{271}-\\
&\quad a_{273}+a_{274}+a_{278}-a_{280}+a_{281}+a_{283}-\\
&\quad a_{285}+a_{291}+a_{292}+a_{294}+3a_{295}+a_{301}+\\
&\quad a_{302}-a_{304}-a_{316}-a_{318}+a_{319}+a_{322}+\\
&\quad a_{325}-a_{328}-a_{330}-a_{335}-a_{338}\\
a_{725} &= \frac{a_{469}+\sqrt{a_{469}^2-4x}}{2}\\
x &= a_6+a_3-a_{14}-a_7+a_8-a_{24}+\\
&\quad a_{25}-a_{26}+a_{27}-a_{57}-2a_{59}+a_{61}+\\
&\quad a_{31}-a_{32}-a_{34}-a_{35}+a_{89}-a_{93}+\\
&\quad a_{94}-a_{95}-a_{105}+a_{106}-2a_{107}-a_{112}+\\
&\quad a_{113}-a_{114}-a_{115}+a_{214}-a_{217}+a_{221}-\\
&\quad a_{222}+a_{228}+a_{232}-a_{234}-a_{241}+2a_{242}-\\
&\quad a_{253}-a_{127}+a_{131}+a_{133}-a_{137}-2a_{139}+\\
&\quad 2a_{143}+a_{145}-a_{147}-a_{470}+2a_{473}+a_{474}-\\
&\quad a_{488}+a_{489}+a_{499}+a_{500}+a_{503}+a_{507}+\\
&\quad a_{509}+a_{255}+a_{257}+a_{258}-a_{259}-a_{261}+\\
&\quad a_{264}+a_{265}+a_{267}+a_{270}-2a_{271}-a_{272}-\\
&\quad a_{274}+a_{275}+a_{279}-a_{281}+a_{282}+a_{284}-\\
&\quad a_{286}+a_{292}+a_{293}+a_{295}+3a_{296}+a_{302}+\\
&\quad a_{303}-a_{305}-a_{317}-a_{319}+a_{320}+a_{323}+\\
&\quad a_{326}-a_{329}-a_{331}-a_{336}-a_{339}\\
a_{726} &= \frac{a_{470}-\sqrt{a_{470}^2-4x}}{2}\\
x &= a_3+a_4-a_7-a_8+a_9-a_{25}+\\
&\quad a_{26}-a_{27}+a_{28}-a_{58}-2a_{60}+a_{62}+\\
&\quad a_{32}-a_{33}-a_{35}-a_{36}+a_{90}-a_{94}+\\
&\quad a_{95}-a_{96}-a_{106}+a_{107}-2a_{108}-a_{113}+\\
&\quad a_{114}-a_{115}-a_{116}+a_{215}-a_{218}+a_{222}-\\
&\quad a_{223}+a_{229}+a_{233}-a_{235}-a_{242}+2a_{243}-\\
&\quad a_{254}-a_{128}+a_{132}+a_{134}-a_{138}-2a_{140}+\\
&\quad 2a_{144}+a_{146}-a_{148}-a_{471}+2a_{474}+a_{475}-\\
&\quad a_{489}+a_{490}+a_{500}+a_{501}+a_{504}+a_{508}+\\
&\quad a_{510}+a_{256}+a_{258}+a_{259}-a_{260}-a_{262}+\\
&\quad a_{265}+a_{266}+a_{268}+a_{271}-2a_{272}-a_{273}-
\end{aligned}
$$

$$
\begin{aligned}
& a_{275} + a_{276} + a_{280} - a_{282} + a_{283} + a_{285} - \\
& a_{287} + a_{293} + a_{294} + a_{296} + 3a_{297} + a_{303} + \\
& a_{304} - a_{306} - a_{318} - a_{320} + a_{321} + a_{324} + \\
& a_{327} - a_{330} - a_{332} - a_{337} - a_{340} \\
a_{727} &= \frac{a_{471} + \sqrt{a_{471}^2 - 4x}}{2} \\
x &= a_4 + a_5 - a_8 - a_9 + a_{10} - a_{26} + \\
& a_{27} - a_{28} + a_{29} - a_{59} - 2a_{61} + a_{31} + \\
& a_{33} - a_{34} - a_{36} - a_{37} + a_{91} - a_{95} + \\
& a_{96} - a_{97} - a_{107} + a_{108} - 2a_{109} - a_{114} + \\
& a_{115} - a_{116} - a_{117} + a_{216} - a_{219} + a_{223} - \\
& a_{224} + a_{230} + a_{234} - a_{236} - a_{243} + 2a_{244} - \\
& a_{127} - a_{129} + a_{133} + a_{135} - a_{139} - 2a_{141} + \\
& 2a_{145} + a_{147} - a_{149} - a_{472} + 2a_{475} + a_{476} - \\
& a_{490} + a_{491} + a_{501} + a_{502} + a_{505} + a_{509} + \\
& a_{255} + a_{257} + a_{259} + a_{260} - a_{261} - a_{263} + \\
& a_{266} + a_{267} + a_{269} + a_{272} - 2a_{273} - a_{274} - \\
& a_{276} + a_{277} + a_{281} - a_{283} + a_{284} + a_{286} - \\
& a_{288} + a_{294} + a_{295} + a_{297} + 3a_{298} + a_{304} + \\
& a_{305} - a_{307} - a_{319} - a_{321} + a_{322} + a_{325} + \\
& a_{328} - a_{331} - a_{333} - a_{338} - a_{341} \\
a_{728} &= \frac{a_{472} - \sqrt{a_{472}^2 - 4x}}{2} \\
x &= a_5 + a_6 - a_9 - a_{10} + a_{11} - a_{27} + \\
& a_{28} - a_{29} + a_{30} - a_{60} - 2a_{62} + a_{32} + \\
& a_{34} - a_{35} - a_{37} - a_{38} + a_{92} - a_{96} + \\
& a_{97} - a_{98} - a_{108} + a_{109} - 2a_{110} - a_{115} + \\
& a_{116} - a_{117} - a_{118} + a_{217} - a_{220} + a_{224} - \\
& a_{225} + a_{231} + a_{235} - a_{237} - a_{244} + 2a_{245} - \\
& a_{128} - a_{130} + a_{134} + a_{136} - a_{140} - 2a_{142} + \\
& 2a_{146} + a_{148} - a_{150} - a_{473} + 2a_{476} + a_{477} - \\
& a_{491} + a_{492} + a_{502} + a_{503} + a_{506} + a_{510} + \\
& a_{256} + a_{258} + a_{260} + a_{261} - a_{262} - a_{264} + \\
& a_{267} + a_{268} + a_{270} + a_{273} - 2a_{274} - a_{275} - \\
& a_{277} + a_{278} + a_{282} - a_{284} + a_{285} + a_{287} - \\
& a_{289} + a_{295} + a_{296} + a_{298} + 3a_{299} + a_{305} + \\
& a_{306} - a_{308} - a_{320} - a_{322} + a_{323} + a_{326} + \\
& a_{329} - a_{332} - a_{334} - a_{339} - a_{342} \\
a_{729} &= \frac{a_{473} - \sqrt{a_{473}^2 - 4x}}{2} \\
x &= a_6 + a_3 - a_{10} - a_{11} + a_{12} - a_{28} + \\
& a_{29} - a_{30} + a_{15} - a_{61} - 2a_{31} + a_{33} + \\
& a_{35} - a_{36} - a_{38} - a_{39} + a_{93} - a_{97} + \\
& a_{98} - a_{99} - a_{109} + a_{110} - 2a_{111} - a_{116} + \\
& a_{117} - a_{118} - a_{119} + a_{218} - a_{221} + a_{225} - \\
& a_{226} + a_{232} + a_{236} - a_{238} - a_{245} + 2a_{246} - \\
& a_{129} - a_{131} + a_{135} + a_{137} - a_{141} - 2a_{143} + \\
& 2a_{147} + a_{149} - a_{151} - a_{474} + 2a_{477} + a_{478} - \\
& a_{492} + a_{493} + a_{503} + a_{504} + a_{507} + a_{255} + \\
& a_{257} + a_{259} + a_{261} + a_{262} - a_{263} - a_{265} + \\
& a_{268} + a_{269} + a_{271} + a_{274} - 2a_{275} - a_{276} - \\
& a_{278} + a_{279} + a_{283} - a_{285} + a_{286} + a_{288} - \\
& a_{290} + a_{296} + a_{297} + a_{299} + 3a_{300} + a_{306} + \\
& a_{307} - a_{309} - a_{321} - a_{323} + a_{324} + a_{327} + \\
& a_{330} - a_{333} - a_{335} - a_{340} - a_{343} \\
a_{730} &= \frac{a_{474} + \sqrt{a_{474}^2 - 4x}}{2} \\
x &= a_3 + a_4 - a_{11} - a_{12} + a_{13} - a_{29} + \\
& a_{30} - a_{15} + a_{16} - a_{62} - 2a_{32} + a_{34} + \\
& a_{36} - a_{37} - a_{39} - a_{40} + a_{94} - a_{98} + \\
& a_{99} - a_{100} - a_{110} + a_{111} - 2a_{112} - a_{117} + \\
& a_{118} - a_{119} - a_{120} + a_{219} - a_{222} + a_{226} - \\
& a_{227} + a_{233} + a_{237} - a_{239} - a_{246} + 2a_{247} - \\
& a_{130} - a_{132} + a_{136} + a_{138} - a_{142} - 2a_{144} + \\
& 2a_{148} + a_{150} - a_{152} - a_{475} + 2a_{478} + a_{479} - \\
& a_{493} + a_{494} + a_{504} + a_{505} + a_{508} + a_{256} + \\
& a_{258} + a_{260} + a_{262} + a_{263} - a_{264} - a_{266} + \\
& a_{269} + a_{270} + a_{272} + a_{275} - 2a_{276} - a_{277} - \\
& a_{279} + a_{280} + a_{284} - a_{286} + a_{287} + a_{289} - \\
& a_{291} + a_{297} + a_{298} + a_{300} + 3a_{301} + a_{307} + \\
& a_{308} - a_{310} - a_{322} - a_{324} + a_{325} + a_{328} + \\
& a_{331} - a_{334} - a_{336} - a_{341} - a_{344} \\
a_{731} &= \frac{a_{475} + \sqrt{a_{475}^2 - 4x}}{2} \\
x &= a_4 + a_5 - a_{12} - a_{13} + a_{14} - a_{30} + \\
& a_{15} - a_{16} + a_{17} - a_{31} - 2a_{33} + a_{35} + \\
& a_{37} - a_{38} - a_{40} - a_{41} + a_{95} - a_{99} + \\
& a_{100} - a_{101} - a_{111} + a_{112} - 2a_{113} - a_{118} + \\
& a_{119} - a_{120} - a_{121} + a_{220} - a_{223} + a_{227} - \\
& a_{228} + a_{234} + a_{238} - a_{240} - a_{247} + 2a_{248} - \\
& a_{131} - a_{133} + a_{137} + a_{139} - a_{143} - 2a_{145} + \\
& 2a_{149} + a_{151} - a_{153} - a_{476} + 2a_{479} + a_{480} - \\
& a_{494} + a_{495} + a_{505} + a_{506} + a_{509} + a_{257} + \\
& a_{259} + a_{261} + a_{263} + a_{264} - a_{265} - a_{267} + \\
& a_{270} + a_{271} + a_{273} + a_{276} - 2a_{277} - a_{278} - \\
& a_{280} + a_{281} + a_{285} - a_{287} + a_{288} + a_{290} - \\
& a_{292} + a_{298} + a_{299} + a_{301} + 3a_{302} + a_{308} + \\
& a_{309} - a_{311} - a_{323} - a_{325} + a_{326} + a_{329} + \\
& a_{332} - a_{335} - a_{337} - a_{342} - a_{345} \\
a_{732} &= \frac{a_{476} + \sqrt{a_{476}^2 - 4x}}{2} \\
x &= a_5 + a_6 - a_{13} - a_{14} + a_7 - a_{15} + \\
& a_{16} - a_{17} + a_{18} - a_{32} - 2a_{34} + a_{36} + \\
& a_{38} - a_{39} - a_{41} - a_{42} + a_{96} - a_{100} + \\
& a_{101} - a_{102} - a_{112} + a_{113} - 2a_{114} - a_{119} + \\
& a_{120} - a_{121} - a_{122} + a_{221} - a_{224} + a_{228} - \\
& a_{229} + a_{235} + a_{239} - a_{241} - a_{248} + 2a_{249} -
\end{aligned}
$$

$$
\begin{aligned}
& a_{132} - a_{134} + a_{138} + a_{140} - a_{144} - 2a_{146} + \\
& 2a_{150} + a_{152} - a_{154} - a_{477} + 2a_{480} + a_{481} - \\
& a_{495} + a_{496} + a_{506} + a_{507} + a_{510} + a_{258} + \\
& a_{260} + a_{262} + a_{264} + a_{265} - a_{266} - a_{268} + \\
& a_{271} + a_{272} + a_{274} + a_{277} - 2a_{278} - a_{279} - \\
& a_{281} + a_{282} + a_{286} - a_{288} + a_{289} + a_{291} - \\
& a_{293} + a_{299} + a_{300} + a_{302} + 3a_{303} + a_{309} + \\
& a_{310} - a_{312} - a_{324} - a_{326} + a_{327} + a_{330} + \\
& a_{333} - a_{336} - a_{338} - a_{343} - a_{346}
\end{aligned}
$$

$$
a_{733} = \frac{a_{477} + \sqrt{a_{477}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_6 + a_3 - a_{14} - a_7 + a_8 - a_{16} + \\
& a_{17} - a_{18} + a_{19} - a_{33} - 2a_{35} + a_{37} + \\
& a_{39} - a_{40} - a_{42} - a_{43} + a_{97} - a_{101} + \\
& a_{102} - a_{103} - a_{113} + a_{114} - 2a_{115} - a_{120} + \\
& a_{121} - a_{122} - a_{123} + a_{222} - a_{225} + a_{229} - \\
& a_{230} + a_{236} + a_{240} - a_{242} - a_{249} + 2a_{250} - \\
& a_{133} - a_{135} + a_{139} + a_{141} - a_{145} - 2a_{147} + \\
& 2a_{151} + a_{153} - a_{155} - a_{478} + 2a_{481} + a_{482} - \\
& a_{496} + a_{497} + a_{507} + a_{508} + a_{255} + a_{259} + \\
& a_{261} + a_{263} + a_{265} + a_{266} - a_{267} - a_{269} + \\
& a_{272} + a_{273} + a_{275} + a_{278} - 2a_{279} - a_{280} - \\
& a_{282} + a_{283} + a_{287} - a_{289} + a_{290} + a_{292} - \\
& a_{294} + a_{300} + a_{301} + a_{303} + 3a_{304} + a_{310} + \\
& a_{311} - a_{313} - a_{325} - a_{327} + a_{328} + a_{331} + \\
& a_{334} - a_{337} - a_{339} - a_{344} - a_{347}
\end{aligned}
$$

$$
a_{734} = \frac{a_{478} - \sqrt{a_{478}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_3 + a_4 - a_7 - a_8 + a_9 - a_{17} + \\
& a_{18} - a_{19} + a_{20} - a_{34} - 2a_{36} + a_{38} + \\
& a_{40} - a_{41} - a_{43} - a_{44} + a_{98} - a_{102} + \\
& a_{103} - a_{104} - a_{114} + a_{115} - 2a_{116} - a_{121} + \\
& a_{122} - a_{123} - a_{124} + a_{223} - a_{226} + a_{230} - \\
& a_{231} + a_{237} + a_{241} - a_{243} - a_{250} + 2a_{251} - \\
& a_{134} - a_{136} + a_{140} + a_{142} - a_{146} - 2a_{148} + \\
& 2a_{152} + a_{154} - a_{156} - a_{479} + 2a_{482} + a_{483} - \\
& a_{497} + a_{498} + a_{508} + a_{509} + a_{256} + a_{260} + \\
& a_{262} + a_{264} + a_{266} + a_{267} - a_{268} - a_{270} + \\
& a_{273} + a_{274} + a_{276} + a_{279} - 2a_{280} - a_{281} - \\
& a_{283} + a_{284} + a_{288} - a_{290} + a_{291} + a_{293} - \\
& a_{295} + a_{301} + a_{302} + a_{304} + 3a_{305} + a_{311} + \\
& a_{312} - a_{314} - a_{326} - a_{328} + a_{329} + a_{332} + \\
& a_{335} - a_{338} - a_{340} - a_{345} - a_{348}
\end{aligned}
$$

$$
a_{735} = \frac{a_{479} + \sqrt{a_{479}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_4 + a_5 - a_8 - a_9 + a_{10} - a_{18} + \\
& a_{19} - a_{20} + a_{21} - a_{35} - 2a_{37} + a_{39} + \\
& a_{41} - a_{42} - a_{44} - a_{45} + a_{99} - a_{103} + \\
& a_{104} - a_{105} - a_{115} + a_{116} - 2a_{117} - a_{122} + \\
& a_{123} - a_{124} - a_{125} + a_{224} - a_{227} + a_{231} - \\
& a_{232} + a_{238} + a_{242} - a_{244} - a_{251} + 2a_{252} - \\
& a_{135} - a_{137} + a_{141} + a_{143} - a_{147} - 2a_{149} + \\
& 2a_{153} + a_{155} - a_{157} - a_{480} + 2a_{483} + a_{484} - \\
& a_{498} + a_{499} + a_{509} + a_{510} + a_{257} + a_{261} + \\
& a_{263} + a_{265} + a_{267} + a_{268} - a_{269} - a_{271} + \\
& a_{274} + a_{275} + a_{277} + a_{280} - 2a_{281} - a_{282} - \\
& a_{284} + a_{285} + a_{289} - a_{291} + a_{292} + a_{294} - \\
& a_{296} + a_{302} + a_{303} + a_{305} + 3a_{306} + a_{312} + \\
& a_{313} - a_{315} - a_{327} - a_{329} + a_{330} + a_{333} + \\
& a_{336} - a_{339} - a_{341} - a_{346} - a_{349}
\end{aligned}
$$

$$
a_{736} = \frac{a_{480} - \sqrt{a_{480}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_5 + a_6 - a_9 - a_{10} + a_{11} - a_{19} + \\
& a_{20} - a_{21} + a_{22} - a_{36} - 2a_{38} + a_{40} + \\
& a_{42} - a_{43} - a_{45} - a_{46} + a_{100} - a_{104} + \\
& a_{105} - a_{106} - a_{116} + a_{117} - 2a_{118} - a_{123} + \\
& a_{124} - a_{125} - a_{126} + a_{225} - a_{228} + a_{232} - \\
& a_{233} + a_{239} + a_{243} - a_{245} - a_{252} + 2a_{253} - \\
& a_{136} - a_{138} + a_{142} + a_{144} - a_{148} - 2a_{150} + \\
& 2a_{154} + a_{156} - a_{158} - a_{481} + 2a_{484} + a_{485} - \\
& a_{499} + a_{500} + a_{510} + a_{255} + a_{258} + a_{262} + \\
& a_{264} + a_{266} + a_{268} + a_{269} - a_{270} - a_{272} + \\
& a_{275} + a_{276} + a_{278} + a_{281} - 2a_{282} - a_{283} - \\
& a_{285} + a_{286} + a_{290} - a_{292} + a_{293} + a_{295} - \\
& a_{297} + a_{303} + a_{304} + a_{306} + 3a_{307} + a_{313} + \\
& a_{314} - a_{316} - a_{328} - a_{330} + a_{331} + a_{334} + \\
& a_{337} - a_{340} - a_{342} - a_{347} - a_{350}
\end{aligned}
$$

$$
a_{737} = \frac{a_{481} - \sqrt{a_{481}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_6 + a_3 - a_{10} - a_{11} + a_{12} - a_{20} + \\
& a_{21} - a_{22} + a_{23} - a_{37} - 2a_{39} + a_{41} + \\
& a_{43} - a_{44} - a_{46} - a_{47} + a_{101} - a_{105} + \\
& a_{106} - a_{107} - a_{117} + a_{118} - 2a_{119} - a_{124} + \\
& a_{125} - a_{126} - a_{63} + a_{226} - a_{229} + a_{233} - \\
& a_{234} + a_{240} + a_{244} - a_{246} - a_{253} + 2a_{254} - \\
& a_{137} - a_{139} + a_{143} + a_{145} - a_{149} - 2a_{151} + \\
& 2a_{155} + a_{157} - a_{159} - a_{482} + 2a_{485} + a_{486} - \\
& a_{500} + a_{501} + a_{255} + a_{256} + a_{259} + a_{263} + \\
& a_{265} + a_{267} + a_{269} + a_{270} - a_{271} - a_{273} + \\
& a_{276} + a_{277} + a_{279} + a_{282} - 2a_{283} - a_{284} - \\
& a_{286} + a_{287} + a_{291} - a_{293} + a_{294} + a_{296} - \\
& a_{298} + a_{304} + a_{305} + a_{307} + 3a_{308} + a_{314} + \\
& a_{315} - a_{317} - a_{329} - a_{331} + a_{332} + a_{335} + \\
& a_{338} - a_{341} - a_{343} - a_{348} - a_{351}
\end{aligned}
$$

$$
a_{738} = \frac{a_{482} - \sqrt{a_{482}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_3 + a_4 - a_{11} - a_{12} + a_{13} - a_{21} + \\
& a_{22} - a_{23} + a_{24} - a_{38} - 2a_{40} + a_{42} +
\end{aligned}
$$

$$
\begin{aligned}
& a_{44} - a_{45} - a_{47} - a_{48} + a_{102} - a_{106} + \\
& a_{107} - a_{108} - a_{118} + a_{119} - 2a_{120} - a_{125} + \\
& a_{126} - a_{63} - a_{64} + a_{227} - a_{230} + a_{234} - \\
& a_{235} + a_{241} + a_{245} - a_{247} - a_{254} + 2a_{127} - \\
& a_{138} - a_{140} + a_{144} + a_{146} - a_{150} - 2a_{152} + \\
& 2a_{156} + a_{158} - a_{160} - a_{483} + 2a_{486} + a_{487} - \\
& a_{501} + a_{502} + a_{256} + a_{257} + a_{260} + a_{264} + \\
& a_{266} + a_{268} + a_{270} + a_{271} - a_{272} - a_{274} + \\
& a_{277} + a_{278} + a_{280} + a_{283} - 2a_{284} - a_{285} - \\
& a_{287} + a_{288} + a_{292} - a_{294} + a_{295} + a_{297} - \\
& a_{299} + a_{305} + a_{306} + a_{308} + 3a_{309} + a_{315} + \\
& a_{316} - a_{318} - a_{330} - a_{332} + a_{333} + a_{336} + \\
& a_{339} - a_{342} - a_{344} - a_{349} - a_{352}
\end{aligned}
$$

$$
\begin{aligned}
a_{739} &= \frac{a_{483} - \sqrt{a_{483}^2 - 4x}}{2} \\
x &= a_4 + a_5 - a_{12} - a_{13} + a_{14} - a_{22} + \\
& a_{23} - a_{24} + a_{25} - a_{39} - 2a_{41} + a_{43} + \\
& a_{45} - a_{46} - a_{48} - a_{49} + a_{103} - a_{107} + \\
& a_{108} - a_{109} - a_{119} + a_{120} - 2a_{121} - a_{126} + \\
& a_{63} - a_{64} - a_{65} + a_{228} - a_{231} + a_{235} - \\
& a_{236} + a_{242} + a_{246} - a_{248} - a_{127} + 2a_{128} - \\
& a_{139} - a_{141} + a_{145} + a_{147} - a_{151} - 2a_{153} + \\
& 2a_{157} + a_{159} - a_{161} - a_{484} + 2a_{487} + a_{488} - \\
& a_{502} + a_{503} + a_{257} + a_{258} + a_{261} + a_{265} + \\
& a_{267} + a_{269} + a_{271} + a_{272} - a_{273} - a_{275} + \\
& a_{278} + a_{279} + a_{281} + a_{284} - 2a_{285} - a_{286} - \\
& a_{288} + a_{289} + a_{293} - a_{295} + a_{296} + a_{298} - \\
& a_{300} + a_{306} + a_{307} + a_{309} + 3a_{310} + a_{316} + \\
& a_{317} - a_{319} - a_{331} - a_{333} + a_{334} + a_{337} + \\
& a_{340} - a_{343} - a_{345} - a_{350} - a_{353}
\end{aligned}
$$

$$
\begin{aligned}
a_{740} &= \frac{a_{484} + \sqrt{a_{484}^2 - 4x}}{2} \\
x &= a_5 + a_6 - a_{13} - a_{14} + a_7 - a_{23} + \\
& a_{24} - a_{25} + a_{26} - a_{40} - 2a_{42} + a_{44} + \\
& a_{46} - a_{47} - a_{49} - a_{50} + a_{104} - a_{108} + \\
& a_{109} - a_{110} - a_{120} + a_{121} - 2a_{122} - a_{63} + \\
& a_{64} - a_{65} - a_{66} + a_{229} - a_{232} + a_{236} - \\
& a_{237} + a_{243} + a_{247} - a_{249} - a_{128} + 2a_{129} - \\
& a_{140} - a_{142} + a_{146} + a_{148} - a_{152} - 2a_{154} + \\
& 2a_{158} + a_{160} - a_{162} - a_{485} + 2a_{488} + a_{489} - \\
& a_{503} + a_{504} + a_{258} + a_{259} + a_{262} + a_{266} + \\
& a_{268} + a_{270} + a_{272} + a_{273} - a_{274} - a_{276} + \\
& a_{279} + a_{280} + a_{282} + a_{285} - 2a_{286} - a_{287} - \\
& a_{289} + a_{290} + a_{294} - a_{296} + a_{297} + a_{299} - \\
& a_{301} + a_{307} + a_{308} + a_{310} + 3a_{311} + a_{317} + \\
& a_{318} - a_{320} - a_{332} - a_{334} + a_{335} + a_{338} + \\
& a_{341} - a_{344} - a_{346} - a_{351} - a_{354}
\end{aligned}
$$

$$
\begin{aligned}
a_{741} &= \frac{a_{485} - \sqrt{a_{485}^2 - 4x}}{2} \\
x &= a_6 + a_3 - a_{14} - a_7 + a_8 - a_{24} + \\
& a_{25} - a_{26} + a_{27} - a_{41} - 2a_{43} + a_{45} + \\
& a_{47} - a_{48} - a_{50} - a_{51} + a_{105} - a_{109} + \\
& a_{110} - a_{111} - a_{121} + a_{122} - 2a_{123} - a_{64} + \\
& a_{65} - a_{66} - a_{67} + a_{230} - a_{233} + a_{237} - \\
& a_{238} + a_{244} + a_{248} - a_{250} - a_{129} + 2a_{130} - \\
& a_{141} - a_{143} + a_{147} + a_{149} - a_{153} - 2a_{155} + \\
& 2a_{159} + a_{161} - a_{163} - a_{486} + 2a_{489} + a_{490} - \\
& a_{504} + a_{505} + a_{259} + a_{260} + a_{263} + a_{267} + \\
& a_{269} + a_{271} + a_{273} + a_{274} - a_{275} - a_{277} + \\
& a_{280} + a_{281} + a_{283} + a_{286} - 2a_{287} - a_{288} - \\
& a_{290} + a_{291} + a_{295} - a_{297} + a_{298} + a_{300} - \\
& a_{302} + a_{308} + a_{309} + a_{311} + 3a_{312} + a_{318} + \\
& a_{319} - a_{321} - a_{333} - a_{335} + a_{336} + a_{339} + \\
& a_{342} - a_{345} - a_{347} - a_{352} - a_{355}
\end{aligned}
$$

$$
\begin{aligned}
a_{742} &= \frac{a_{486} + \sqrt{a_{486}^2 - 4x}}{2} \\
x &= a_3 + a_4 - a_7 - a_8 + a_9 - a_{25} + \\
& a_{26} - a_{27} + a_{28} - a_{42} - 2a_{44} + a_{46} + \\
& a_{48} - a_{49} - a_{51} - a_{52} + a_{106} - a_{110} + \\
& a_{111} - a_{112} - a_{122} + a_{123} - 2a_{124} - a_{65} + \\
& a_{66} - a_{67} - a_{68} + a_{231} - a_{234} + a_{238} - \\
& a_{239} + a_{245} + a_{249} - a_{251} - a_{130} + 2a_{131} - \\
& a_{142} - a_{144} + a_{148} + a_{150} - a_{154} - 2a_{156} + \\
& 2a_{160} + a_{162} - a_{164} - a_{487} + 2a_{490} + a_{491} - \\
& a_{505} + a_{506} + a_{260} + a_{261} + a_{264} + a_{268} + \\
& a_{270} + a_{272} + a_{274} + a_{275} - a_{276} - a_{278} + \\
& a_{281} + a_{282} + a_{284} + a_{287} - 2a_{288} - a_{289} - \\
& a_{291} + a_{292} + a_{296} - a_{298} + a_{299} + a_{301} - \\
& a_{303} + a_{309} + a_{310} + a_{312} + 3a_{313} + a_{319} + \\
& a_{320} - a_{322} - a_{334} - a_{336} + a_{337} + a_{340} + \\
& a_{343} - a_{346} - a_{348} - a_{353} - a_{356}
\end{aligned}
$$

$$
\begin{aligned}
a_{743} &= \frac{a_{487} - \sqrt{a_{487}^2 - 4x}}{2} \\
x &= a_4 + a_5 - a_8 - a_9 + a_{10} - a_{26} + \\
& a_{27} - a_{28} + a_{29} - a_{43} - 2a_{45} + a_{47} + \\
& a_{49} - a_{50} - a_{52} - a_{53} + a_{107} - a_{111} + \\
& a_{112} - a_{113} - a_{123} + a_{124} - 2a_{125} - a_{66} + \\
& a_{67} - a_{68} - a_{69} + a_{232} - a_{235} + a_{239} - \\
& a_{240} + a_{246} + a_{250} - a_{252} - a_{131} + 2a_{132} - \\
& a_{143} - a_{145} + a_{149} + a_{151} - a_{155} - 2a_{157} + \\
& 2a_{161} + a_{163} - a_{165} - a_{488} + 2a_{491} + a_{492} - \\
& a_{506} + a_{507} + a_{261} + a_{262} + a_{265} + a_{269} + \\
& a_{271} + a_{273} + a_{275} + a_{276} - a_{277} - a_{279} + \\
& a_{282} + a_{283} + a_{285} + a_{288} - 2a_{289} - a_{290} - \\
& a_{292} + a_{293} + a_{297} - a_{299} + a_{300} + a_{302} - \\
& a_{304} + a_{310} + a_{311} + a_{313} + 3a_{314} + a_{320} +
\end{aligned}
$$

$$
\begin{aligned}
& a_{321} - a_{323} - a_{335} - a_{337} + a_{338} + a_{341} + \\
& a_{344} - a_{347} - a_{349} - a_{354} - a_{357} \\
a_{744} &= \frac{a_{488} + \sqrt{a_{488}^2 - 4x}}{2} \\
x &= a_5 + a_6 - a_9 - a_{10} + a_{11} - a_{27} + \\
& a_{28} - a_{29} + a_{30} - a_{44} - 2a_{46} + a_{48} + \\
& a_{50} - a_{51} - a_{53} - a_{54} + a_{108} - a_{112} + \\
& a_{113} - a_{114} - a_{124} + a_{125} - 2a_{126} - a_{67} + \\
& a_{68} - a_{69} - a_{70} + a_{233} - a_{236} + a_{240} - \\
& a_{241} + a_{247} + a_{251} - a_{253} - a_{132} + 2a_{133} - \\
& a_{144} - a_{146} + a_{150} + a_{152} - a_{156} - 2a_{158} + \\
& 2a_{162} + a_{164} - a_{166} - a_{489} + 2a_{492} + a_{493} - \\
& a_{507} + a_{508} + a_{262} + a_{263} + a_{266} + a_{270} + \\
& a_{272} + a_{274} + a_{276} + a_{277} - a_{278} - a_{280} + \\
& a_{283} + a_{284} + a_{286} + a_{289} - 2a_{290} - a_{291} - \\
& a_{293} + a_{294} + a_{298} - a_{300} + a_{301} + a_{303} - \\
& a_{305} + a_{311} + a_{312} + a_{314} + 3a_{315} + a_{321} + \\
& a_{322} - a_{324} - a_{336} - a_{338} + a_{339} + a_{342} + \\
& a_{345} - a_{348} - a_{350} - a_{355} - a_{358} \\
a_{745} &= \frac{a_{489} + \sqrt{a_{489}^2 - 4x}}{2} \\
x &= a_6 + a_3 - a_{10} - a_{11} + a_{12} - a_{28} + \\
& a_{29} - a_{30} + a_{15} - a_{45} - 2a_{47} + a_{49} + \\
& a_{51} - a_{52} - a_{54} - a_{55} + a_{109} - a_{113} + \\
& a_{114} - a_{115} - a_{125} + a_{126} - 2a_{63} - a_{68} + \\
& a_{69} - a_{70} - a_{71} + a_{234} - a_{237} + a_{241} - \\
& a_{242} + a_{248} + a_{252} - a_{254} - a_{133} + 2a_{134} - \\
& a_{145} - a_{147} + a_{151} + a_{153} - a_{157} - 2a_{159} + \\
& 2a_{163} + a_{165} - a_{167} - a_{490} + 2a_{493} + a_{494} - \\
& a_{508} + a_{509} + a_{263} + a_{264} + a_{267} + a_{271} + \\
& a_{273} + a_{275} + a_{277} + a_{278} - a_{279} - a_{281} + \\
& a_{284} + a_{285} + a_{287} + a_{290} - 2a_{291} - a_{292} - \\
& a_{294} + a_{295} + a_{299} - a_{301} + a_{302} + a_{304} - \\
& a_{306} + a_{312} + a_{313} + a_{315} + 3a_{316} + a_{322} + \\
& a_{323} - a_{325} - a_{337} - a_{339} + a_{340} + a_{343} + \\
& a_{346} - a_{349} - a_{351} - a_{356} - a_{359} \\
a_{746} &= \frac{a_{490} + \sqrt{a_{490}^2 - 4x}}{2} \\
x &= a_3 + a_4 - a_{11} - a_{12} + a_{13} - a_{29} + \\
& a_{30} - a_{15} + a_{16} - a_{46} - 2a_{48} + a_{50} + \\
& a_{52} - a_{53} - a_{55} - a_{56} + a_{110} - a_{114} + \\
& a_{115} - a_{116} - a_{126} + a_{63} - 2a_{64} - a_{69} + \\
& a_{70} - a_{71} - a_{72} + a_{235} - a_{238} + a_{242} - \\
& a_{243} + a_{249} + a_{253} - a_{127} - a_{134} + 2a_{135} - \\
& a_{146} - a_{148} + a_{152} + a_{154} - a_{158} - 2a_{160} + \\
& 2a_{164} + a_{166} - a_{168} - a_{491} + 2a_{494} + a_{495} - \\
& a_{509} + a_{510} + a_{264} + a_{265} + a_{268} + a_{272} + \\
& a_{274} + a_{276} + a_{278} + a_{279} - a_{280} - a_{282} + \\
& a_{285} + a_{286} + a_{288} + a_{291} - 2a_{292} - a_{293} - \\
& a_{295} + a_{296} + a_{300} - a_{302} + a_{303} + a_{305} - \\
& a_{307} + a_{313} + a_{314} + a_{316} + 3a_{317} + a_{323} + \\
& a_{324} - a_{326} - a_{338} - a_{340} + a_{341} + a_{344} + \\
& a_{347} - a_{350} - a_{352} - a_{357} - a_{360} \\
a_{747} &= \frac{a_{491} + \sqrt{a_{491}^2 - 4x}}{2} \\
x &= a_4 + a_5 - a_{12} - a_{13} + a_{14} - a_{30} + \\
& a_{15} - a_{16} + a_{17} - a_{47} - 2a_{49} + a_{51} + \\
& a_{53} - a_{54} - a_{56} - a_{57} + a_{111} - a_{115} + \\
& a_{116} - a_{117} - a_{63} + a_{64} - 2a_{65} - a_{70} + \\
& a_{71} - a_{72} - a_{73} + a_{236} - a_{239} + a_{243} - \\
& a_{244} + a_{250} + a_{254} - a_{128} - a_{135} + 2a_{136} - \\
& a_{147} - a_{149} + a_{153} + a_{155} - a_{159} - 2a_{161} + \\
& 2a_{165} + a_{167} - a_{169} - a_{492} + 2a_{495} + a_{496} - \\
& a_{510} + a_{255} + a_{265} + a_{266} + a_{269} + a_{273} + \\
& a_{275} + a_{277} + a_{279} + a_{280} - a_{281} - a_{283} + \\
& a_{286} + a_{287} + a_{289} + a_{292} - 2a_{293} - a_{294} - \\
& a_{296} + a_{297} + a_{301} - a_{303} + a_{304} + a_{306} - \\
& a_{308} + a_{314} + a_{315} + a_{317} + 3a_{318} + a_{324} + \\
& a_{325} - a_{327} - a_{339} - a_{341} + a_{342} + a_{345} + \\
& a_{348} - a_{351} - a_{353} - a_{358} - a_{361} \\
a_{748} &= \frac{a_{492} + \sqrt{a_{492}^2 - 4x}}{2} \\
x &= a_5 + a_6 - a_{13} - a_{14} + a_7 - a_{15} + \\
& a_{16} - a_{17} + a_{18} - a_{48} - 2a_{50} + a_{52} + \\
& a_{54} - a_{55} - a_{57} - a_{58} + a_{112} - a_{116} + \\
& a_{117} - a_{118} - a_{64} + a_{65} - 2a_{66} - a_{71} + \\
& a_{72} - a_{73} - a_{74} + a_{237} - a_{240} + a_{244} - \\
& a_{245} + a_{251} + a_{127} - a_{129} - a_{136} + 2a_{137} - \\
& a_{148} - a_{150} + a_{154} + a_{156} - a_{160} - 2a_{162} + \\
& 2a_{166} + a_{168} - a_{170} - a_{493} + 2a_{496} + a_{497} - \\
& a_{255} + a_{256} + a_{266} + a_{267} + a_{270} + a_{274} + \\
& a_{276} + a_{278} + a_{280} + a_{281} - a_{282} - a_{284} + \\
& a_{287} + a_{288} + a_{290} + a_{293} - 2a_{294} - a_{295} - \\
& a_{297} + a_{298} + a_{302} - a_{304} + a_{305} + a_{307} - \\
& a_{309} + a_{315} + a_{316} + a_{318} + 3a_{319} + a_{325} + \\
& a_{326} - a_{328} - a_{340} - a_{342} + a_{343} + a_{346} + \\
& a_{349} - a_{352} - a_{354} - a_{359} - a_{362} \\
a_{749} &= \frac{a_{493} - \sqrt{a_{493}^2 - 4x}}{2} \\
x &= a_6 + a_3 - a_{14} - a_7 + a_8 - a_{16} + \\
& a_{17} - a_{18} + a_{19} - a_{49} - 2a_{51} + a_{53} + \\
& a_{55} - a_{56} - a_{58} - a_{59} + a_{113} - a_{117} + \\
& a_{118} - a_{119} - a_{65} + a_{66} - 2a_{67} - a_{72} + \\
& a_{73} - a_{74} - a_{75} + a_{238} - a_{241} + a_{245} - \\
& a_{246} + a_{252} + a_{128} - a_{130} - a_{137} + 2a_{138} - \\
& a_{149} - a_{151} + a_{155} + a_{157} - a_{161} - 2a_{163} + \\
& 2a_{167} + a_{169} - a_{171} - a_{494} + 2a_{497} + a_{498} - \\
& a_{256} + a_{257} + a_{267} + a_{268} + a_{271} + a_{275} +
\end{aligned}
$$

$$
\begin{aligned}
& a_{277} + a_{279} + a_{281} + a_{282} - a_{283} - a_{285} + \\
& a_{288} + a_{289} + a_{291} + a_{294} - 2a_{295} - a_{296} - \\
& a_{298} + a_{299} + a_{303} - a_{305} + a_{306} + a_{308} - \\
& a_{310} + a_{316} + a_{317} + a_{319} + 3a_{320} + a_{326} + \\
& a_{327} - a_{329} - a_{341} - a_{343} + a_{344} + a_{347} + \\
& a_{350} - a_{353} - a_{355} - a_{360} - a_{363}
\end{aligned}
$$

$$
\begin{aligned}
a_{750} &= \frac{a_{494} + \sqrt{a_{494}^2 - 4x}}{2} \\
x &= a_3 + a_4 - a_7 - a_8 + a_9 - a_{17} + \\
& a_{18} - a_{19} + a_{20} - a_{50} - 2a_{52} + a_{54} + \\
& a_{56} - a_{57} - a_{59} - a_{60} + a_{114} - a_{118} + \\
& a_{119} - a_{120} - a_{66} + a_{67} - 2a_{68} - a_{73} + \\
& a_{74} - a_{75} - a_{76} + a_{239} - a_{242} + a_{246} - \\
& a_{247} + a_{253} + a_{129} - a_{131} - a_{138} + 2a_{139} - \\
& a_{150} - a_{152} + a_{156} + a_{158} - a_{162} - 2a_{164} + \\
& 2a_{168} + a_{170} - a_{172} - a_{495} + 2a_{498} + a_{499} - \\
& a_{257} + a_{258} + a_{268} + a_{269} + a_{272} + a_{276} + \\
& a_{278} + a_{280} + a_{282} + a_{283} - a_{284} - a_{286} + \\
& a_{289} + a_{290} + a_{292} + a_{295} - 2a_{296} - a_{297} - \\
& a_{299} + a_{300} + a_{304} - a_{306} + a_{307} + a_{309} - \\
& a_{311} + a_{317} + a_{318} + a_{320} + 3a_{321} + a_{327} + \\
& a_{328} - a_{330} - a_{342} - a_{344} + a_{345} + a_{348} + \\
& a_{351} - a_{354} - a_{356} - a_{361} - a_{364}
\end{aligned}
$$

$$
\begin{aligned}
a_{751} &= \frac{a_{495} + \sqrt{a_{495}^2 - 4x}}{2} \\
x &= a_4 + a_5 - a_8 - a_9 + a_{10} - a_{18} + \\
& a_{19} - a_{20} + a_{21} - a_{51} - 2a_{53} + a_{55} + \\
& a_{57} - a_{58} - a_{60} - a_{61} + a_{115} - a_{119} + \\
& a_{120} - a_{121} - a_{67} + a_{68} - 2a_{69} - a_{74} + \\
& a_{75} - a_{76} - a_{77} + a_{240} - a_{243} + a_{247} - \\
& a_{248} + a_{254} + a_{130} - a_{132} - a_{139} + 2a_{140} - \\
& a_{151} - a_{153} + a_{157} + a_{159} - a_{163} - 2a_{165} + \\
& 2a_{169} + a_{171} - a_{173} - a_{496} + 2a_{499} + a_{500} - \\
& a_{258} + a_{259} + a_{269} + a_{270} + a_{273} + a_{277} + \\
& a_{279} + a_{281} + a_{283} + a_{284} - a_{285} - a_{287} + \\
& a_{290} + a_{291} + a_{293} + a_{296} - 2a_{297} - a_{298} - \\
& a_{300} + a_{301} + a_{305} - a_{307} + a_{308} + a_{310} - \\
& a_{312} + a_{318} + a_{319} + a_{321} + 3a_{322} + a_{328} + \\
& a_{329} - a_{331} - a_{343} - a_{345} + a_{346} + a_{349} + \\
& a_{352} - a_{355} - a_{357} - a_{362} - a_{365}
\end{aligned}
$$

$$
\begin{aligned}
a_{752} &= \frac{a_{496} + \sqrt{a_{496}^2 - 4x}}{2} \\
x &= a_5 + a_6 - a_9 - a_{10} + a_{11} - a_{19} + \\
& a_{20} - a_{21} + a_{22} - a_{52} - 2a_{54} + a_{56} + \\
& a_{58} - a_{59} - a_{61} - a_{62} + a_{116} - a_{120} + \\
& a_{121} - a_{122} - a_{68} + a_{69} - 2a_{70} - a_{75} + \\
& a_{76} - a_{77} - a_{78} + a_{241} - a_{244} + a_{248} - \\
& a_{249} + a_{127} + a_{131} - a_{133} - a_{140} + 2a_{141} - \\
& a_{152} - a_{154} + a_{158} + a_{160} - a_{164} - 2a_{166} + \\
& 2a_{170} + a_{172} - a_{174} - a_{497} + 2a_{500} + a_{501} - \\
& a_{259} + a_{260} + a_{270} + a_{271} + a_{274} + a_{278} + \\
& a_{280} + a_{282} + a_{284} + a_{285} - a_{286} - a_{288} + \\
& a_{291} + a_{292} + a_{294} + a_{297} - 2a_{298} - a_{299} - \\
& a_{301} + a_{302} + a_{306} - a_{308} + a_{309} + a_{311} - \\
& a_{313} + a_{319} + a_{320} + a_{322} + 3a_{323} + a_{329} + \\
& a_{330} - a_{332} - a_{344} - a_{346} + a_{347} + a_{350} + \\
& a_{353} - a_{356} - a_{358} - a_{363} - a_{366}
\end{aligned}
$$

$$
\begin{aligned}
a_{753} &= \frac{a_{497} - \sqrt{a_{497}^2 - 4x}}{2} \\
x &= a_6 + a_3 - a_{10} - a_{11} + a_{12} - a_{20} + \\
& a_{21} - a_{22} + a_{23} - a_{53} - 2a_{55} + a_{57} + \\
& a_{59} - a_{60} - a_{62} - a_{31} + a_{117} - a_{121} + \\
& a_{122} - a_{123} - a_{69} + a_{70} - 2a_{71} - a_{76} + \\
& a_{77} - a_{78} - a_{79} + a_{242} - a_{245} + a_{249} - \\
& a_{250} + a_{128} + a_{132} - a_{134} - a_{141} + 2a_{142} - \\
& a_{153} - a_{155} + a_{159} + a_{161} - a_{165} - 2a_{167} + \\
& 2a_{171} + a_{173} - a_{175} - a_{498} + 2a_{501} + a_{502} - \\
& a_{260} + a_{261} + a_{271} + a_{272} + a_{275} + a_{279} + \\
& a_{281} + a_{283} + a_{285} + a_{286} - a_{287} - a_{289} + \\
& a_{292} + a_{293} + a_{295} + a_{298} - 2a_{299} - a_{300} - \\
& a_{302} + a_{303} + a_{307} - a_{309} + a_{310} + a_{312} - \\
& a_{314} + a_{320} + a_{321} + a_{323} + 3a_{324} + a_{330} + \\
& a_{331} - a_{333} - a_{345} - a_{347} + a_{348} + a_{351} + \\
& a_{354} - a_{357} - a_{359} - a_{364} - a_{367}
\end{aligned}
$$

$$
\begin{aligned}
a_{754} &= \frac{a_{498} + \sqrt{a_{498}^2 - 4x}}{2} \\
x &= a_3 + a_4 - a_{11} - a_{12} + a_{13} - a_{21} + \\
& a_{22} - a_{23} + a_{24} - a_{54} - 2a_{56} + a_{58} + \\
& a_{60} - a_{61} - a_{31} - a_{32} + a_{118} - a_{122} + \\
& a_{123} - a_{124} - a_{70} + a_{71} - 2a_{72} - a_{77} + \\
& a_{78} - a_{79} - a_{80} + a_{243} - a_{246} + a_{250} - \\
& a_{251} + a_{129} + a_{133} - a_{135} - a_{142} + 2a_{143} - \\
& a_{154} - a_{156} + a_{160} + a_{162} - a_{166} - 2a_{168} + \\
& 2a_{172} + a_{174} - a_{176} - a_{499} + 2a_{502} + a_{503} - \\
& a_{261} + a_{262} + a_{272} + a_{273} + a_{276} + a_{280} + \\
& a_{282} + a_{284} + a_{286} + a_{287} - a_{288} - a_{290} + \\
& a_{293} + a_{294} + a_{296} + a_{299} - 2a_{300} - a_{301} - \\
& a_{303} + a_{304} + a_{308} - a_{310} + a_{311} + a_{313} - \\
& a_{315} + a_{321} + a_{322} + a_{324} + 3a_{325} + a_{331} + \\
& a_{332} - a_{334} - a_{346} - a_{348} + a_{349} + a_{352} + \\
& a_{355} - a_{358} - a_{360} - a_{365} - a_{368}
\end{aligned}
$$

$$
\begin{aligned}
a_{755} &= \frac{a_{499} + \sqrt{a_{499}^2 - 4x}}{2} \\
x &= a_4 + a_5 - a_{12} - a_{13} + a_{14} - a_{22} + \\
& a_{23} - a_{24} + a_{25} - a_{55} - 2a_{57} + a_{59} + \\
& a_{61} - a_{62} - a_{32} - a_{33} + a_{119} - a_{123} + \\
& a_{124} - a_{125} - a_{71} + a_{72} - 2a_{73} - a_{78} +
\end{aligned}
$$

$$
\begin{aligned}
& a_{79} - a_{80} - a_{81} + a_{244} - a_{247} + a_{251} - \\
& a_{252} + a_{130} + a_{134} - a_{136} - a_{143} + 2a_{144} - \\
& a_{155} - a_{157} + a_{161} + a_{163} - a_{167} - 2a_{169} + \\
& 2a_{173} + a_{175} - a_{177} - a_{500} + 2a_{503} + a_{504} - \\
& a_{262} + a_{263} + a_{273} + a_{274} + a_{277} + a_{281} + \\
& a_{283} + a_{285} + a_{287} + a_{288} - a_{289} - a_{291} + \\
& a_{294} + a_{295} + a_{297} + a_{300} - 2a_{301} - a_{302} - \\
& a_{304} + a_{305} + a_{309} - a_{311} + a_{312} + a_{314} - \\
& a_{316} + a_{322} + a_{323} + a_{325} + 3a_{326} + a_{332} + \\
& a_{333} - a_{335} - a_{347} - a_{349} + a_{350} + a_{353} + \\
& a_{356} - a_{359} - a_{361} - a_{366} - a_{369}
\end{aligned}
$$

$$
a_{756} = \frac{a_{500} - \sqrt{a_{500}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_5 + a_6 - a_{13} - a_{14} + a_7 - a_{23} + \\
& a_{24} - a_{25} + a_{26} - a_{56} - 2a_{58} + a_{60} + \\
& a_{62} - a_{31} - a_{33} - a_{34} + a_{120} - a_{124} + \\
& a_{125} - a_{126} - a_{72} + a_{73} - 2a_{74} - a_{79} + \\
& a_{80} - a_{81} - a_{82} + a_{245} - a_{248} + a_{252} - \\
& a_{253} + a_{131} + a_{135} - a_{137} - a_{144} + 2a_{145} - \\
& a_{156} - a_{158} + a_{162} + a_{164} - a_{168} - 2a_{170} + \\
& 2a_{174} + a_{176} - a_{178} - a_{501} + 2a_{504} + a_{505} - \\
& a_{263} + a_{264} + a_{274} + a_{275} + a_{278} + a_{282} + \\
& a_{284} + a_{286} + a_{288} + a_{289} - a_{290} - a_{292} + \\
& a_{295} + a_{296} + a_{298} + a_{301} - 2a_{302} - a_{303} - \\
& a_{305} + a_{306} + a_{310} - a_{312} + a_{313} + a_{315} - \\
& a_{317} + a_{323} + a_{324} + a_{326} + 3a_{327} + a_{333} + \\
& a_{334} - a_{336} - a_{348} - a_{350} + a_{351} + a_{354} + \\
& a_{357} - a_{360} - a_{362} - a_{367} - a_{370}
\end{aligned}
$$

$$
a_{757} = \frac{a_{501} - \sqrt{a_{501}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_6 + a_3 - a_{14} - a_7 + a_8 - a_{24} + \\
& a_{25} - a_{26} + a_{27} - a_{57} - 2a_{59} + a_{61} + \\
& a_{31} - a_{32} - a_{34} - a_{35} + a_{121} - a_{125} + \\
& a_{126} - a_{63} - a_{73} + a_{74} - 2a_{75} - a_{80} + \\
& a_{81} - a_{82} - a_{83} + a_{246} - a_{249} + a_{253} - \\
& a_{254} + a_{132} + a_{136} - a_{138} - a_{145} + 2a_{146} - \\
& a_{157} - a_{159} + a_{163} + a_{165} - a_{169} - 2a_{171} + \\
& 2a_{175} + a_{177} - a_{179} - a_{502} + 2a_{505} + a_{506} - \\
& a_{264} + a_{265} + a_{275} + a_{276} + a_{279} + a_{283} + \\
& a_{285} + a_{287} + a_{289} + a_{290} - a_{291} - a_{293} + \\
& a_{296} + a_{297} + a_{299} + a_{302} - 2a_{303} - a_{304} - \\
& a_{306} + a_{307} + a_{311} - a_{313} + a_{314} + a_{316} - \\
& a_{318} + a_{324} + a_{325} + a_{327} + 3a_{328} + a_{334} + \\
& a_{335} - a_{337} - a_{349} - a_{351} + a_{352} + a_{355} + \\
& a_{358} - a_{361} - a_{363} - a_{368} - a_{371}
\end{aligned}
$$

$$
a_{758} = \frac{a_{502} - \sqrt{a_{502}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_3 + a_4 - a_7 - a_8 + a_9 - a_{25} + \\
& a_{26} - a_{27} + a_{28} - a_{58} - 2a_{60} + a_{62} + \\
& a_{32} - a_{33} - a_{35} - a_{36} + a_{122} - a_{126} + \\
& a_{63} - a_{64} - a_{74} + a_{75} - 2a_{76} - a_{81} + \\
& a_{82} - a_{83} - a_{84} + a_{247} - a_{250} + a_{254} - \\
& a_{127} + a_{133} + a_{137} - a_{139} - a_{146} + 2a_{147} - \\
& a_{158} - a_{160} + a_{164} + a_{166} - a_{170} - 2a_{172} + \\
& 2a_{176} + a_{178} - a_{180} - a_{503} + 2a_{506} + a_{507} - \\
& a_{265} + a_{266} + a_{276} + a_{277} + a_{280} + a_{284} + \\
& a_{286} + a_{288} + a_{290} + a_{291} - a_{292} - a_{294} + \\
& a_{297} + a_{298} + a_{300} + a_{303} - 2a_{304} - a_{305} - \\
& a_{307} + a_{308} + a_{312} - a_{314} + a_{315} + a_{317} - \\
& a_{319} + a_{325} + a_{326} + a_{328} + 3a_{329} + a_{335} + \\
& a_{336} - a_{338} - a_{350} - a_{352} + a_{353} + a_{356} + \\
& a_{359} - a_{362} - a_{364} - a_{369} - a_{372}
\end{aligned}
$$

$$
a_{759} = \frac{a_{503} - \sqrt{a_{503}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_4 + a_5 - a_8 - a_9 + a_{10} - a_{26} + \\
& a_{27} - a_{28} + a_{29} - a_{59} - 2a_{61} + a_{31} + \\
& a_{33} - a_{34} - a_{36} - a_{37} + a_{123} - a_{63} + \\
& a_{64} - a_{65} - a_{75} + a_{76} - 2a_{77} - a_{82} + \\
& a_{83} - a_{84} - a_{85} + a_{248} - a_{251} + a_{127} - \\
& a_{128} + a_{134} + a_{138} - a_{140} - a_{147} + 2a_{148} - \\
& a_{159} - a_{161} + a_{165} + a_{167} - a_{171} - 2a_{173} + \\
& 2a_{177} + a_{179} - a_{181} - a_{504} + 2a_{507} + a_{508} - \\
& a_{266} + a_{267} + a_{277} + a_{278} + a_{281} + a_{285} + \\
& a_{287} + a_{289} + a_{291} + a_{292} - a_{293} - a_{295} + \\
& a_{298} + a_{299} + a_{301} + a_{304} - 2a_{305} - a_{306} - \\
& a_{308} + a_{309} + a_{313} - a_{315} + a_{316} + a_{318} - \\
& a_{320} + a_{326} + a_{327} + a_{329} + 3a_{330} + a_{336} + \\
& a_{337} - a_{339} - a_{351} - a_{353} + a_{354} + a_{357} + \\
& a_{360} - a_{363} - a_{365} - a_{370} - a_{373}
\end{aligned}
$$

$$
a_{760} = \frac{a_{504} - \sqrt{a_{504}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_5 + a_6 - a_9 - a_{10} + a_{11} - a_{27} + \\
& a_{28} - a_{29} + a_{30} - a_{60} - 2a_{62} + a_{32} + \\
& a_{34} - a_{35} - a_{37} - a_{38} + a_{124} - a_{64} + \\
& a_{65} - a_{66} - a_{76} + a_{77} - 2a_{78} - a_{83} + \\
& a_{84} - a_{85} - a_{86} + a_{249} - a_{252} + a_{128} - \\
& a_{129} + a_{135} + a_{139} - a_{141} - a_{148} + 2a_{149} - \\
& a_{160} - a_{162} + a_{166} + a_{168} - a_{172} - 2a_{174} + \\
& 2a_{178} + a_{180} - a_{182} - a_{505} + 2a_{508} + a_{509} - \\
& a_{267} + a_{268} + a_{278} + a_{279} + a_{282} + a_{286} + \\
& a_{288} + a_{290} + a_{292} + a_{293} - a_{294} - a_{296} + \\
& a_{299} + a_{300} + a_{302} + a_{305} - 2a_{306} - a_{307} - \\
& a_{309} + a_{310} + a_{314} - a_{316} + a_{317} + a_{319} - \\
& a_{321} + a_{327} + a_{328} + a_{330} + 3a_{331} + a_{337} + \\
& a_{338} - a_{340} - a_{352} - a_{354} + a_{355} + a_{358} + \\
& a_{361} - a_{364} - a_{366} - a_{371} - a_{374}
\end{aligned}
$$

$$
\begin{aligned}
a_{761} &= \frac{a_{505}-\sqrt{a_{505}^2-4x}}{2}\\
x &= a_6+a_3-a_{10}-a_{11}+a_{12}-a_{28}+\\
&\quad a_{29}-a_{30}+a_{15}-a_{61}-2a_{31}+a_{33}+\\
&\quad a_{35}-a_{36}-a_{38}-a_{39}+a_{125}-a_{65}+\\
&\quad a_{66}-a_{67}-a_{77}+a_{78}-2a_{79}-a_{84}+\\
&\quad a_{85}-a_{86}-a_{87}+a_{250}-a_{253}+a_{129}-\\
&\quad a_{130}+a_{136}+a_{140}-a_{142}-a_{149}+2a_{150}-\\
&\quad a_{161}-a_{163}+a_{167}+a_{169}-a_{173}-2a_{175}+\\
&\quad 2a_{179}+a_{181}-a_{183}-a_{506}+2a_{509}+a_{510}-\\
&\quad a_{268}+a_{269}+a_{279}+a_{280}+a_{283}+a_{287}+\\
&\quad a_{289}+a_{291}+a_{293}+a_{294}-a_{295}-a_{297}+\\
&\quad a_{300}+a_{301}+a_{303}+a_{306}-2a_{307}-a_{308}-\\
&\quad a_{310}+a_{311}+a_{315}-a_{317}+a_{318}+a_{320}-\\
&\quad a_{322}+a_{328}+a_{329}+a_{331}+3a_{332}+a_{338}+\\
&\quad a_{339}-a_{341}-a_{353}-a_{355}+a_{356}+a_{359}+\\
&\quad a_{362}-a_{365}-a_{367}-a_{372}-a_{375}\\
a_{762} &= \frac{a_{506}-\sqrt{a_{506}^2-4x}}{2}\\
x &= a_3+a_4-a_{11}-a_{12}+a_{13}-a_{29}+\\
&\quad a_{30}-a_{15}+a_{16}-a_{62}-2a_{32}+a_{34}+\\
&\quad a_{36}-a_{37}-a_{39}-a_{40}+a_{126}-a_{66}+\\
&\quad a_{67}-a_{68}-a_{78}+a_{79}-2a_{80}-a_{85}+\\
&\quad a_{86}-a_{87}-a_{88}+a_{251}-a_{254}+a_{130}-\\
&\quad a_{131}+a_{137}+a_{141}-a_{143}-a_{150}+2a_{151}-\\
&\quad a_{162}-a_{164}+a_{168}+a_{170}-a_{174}-2a_{176}+\\
&\quad 2a_{180}+a_{182}-a_{184}-a_{507}+2a_{510}+a_{255}-\\
&\quad a_{269}+a_{270}+a_{280}+a_{281}+a_{284}+a_{288}+\\
&\quad a_{290}+a_{292}+a_{294}+a_{295}-a_{296}-a_{298}+\\
&\quad a_{301}+a_{302}+a_{304}+a_{307}-2a_{308}-a_{309}-\\
&\quad a_{311}+a_{312}+a_{316}-a_{318}+a_{319}+a_{321}-\\
&\quad a_{323}+a_{329}+a_{330}+a_{332}+3a_{333}+a_{339}+\\
&\quad a_{340}-a_{342}-a_{354}-a_{356}+a_{357}+a_{360}+\\
&\quad a_{363}-a_{366}-a_{368}-a_{373}-a_{376}\\
a_{763} &= \frac{a_{507}-\sqrt{a_{507}^2-4x}}{2}\\
x &= a_4+a_5-a_{12}-a_{13}+a_{14}-a_{30}+\\
&\quad a_{15}-a_{16}+a_{17}-a_{31}-2a_{33}+a_{35}+\\
&\quad a_{37}-a_{38}-a_{40}-a_{41}+a_{63}-a_{67}+\\
&\quad a_{68}-a_{69}-a_{79}+a_{80}-2a_{81}-a_{86}+\\
&\quad a_{87}-a_{88}-a_{89}+a_{252}-a_{127}+a_{131}-\\
&\quad a_{132}+a_{138}+a_{142}-a_{144}-a_{151}+2a_{152}-\\
&\quad a_{163}-a_{165}+a_{169}+a_{171}-a_{175}-2a_{177}+\\
&\quad 2a_{181}+a_{183}-a_{185}-a_{508}+2a_{255}+a_{256}-\\
&\quad a_{270}+a_{271}+a_{281}+a_{282}+a_{285}+a_{289}+\\
&\quad a_{291}+a_{293}+a_{295}+a_{296}-a_{297}-a_{299}+\\
&\quad a_{302}+a_{303}+a_{305}+a_{308}-2a_{309}-a_{310}-\\
&\quad a_{312}+a_{313}+a_{317}-a_{319}+a_{320}+a_{322}-\\
&\quad a_{324}+a_{330}+a_{331}+a_{333}+3a_{334}+a_{340}+\\
&\quad a_{341}-a_{343}-a_{355}-a_{357}+a_{358}+a_{361}+\\
&\quad a_{364}-a_{367}-a_{369}-a_{374}-a_{377}\\
a_{764} &= \frac{a_{508}+\sqrt{a_{508}^2-4x}}{2}\\
x &= a_5+a_6-a_{13}-a_{14}+a_7-a_{15}+\\
&\quad a_{16}-a_{17}+a_{18}-a_{32}-2a_{34}+a_{36}+\\
&\quad a_{38}-a_{39}-a_{41}-a_{42}+a_{64}-a_{68}+\\
&\quad a_{69}-a_{70}-a_{80}+a_{81}-2a_{82}-a_{87}+\\
&\quad a_{88}-a_{89}-a_{90}+a_{253}-a_{128}+a_{132}-\\
&\quad a_{133}+a_{139}+a_{143}-a_{145}-a_{152}+2a_{153}-\\
&\quad a_{164}-a_{166}+a_{170}+a_{172}-a_{176}-2a_{178}+\\
&\quad 2a_{182}+a_{184}-a_{186}-a_{509}+2a_{256}+a_{257}-\\
&\quad a_{271}+a_{272}+a_{282}+a_{283}+a_{286}+a_{290}+\\
&\quad a_{292}+a_{294}+a_{296}+a_{297}-a_{298}-a_{300}+\\
&\quad a_{303}+a_{304}+a_{306}+a_{309}-2a_{310}-a_{311}-\\
&\quad a_{313}+a_{314}+a_{318}-a_{320}+a_{321}+a_{323}-\\
&\quad a_{325}+a_{331}+a_{332}+a_{334}+3a_{335}+a_{341}+\\
&\quad a_{342}-a_{344}-a_{356}-a_{358}+a_{359}+a_{362}+\\
&\quad a_{365}-a_{368}-a_{370}-a_{375}-a_{378}\\
a_{765} &= \frac{a_{509}+\sqrt{a_{509}^2-4x}}{2}\\
x &= a_6+a_3-a_{14}-a_7+a_8-a_{16}+\\
&\quad a_{17}-a_{18}+a_{19}-a_{33}-2a_{35}+a_{37}+\\
&\quad a_{39}-a_{40}-a_{42}-a_{43}+a_{65}-a_{69}+\\
&\quad a_{70}-a_{71}-a_{81}+a_{82}-2a_{83}-a_{88}+\\
&\quad a_{89}-a_{90}-a_{91}+a_{254}-a_{129}+a_{133}-\\
&\quad a_{134}+a_{140}+a_{144}-a_{146}-a_{153}+2a_{154}-\\
&\quad a_{165}-a_{167}+a_{171}+a_{173}-a_{177}-2a_{179}+\\
&\quad 2a_{183}+a_{185}-a_{187}-a_{510}+2a_{257}+a_{258}-\\
&\quad a_{272}+a_{273}+a_{283}+a_{284}+a_{287}+a_{291}+\\
&\quad a_{293}+a_{295}+a_{297}+a_{298}-a_{299}-a_{301}+\\
&\quad a_{304}+a_{305}+a_{307}+a_{310}-2a_{311}-a_{312}-\\
&\quad a_{314}+a_{315}+a_{319}-a_{321}+a_{322}+a_{324}-\\
&\quad a_{326}+a_{332}+a_{333}+a_{335}+3a_{336}+a_{342}+\\
&\quad a_{343}-a_{345}-a_{357}-a_{359}+a_{360}+a_{363}+\\
&\quad a_{366}-a_{369}-a_{371}-a_{376}-a_{379}\\
a_{766} &= \frac{a_{510}+\sqrt{a_{510}^2-4x}}{2}\\
x &= a_3+a_4-a_7-a_8+a_9-a_{17}+\\
&\quad a_{18}-a_{19}+a_{20}-a_{34}-2a_{36}+a_{38}+\\
&\quad a_{40}-a_{41}-a_{43}-a_{44}+a_{66}-a_{70}+\\
&\quad a_{71}-a_{72}-a_{82}+a_{83}-2a_{84}-a_{89}+\\
&\quad a_{90}-a_{91}-a_{92}+a_{127}-a_{130}+a_{134}-\\
&\quad a_{135}+a_{141}+a_{145}-a_{147}-a_{154}+2a_{155}-\\
&\quad a_{166}-a_{168}+a_{172}+a_{174}-a_{178}-2a_{180}+\\
&\quad 2a_{184}+a_{186}-a_{188}-a_{255}+2a_{258}+a_{259}-\\
&\quad a_{273}+a_{274}+a_{284}+a_{285}+a_{288}+a_{292}+\\
&\quad a_{294}+a_{296}+a_{298}+a_{299}-a_{300}-a_{302}+\\
&\quad a_{305}+a_{306}+a_{308}+a_{311}-2a_{312}-a_{313}-
\end{aligned}
$$

$$
\begin{aligned}
& a_{315} + a_{316} + a_{320} - a_{322} + a_{323} + a_{325} - \\
& a_{327} + a_{333} + a_{334} + a_{336} + 3a_{337} + a_{343} + \\
& a_{344} - a_{346} - a_{358} - a_{360} + a_{361} + a_{364} + \\
& a_{367} - a_{370} - a_{372} - a_{377} - a_{380}
\end{aligned}
$$

$$
a_{767} = \frac{a_{255} - \sqrt{a_{255}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_4 + a_5 - a_8 - a_9 + a_{10} - a_{18} + \\
& a_{19} - a_{20} + a_{21} - a_{35} - 2a_{37} + a_{39} + \\
& a_{41} - a_{42} - a_{44} - a_{45} + a_{67} - a_{71} + \\
& a_{72} - a_{73} - a_{83} + a_{84} - 2a_{85} - a_{90} + \\
& a_{91} - a_{92} - a_{93} + a_{128} - a_{131} + a_{135} - \\
& a_{136} + a_{142} + a_{146} - a_{148} - a_{155} + 2a_{156} - \\
& a_{167} - a_{169} + a_{173} + a_{175} - a_{179} - 2a_{181} + \\
& 2a_{185} + a_{187} - a_{189} - a_{256} + 2a_{259} + a_{260} - \\
& a_{274} + a_{275} + a_{285} + a_{286} + a_{289} + a_{293} + \\
& a_{295} + a_{297} + a_{299} + a_{300} - a_{301} - a_{303} + \\
& a_{306} + a_{307} + a_{309} + a_{312} - 2a_{313} - a_{314} - \\
& a_{316} + a_{317} + a_{321} - a_{323} + a_{324} + a_{326} - \\
& a_{328} + a_{334} + a_{335} + a_{337} + 3a_{338} + a_{344} + \\
& a_{345} - a_{347} - a_{359} - a_{361} + a_{362} + a_{365} + \\
& a_{368} - a_{371} - a_{373} - a_{378} - a_{381}
\end{aligned}
$$

$$
a_{768} = \frac{a_{256} - \sqrt{a_{256}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_5 + a_6 - a_9 - a_{10} + a_{11} - a_{19} + \\
& a_{20} - a_{21} + a_{22} - a_{36} - 2a_{38} + a_{40} + \\
& a_{42} - a_{43} - a_{45} - a_{46} + a_{68} - a_{72} + \\
& a_{73} - a_{74} - a_{84} + a_{85} - 2a_{86} - a_{91} + \\
& a_{92} - a_{93} - a_{94} + a_{129} - a_{132} + a_{136} - \\
& a_{137} + a_{143} + a_{147} - a_{149} - a_{156} + 2a_{157} - \\
& a_{168} - a_{170} + a_{174} + a_{176} - a_{180} - 2a_{182} + \\
& 2a_{186} + a_{188} - a_{190} - a_{257} + 2a_{260} + a_{261} - \\
& a_{275} + a_{276} + a_{286} + a_{287} + a_{290} + a_{294} + \\
& a_{296} + a_{298} + a_{300} + a_{301} - a_{302} - a_{304} + \\
& a_{307} + a_{308} + a_{310} + a_{313} - 2a_{314} - a_{315} - \\
& a_{317} + a_{318} + a_{322} - a_{324} + a_{325} + a_{327} - \\
& a_{329} + a_{335} + a_{336} + a_{338} + 3a_{339} + a_{345} + \\
& a_{346} - a_{348} - a_{360} - a_{362} + a_{363} + a_{366} + \\
& a_{369} - a_{372} - a_{374} - a_{379} - a_{382}
\end{aligned}
$$

$$
a_{769} = \frac{a_{257} + \sqrt{a_{257}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_6 + a_3 - a_{10} - a_{11} + a_{12} - a_{20} + \\
& a_{21} - a_{22} + a_{23} - a_{37} - 2a_{39} + a_{41} + \\
& a_{43} - a_{44} - a_{46} - a_{47} + a_{69} - a_{73} + \\
& a_{74} - a_{75} - a_{85} + a_{86} - 2a_{87} - a_{92} + \\
& a_{93} - a_{94} - a_{95} + a_{130} - a_{133} + a_{137} - \\
& a_{138} + a_{144} + a_{148} - a_{150} - a_{157} + 2a_{158} - \\
& a_{169} - a_{171} + a_{175} + a_{177} - a_{181} - 2a_{183} + \\
& 2a_{187} + a_{189} - a_{191} - a_{258} + 2a_{261} + a_{262} - \\
& a_{276} + a_{277} + a_{287} + a_{288} + a_{291} + a_{295} + \\
& a_{297} + a_{299} + a_{301} + a_{302} - a_{303} - a_{305} + \\
& a_{308} + a_{309} + a_{311} + a_{314} - 2a_{315} - a_{316} - \\
& a_{318} + a_{319} + a_{323} - a_{325} + a_{326} + a_{328} - \\
& a_{330} + a_{336} + a_{337} + a_{339} + 3a_{340} + a_{346} + \\
& a_{347} - a_{349} - a_{361} - a_{363} + a_{364} + a_{367} + \\
& a_{370} - a_{373} - a_{375} - a_{380} - a_{383}
\end{aligned}
$$

$$
a_{770} = \frac{a_{258} + \sqrt{a_{258}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_3 + a_4 - a_{11} - a_{12} + a_{13} - a_{21} + \\
& a_{22} - a_{23} + a_{24} - a_{38} - 2a_{40} + a_{42} + \\
& a_{44} - a_{45} - a_{47} - a_{48} + a_{70} - a_{74} + \\
& a_{75} - a_{76} - a_{86} + a_{87} - 2a_{88} - a_{93} + \\
& a_{94} - a_{95} - a_{96} + a_{131} - a_{134} + a_{138} - \\
& a_{139} + a_{145} + a_{149} - a_{151} - a_{158} + 2a_{159} - \\
& a_{170} - a_{172} + a_{176} + a_{178} - a_{182} - 2a_{184} + \\
& 2a_{188} + a_{190} - a_{192} - a_{259} + 2a_{262} + a_{263} - \\
& a_{277} + a_{278} + a_{288} + a_{289} + a_{292} + a_{296} + \\
& a_{298} + a_{300} + a_{302} + a_{303} - a_{304} - a_{306} + \\
& a_{309} + a_{310} + a_{312} + a_{315} - 2a_{316} - a_{317} - \\
& a_{319} + a_{320} + a_{324} - a_{326} + a_{327} + a_{329} - \\
& a_{331} + a_{337} + a_{338} + a_{340} + 3a_{341} + a_{347} + \\
& a_{348} - a_{350} - a_{362} - a_{364} + a_{365} + a_{368} + \\
& a_{371} - a_{374} - a_{376} - a_{381} - a_{384}
\end{aligned}
$$

$$
a_{771} = \frac{a_{259} - \sqrt{a_{259}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_4 + a_5 - a_{12} - a_{13} + a_{14} - a_{22} + \\
& a_{23} - a_{24} + a_{25} - a_{39} - 2a_{41} + a_{43} + \\
& a_{45} - a_{46} - a_{48} - a_{49} + a_{71} - a_{75} + \\
& a_{76} - a_{77} - a_{87} + a_{88} - 2a_{89} - a_{94} + \\
& a_{95} - a_{96} - a_{97} + a_{132} - a_{135} + a_{139} - \\
& a_{140} + a_{146} + a_{150} - a_{152} - a_{159} + 2a_{160} - \\
& a_{171} - a_{173} + a_{177} + a_{179} - a_{183} - 2a_{185} + \\
& 2a_{189} + a_{191} - a_{193} - a_{260} + 2a_{263} + a_{264} - \\
& a_{278} + a_{279} + a_{289} + a_{290} + a_{293} + a_{297} + \\
& a_{299} + a_{301} + a_{303} + a_{304} - a_{305} - a_{307} + \\
& a_{310} + a_{311} + a_{313} + a_{316} - 2a_{317} - a_{318} - \\
& a_{320} + a_{321} + a_{325} - a_{327} + a_{328} + a_{330} - \\
& a_{332} + a_{338} + a_{339} + a_{341} + 3a_{342} + a_{348} + \\
& a_{349} - a_{351} - a_{363} - a_{365} + a_{366} + a_{369} + \\
& a_{372} - a_{375} - a_{377} - a_{382} - a_{385}
\end{aligned}
$$

$$
a_{772} = \frac{a_{260} - \sqrt{a_{260}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_5 + a_6 - a_{13} - a_{14} + a_7 - a_{23} + \\
& a_{24} - a_{25} + a_{26} - a_{40} - 2a_{42} + a_{44} + \\
& a_{46} - a_{47} - a_{49} - a_{50} + a_{72} - a_{76} + \\
& a_{77} - a_{78} - a_{88} + a_{89} - 2a_{90} - a_{95} + \\
& a_{96} - a_{97} - a_{98} + a_{133} - a_{136} + a_{140} - \\
& a_{141} + a_{147} + a_{151} - a_{153} - a_{160} + 2a_{161} -
\end{aligned}
$$

$$
\begin{aligned}
& a_{172} - a_{174} + a_{178} + a_{180} - a_{184} - 2a_{186} + \\
& 2a_{190} + a_{192} - a_{194} - a_{261} + 2a_{264} + a_{265} - \\
& a_{279} + a_{280} + a_{290} + a_{291} + a_{294} + a_{298} + \\
& a_{300} + a_{302} + a_{304} + a_{305} - a_{306} - a_{308} + \\
& a_{311} + a_{312} + a_{314} + a_{317} - 2a_{318} - a_{319} - \\
& a_{321} + a_{322} + a_{326} - a_{328} + a_{329} + a_{331} - \\
& a_{333} + a_{339} + a_{340} + a_{342} + 3a_{343} + a_{349} + \\
& a_{350} - a_{352} - a_{364} - a_{366} + a_{367} + a_{370} + \\
& a_{373} - a_{376} - a_{378} - a_{383} - a_{386}
\end{aligned}
$$

$$
a_{773} = \frac{a_{261} + \sqrt{a_{261}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_6 + a_3 - a_{14} - a_7 + a_8 - a_{24} + \\
& a_{25} - a_{26} + a_{27} - a_{41} - 2a_{43} + a_{45} + \\
& a_{47} - a_{48} - a_{50} - a_{51} + a_{73} - a_{77} + \\
& a_{78} - a_{79} - a_{89} + a_{90} - 2a_{91} - a_{96} + \\
& a_{97} - a_{98} - a_{99} + a_{134} - a_{137} + a_{141} - \\
& a_{142} + a_{148} + a_{152} - a_{154} - a_{161} + 2a_{162} - \\
& a_{173} - a_{175} + a_{179} + a_{181} - a_{185} - 2a_{187} + \\
& 2a_{191} + a_{193} - a_{195} - a_{262} + 2a_{265} + a_{266} - \\
& a_{280} + a_{281} + a_{291} + a_{292} + a_{295} + a_{299} + \\
& a_{301} + a_{303} + a_{305} + a_{306} - a_{307} - a_{309} + \\
& a_{312} + a_{313} + a_{315} + a_{318} - 2a_{319} - a_{320} - \\
& a_{322} + a_{323} + a_{327} - a_{329} + a_{330} + a_{332} - \\
& a_{334} + a_{340} + a_{341} + a_{343} + 3a_{344} + a_{350} + \\
& a_{351} - a_{353} - a_{365} - a_{367} + a_{368} + a_{371} + \\
& a_{374} - a_{377} - a_{379} - a_{384} - a_{387}
\end{aligned}
$$

$$
a_{774} = \frac{a_{262} + \sqrt{a_{262}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_3 + a_4 - a_7 - a_8 + a_9 - a_{25} + \\
& a_{26} - a_{27} + a_{28} - a_{42} - 2a_{44} + a_{46} + \\
& a_{48} - a_{49} - a_{51} - a_{52} + a_{74} - a_{78} + \\
& a_{79} - a_{80} - a_{90} + a_{91} - 2a_{92} - a_{97} + \\
& a_{98} - a_{99} - a_{100} + a_{135} - a_{138} + a_{142} - \\
& a_{143} + a_{149} + a_{153} - a_{155} - a_{162} + 2a_{163} - \\
& a_{174} - a_{176} + a_{180} + a_{182} - a_{186} - 2a_{188} + \\
& 2a_{192} + a_{194} - a_{196} - a_{263} + 2a_{266} + a_{267} - \\
& a_{281} + a_{282} + a_{292} + a_{293} + a_{296} + a_{300} + \\
& a_{302} + a_{304} + a_{306} + a_{307} - a_{308} - a_{310} + \\
& a_{313} + a_{314} + a_{316} + a_{319} - 2a_{320} - a_{321} - \\
& a_{323} + a_{324} + a_{328} - a_{330} + a_{331} + a_{333} - \\
& a_{335} + a_{341} + a_{342} + a_{344} + 3a_{345} + a_{351} + \\
& a_{352} - a_{354} - a_{366} - a_{368} + a_{369} + a_{372} + \\
& a_{375} - a_{378} - a_{380} - a_{385} - a_{388}
\end{aligned}
$$

$$
a_{775} = \frac{a_{263} + \sqrt{a_{263}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_4 + a_5 - a_8 - a_9 + a_{10} - a_{26} + \\
& a_{27} - a_{28} + a_{29} - a_{43} - 2a_{45} + a_{47} + \\
& a_{49} - a_{50} - a_{52} - a_{53} + a_{75} - a_{79} + \\
& a_{80} - a_{81} - a_{91} + a_{92} - 2a_{93} - a_{98} + \\
& a_{99} - a_{100} - a_{101} + a_{136} - a_{139} + a_{143} - \\
& a_{144} + a_{150} + a_{154} - a_{156} - a_{163} + 2a_{164} - \\
& a_{175} - a_{177} + a_{181} + a_{183} - a_{187} - 2a_{189} + \\
& 2a_{193} + a_{195} - a_{197} - a_{264} + 2a_{267} + a_{268} - \\
& a_{282} + a_{283} + a_{293} + a_{294} + a_{297} + a_{301} + \\
& a_{303} + a_{305} + a_{307} + a_{308} - a_{309} - a_{311} + \\
& a_{314} + a_{315} + a_{317} + a_{320} - 2a_{321} - a_{322} - \\
& a_{324} + a_{325} + a_{329} - a_{331} + a_{332} + a_{334} - \\
& a_{336} + a_{342} + a_{343} + a_{345} + 3a_{346} + a_{352} + \\
& a_{353} - a_{355} - a_{367} - a_{369} + a_{370} + a_{373} + \\
& a_{376} - a_{379} - a_{381} - a_{386} - a_{389}
\end{aligned}
$$

$$
a_{776} = \frac{a_{264} + \sqrt{a_{264}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_5 + a_6 - a_9 - a_{10} + a_{11} - a_{27} + \\
& a_{28} - a_{29} + a_{30} - a_{44} - 2a_{46} + a_{48} + \\
& a_{50} - a_{51} - a_{53} - a_{54} + a_{76} - a_{80} + \\
& a_{81} - a_{82} - a_{92} + a_{93} - 2a_{94} - a_{99} + \\
& a_{100} - a_{101} - a_{102} + a_{137} - a_{140} + a_{144} - \\
& a_{145} + a_{151} + a_{155} - a_{157} - a_{164} + 2a_{165} - \\
& a_{176} - a_{178} + a_{182} + a_{184} - a_{188} - 2a_{190} + \\
& 2a_{194} + a_{196} - a_{198} - a_{265} + 2a_{268} + a_{269} - \\
& a_{283} + a_{284} + a_{294} + a_{295} + a_{298} + a_{302} + \\
& a_{304} + a_{306} + a_{308} + a_{309} - a_{310} - a_{312} + \\
& a_{315} + a_{316} + a_{318} + a_{321} - 2a_{322} - a_{323} - \\
& a_{325} + a_{326} + a_{330} - a_{332} + a_{333} + a_{335} - \\
& a_{337} + a_{343} + a_{344} + a_{346} + 3a_{347} + a_{353} + \\
& a_{354} - a_{356} - a_{368} - a_{370} + a_{371} + a_{374} + \\
& a_{377} - a_{380} - a_{382} - a_{387} - a_{390}
\end{aligned}
$$

$$
a_{777} = \frac{a_{265} + \sqrt{a_{265}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_6 + a_3 - a_{10} - a_{11} + a_{12} - a_{28} + \\
& a_{29} - a_{30} + a_{15} - a_{45} - 2a_{47} + a_{49} + \\
& a_{51} - a_{52} - a_{54} - a_{55} + a_{77} - a_{81} + \\
& a_{82} - a_{83} - a_{93} + a_{94} - 2a_{95} - a_{100} + \\
& a_{101} - a_{102} - a_{103} + a_{138} - a_{141} + a_{145} - \\
& a_{146} + a_{152} + a_{156} - a_{158} - a_{165} + 2a_{166} - \\
& a_{177} - a_{179} + a_{183} + a_{185} - a_{189} - 2a_{191} + \\
& 2a_{195} + a_{197} - a_{199} - a_{266} + 2a_{269} + a_{270} - \\
& a_{284} + a_{285} + a_{295} + a_{296} + a_{299} + a_{303} + \\
& a_{305} + a_{307} + a_{309} + a_{310} - a_{311} - a_{313} + \\
& a_{316} + a_{317} + a_{319} + a_{322} - 2a_{323} - a_{324} - \\
& a_{326} + a_{327} + a_{331} - a_{333} + a_{334} + a_{336} - \\
& a_{338} + a_{344} + a_{345} + a_{347} + 3a_{348} + a_{354} + \\
& a_{355} - a_{357} - a_{369} - a_{371} + a_{372} + a_{375} + \\
& a_{378} - a_{381} - a_{383} - a_{388} - a_{391}
\end{aligned}
$$

$$
a_{778} = \frac{a_{266} + \sqrt{a_{266}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_3 + a_4 - a_{11} - a_{12} + a_{13} - a_{29} + \\
& a_{30} - a_{15} + a_{16} - a_{46} - 2a_{48} + a_{50} +
\end{aligned}
$$

$$
\begin{aligned}
& a_{52} - a_{53} - a_{55} - a_{56} + a_{78} - a_{82} + \\
& a_{83} - a_{84} - a_{94} + a_{95} - 2a_{96} - a_{101} + \\
& a_{102} - a_{103} - a_{104} + a_{139} - a_{142} + a_{146} - \\
& a_{147} + a_{153} + a_{157} - a_{159} - a_{166} + 2a_{167} - \\
& a_{178} - a_{180} + a_{184} + a_{186} - a_{190} - 2a_{192} + \\
& 2a_{196} + a_{198} - a_{200} - a_{267} + 2a_{270} + a_{271} - \\
& a_{285} + a_{286} + a_{296} + a_{297} + a_{300} + a_{304} + \\
& a_{306} + a_{308} + a_{310} + a_{311} - a_{312} - a_{314} + \\
& a_{317} + a_{318} + a_{320} + a_{323} - 2a_{324} - a_{325} - \\
& a_{327} + a_{328} + a_{332} - a_{334} + a_{335} + a_{337} - \\
& a_{339} + a_{345} + a_{346} + a_{348} + 3a_{349} + a_{355} + \\
& a_{356} - a_{358} - a_{370} - a_{372} + a_{373} + a_{376} + \\
& a_{379} - a_{382} - a_{384} - a_{389} - a_{392}
\end{aligned}
$$

$$
\begin{aligned}
a_{779} &= \frac{a_{267} - \sqrt{a_{267}^2 - 4x}}{2} \\
x &= a_4 + a_5 - a_{12} - a_{13} + a_{14} - a_{30} + \\
& a_{15} - a_{16} + a_{17} - a_{47} - 2a_{49} + a_{51} + \\
& a_{53} - a_{54} - a_{56} - a_{57} + a_{79} - a_{83} + \\
& a_{84} - a_{85} - a_{95} + a_{96} - 2a_{97} - a_{102} + \\
& a_{103} - a_{104} - a_{105} + a_{140} - a_{143} + a_{147} - \\
& a_{148} + a_{154} + a_{158} - a_{160} - a_{167} + 2a_{168} - \\
& a_{179} - a_{181} + a_{185} + a_{187} - a_{191} - 2a_{193} + \\
& 2a_{197} + a_{199} - a_{201} - a_{268} + 2a_{271} + a_{272} - \\
& a_{286} + a_{287} + a_{297} + a_{298} + a_{301} + a_{305} + \\
& a_{307} + a_{309} + a_{311} + a_{312} - a_{313} - a_{315} + \\
& a_{318} + a_{319} + a_{321} + a_{324} - 2a_{325} - a_{326} - \\
& a_{328} + a_{329} + a_{333} - a_{335} + a_{336} + a_{338} - \\
& a_{340} + a_{346} + a_{347} + a_{349} + 3a_{350} + a_{356} + \\
& a_{357} - a_{359} - a_{371} - a_{373} + a_{374} + a_{377} + \\
& a_{380} - a_{383} - a_{385} - a_{390} - a_{393}
\end{aligned}
$$

$$
\begin{aligned}
a_{780} &= \frac{a_{268} - \sqrt{a_{268}^2 - 4x}}{2} \\
x &= a_5 + a_6 - a_{13} - a_{14} + a_7 - a_{15} + \\
& a_{16} - a_{17} + a_{18} - a_{48} - 2a_{50} + a_{52} + \\
& a_{54} - a_{55} - a_{57} - a_{58} + a_{80} - a_{84} + \\
& a_{85} - a_{86} - a_{96} + a_{97} - 2a_{98} - a_{103} + \\
& a_{104} - a_{105} - a_{106} + a_{141} - a_{144} + a_{148} - \\
& a_{149} + a_{155} + a_{159} - a_{161} - a_{168} + 2a_{169} - \\
& a_{180} - a_{182} + a_{186} + a_{188} - a_{192} - 2a_{194} + \\
& 2a_{198} + a_{200} - a_{202} - a_{269} + 2a_{272} + a_{273} - \\
& a_{287} + a_{288} + a_{298} + a_{299} + a_{302} + a_{306} + \\
& a_{308} + a_{310} + a_{312} + a_{313} - a_{314} - a_{316} + \\
& a_{319} + a_{320} + a_{322} + a_{325} - 2a_{326} - a_{327} - \\
& a_{329} + a_{330} + a_{334} - a_{336} + a_{337} + a_{339} - \\
& a_{341} + a_{347} + a_{348} + a_{350} + 3a_{351} + a_{357} + \\
& a_{358} - a_{360} - a_{372} - a_{374} + a_{375} + a_{378} + \\
& a_{381} - a_{384} - a_{386} - a_{391} - a_{394}
\end{aligned}
$$

$$
\begin{aligned}
a_{781} &= \frac{a_{269} - \sqrt{a_{269}^2 - 4x}}{2} \\
x &= a_6 + a_3 - a_{14} - a_7 + a_8 - a_{16} + \\
& a_{17} - a_{18} + a_{19} - a_{49} - 2a_{51} + a_{53} + \\
& a_{55} - a_{56} - a_{58} - a_{59} + a_{81} - a_{85} + \\
& a_{86} - a_{87} - a_{97} + a_{98} - 2a_{99} - a_{104} + \\
& a_{105} - a_{106} - a_{107} + a_{142} - a_{145} + a_{149} - \\
& a_{150} + a_{156} + a_{160} - a_{162} - a_{169} + 2a_{170} - \\
& a_{181} - a_{183} + a_{187} + a_{189} - a_{193} - 2a_{195} + \\
& 2a_{199} + a_{201} - a_{203} - a_{270} + 2a_{273} + a_{274} - \\
& a_{288} + a_{289} + a_{299} + a_{300} + a_{303} + a_{307} + \\
& a_{309} + a_{311} + a_{313} + a_{314} - a_{315} - a_{317} + \\
& a_{320} + a_{321} + a_{323} + a_{326} - 2a_{327} - a_{328} - \\
& a_{330} + a_{331} + a_{335} - a_{337} + a_{338} + a_{340} - \\
& a_{342} + a_{348} + a_{349} + a_{351} + 3a_{352} + a_{358} + \\
& a_{359} - a_{361} - a_{373} - a_{375} + a_{376} + a_{379} + \\
& a_{382} - a_{385} - a_{387} - a_{392} - a_{395}
\end{aligned}
$$

$$
\begin{aligned}
a_{782} &= \frac{a_{270} - \sqrt{a_{270}^2 - 4x}}{2} \\
x &= a_3 + a_4 - a_7 - a_8 + a_9 - a_{17} + \\
& a_{18} - a_{19} + a_{20} - a_{50} - 2a_{52} + a_{54} + \\
& a_{56} - a_{57} - a_{59} - a_{60} + a_{82} - a_{86} + \\
& a_{87} - a_{88} - a_{98} + a_{99} - 2a_{100} - a_{105} + \\
& a_{106} - a_{107} - a_{108} + a_{143} - a_{146} + a_{150} - \\
& a_{151} + a_{157} + a_{161} - a_{163} - a_{170} + 2a_{171} - \\
& a_{182} - a_{184} + a_{188} + a_{190} - a_{194} - 2a_{196} + \\
& 2a_{200} + a_{202} - a_{204} - a_{271} + 2a_{274} + a_{275} - \\
& a_{289} + a_{290} + a_{300} + a_{301} + a_{304} + a_{308} + \\
& a_{310} + a_{312} + a_{314} + a_{315} - a_{316} - a_{318} + \\
& a_{321} + a_{322} + a_{324} + a_{327} - 2a_{328} - a_{329} - \\
& a_{331} + a_{332} + a_{336} - a_{338} + a_{339} + a_{341} - \\
& a_{343} + a_{349} + a_{350} + a_{352} + 3a_{353} + a_{359} + \\
& a_{360} - a_{362} - a_{374} - a_{376} + a_{377} + a_{380} + \\
& a_{383} - a_{386} - a_{388} - a_{393} - a_{396}
\end{aligned}
$$

$$
\begin{aligned}
a_{783} &= \frac{a_{271} + \sqrt{a_{271}^2 - 4x}}{2} \\
x &= a_4 + a_5 - a_8 - a_9 + a_{10} - a_{18} + \\
& a_{19} - a_{20} + a_{21} - a_{51} - 2a_{53} + a_{55} + \\
& a_{57} - a_{58} - a_{60} - a_{61} + a_{83} - a_{87} + \\
& a_{88} - a_{89} - a_{99} + a_{100} - 2a_{101} - a_{106} + \\
& a_{107} - a_{108} - a_{109} + a_{144} - a_{147} + a_{151} - \\
& a_{152} + a_{158} + a_{162} - a_{164} - a_{171} + 2a_{172} - \\
& a_{183} - a_{185} + a_{189} + a_{191} - a_{195} - 2a_{197} + \\
& 2a_{201} + a_{203} - a_{205} - a_{272} + 2a_{275} + a_{276} - \\
& a_{290} + a_{291} + a_{301} + a_{302} + a_{305} + a_{309} + \\
& a_{311} + a_{313} + a_{315} + a_{316} - a_{317} - a_{319} + \\
& a_{322} + a_{323} + a_{325} + a_{328} - 2a_{329} - a_{330} - \\
& a_{332} + a_{333} + a_{337} - a_{339} + a_{340} + a_{342} - \\
& a_{344} + a_{350} + a_{351} + a_{353} + 3a_{354} + a_{360} +
\end{aligned}
$$

$$
\begin{aligned}
& a_{361} - a_{363} - a_{375} - a_{377} + a_{378} + a_{381} + \\
& a_{384} - a_{387} - a_{389} - a_{394} - a_{397} \\
a_{784} &= \frac{a_{272} - \sqrt{a_{272}^2 - 4x}}{2} \\
x &= a_5 + a_6 - a_9 - a_{10} + a_{11} - a_{19} + \\
& a_{20} - a_{21} + a_{22} - a_{52} - 2a_{54} + a_{56} + \\
& a_{58} - a_{59} - a_{61} - a_{62} + a_{84} - a_{88} + \\
& a_{89} - a_{90} - a_{100} + a_{101} - 2a_{102} - a_{107} + \\
& a_{108} - a_{109} - a_{110} + a_{145} - a_{148} + a_{152} - \\
& a_{153} + a_{159} + a_{163} - a_{165} - a_{172} + 2a_{173} - \\
& a_{184} - a_{186} + a_{190} + a_{192} - a_{196} - 2a_{198} + \\
& 2a_{202} + a_{204} - a_{206} - a_{273} + 2a_{276} + a_{277} - \\
& a_{291} + a_{292} + a_{302} + a_{303} + a_{306} + a_{310} + \\
& a_{312} + a_{314} + a_{316} + a_{317} - a_{318} - a_{320} + \\
& a_{323} + a_{324} + a_{326} + a_{329} - 2a_{330} - a_{331} - \\
& a_{333} + a_{334} + a_{338} - a_{340} + a_{341} + a_{343} - \\
& a_{345} + a_{351} + a_{352} + a_{354} + 3a_{355} + a_{361} + \\
& a_{362} - a_{364} - a_{376} - a_{378} + a_{379} + a_{382} + \\
& a_{385} - a_{388} - a_{390} - a_{395} - a_{398} \\
a_{785} &= \frac{a_{273} - \sqrt{a_{273}^2 - 4x}}{2} \\
x &= a_6 + a_3 - a_{10} - a_{11} + a_{12} - a_{20} + \\
& a_{21} - a_{22} + a_{23} - a_{53} - 2a_{55} + a_{57} + \\
& a_{59} - a_{60} - a_{62} - a_{31} + a_{85} - a_{89} + \\
& a_{90} - a_{91} - a_{101} + a_{102} - 2a_{103} - a_{108} + \\
& a_{109} - a_{110} - a_{111} + a_{146} - a_{149} + a_{153} - \\
& a_{154} + a_{160} + a_{164} - a_{166} - a_{173} + 2a_{174} - \\
& a_{185} - a_{187} + a_{191} + a_{193} - a_{197} - 2a_{199} + \\
& 2a_{203} + a_{205} - a_{207} - a_{274} + 2a_{277} + a_{278} - \\
& a_{292} + a_{293} + a_{303} + a_{304} + a_{307} + a_{311} + \\
& a_{313} + a_{315} + a_{317} + a_{318} - a_{319} - a_{321} + \\
& a_{324} + a_{325} + a_{327} + a_{330} - 2a_{331} - a_{332} - \\
& a_{334} + a_{335} + a_{339} - a_{341} + a_{342} + a_{344} - \\
& a_{346} + a_{352} + a_{353} + a_{355} + 3a_{356} + a_{362} + \\
& a_{363} - a_{365} - a_{377} - a_{379} + a_{380} + a_{383} + \\
& a_{386} - a_{389} - a_{391} - a_{396} - a_{399} \\
a_{786} &= \frac{a_{274} - \sqrt{a_{274}^2 - 4x}}{2} \\
x &= a_3 + a_4 - a_{11} - a_{12} + a_{13} - a_{21} + \\
& a_{22} - a_{23} + a_{24} - a_{54} - 2a_{56} + a_{58} + \\
& a_{60} - a_{61} - a_{31} - a_{32} + a_{86} - a_{90} + \\
& a_{91} - a_{92} - a_{102} + a_{103} - 2a_{104} - a_{109} + \\
& a_{110} - a_{111} - a_{112} + a_{147} - a_{150} + a_{154} - \\
& a_{155} + a_{161} + a_{165} - a_{167} - a_{174} + 2a_{175} - \\
& a_{186} - a_{188} + a_{192} + a_{194} - a_{198} - 2a_{200} + \\
& 2a_{204} + a_{206} - a_{208} - a_{275} + 2a_{278} + a_{279} - \\
& a_{293} + a_{294} + a_{304} + a_{305} + a_{308} + a_{312} + \\
& a_{314} + a_{316} + a_{318} + a_{319} - a_{320} - a_{322} + \\
& a_{325} + a_{326} + a_{328} + a_{331} - 2a_{332} - a_{333} - \\
& a_{335} + a_{336} + a_{340} - a_{342} + a_{343} + a_{345} - \\
& a_{347} + a_{353} + a_{354} + a_{356} + 3a_{357} + a_{363} + \\
& a_{364} - a_{366} - a_{378} - a_{380} + a_{381} + a_{384} + \\
& a_{387} - a_{390} - a_{392} - a_{397} - a_{400} \\
a_{787} &= \frac{a_{275} - \sqrt{a_{275}^2 - 4x}}{2} \\
x &= a_4 + a_5 - a_{12} - a_{13} + a_{14} - a_{22} + \\
& a_{23} - a_{24} + a_{25} - a_{55} - 2a_{57} + a_{59} + \\
& a_{61} - a_{62} - a_{32} - a_{33} + a_{87} - a_{91} + \\
& a_{92} - a_{93} - a_{103} + a_{104} - 2a_{105} - a_{110} + \\
& a_{111} - a_{112} - a_{113} + a_{148} - a_{151} + a_{155} - \\
& a_{156} + a_{162} + a_{166} - a_{168} - a_{175} + 2a_{176} - \\
& a_{187} - a_{189} + a_{193} + a_{195} - a_{199} - 2a_{201} + \\
& 2a_{205} + a_{207} - a_{209} - a_{276} + 2a_{279} + a_{280} - \\
& a_{294} + a_{295} + a_{305} + a_{306} + a_{309} + a_{313} + \\
& a_{315} + a_{317} + a_{319} + a_{320} - a_{321} - a_{323} + \\
& a_{326} + a_{327} + a_{329} + a_{332} - 2a_{333} - a_{334} - \\
& a_{336} + a_{337} + a_{341} - a_{343} + a_{344} + a_{346} - \\
& a_{348} + a_{354} + a_{355} + a_{357} + 3a_{358} + a_{364} + \\
& a_{365} - a_{367} - a_{379} - a_{381} + a_{382} + a_{385} + \\
& a_{388} - a_{391} - a_{393} - a_{398} - a_{401} \\
a_{788} &= \frac{a_{276} - \sqrt{a_{276}^2 - 4x}}{2} \\
x &= a_5 + a_6 - a_{13} - a_{14} + a_7 - a_{23} + \\
& a_{24} - a_{25} + a_{26} - a_{56} - 2a_{58} + a_{60} + \\
& a_{62} - a_{31} - a_{33} - a_{34} + a_{88} - a_{92} + \\
& a_{93} - a_{94} - a_{104} + a_{105} - 2a_{106} - a_{111} + \\
& a_{112} - a_{113} - a_{114} + a_{149} - a_{152} + a_{156} - \\
& a_{157} + a_{163} + a_{167} - a_{169} - a_{176} + 2a_{177} - \\
& a_{188} - a_{190} + a_{194} + a_{196} - a_{200} - 2a_{202} + \\
& 2a_{206} + a_{208} - a_{210} - a_{277} + 2a_{280} + a_{281} - \\
& a_{295} + a_{296} + a_{306} + a_{307} + a_{310} + a_{314} + \\
& a_{316} + a_{318} + a_{320} + a_{321} - a_{322} - a_{324} + \\
& a_{327} + a_{328} + a_{330} + a_{333} - 2a_{334} - a_{335} - \\
& a_{337} + a_{338} + a_{342} - a_{344} + a_{345} + a_{347} - \\
& a_{349} + a_{355} + a_{356} + a_{358} + 3a_{359} + a_{365} + \\
& a_{366} - a_{368} - a_{380} - a_{382} + a_{383} + a_{386} + \\
& a_{389} - a_{392} - a_{394} - a_{399} - a_{402} \\
a_{789} &= \frac{a_{277} - \sqrt{a_{277}^2 - 4x}}{2} \\
x &= a_6 + a_3 - a_{14} - a_7 + a_8 - a_{24} + \\
& a_{25} - a_{26} + a_{27} - a_{57} - 2a_{59} + a_{61} + \\
& a_{31} - a_{32} - a_{34} - a_{35} + a_{89} - a_{93} + \\
& a_{94} - a_{95} - a_{105} + a_{106} - 2a_{107} - a_{112} + \\
& a_{113} - a_{114} - a_{115} + a_{150} - a_{153} + a_{157} - \\
& a_{158} + a_{164} + a_{168} - a_{170} - a_{177} + 2a_{178} - \\
& a_{189} - a_{191} + a_{195} + a_{197} - a_{201} - 2a_{203} + \\
& 2a_{207} + a_{209} - a_{211} - a_{278} + 2a_{281} + a_{282} - \\
& a_{296} + a_{297} + a_{307} + a_{308} + a_{311} + a_{315} +
\end{aligned}
$$

$$
\begin{aligned}
& a_{317} + a_{319} + a_{321} + a_{322} - a_{323} - a_{325} + \\
& a_{328} + a_{329} + a_{331} + a_{334} - 2a_{335} - a_{336} - \\
& a_{338} + a_{339} + a_{343} - a_{345} + a_{346} + a_{348} - \\
& a_{350} + a_{356} + a_{357} + a_{359} + 3a_{360} + a_{366} + \\
& a_{367} - a_{369} - a_{381} - a_{383} + a_{384} + a_{387} + \\
& a_{390} - a_{393} - a_{395} - a_{400} - a_{403}
\end{aligned}
$$

$$
\begin{aligned}
a_{790} &= \frac{a_{278} - \sqrt{a_{278}^2 - 4x}}{2} \\
x &= a_3 + a_4 - a_7 - a_8 + a_9 - a_{25} + \\
& a_{26} - a_{27} + a_{28} - a_{58} - 2a_{60} + a_{62} + \\
& a_{32} - a_{33} - a_{35} - a_{36} + a_{90} - a_{94} + \\
& a_{95} - a_{96} - a_{106} + a_{107} - 2a_{108} - a_{113} + \\
& a_{114} - a_{115} - a_{116} + a_{151} - a_{154} + a_{158} - \\
& a_{159} + a_{165} + a_{169} - a_{171} - a_{178} + 2a_{179} - \\
& a_{190} - a_{192} + a_{196} + a_{198} - a_{202} - 2a_{204} + \\
& 2a_{208} + a_{210} - a_{212} - a_{279} + 2a_{282} + a_{283} - \\
& a_{297} + a_{298} + a_{308} + a_{309} + a_{312} + a_{316} + \\
& a_{318} + a_{320} + a_{322} + a_{323} - a_{324} - a_{326} + \\
& a_{329} + a_{330} + a_{332} + a_{335} - 2a_{336} - a_{337} - \\
& a_{339} + a_{340} + a_{344} - a_{346} + a_{347} + a_{349} - \\
& a_{351} + a_{357} + a_{358} + a_{360} + 3a_{361} + a_{367} + \\
& a_{368} - a_{370} - a_{382} - a_{384} + a_{385} + a_{388} + \\
& a_{391} - a_{394} - a_{396} - a_{401} - a_{404} \\
a_{791} &= \frac{a_{279} - \sqrt{a_{279}^2 - 4x}}{2} \\
x &= a_4 + a_5 - a_8 - a_9 + a_{10} - a_{26} + \\
& a_{27} - a_{28} + a_{29} - a_{59} - 2a_{61} + a_{31} + \\
& a_{33} - a_{34} - a_{36} - a_{37} + a_{91} - a_{95} + \\
& a_{96} - a_{97} - a_{107} + a_{108} - 2a_{109} - a_{114} + \\
& a_{115} - a_{116} - a_{117} + a_{152} - a_{155} + a_{159} - \\
& a_{160} + a_{166} + a_{170} - a_{172} - a_{179} + 2a_{180} - \\
& a_{191} - a_{193} + a_{197} + a_{199} - a_{203} - 2a_{205} + \\
& 2a_{209} + a_{211} - a_{213} - a_{280} + 2a_{283} + a_{284} - \\
& a_{298} + a_{299} + a_{309} + a_{310} + a_{313} + a_{317} + \\
& a_{319} + a_{321} + a_{323} + a_{324} - a_{325} - a_{327} + \\
& a_{330} + a_{331} + a_{333} + a_{336} - 2a_{337} - a_{338} - \\
& a_{340} + a_{341} + a_{345} - a_{347} + a_{348} + a_{350} - \\
& a_{352} + a_{358} + a_{359} + a_{361} + 3a_{362} + a_{368} + \\
& a_{369} - a_{371} - a_{383} - a_{385} + a_{386} + a_{389} + \\
& a_{392} - a_{395} - a_{397} - a_{402} - a_{405} \\
a_{792} &= \frac{a_{280} + \sqrt{a_{280}^2 - 4x}}{2} \\
x &= a_5 + a_6 - a_9 - a_{10} + a_{11} - a_{27} + \\
& a_{28} - a_{29} + a_{30} - a_{60} - 2a_{62} + a_{32} + \\
& a_{34} - a_{35} - a_{37} - a_{38} + a_{92} - a_{96} + \\
& a_{97} - a_{98} - a_{108} + a_{109} - 2a_{110} - a_{115} + \\
& a_{116} - a_{117} - a_{118} + a_{153} - a_{156} + a_{160} - \\
& a_{161} + a_{167} + a_{171} - a_{173} - a_{180} + 2a_{181} - \\
& a_{192} - a_{194} + a_{198} + a_{200} - a_{204} - 2a_{206} + \\
& 2a_{210} + a_{212} - a_{214} - a_{281} + 2a_{284} + a_{285} - \\
& a_{299} + a_{300} + a_{310} + a_{311} + a_{314} + a_{318} + \\
& a_{320} + a_{322} + a_{324} + a_{325} - a_{326} - a_{328} + \\
& a_{331} + a_{332} + a_{334} + a_{337} - 2a_{338} - a_{339} - \\
& a_{341} + a_{342} + a_{346} - a_{348} + a_{349} + a_{351} - \\
& a_{353} + a_{359} + a_{360} + a_{362} + 3a_{363} + a_{369} + \\
& a_{370} - a_{372} - a_{384} - a_{386} + a_{387} + a_{390} + \\
& a_{393} - a_{396} - a_{398} - a_{403} - a_{406} \\
a_{793} &= \frac{a_{281} - \sqrt{a_{281}^2 - 4x}}{2} \\
x &= a_6 + a_3 - a_{10} - a_{11} + a_{12} - a_{28} + \\
& a_{29} - a_{30} + a_{15} - a_{61} - 2a_{31} + a_{33} + \\
& a_{35} - a_{36} - a_{38} - a_{39} + a_{93} - a_{97} + \\
& a_{98} - a_{99} - a_{109} + a_{110} - 2a_{111} - a_{116} + \\
& a_{117} - a_{118} - a_{119} + a_{154} - a_{157} + a_{161} - \\
& a_{162} + a_{168} + a_{172} - a_{174} - a_{181} + 2a_{182} - \\
& a_{193} - a_{195} + a_{199} + a_{201} - a_{205} - 2a_{207} + \\
& 2a_{211} + a_{213} - a_{215} - a_{282} + 2a_{285} + a_{286} - \\
& a_{300} + a_{301} + a_{311} + a_{312} + a_{315} + a_{319} + \\
& a_{321} + a_{323} + a_{325} + a_{326} - a_{327} - a_{329} + \\
& a_{332} + a_{333} + a_{335} + a_{338} - 2a_{339} - a_{340} - \\
& a_{342} + a_{343} + a_{347} - a_{349} + a_{350} + a_{352} - \\
& a_{354} + a_{360} + a_{361} + a_{363} + 3a_{364} + a_{370} + \\
& a_{371} - a_{373} - a_{385} - a_{387} + a_{388} + a_{391} + \\
& a_{394} - a_{397} - a_{399} - a_{404} - a_{407} \\
a_{794} &= \frac{a_{282} + \sqrt{a_{282}^2 - 4x}}{2} \\
x &= a_3 + a_4 - a_{11} - a_{12} + a_{13} - a_{29} + \\
& a_{30} - a_{15} + a_{16} - a_{62} - 2a_{32} + a_{34} + \\
& a_{36} - a_{37} - a_{39} - a_{40} + a_{94} - a_{98} + \\
& a_{99} - a_{100} - a_{110} + a_{111} - 2a_{112} - a_{117} + \\
& a_{118} - a_{119} - a_{120} + a_{155} - a_{158} + a_{162} - \\
& a_{163} + a_{169} + a_{173} - a_{175} - a_{182} + 2a_{183} - \\
& a_{194} - a_{196} + a_{200} + a_{202} - a_{206} - 2a_{208} + \\
& 2a_{212} + a_{214} - a_{216} - a_{283} + 2a_{286} + a_{287} - \\
& a_{301} + a_{302} + a_{312} + a_{313} + a_{316} + a_{320} + \\
& a_{322} + a_{324} + a_{326} + a_{327} - a_{328} - a_{330} + \\
& a_{333} + a_{334} + a_{336} + a_{339} - 2a_{340} - a_{341} - \\
& a_{343} + a_{344} + a_{348} - a_{350} + a_{351} + a_{353} - \\
& a_{355} + a_{361} + a_{362} + a_{364} + 3a_{365} + a_{371} + \\
& a_{372} - a_{374} - a_{386} - a_{388} + a_{389} + a_{392} + \\
& a_{395} - a_{398} - a_{400} - a_{405} - a_{408} \\
a_{795} &= \frac{a_{283} + \sqrt{a_{283}^2 - 4x}}{2} \\
x &= a_4 + a_5 - a_{12} - a_{13} + a_{14} - a_{30} + \\
& a_{15} - a_{16} + a_{17} - a_{31} - 2a_{33} + a_{35} + \\
& a_{37} - a_{38} - a_{40} - a_{41} + a_{95} - a_{99} + \\
& a_{100} - a_{101} - a_{111} + a_{112} - 2a_{113} - a_{118} +
\end{aligned}
$$

$$
\begin{aligned}
& a_{119} - a_{120} - a_{121} + a_{156} - a_{159} + a_{163} - \\
& a_{164} + a_{170} + a_{174} - a_{176} - a_{183} + 2a_{184} - \\
& a_{195} - a_{197} + a_{201} + a_{203} - a_{207} - 2a_{209} + \\
& 2a_{213} + a_{215} - a_{217} - a_{284} + 2a_{287} + a_{288} - \\
& a_{302} + a_{303} + a_{313} + a_{314} + a_{317} + a_{321} + \\
& a_{323} + a_{325} + a_{327} + a_{328} - a_{329} - a_{331} + \\
& a_{334} + a_{335} + a_{337} + a_{340} - 2a_{341} - a_{342} - \\
& a_{344} + a_{345} + a_{349} - a_{351} + a_{352} + a_{354} - \\
& a_{356} + a_{362} + a_{363} + a_{365} + 3a_{366} + a_{372} + \\
& a_{373} - a_{375} - a_{387} - a_{389} + a_{390} + a_{393} + \\
& a_{396} - a_{399} - a_{401} - a_{406} - a_{409}
\end{aligned}
$$

$$
a_{796} = \frac{a_{284} - \sqrt{a_{284}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_5 + a_6 - a_{13} - a_{14} + a_7 - a_{15} + \\
& a_{16} - a_{17} + a_{18} - a_{32} - 2a_{34} + a_{36} + \\
& a_{38} - a_{39} - a_{41} - a_{42} + a_{96} - a_{100} + \\
& a_{101} - a_{102} - a_{112} + a_{113} - 2a_{114} - a_{119} + \\
& a_{120} - a_{121} - a_{122} + a_{157} - a_{160} + a_{164} - \\
& a_{165} + a_{171} + a_{175} - a_{177} - a_{184} + 2a_{185} - \\
& a_{196} - a_{198} + a_{202} + a_{204} - a_{208} - 2a_{210} + \\
& 2a_{214} + a_{216} - a_{218} - a_{285} + 2a_{288} + a_{289} - \\
& a_{303} + a_{304} + a_{314} + a_{315} + a_{318} + a_{322} + \\
& a_{324} + a_{326} + a_{328} + a_{329} - a_{330} - a_{332} + \\
& a_{335} + a_{336} + a_{338} + a_{341} - 2a_{342} - a_{343} - \\
& a_{345} + a_{346} + a_{350} - a_{352} + a_{353} + a_{355} - \\
& a_{357} + a_{363} + a_{364} + a_{366} + 3a_{367} + a_{373} + \\
& a_{374} - a_{376} - a_{388} - a_{390} + a_{391} + a_{394} + \\
& a_{397} - a_{400} - a_{402} - a_{407} - a_{410}
\end{aligned}
$$

$$
a_{797} = \frac{a_{285} - \sqrt{a_{285}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_6 + a_3 - a_{14} - a_7 + a_8 - a_{16} + \\
& a_{17} - a_{18} + a_{19} - a_{33} - 2a_{35} + a_{37} + \\
& a_{39} - a_{40} - a_{42} - a_{43} + a_{97} - a_{101} + \\
& a_{102} - a_{103} - a_{113} + a_{114} - 2a_{115} - a_{120} + \\
& a_{121} - a_{122} - a_{123} + a_{158} - a_{161} + a_{165} - \\
& a_{166} + a_{172} + a_{176} - a_{178} - a_{185} + 2a_{186} - \\
& a_{197} - a_{199} + a_{203} + a_{205} - a_{209} - 2a_{211} + \\
& 2a_{215} + a_{217} - a_{219} - a_{286} + 2a_{289} + a_{290} - \\
& a_{304} + a_{305} + a_{315} + a_{316} + a_{319} + a_{323} + \\
& a_{325} + a_{327} + a_{329} + a_{330} - a_{331} - a_{333} + \\
& a_{336} + a_{337} + a_{339} + a_{342} - 2a_{343} - a_{344} - \\
& a_{346} + a_{347} + a_{351} - a_{353} + a_{354} + a_{356} - \\
& a_{358} + a_{364} + a_{365} + a_{367} + 3a_{368} + a_{374} + \\
& a_{375} - a_{377} - a_{389} - a_{391} + a_{392} + a_{395} + \\
& a_{398} - a_{401} - a_{403} - a_{408} - a_{411}
\end{aligned}
$$

$$
a_{798} = \frac{a_{286} - \sqrt{a_{286}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_3 + a_4 - a_7 - a_8 + a_9 - a_{17} + \\
& a_{18} - a_{19} + a_{20} - a_{34} - 2a_{36} + a_{38} + \\
& a_{40} - a_{41} - a_{43} - a_{44} + a_{98} - a_{102} + \\
& a_{103} - a_{104} - a_{114} + a_{115} - 2a_{116} - a_{121} + \\
& a_{122} - a_{123} - a_{124} + a_{159} - a_{162} + a_{166} - \\
& a_{167} + a_{173} + a_{177} - a_{179} - a_{186} + 2a_{187} - \\
& a_{198} - a_{200} + a_{204} + a_{206} - a_{210} - 2a_{212} + \\
& 2a_{216} + a_{218} - a_{220} - a_{287} + 2a_{290} + a_{291} - \\
& a_{305} + a_{306} + a_{316} + a_{317} + a_{320} + a_{324} + \\
& a_{326} + a_{328} + a_{330} + a_{331} - a_{332} - a_{334} + \\
& a_{337} + a_{338} + a_{340} + a_{343} - 2a_{344} - a_{345} - \\
& a_{347} + a_{348} + a_{352} - a_{354} + a_{355} + a_{357} - \\
& a_{359} + a_{365} + a_{366} + a_{368} + 3a_{369} + a_{375} + \\
& a_{376} - a_{378} - a_{390} - a_{392} + a_{393} + a_{396} + \\
& a_{399} - a_{402} - a_{404} - a_{409} - a_{412}
\end{aligned}
$$

$$
a_{799} = \frac{a_{287} + \sqrt{a_{287}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_4 + a_5 - a_8 - a_9 + a_{10} - a_{18} + \\
& a_{19} - a_{20} + a_{21} - a_{35} - 2a_{37} + a_{39} + \\
& a_{41} - a_{42} - a_{44} - a_{45} + a_{99} - a_{103} + \\
& a_{104} - a_{105} - a_{115} + a_{116} - 2a_{117} - a_{122} + \\
& a_{123} - a_{124} - a_{125} + a_{160} - a_{163} + a_{167} - \\
& a_{168} + a_{174} + a_{178} - a_{180} - a_{187} + 2a_{188} - \\
& a_{199} - a_{201} + a_{205} + a_{207} - a_{211} - 2a_{213} + \\
& 2a_{217} + a_{219} - a_{221} - a_{288} + 2a_{291} + a_{292} - \\
& a_{306} + a_{307} + a_{317} + a_{318} + a_{321} + a_{325} + \\
& a_{327} + a_{329} + a_{331} + a_{332} - a_{333} - a_{335} + \\
& a_{338} + a_{339} + a_{341} + a_{344} - 2a_{345} - a_{346} - \\
& a_{348} + a_{349} + a_{353} - a_{355} + a_{356} + a_{358} - \\
& a_{360} + a_{366} + a_{367} + a_{369} + 3a_{370} + a_{376} + \\
& a_{377} - a_{379} - a_{391} - a_{393} + a_{394} + a_{397} + \\
& a_{400} - a_{403} - a_{405} - a_{410} - a_{413}
\end{aligned}
$$

$$
a_{800} = \frac{a_{288} + \sqrt{a_{288}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_5 + a_6 - a_9 - a_{10} + a_{11} - a_{19} + \\
& a_{20} - a_{21} + a_{22} - a_{36} - 2a_{38} + a_{40} + \\
& a_{42} - a_{43} - a_{45} - a_{46} + a_{100} - a_{104} + \\
& a_{105} - a_{106} - a_{116} + a_{117} - 2a_{118} - a_{123} + \\
& a_{124} - a_{125} - a_{126} + a_{161} - a_{164} + a_{168} - \\
& a_{169} + a_{175} + a_{179} - a_{181} - a_{188} + 2a_{189} - \\
& a_{200} - a_{202} + a_{206} + a_{208} - a_{212} - 2a_{214} + \\
& 2a_{218} + a_{220} - a_{222} - a_{289} + 2a_{292} + a_{293} - \\
& a_{307} + a_{308} + a_{318} + a_{319} + a_{322} + a_{326} + \\
& a_{328} + a_{330} + a_{332} + a_{333} - a_{334} - a_{336} + \\
& a_{339} + a_{340} + a_{342} + a_{345} - 2a_{346} - a_{347} - \\
& a_{349} + a_{350} + a_{354} - a_{356} + a_{357} + a_{359} - \\
& a_{361} + a_{367} + a_{368} + a_{370} + 3a_{371} + a_{377} + \\
& a_{378} - a_{380} - a_{392} - a_{394} + a_{395} + a_{398} + \\
& a_{401} - a_{404} - a_{406} - a_{411} - a_{414}
\end{aligned}
$$

$$
\begin{aligned}
a_{801} &= \frac{a_{289}+\sqrt{a_{289}^2-4x}}{2}\\
x &= a_6+a_3-a_{10}-a_{11}+a_{12}-a_{20}+\\
&\quad a_{21}-a_{22}+a_{23}-a_{37}-2a_{39}+a_{41}+\\
&\quad a_{43}-a_{44}-a_{46}-a_{47}+a_{101}-a_{105}+\\
&\quad a_{106}-a_{107}-a_{117}+a_{118}-2a_{119}-a_{124}+\\
&\quad a_{125}-a_{126}-a_{63}+a_{162}-a_{165}+a_{169}-\\
&\quad a_{170}+a_{176}+a_{180}-a_{182}-a_{189}+2a_{190}-\\
&\quad a_{201}-a_{203}+a_{207}+a_{209}-a_{213}-2a_{215}+\\
&\quad 2a_{219}+a_{221}-a_{223}-a_{290}+2a_{293}+a_{294}-\\
&\quad a_{308}+a_{309}+a_{319}+a_{320}+a_{323}+a_{327}+\\
&\quad a_{329}+a_{331}+a_{333}+a_{334}-a_{335}-a_{337}+\\
&\quad a_{340}+a_{341}+a_{343}+a_{346}-2a_{347}-a_{348}-\\
&\quad a_{350}+a_{351}+a_{355}-a_{357}+a_{358}+a_{360}-\\
&\quad a_{362}+a_{368}+a_{369}+a_{371}+3a_{372}+a_{378}+\\
&\quad a_{379}-a_{381}-a_{393}-a_{395}+a_{396}+a_{399}+\\
&\quad a_{402}-a_{405}-a_{407}-a_{412}-a_{415}\\
a_{802} &= \frac{a_{290}+\sqrt{a_{290}^2-4x}}{2}\\
x &= a_3+a_4-a_{11}-a_{12}+a_{13}-a_{21}+\\
&\quad a_{22}-a_{23}+a_{24}-a_{38}-2a_{40}+a_{42}+\\
&\quad a_{44}-a_{45}-a_{47}-a_{48}+a_{102}-a_{106}+\\
&\quad a_{107}-a_{108}-a_{118}+a_{119}-2a_{120}-a_{125}+\\
&\quad a_{126}-a_{63}-a_{64}+a_{163}-a_{166}+a_{170}-\\
&\quad a_{171}+a_{177}+a_{181}-a_{183}-a_{190}+2a_{191}-\\
&\quad a_{202}-a_{204}+a_{208}+a_{210}-a_{214}-2a_{216}+\\
&\quad 2a_{220}+a_{222}-a_{224}-a_{291}+2a_{294}+a_{295}-\\
&\quad a_{309}+a_{310}+a_{320}+a_{321}+a_{324}+a_{328}+\\
&\quad a_{330}+a_{332}+a_{334}+a_{335}-a_{336}-a_{338}+\\
&\quad a_{341}+a_{342}+a_{344}+a_{347}-2a_{348}-a_{349}-\\
&\quad a_{351}+a_{352}+a_{356}-a_{358}+a_{359}+a_{361}-\\
&\quad a_{363}+a_{369}+a_{370}+a_{372}+3a_{373}+a_{379}+\\
&\quad a_{380}-a_{382}-a_{394}-a_{396}+a_{397}+a_{400}+\\
&\quad a_{403}-a_{406}-a_{408}-a_{413}-a_{416}\\
a_{803} &= \frac{a_{291}-\sqrt{a_{291}^2-4x}}{2}\\
x &= a_4+a_5-a_{12}-a_{13}+a_{14}-a_{22}+\\
&\quad a_{23}-a_{24}+a_{25}-a_{39}-2a_{41}+a_{43}+\\
&\quad a_{45}-a_{46}-a_{48}-a_{49}+a_{103}-a_{107}+\\
&\quad a_{108}-a_{109}-a_{119}+a_{120}-2a_{121}-a_{126}+\\
&\quad a_{63}-a_{64}-a_{65}+a_{164}-a_{167}+a_{171}-\\
&\quad a_{172}+a_{178}+a_{182}-a_{184}-a_{191}+2a_{192}-\\
&\quad a_{203}-a_{205}+a_{209}+a_{211}-a_{215}-2a_{217}+\\
&\quad 2a_{221}+a_{223}-a_{225}-a_{292}+2a_{295}+a_{296}-\\
&\quad a_{310}+a_{311}+a_{321}+a_{322}+a_{325}+a_{329}+\\
&\quad a_{331}+a_{333}+a_{335}+a_{336}-a_{337}-a_{339}+\\
&\quad a_{342}+a_{343}+a_{345}+a_{348}-2a_{349}-a_{350}-\\
&\quad a_{352}+a_{353}+a_{357}-a_{359}+a_{360}+a_{362}-\\
&\quad a_{364}+a_{370}+a_{371}+a_{373}+3a_{374}+a_{380}+\\
&\quad a_{381}-a_{383}-a_{395}-a_{397}+a_{398}+a_{401}+\\
&\quad a_{404}-a_{407}-a_{409}-a_{414}-a_{417}\\
a_{804} &= \frac{a_{292}-\sqrt{a_{292}^2-4x}}{2}\\
x &= a_5+a_6-a_{13}-a_{14}+a_7-a_{23}+\\
&\quad a_{24}-a_{25}+a_{26}-a_{40}-2a_{42}+a_{44}+\\
&\quad a_{46}-a_{47}-a_{49}-a_{50}+a_{104}-a_{108}+\\
&\quad a_{109}-a_{110}-a_{120}+a_{121}-2a_{122}-a_{63}+\\
&\quad a_{64}-a_{65}-a_{66}+a_{165}-a_{168}+a_{172}-\\
&\quad a_{173}+a_{179}+a_{183}-a_{185}-a_{192}+2a_{193}-\\
&\quad a_{204}-a_{206}+a_{210}+a_{212}-a_{216}-2a_{218}+\\
&\quad 2a_{222}+a_{224}-a_{226}-a_{293}+2a_{296}+a_{297}-\\
&\quad a_{311}+a_{312}+a_{322}+a_{323}+a_{326}+a_{330}+\\
&\quad a_{332}+a_{334}+a_{336}+a_{337}-a_{338}-a_{340}+\\
&\quad a_{343}+a_{344}+a_{346}+a_{349}-2a_{350}-a_{351}-\\
&\quad a_{353}+a_{354}+a_{358}-a_{360}+a_{361}+a_{363}-\\
&\quad a_{365}+a_{371}+a_{372}+a_{374}+3a_{375}+a_{381}+\\
&\quad a_{382}-a_{384}-a_{396}-a_{398}+a_{399}+a_{402}+\\
&\quad a_{405}-a_{408}-a_{410}-a_{415}-a_{418}\\
a_{805} &= \frac{a_{293}-\sqrt{a_{293}^2-4x}}{2}\\
x &= a_6+a_3-a_{14}-a_7+a_8-a_{24}+\\
&\quad a_{25}-a_{26}+a_{27}-a_{41}-2a_{43}+a_{45}+\\
&\quad a_{47}-a_{48}-a_{50}-a_{51}+a_{105}-a_{109}+\\
&\quad a_{110}-a_{111}-a_{121}+a_{122}-2a_{123}-a_{64}+\\
&\quad a_{65}-a_{66}-a_{67}+a_{166}-a_{169}+a_{173}-\\
&\quad a_{174}+a_{180}+a_{184}-a_{186}-a_{193}+2a_{194}-\\
&\quad a_{205}-a_{207}+a_{211}+a_{213}-a_{217}-2a_{219}+\\
&\quad 2a_{223}+a_{225}-a_{227}-a_{294}+2a_{297}+a_{298}-\\
&\quad a_{312}+a_{313}+a_{323}+a_{324}+a_{327}+a_{331}+\\
&\quad a_{333}+a_{335}+a_{337}+a_{338}-a_{339}-a_{341}+\\
&\quad a_{344}+a_{345}+a_{347}+a_{350}-2a_{351}-a_{352}-\\
&\quad a_{354}+a_{355}+a_{359}-a_{361}+a_{362}+a_{364}-\\
&\quad a_{366}+a_{372}+a_{373}+a_{375}+3a_{376}+a_{382}+\\
&\quad a_{383}-a_{385}-a_{397}-a_{399}+a_{400}+a_{403}+\\
&\quad a_{406}-a_{409}-a_{411}-a_{416}-a_{419}\\
a_{806} &= \frac{a_{294}+\sqrt{a_{294}^2-4x}}{2}\\
x &= a_3+a_4-a_7-a_8+a_9-a_{25}+\\
&\quad a_{26}-a_{27}+a_{28}-a_{42}-2a_{44}+a_{46}+\\
&\quad a_{48}-a_{49}-a_{51}-a_{52}+a_{106}-a_{110}+\\
&\quad a_{111}-a_{112}-a_{122}+a_{123}-2a_{124}-a_{65}+\\
&\quad a_{66}-a_{67}-a_{68}+a_{167}-a_{170}+a_{174}-\\
&\quad a_{175}+a_{181}+a_{185}-a_{187}-a_{194}+2a_{195}-\\
&\quad a_{206}-a_{208}+a_{212}+a_{214}-a_{218}-2a_{220}+\\
&\quad 2a_{224}+a_{226}-a_{228}-a_{295}+2a_{298}+a_{299}-\\
&\quad a_{313}+a_{314}+a_{324}+a_{325}+a_{328}+a_{332}+\\
&\quad a_{334}+a_{336}+a_{338}+a_{339}-a_{340}-a_{342}+\\
&\quad a_{345}+a_{346}+a_{348}+a_{351}-2a_{352}-a_{353}-
\end{aligned}
$$

$$
\begin{aligned}
& a_{355} + a_{356} + a_{360} - a_{362} + a_{363} + a_{365} - \\
& a_{367} + a_{373} + a_{374} + a_{376} + 3a_{377} + a_{383} + \\
& a_{384} - a_{386} - a_{398} - a_{400} + a_{401} + a_{404} + \\
& a_{407} - a_{410} - a_{412} - a_{417} - a_{420}
\end{aligned}
$$

$$
a_{807} = \frac{a_{295} + \sqrt{a_{295}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_4 + a_5 - a_8 - a_9 + a_{10} - a_{26} + \\
& a_{27} - a_{28} + a_{29} - a_{43} - 2a_{45} + a_{47} + \\
& a_{49} - a_{50} - a_{52} - a_{53} + a_{107} - a_{111} + \\
& a_{112} - a_{113} - a_{123} + a_{124} - 2a_{125} - a_{66} + \\
& a_{67} - a_{68} - a_{69} + a_{168} - a_{171} + a_{175} - \\
& a_{176} + a_{182} + a_{186} - a_{188} - a_{195} + 2a_{196} - \\
& a_{207} - a_{209} + a_{213} + a_{215} - a_{219} - 2a_{221} + \\
& 2a_{225} + a_{227} - a_{229} - a_{296} + 2a_{299} + a_{300} - \\
& a_{314} + a_{315} + a_{325} + a_{326} + a_{329} + a_{333} + \\
& a_{335} + a_{337} + a_{339} + a_{340} - a_{341} - a_{343} + \\
& a_{346} + a_{347} + a_{349} + a_{352} - 2a_{353} - a_{354} - \\
& a_{356} + a_{357} + a_{361} - a_{363} + a_{364} + a_{366} - \\
& a_{368} + a_{374} + a_{375} + a_{377} + 3a_{378} + a_{384} + \\
& a_{385} - a_{387} - a_{399} - a_{401} + a_{402} + a_{405} + \\
& a_{408} - a_{411} - a_{413} - a_{418} - a_{421}
\end{aligned}
$$

$$
a_{808} = \frac{a_{296} - \sqrt{a_{296}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_5 + a_6 - a_9 - a_{10} + a_{11} - a_{27} + \\
& a_{28} - a_{29} + a_{30} - a_{44} - 2a_{46} + a_{48} + \\
& a_{50} - a_{51} - a_{53} - a_{54} + a_{108} - a_{112} + \\
& a_{113} - a_{114} - a_{124} + a_{125} - 2a_{126} - a_{67} + \\
& a_{68} - a_{69} - a_{70} + a_{169} - a_{172} + a_{176} - \\
& a_{177} + a_{183} + a_{187} - a_{189} - a_{196} + 2a_{197} - \\
& a_{208} - a_{210} + a_{214} + a_{216} - a_{220} - 2a_{222} + \\
& 2a_{226} + a_{228} - a_{230} - a_{297} + 2a_{300} + a_{301} - \\
& a_{315} + a_{316} + a_{326} + a_{327} + a_{330} + a_{334} + \\
& a_{336} + a_{338} + a_{340} + a_{341} - a_{342} - a_{344} + \\
& a_{347} + a_{348} + a_{350} + a_{353} - 2a_{354} - a_{355} - \\
& a_{357} + a_{358} + a_{362} - a_{364} + a_{365} + a_{367} - \\
& a_{369} + a_{375} + a_{376} + a_{378} + 3a_{379} + a_{385} + \\
& a_{386} - a_{388} - a_{400} - a_{402} + a_{403} + a_{406} + \\
& a_{409} - a_{412} - a_{414} - a_{419} - a_{422}
\end{aligned}
$$

$$
a_{809} = \frac{a_{297} + \sqrt{a_{297}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_6 + a_3 - a_{10} - a_{11} + a_{12} - a_{28} + \\
& a_{29} - a_{30} + a_{15} - a_{45} - 2a_{47} + a_{49} + \\
& a_{51} - a_{52} - a_{54} - a_{55} + a_{109} - a_{113} + \\
& a_{114} - a_{115} - a_{125} + a_{126} - 2a_{63} - a_{68} + \\
& a_{69} - a_{70} - a_{71} + a_{170} - a_{173} + a_{177} - \\
& a_{178} + a_{184} + a_{188} - a_{190} - a_{197} + 2a_{198} - \\
& a_{209} - a_{211} + a_{215} + a_{217} - a_{221} - 2a_{223} + \\
& 2a_{227} + a_{229} - a_{231} - a_{298} + 2a_{301} + a_{302} - \\
& a_{316} + a_{317} + a_{327} + a_{328} + a_{331} + a_{335} + \\
& a_{337} + a_{339} + a_{341} + a_{342} - a_{343} - a_{345} + \\
& a_{348} + a_{349} + a_{351} + a_{354} - 2a_{355} - a_{356} - \\
& a_{358} + a_{359} + a_{363} - a_{365} + a_{366} + a_{368} - \\
& a_{370} + a_{376} + a_{377} + a_{379} + 3a_{380} + a_{386} + \\
& a_{387} - a_{389} - a_{401} - a_{403} + a_{404} + a_{407} + \\
& a_{410} - a_{413} - a_{415} - a_{420} - a_{423}
\end{aligned}
$$

$$
a_{810} = \frac{a_{298} - \sqrt{a_{298}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_3 + a_4 - a_{11} - a_{12} + a_{13} - a_{29} + \\
& a_{30} - a_{15} + a_{16} - a_{46} - 2a_{48} + a_{50} + \\
& a_{52} - a_{53} - a_{55} - a_{56} + a_{110} - a_{114} + \\
& a_{115} - a_{116} - a_{126} + a_{63} - 2a_{64} - a_{69} + \\
& a_{70} - a_{71} - a_{72} + a_{171} - a_{174} + a_{178} - \\
& a_{179} + a_{185} + a_{189} - a_{191} - a_{198} + 2a_{199} - \\
& a_{210} - a_{212} + a_{216} + a_{218} - a_{222} - 2a_{224} + \\
& 2a_{228} + a_{230} - a_{232} - a_{299} + 2a_{302} + a_{303} - \\
& a_{317} + a_{318} + a_{328} + a_{329} + a_{332} + a_{336} + \\
& a_{338} + a_{340} + a_{342} + a_{343} - a_{344} - a_{346} + \\
& a_{349} + a_{350} + a_{352} + a_{355} - 2a_{356} - a_{357} - \\
& a_{359} + a_{360} + a_{364} - a_{366} + a_{367} + a_{369} - \\
& a_{371} + a_{377} + a_{378} + a_{380} + 3a_{381} + a_{387} + \\
& a_{388} - a_{390} - a_{402} - a_{404} + a_{405} + a_{408} + \\
& a_{411} - a_{414} - a_{416} - a_{421} - a_{424}
\end{aligned}
$$

$$
a_{811} = \frac{a_{299} - \sqrt{a_{299}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_4 + a_5 - a_{12} - a_{13} + a_{14} - a_{30} + \\
& a_{15} - a_{16} + a_{17} - a_{47} - 2a_{49} + a_{51} + \\
& a_{53} - a_{54} - a_{56} - a_{57} + a_{111} - a_{115} + \\
& a_{116} - a_{117} - a_{63} + a_{64} - 2a_{65} - a_{70} + \\
& a_{71} - a_{72} - a_{73} + a_{172} - a_{175} + a_{179} - \\
& a_{180} + a_{186} + a_{190} - a_{192} - a_{199} + 2a_{200} - \\
& a_{211} - a_{213} + a_{217} + a_{219} - a_{223} - 2a_{225} + \\
& 2a_{229} + a_{231} - a_{233} - a_{300} + 2a_{303} + a_{304} - \\
& a_{318} + a_{319} + a_{329} + a_{330} + a_{333} + a_{337} + \\
& a_{339} + a_{341} + a_{343} + a_{344} - a_{345} - a_{347} + \\
& a_{350} + a_{351} + a_{353} + a_{356} - 2a_{357} - a_{358} - \\
& a_{360} + a_{361} + a_{365} - a_{367} + a_{368} + a_{370} - \\
& a_{372} + a_{378} + a_{379} + a_{381} + 3a_{382} + a_{388} + \\
& a_{389} - a_{391} - a_{403} - a_{405} + a_{406} + a_{409} + \\
& a_{412} - a_{415} - a_{417} - a_{422} - a_{425}
\end{aligned}
$$

$$
a_{812} = \frac{a_{300} - \sqrt{a_{300}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_5 + a_6 - a_{13} - a_{14} + a_7 - a_{15} + \\
& a_{16} - a_{17} + a_{18} - a_{48} - 2a_{50} + a_{52} + \\
& a_{54} - a_{55} - a_{57} - a_{58} + a_{112} - a_{116} + \\
& a_{117} - a_{118} - a_{64} + a_{65} - 2a_{66} - a_{71} + \\
& a_{72} - a_{73} - a_{74} + a_{173} - a_{176} + a_{180} - \\
& a_{181} + a_{187} + a_{191} - a_{193} - a_{200} + 2a_{201} -
\end{aligned}
$$

$$
\begin{aligned}
& a_{212} - a_{214} + a_{218} + a_{220} - a_{224} - 2a_{226} + \\
& 2a_{230} + a_{232} - a_{234} - a_{301} + 2a_{304} + a_{305} - \\
& a_{319} + a_{320} + a_{330} + a_{331} + a_{334} + a_{338} + \\
& a_{340} + a_{342} + a_{344} + a_{345} - a_{346} - a_{348} + \\
& a_{351} + a_{352} + a_{354} + a_{357} - 2a_{358} - a_{359} - \\
& a_{361} + a_{362} + a_{366} - a_{368} + a_{369} + a_{371} - \\
& a_{373} + a_{379} + a_{380} + a_{382} + 3a_{383} + a_{389} + \\
& a_{390} - a_{392} - a_{404} - a_{406} + a_{407} + a_{410} + \\
& a_{413} - a_{416} - a_{418} - a_{423} - a_{426}
\end{aligned}
$$

$$
a_{813} = \frac{a_{301} - \sqrt{a_{301}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_6 + a_3 - a_{14} - a_7 + a_8 - a_{16} + \\
& a_{17} - a_{18} + a_{19} - a_{49} - 2a_{51} + a_{53} + \\
& a_{55} - a_{56} - a_{58} - a_{59} + a_{113} - a_{117} + \\
& a_{118} - a_{119} - a_{65} + a_{66} - 2a_{67} - a_{72} + \\
& a_{73} - a_{74} - a_{75} + a_{174} - a_{177} + a_{181} - \\
& a_{182} + a_{188} + a_{192} - a_{194} - a_{201} + 2a_{202} - \\
& a_{213} - a_{215} + a_{219} + a_{221} - a_{225} - 2a_{227} + \\
& 2a_{231} + a_{233} - a_{235} - a_{302} + 2a_{305} + a_{306} - \\
& a_{320} + a_{321} + a_{331} + a_{332} + a_{335} + a_{339} + \\
& a_{341} + a_{343} + a_{345} + a_{346} - a_{347} - a_{349} + \\
& a_{352} + a_{353} + a_{355} + a_{358} - 2a_{359} - a_{360} - \\
& a_{362} + a_{363} + a_{367} - a_{369} + a_{370} + a_{372} - \\
& a_{374} + a_{380} + a_{381} + a_{383} + 3a_{384} + a_{390} + \\
& a_{391} - a_{393} - a_{405} - a_{407} + a_{408} + a_{411} + \\
& a_{414} - a_{417} - a_{419} - a_{424} - a_{427}
\end{aligned}
$$

$$
a_{814} = \frac{a_{302} - \sqrt{a_{302}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_3 + a_4 - a_7 - a_8 + a_9 - a_{17} + \\
& a_{18} - a_{19} + a_{20} - a_{50} - 2a_{52} + a_{54} + \\
& a_{56} - a_{57} - a_{59} - a_{60} + a_{114} - a_{118} + \\
& a_{119} - a_{120} - a_{66} + a_{67} - 2a_{68} - a_{73} + \\
& a_{74} - a_{75} - a_{76} + a_{175} - a_{178} + a_{182} - \\
& a_{183} + a_{189} + a_{193} - a_{195} - a_{202} + 2a_{203} - \\
& a_{214} - a_{216} + a_{220} + a_{222} - a_{226} - 2a_{228} + \\
& 2a_{232} + a_{234} - a_{236} - a_{303} + 2a_{306} + a_{307} - \\
& a_{321} + a_{322} + a_{332} + a_{333} + a_{336} + a_{340} + \\
& a_{342} + a_{344} + a_{346} + a_{347} - a_{348} - a_{350} + \\
& a_{353} + a_{354} + a_{356} + a_{359} - 2a_{360} - a_{361} - \\
& a_{363} + a_{364} + a_{368} - a_{370} + a_{371} + a_{373} - \\
& a_{375} + a_{381} + a_{382} + a_{384} + 3a_{385} + a_{391} + \\
& a_{392} - a_{394} - a_{406} - a_{408} + a_{409} + a_{412} + \\
& a_{415} - a_{418} - a_{420} - a_{425} - a_{428}
\end{aligned}
$$

$$
a_{815} = \frac{a_{303} - \sqrt{a_{303}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_4 + a_5 - a_8 - a_9 + a_{10} - a_{18} + \\
& a_{19} - a_{20} + a_{21} - a_{51} - 2a_{53} + a_{55} + \\
& a_{57} - a_{58} - a_{60} - a_{61} + a_{115} - a_{119} + \\
& a_{120} - a_{121} - a_{67} + a_{68} - 2a_{69} - a_{74} + \\
& a_{75} - a_{76} - a_{77} + a_{176} - a_{179} + a_{183} - \\
& a_{184} + a_{190} + a_{194} - a_{196} - a_{203} + 2a_{204} - \\
& a_{215} - a_{217} + a_{221} + a_{223} - a_{227} - 2a_{229} + \\
& 2a_{233} + a_{235} - a_{237} - a_{304} + 2a_{307} + a_{308} - \\
& a_{322} + a_{323} + a_{333} + a_{334} + a_{337} + a_{341} + \\
& a_{343} + a_{345} + a_{347} + a_{348} - a_{349} - a_{351} + \\
& a_{354} + a_{355} + a_{357} + a_{360} - 2a_{361} - a_{362} - \\
& a_{364} + a_{365} + a_{369} - a_{371} + a_{372} + a_{374} - \\
& a_{376} + a_{382} + a_{383} + a_{385} + 3a_{386} + a_{392} + \\
& a_{393} - a_{395} - a_{407} - a_{409} + a_{410} + a_{413} + \\
& a_{416} - a_{419} - a_{421} - a_{426} - a_{429}
\end{aligned}
$$

$$
a_{816} = \frac{a_{304} + \sqrt{a_{304}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_5 + a_6 - a_9 - a_{10} + a_{11} - a_{19} + \\
& a_{20} - a_{21} + a_{22} - a_{52} - 2a_{54} + a_{56} + \\
& a_{58} - a_{59} - a_{61} - a_{62} + a_{116} - a_{120} + \\
& a_{121} - a_{122} - a_{68} + a_{69} - 2a_{70} - a_{75} + \\
& a_{76} - a_{77} - a_{78} + a_{177} - a_{180} + a_{184} - \\
& a_{185} + a_{191} + a_{195} - a_{197} - a_{204} + 2a_{205} - \\
& a_{216} - a_{218} + a_{222} + a_{224} - a_{228} - 2a_{230} + \\
& 2a_{234} + a_{236} - a_{238} - a_{305} + 2a_{308} + a_{309} - \\
& a_{323} + a_{324} + a_{334} + a_{335} + a_{338} + a_{342} + \\
& a_{344} + a_{346} + a_{348} + a_{349} - a_{350} - a_{352} + \\
& a_{355} + a_{356} + a_{358} + a_{361} - 2a_{362} - a_{363} - \\
& a_{365} + a_{366} + a_{370} - a_{372} + a_{373} + a_{375} - \\
& a_{377} + a_{383} + a_{384} + a_{386} + 3a_{387} + a_{393} + \\
& a_{394} - a_{396} - a_{408} - a_{410} + a_{411} + a_{414} + \\
& a_{417} - a_{420} - a_{422} - a_{427} - a_{430}
\end{aligned}
$$

$$
a_{817} = \frac{a_{305} + \sqrt{a_{305}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_6 + a_3 - a_{10} - a_{11} + a_{12} - a_{20} + \\
& a_{21} - a_{22} + a_{23} - a_{53} - 2a_{55} + a_{57} + \\
& a_{59} - a_{60} - a_{62} - a_{31} + a_{117} - a_{121} + \\
& a_{122} - a_{123} - a_{69} + a_{70} - 2a_{71} - a_{76} + \\
& a_{77} - a_{78} - a_{79} + a_{178} - a_{181} + a_{185} - \\
& a_{186} + a_{192} + a_{196} - a_{198} - a_{205} + 2a_{206} - \\
& a_{217} - a_{219} + a_{223} + a_{225} - a_{229} - 2a_{231} + \\
& 2a_{235} + a_{237} - a_{239} - a_{306} + 2a_{309} + a_{310} - \\
& a_{324} + a_{325} + a_{335} + a_{336} + a_{339} + a_{343} + \\
& a_{345} + a_{347} + a_{349} + a_{350} - a_{351} - a_{353} + \\
& a_{356} + a_{357} + a_{359} + a_{362} - 2a_{363} - a_{364} - \\
& a_{366} + a_{367} + a_{371} - a_{373} + a_{374} + a_{376} - \\
& a_{378} + a_{384} + a_{385} + a_{387} + 3a_{388} + a_{394} + \\
& a_{395} - a_{397} - a_{409} - a_{411} + a_{412} + a_{415} + \\
& a_{418} - a_{421} - a_{423} - a_{428} - a_{431}
\end{aligned}
$$

$$
a_{818} = \frac{a_{306} - \sqrt{a_{306}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_3 + a_4 - a_{11} - a_{12} + a_{13} - a_{21} + \\
& a_{22} - a_{23} + a_{24} - a_{54} - 2a_{56} + a_{58} +
\end{aligned}
$$

$$
\begin{aligned}
& a_{60} - a_{61} - a_{31} - a_{32} + a_{118} - a_{122} + \\
& a_{123} - a_{124} - a_{70} + a_{71} - 2a_{72} - a_{77} + \\
& a_{78} - a_{79} - a_{80} + a_{179} - a_{182} + a_{186} - \\
& a_{187} + a_{193} + a_{197} - a_{199} - a_{206} + 2a_{207} - \\
& a_{218} - a_{220} + a_{224} + a_{226} - a_{230} - 2a_{232} + \\
& 2a_{236} + a_{238} - a_{240} - a_{307} + 2a_{310} + a_{311} - \\
& a_{325} + a_{326} + a_{336} + a_{337} + a_{340} + a_{344} + \\
& a_{346} + a_{348} + a_{350} + a_{351} - a_{352} - a_{354} + \\
& a_{357} + a_{358} + a_{360} + a_{363} - 2a_{364} - a_{365} - \\
& a_{367} + a_{368} + a_{372} - a_{374} + a_{375} + a_{377} - \\
& a_{379} + a_{385} + a_{386} + a_{388} + 3a_{389} + a_{395} + \\
& a_{396} - a_{398} - a_{410} - a_{412} + a_{413} + a_{416} + \\
& a_{419} - a_{422} - a_{424} - a_{429} - a_{432}
\end{aligned}
$$

$$
\begin{aligned}
a_{819} &= \frac{a_{307} + \sqrt{a_{307}^2 - 4x}}{2} \\
x &= a_4 + a_5 - a_{12} - a_{13} + a_{14} - a_{22} + \\
& a_{23} - a_{24} + a_{25} - a_{55} - 2a_{57} + a_{59} + \\
& a_{61} - a_{62} - a_{32} - a_{33} + a_{119} - a_{123} + \\
& a_{124} - a_{125} - a_{71} + a_{72} - 2a_{73} - a_{78} + \\
& a_{79} - a_{80} - a_{81} + a_{180} - a_{183} + a_{187} - \\
& a_{188} + a_{194} + a_{198} - a_{200} - a_{207} + 2a_{208} - \\
& a_{219} - a_{221} + a_{225} + a_{227} - a_{231} - 2a_{233} + \\
& 2a_{237} + a_{239} - a_{241} - a_{308} + 2a_{311} + a_{312} - \\
& a_{326} + a_{327} + a_{337} + a_{338} + a_{341} + a_{345} + \\
& a_{347} + a_{349} + a_{351} + a_{352} - a_{353} - a_{355} + \\
& a_{358} + a_{359} + a_{361} + a_{364} - 2a_{365} - a_{366} - \\
& a_{368} + a_{369} + a_{373} - a_{375} + a_{376} + a_{378} - \\
& a_{380} + a_{386} + a_{387} + a_{389} + 3a_{390} + a_{396} + \\
& a_{397} - a_{399} - a_{411} - a_{413} + a_{414} + a_{417} + \\
& a_{420} - a_{423} - a_{425} - a_{430} - a_{433}
\end{aligned}
$$

$$
\begin{aligned}
a_{820} &= \frac{a_{308} - \sqrt{a_{308}^2 - 4x}}{2} \\
x &= a_5 + a_6 - a_{13} - a_{14} + a_7 - a_{23} + \\
& a_{24} - a_{25} + a_{26} - a_{56} - 2a_{58} + a_{60} + \\
& a_{62} - a_{31} - a_{33} - a_{34} + a_{120} - a_{124} + \\
& a_{125} - a_{126} - a_{72} + a_{73} - 2a_{74} - a_{79} + \\
& a_{80} - a_{81} - a_{82} + a_{181} - a_{184} + a_{188} - \\
& a_{189} + a_{195} + a_{199} - a_{201} - a_{208} + 2a_{209} - \\
& a_{220} - a_{222} + a_{226} + a_{228} - a_{232} - 2a_{234} + \\
& 2a_{238} + a_{240} - a_{242} - a_{309} + 2a_{312} + a_{313} - \\
& a_{327} + a_{328} + a_{338} + a_{339} + a_{342} + a_{346} + \\
& a_{348} + a_{350} + a_{352} + a_{353} - a_{354} - a_{356} + \\
& a_{359} + a_{360} + a_{362} + a_{365} - 2a_{366} - a_{367} - \\
& a_{369} + a_{370} + a_{374} - a_{376} + a_{377} + a_{379} - \\
& a_{381} + a_{387} + a_{388} + a_{390} + 3a_{391} + a_{397} + \\
& a_{398} - a_{400} - a_{412} - a_{414} + a_{415} + a_{418} + \\
& a_{421} - a_{424} - a_{426} - a_{431} - a_{434}
\end{aligned}
$$

$$
\begin{aligned}
a_{821} &= \frac{a_{309} - \sqrt{a_{309}^2 - 4x}}{2} \\
x &= a_6 + a_3 - a_{14} - a_7 + a_8 - a_{24} + \\
& a_{25} - a_{26} + a_{27} - a_{57} - 2a_{59} + a_{61} + \\
& a_{31} - a_{32} - a_{34} - a_{35} + a_{121} - a_{125} + \\
& a_{126} - a_{63} - a_{73} + a_{74} - 2a_{75} - a_{80} + \\
& a_{81} - a_{82} - a_{83} + a_{182} - a_{185} + a_{189} - \\
& a_{190} + a_{196} + a_{200} - a_{202} - a_{209} + 2a_{210} - \\
& a_{221} - a_{223} + a_{227} + a_{229} - a_{233} - 2a_{235} + \\
& 2a_{239} + a_{241} - a_{243} - a_{310} + 2a_{313} + a_{314} - \\
& a_{328} + a_{329} + a_{339} + a_{340} + a_{343} + a_{347} + \\
& a_{349} + a_{351} + a_{353} + a_{354} - a_{355} - a_{357} + \\
& a_{360} + a_{361} + a_{363} + a_{366} - 2a_{367} - a_{368} - \\
& a_{370} + a_{371} + a_{375} - a_{377} + a_{378} + a_{380} - \\
& a_{382} + a_{388} + a_{389} + a_{391} + 3a_{392} + a_{398} + \\
& a_{399} - a_{401} - a_{413} - a_{415} + a_{416} + a_{419} + \\
& a_{422} - a_{425} - a_{427} - a_{432} - a_{435}
\end{aligned}
$$

$$
\begin{aligned}
a_{822} &= \frac{a_{310} + \sqrt{a_{310}^2 - 4x}}{2} \\
x &= a_3 + a_4 - a_7 - a_8 + a_9 - a_{25} + \\
& a_{26} - a_{27} + a_{28} - a_{58} - 2a_{60} + a_{62} + \\
& a_{32} - a_{33} - a_{35} - a_{36} + a_{122} - a_{126} + \\
& a_{63} - a_{64} - a_{74} + a_{75} - 2a_{76} - a_{81} + \\
& a_{82} - a_{83} - a_{84} + a_{183} - a_{186} + a_{190} - \\
& a_{191} + a_{197} + a_{201} - a_{203} - a_{210} + 2a_{211} - \\
& a_{222} - a_{224} + a_{228} + a_{230} - a_{234} - 2a_{236} + \\
& 2a_{240} + a_{242} - a_{244} - a_{311} + 2a_{314} + a_{315} - \\
& a_{329} + a_{330} + a_{340} + a_{341} + a_{344} + a_{348} + \\
& a_{350} + a_{352} + a_{354} + a_{355} - a_{356} - a_{358} + \\
& a_{361} + a_{362} + a_{364} + a_{367} - 2a_{368} - a_{369} - \\
& a_{371} + a_{372} + a_{376} - a_{378} + a_{379} + a_{381} - \\
& a_{383} + a_{389} + a_{390} + a_{392} + 3a_{393} + a_{399} + \\
& a_{400} - a_{402} - a_{414} - a_{416} + a_{417} + a_{420} + \\
& a_{423} - a_{426} - a_{428} - a_{433} - a_{436}
\end{aligned}
$$

$$
\begin{aligned}
a_{823} &= \frac{a_{311} + \sqrt{a_{311}^2 - 4x}}{2} \\
x &= a_4 + a_5 - a_8 - a_9 + a_{10} - a_{26} + \\
& a_{27} - a_{28} + a_{29} - a_{59} - 2a_{61} + a_{31} + \\
& a_{33} - a_{34} - a_{36} - a_{37} + a_{123} - a_{63} + \\
& a_{64} - a_{65} - a_{75} + a_{76} - 2a_{77} - a_{82} + \\
& a_{83} - a_{84} - a_{85} + a_{184} - a_{187} + a_{191} - \\
& a_{192} + a_{198} + a_{202} - a_{204} - a_{211} + 2a_{212} - \\
& a_{223} - a_{225} + a_{229} + a_{231} - a_{235} - 2a_{237} + \\
& 2a_{241} + a_{243} - a_{245} - a_{312} + 2a_{315} + a_{316} - \\
& a_{330} + a_{331} + a_{341} + a_{342} + a_{345} + a_{349} + \\
& a_{351} + a_{353} + a_{355} + a_{356} - a_{357} - a_{359} + \\
& a_{362} + a_{363} + a_{365} + a_{368} - 2a_{369} - a_{370} - \\
& a_{372} + a_{373} + a_{377} - a_{379} + a_{380} + a_{382} - \\
& a_{384} + a_{390} + a_{391} + a_{393} + 3a_{394} + a_{400} +
\end{aligned}
$$

$$
\begin{aligned}
& a_{401} - a_{403} - a_{415} - a_{417} + a_{418} + a_{421} + \\
& a_{424} - a_{427} - a_{429} - a_{434} - a_{437} \\
a_{824} &= \frac{a_{312} - \sqrt{a_{312}^2 - 4x}}{2} \\
x &= a_5 + a_6 - a_9 - a_{10} + a_{11} - a_{27} + \\
& a_{28} - a_{29} + a_{30} - a_{60} - 2a_{62} + a_{32} + \\
& a_{34} - a_{35} - a_{37} - a_{38} + a_{124} - a_{64} + \\
& a_{65} - a_{66} - a_{76} + a_{77} - 2a_{78} - a_{83} + \\
& a_{84} - a_{85} - a_{86} + a_{185} - a_{188} + a_{192} - \\
& a_{193} + a_{199} + a_{203} - a_{205} - a_{212} + 2a_{213} - \\
& a_{224} - a_{226} + a_{230} + a_{232} - a_{236} - 2a_{238} + \\
& 2a_{242} + a_{244} - a_{246} - a_{313} + 2a_{316} + a_{317} - \\
& a_{331} + a_{332} + a_{342} + a_{343} + a_{346} + a_{350} + \\
& a_{352} + a_{354} + a_{356} + a_{357} - a_{358} - a_{360} + \\
& a_{363} + a_{364} + a_{366} + a_{369} - 2a_{370} - a_{371} - \\
& a_{373} + a_{374} + a_{378} - a_{380} + a_{381} + a_{383} - \\
& a_{385} + a_{391} + a_{392} + a_{394} + 3a_{395} + a_{401} + \\
& a_{402} - a_{404} - a_{416} - a_{418} + a_{419} + a_{422} + \\
& a_{425} - a_{428} - a_{430} - a_{435} - a_{438} \\
a_{825} &= \frac{a_{313} - \sqrt{a_{313}^2 - 4x}}{2} \\
x &= a_6 + a_3 - a_{10} - a_{11} + a_{12} - a_{28} + \\
& a_{29} - a_{30} + a_{15} - a_{61} - 2a_{31} + a_{33} + \\
& a_{35} - a_{36} - a_{38} - a_{39} + a_{125} - a_{65} + \\
& a_{66} - a_{67} - a_{77} + a_{78} - 2a_{79} - a_{84} + \\
& a_{85} - a_{86} - a_{87} + a_{186} - a_{189} + a_{193} - \\
& a_{194} + a_{200} + a_{204} - a_{206} - a_{213} + 2a_{214} - \\
& a_{225} - a_{227} + a_{231} + a_{233} - a_{237} - 2a_{239} + \\
& 2a_{243} + a_{245} - a_{247} - a_{314} + 2a_{317} + a_{318} - \\
& a_{332} + a_{333} + a_{343} + a_{344} + a_{347} + a_{351} + \\
& a_{353} + a_{355} + a_{357} + a_{358} - a_{359} - a_{361} + \\
& a_{364} + a_{365} + a_{367} + a_{370} - 2a_{371} - a_{372} - \\
& a_{374} + a_{375} + a_{379} - a_{381} + a_{382} + a_{384} - \\
& a_{386} + a_{392} + a_{393} + a_{395} + 3a_{396} + a_{402} + \\
& a_{403} - a_{405} - a_{417} - a_{419} + a_{420} + a_{423} + \\
& a_{426} - a_{429} - a_{431} - a_{436} - a_{439} \\
a_{826} &= \frac{a_{314} + \sqrt{a_{314}^2 - 4x}}{2} \\
x &= a_3 + a_4 - a_{11} - a_{12} + a_{13} - a_{29} + \\
& a_{30} - a_{15} + a_{16} - a_{62} - 2a_{32} + a_{34} + \\
& a_{36} - a_{37} - a_{39} - a_{40} + a_{126} - a_{66} + \\
& a_{67} - a_{68} - a_{78} + a_{79} - 2a_{80} - a_{85} + \\
& a_{86} - a_{87} - a_{88} + a_{187} - a_{190} + a_{194} - \\
& a_{195} + a_{201} + a_{205} - a_{207} - a_{214} + 2a_{215} - \\
& a_{226} - a_{228} + a_{232} + a_{234} - a_{238} - 2a_{240} + \\
& 2a_{244} + a_{246} - a_{248} - a_{315} + 2a_{318} + a_{319} - \\
& a_{333} + a_{334} + a_{344} + a_{345} + a_{348} + a_{352} + \\
& a_{354} + a_{356} + a_{358} + a_{359} - a_{360} - a_{362} + \\
& a_{365} + a_{366} + a_{368} + a_{371} - 2a_{372} - a_{373} - \\
& a_{375} + a_{376} + a_{380} - a_{382} + a_{383} + a_{385} - \\
& a_{387} + a_{393} + a_{394} + a_{396} + 3a_{397} + a_{403} + \\
& a_{404} - a_{406} - a_{418} - a_{420} + a_{421} + a_{424} + \\
& a_{427} - a_{430} - a_{432} - a_{437} - a_{440} \\
a_{827} &= \frac{a_{315} + \sqrt{a_{315}^2 - 4x}}{2} \\
x &= a_4 + a_5 - a_{12} - a_{13} + a_{14} - a_{30} + \\
& a_{15} - a_{16} + a_{17} - a_{31} - 2a_{33} + a_{35} + \\
& a_{37} - a_{38} - a_{40} - a_{41} + a_{63} - a_{67} + \\
& a_{68} - a_{69} - a_{79} + a_{80} - 2a_{81} - a_{86} + \\
& a_{87} - a_{88} - a_{89} + a_{188} - a_{191} + a_{195} - \\
& a_{196} + a_{202} + a_{206} - a_{208} - a_{215} + 2a_{216} - \\
& a_{227} - a_{229} + a_{233} + a_{235} - a_{239} - 2a_{241} + \\
& 2a_{245} + a_{247} - a_{249} - a_{316} + 2a_{319} + a_{320} - \\
& a_{334} + a_{335} + a_{345} + a_{346} + a_{349} + a_{353} + \\
& a_{355} + a_{357} + a_{359} + a_{360} - a_{361} - a_{363} + \\
& a_{366} + a_{367} + a_{369} + a_{372} - 2a_{373} - a_{374} - \\
& a_{376} + a_{377} + a_{381} - a_{383} + a_{384} + a_{386} - \\
& a_{388} + a_{394} + a_{395} + a_{397} + 3a_{398} + a_{404} + \\
& a_{405} - a_{407} - a_{419} - a_{421} + a_{422} + a_{425} + \\
& a_{428} - a_{431} - a_{433} - a_{438} - a_{441} \\
a_{828} &= \frac{a_{316} - \sqrt{a_{316}^2 - 4x}}{2} \\
x &= a_5 + a_6 - a_{13} - a_{14} + a_7 - a_{15} + \\
& a_{16} - a_{17} + a_{18} - a_{32} - 2a_{34} + a_{36} + \\
& a_{38} - a_{39} - a_{41} - a_{42} + a_{64} - a_{68} + \\
& a_{69} - a_{70} - a_{80} + a_{81} - 2a_{82} - a_{87} + \\
& a_{88} - a_{89} - a_{90} + a_{189} - a_{192} + a_{196} - \\
& a_{197} + a_{203} + a_{207} - a_{209} - a_{216} + 2a_{217} - \\
& a_{228} - a_{230} + a_{234} + a_{236} - a_{240} - 2a_{242} + \\
& 2a_{246} + a_{248} - a_{250} - a_{317} + 2a_{320} + a_{321} - \\
& a_{335} + a_{336} + a_{346} + a_{347} + a_{350} + a_{354} + \\
& a_{356} + a_{358} + a_{360} + a_{361} - a_{362} - a_{364} + \\
& a_{367} + a_{368} + a_{370} + a_{373} - 2a_{374} - a_{375} - \\
& a_{377} + a_{378} + a_{382} - a_{384} + a_{385} + a_{387} - \\
& a_{389} + a_{395} + a_{396} + a_{398} + 3a_{399} + a_{405} + \\
& a_{406} - a_{408} - a_{420} - a_{422} + a_{423} + a_{426} + \\
& a_{429} - a_{432} - a_{434} - a_{439} - a_{442} \\
a_{829} &= \frac{a_{317} - \sqrt{a_{317}^2 - 4x}}{2} \\
x &= a_6 + a_3 - a_{14} - a_7 + a_8 - a_{16} + \\
& a_{17} - a_{18} + a_{19} - a_{33} - 2a_{35} + a_{37} + \\
& a_{39} - a_{40} - a_{42} - a_{43} + a_{65} - a_{69} + \\
& a_{70} - a_{71} - a_{81} + a_{82} - 2a_{83} - a_{88} + \\
& a_{89} - a_{90} - a_{91} + a_{190} - a_{193} + a_{197} - \\
& a_{198} + a_{204} + a_{208} - a_{210} - a_{217} + 2a_{218} - \\
& a_{229} - a_{231} + a_{235} + a_{237} - a_{241} - 2a_{243} + \\
& 2a_{247} + a_{249} - a_{251} - a_{318} + 2a_{321} + a_{322} - \\
& a_{336} + a_{337} + a_{347} + a_{348} + a_{351} + a_{355} +
\end{aligned}
$$

$$
\begin{aligned}
& a_{357} + a_{359} + a_{361} + a_{362} - a_{363} - a_{365} + \\
& a_{368} + a_{369} + a_{371} + a_{374} - 2a_{375} - a_{376} - \\
& a_{378} + a_{379} + a_{383} - a_{385} + a_{386} + a_{388} - \\
& a_{390} + a_{396} + a_{397} + a_{399} + 3a_{400} + a_{406} + \\
& a_{407} - a_{409} - a_{421} - a_{423} + a_{424} + a_{427} + \\
& a_{430} - a_{433} - a_{435} - a_{440} - a_{443}
\end{aligned}
$$

$$
\begin{aligned}
a_{830} &= \frac{a_{318} + \sqrt{a_{318}^2 - 4x}}{2} \\
x &= a_3 + a_4 - a_7 - a_8 + a_9 - a_{17} + \\
& a_{18} - a_{19} + a_{20} - a_{34} - 2a_{36} + a_{38} + \\
& a_{40} - a_{41} - a_{43} - a_{44} + a_{66} - a_{70} + \\
& a_{71} - a_{72} - a_{82} + a_{83} - 2a_{84} - a_{89} + \\
& a_{90} - a_{91} - a_{92} + a_{191} - a_{194} + a_{198} - \\
& a_{199} + a_{205} + a_{209} - a_{211} - a_{218} + 2a_{219} - \\
& a_{230} - a_{232} + a_{236} + a_{238} - a_{242} - 2a_{244} + \\
& 2a_{248} + a_{250} - a_{252} - a_{319} + 2a_{322} + a_{323} - \\
& a_{337} + a_{338} + a_{348} + a_{349} + a_{352} + a_{356} + \\
& a_{358} + a_{360} + a_{362} + a_{363} - a_{364} - a_{366} + \\
& a_{369} + a_{370} + a_{372} + a_{375} - 2a_{376} - a_{377} - \\
& a_{379} + a_{380} + a_{384} - a_{386} + a_{387} + a_{389} - \\
& a_{391} + a_{397} + a_{398} + a_{400} + 3a_{401} + a_{407} + \\
& a_{408} - a_{410} - a_{422} - a_{424} + a_{425} + a_{428} + \\
& a_{431} - a_{434} - a_{436} - a_{441} - a_{444} \\
a_{831} &= \frac{a_{319} - \sqrt{a_{319}^2 - 4x}}{2} \\
x &= a_4 + a_5 - a_8 - a_9 + a_{10} - a_{18} + \\
& a_{19} - a_{20} + a_{21} - a_{35} - 2a_{37} + a_{39} + \\
& a_{41} - a_{42} - a_{44} - a_{45} + a_{67} - a_{71} + \\
& a_{72} - a_{73} - a_{83} + a_{84} - 2a_{85} - a_{90} + \\
& a_{91} - a_{92} - a_{93} + a_{192} - a_{195} + a_{199} - \\
& a_{200} + a_{206} + a_{210} - a_{212} - a_{219} + 2a_{220} - \\
& a_{231} - a_{233} + a_{237} + a_{239} - a_{243} - 2a_{245} + \\
& 2a_{249} + a_{251} - a_{253} - a_{320} + 2a_{323} + a_{324} - \\
& a_{338} + a_{339} + a_{349} + a_{350} + a_{353} + a_{357} + \\
& a_{359} + a_{361} + a_{363} + a_{364} - a_{365} - a_{367} + \\
& a_{370} + a_{371} + a_{373} + a_{376} - 2a_{377} - a_{378} - \\
& a_{380} + a_{381} + a_{385} - a_{387} + a_{388} + a_{390} - \\
& a_{392} + a_{398} + a_{399} + a_{401} + 3a_{402} + a_{408} + \\
& a_{409} - a_{411} - a_{423} - a_{425} + a_{426} + a_{429} + \\
& a_{432} - a_{435} - a_{437} - a_{442} - a_{445} \\
a_{832} &= \frac{a_{320} - \sqrt{a_{320}^2 - 4x}}{2} \\
x &= a_5 + a_6 - a_9 - a_{10} + a_{11} - a_{19} + \\
& a_{20} - a_{21} + a_{22} - a_{36} - 2a_{38} + a_{40} + \\
& a_{42} - a_{43} - a_{45} - a_{46} + a_{68} - a_{72} + \\
& a_{73} - a_{74} - a_{84} + a_{85} - 2a_{86} - a_{91} + \\
& a_{92} - a_{93} - a_{94} + a_{193} - a_{196} + a_{200} - \\
& a_{201} + a_{207} + a_{211} - a_{213} - a_{220} + 2a_{221} - \\
& a_{232} - a_{234} + a_{238} + a_{240} - a_{244} - 2a_{246} + \\
& 2a_{250} + a_{252} - a_{254} - a_{321} + 2a_{324} + a_{325} - \\
& a_{339} + a_{340} + a_{350} + a_{351} + a_{354} + a_{358} + \\
& a_{360} + a_{362} + a_{364} + a_{365} - a_{366} - a_{368} + \\
& a_{371} + a_{372} + a_{374} + a_{377} - 2a_{378} - a_{379} - \\
& a_{381} + a_{382} + a_{386} - a_{388} + a_{389} + a_{391} - \\
& a_{393} + a_{399} + a_{400} + a_{402} + 3a_{403} + a_{409} + \\
& a_{410} - a_{412} - a_{424} - a_{426} + a_{427} + a_{430} + \\
& a_{433} - a_{436} - a_{438} - a_{443} - a_{446} \\
a_{833} &= \frac{a_{321} + \sqrt{a_{321}^2 - 4x}}{2} \\
x &= a_6 + a_3 - a_{10} - a_{11} + a_{12} - a_{20} + \\
& a_{21} - a_{22} + a_{23} - a_{37} - 2a_{39} + a_{41} + \\
& a_{43} - a_{44} - a_{46} - a_{47} + a_{69} - a_{73} + \\
& a_{74} - a_{75} - a_{85} + a_{86} - 2a_{87} - a_{92} + \\
& a_{93} - a_{94} - a_{95} + a_{194} - a_{197} + a_{201} - \\
& a_{202} + a_{208} + a_{212} - a_{214} - a_{221} + 2a_{222} - \\
& a_{233} - a_{235} + a_{239} + a_{241} - a_{245} - 2a_{247} + \\
& 2a_{251} + a_{253} - a_{127} - a_{322} + 2a_{325} + a_{326} - \\
& a_{340} + a_{341} + a_{351} + a_{352} + a_{355} + a_{359} + \\
& a_{361} + a_{363} + a_{365} + a_{366} - a_{367} - a_{369} + \\
& a_{372} + a_{373} + a_{375} + a_{378} - 2a_{379} - a_{380} - \\
& a_{382} + a_{383} + a_{387} - a_{389} + a_{390} + a_{392} - \\
& a_{394} + a_{400} + a_{401} + a_{403} + 3a_{404} + a_{410} + \\
& a_{411} - a_{413} - a_{425} - a_{427} + a_{428} + a_{431} + \\
& a_{434} - a_{437} - a_{439} - a_{444} - a_{447} \\
a_{834} &= \frac{a_{322} + \sqrt{a_{322}^2 - 4x}}{2} \\
x &= a_3 + a_4 - a_{11} - a_{12} + a_{13} - a_{21} + \\
& a_{22} - a_{23} + a_{24} - a_{38} - 2a_{40} + a_{42} + \\
& a_{44} - a_{45} - a_{47} - a_{48} + a_{70} - a_{74} + \\
& a_{75} - a_{76} - a_{86} + a_{87} - 2a_{88} - a_{93} + \\
& a_{94} - a_{95} - a_{96} + a_{195} - a_{198} + a_{202} - \\
& a_{203} + a_{209} + a_{213} - a_{215} - a_{222} + 2a_{223} - \\
& a_{234} - a_{236} + a_{240} + a_{242} - a_{246} - 2a_{248} + \\
& 2a_{252} + a_{254} - a_{128} - a_{323} + 2a_{326} + a_{327} - \\
& a_{341} + a_{342} + a_{352} + a_{353} + a_{356} + a_{360} + \\
& a_{362} + a_{364} + a_{366} + a_{367} - a_{368} - a_{370} + \\
& a_{373} + a_{374} + a_{376} + a_{379} - 2a_{380} - a_{381} - \\
& a_{383} + a_{384} + a_{388} - a_{390} + a_{391} + a_{393} - \\
& a_{395} + a_{401} + a_{402} + a_{404} + 3a_{405} + a_{411} + \\
& a_{412} - a_{414} - a_{426} - a_{428} + a_{429} + a_{432} + \\
& a_{435} - a_{438} - a_{440} - a_{445} - a_{448} \\
a_{835} &= \frac{a_{323} + \sqrt{a_{323}^2 - 4x}}{2} \\
x &= a_4 + a_5 - a_{12} - a_{13} + a_{14} - a_{22} + \\
& a_{23} - a_{24} + a_{25} - a_{39} - 2a_{41} + a_{43} + \\
& a_{45} - a_{46} - a_{48} - a_{49} + a_{71} - a_{75} + \\
& a_{76} - a_{77} - a_{87} + a_{88} - 2a_{89} - a_{94} +
\end{aligned}
$$

$$
\begin{aligned}
& a_{95} - a_{96} - a_{97} + a_{196} - a_{199} + a_{203} - \\
& a_{204} + a_{210} + a_{214} - a_{216} - a_{223} + 2a_{224} - \\
& a_{235} - a_{237} + a_{241} + a_{243} - a_{247} - 2a_{249} + \\
& 2a_{253} + a_{127} - a_{129} - a_{324} + 2a_{327} + a_{328} - \\
& a_{342} + a_{343} + a_{353} + a_{354} + a_{357} + a_{361} + \\
& a_{363} + a_{365} + a_{367} + a_{368} - a_{369} - a_{371} + \\
& a_{374} + a_{375} + a_{377} + a_{380} - 2a_{381} - a_{382} - \\
& a_{384} + a_{385} + a_{389} - a_{391} + a_{392} + a_{394} - \\
& a_{396} + a_{402} + a_{403} + a_{405} + 3a_{406} + a_{412} + \\
& a_{413} - a_{415} - a_{427} - a_{429} + a_{430} + a_{433} + \\
& a_{436} - a_{439} - a_{441} - a_{446} - a_{449}
\end{aligned}
$$

$$
a_{836} = \frac{a_{324} + \sqrt{a_{324}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_5 + a_6 - a_{13} - a_{14} + a_7 - a_{23} + \\
& a_{24} - a_{25} + a_{26} - a_{40} - 2a_{42} + a_{44} + \\
& a_{46} - a_{47} - a_{49} - a_{50} + a_{72} - a_{76} + \\
& a_{77} - a_{78} - a_{88} + a_{89} - 2a_{90} - a_{95} + \\
& a_{96} - a_{97} - a_{98} + a_{197} - a_{200} + a_{204} - \\
& a_{205} + a_{211} + a_{215} - a_{217} - a_{224} + 2a_{225} - \\
& a_{236} - a_{238} + a_{242} + a_{244} - a_{248} - 2a_{250} + \\
& 2a_{254} + a_{128} - a_{130} - a_{325} + 2a_{328} + a_{329} - \\
& a_{343} + a_{344} + a_{354} + a_{355} + a_{358} + a_{362} + \\
& a_{364} + a_{366} + a_{368} + a_{369} - a_{370} - a_{372} + \\
& a_{375} + a_{376} + a_{378} + a_{381} - 2a_{382} - a_{383} - \\
& a_{385} + a_{386} + a_{390} - a_{392} + a_{393} + a_{395} - \\
& a_{397} + a_{403} + a_{404} + a_{406} + 3a_{407} + a_{413} + \\
& a_{414} - a_{416} - a_{428} - a_{430} + a_{431} + a_{434} + \\
& a_{437} - a_{440} - a_{442} - a_{447} - a_{450}
\end{aligned}
$$

$$
a_{837} = \frac{a_{325} + \sqrt{a_{325}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_6 + a_3 - a_{14} - a_7 + a_8 - a_{24} + \\
& a_{25} - a_{26} + a_{27} - a_{41} - 2a_{43} + a_{45} + \\
& a_{47} - a_{48} - a_{50} - a_{51} + a_{73} - a_{77} + \\
& a_{78} - a_{79} - a_{89} + a_{90} - 2a_{91} - a_{96} + \\
& a_{97} - a_{98} - a_{99} + a_{198} - a_{201} + a_{205} - \\
& a_{206} + a_{212} + a_{216} - a_{218} - a_{225} + 2a_{226} - \\
& a_{237} - a_{239} + a_{243} + a_{245} - a_{249} - 2a_{251} + \\
& 2a_{127} + a_{129} - a_{131} - a_{326} + 2a_{329} + a_{330} - \\
& a_{344} + a_{345} + a_{355} + a_{356} + a_{359} + a_{363} + \\
& a_{365} + a_{367} + a_{369} + a_{370} - a_{371} - a_{373} + \\
& a_{376} + a_{377} + a_{379} + a_{382} - 2a_{383} - a_{384} - \\
& a_{386} + a_{387} + a_{391} - a_{393} + a_{394} + a_{396} - \\
& a_{398} + a_{404} + a_{405} + a_{407} + 3a_{408} + a_{414} + \\
& a_{415} - a_{417} - a_{429} - a_{431} + a_{432} + a_{435} + \\
& a_{438} - a_{441} - a_{443} - a_{448} - a_{451}
\end{aligned}
$$

$$
a_{838} = \frac{a_{326} + \sqrt{a_{326}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_3 + a_4 - a_7 - a_8 + a_9 - a_{25} + \\
& a_{26} - a_{27} + a_{28} - a_{42} - 2a_{44} + a_{46} + \\
& a_{48} - a_{49} - a_{51} - a_{52} + a_{74} - a_{78} + \\
& a_{79} - a_{80} - a_{90} + a_{91} - 2a_{92} - a_{97} + \\
& a_{98} - a_{99} - a_{100} + a_{199} - a_{202} + a_{206} - \\
& a_{207} + a_{213} + a_{217} - a_{219} - a_{226} + 2a_{227} - \\
& a_{238} - a_{240} + a_{244} + a_{246} - a_{250} - 2a_{252} + \\
& 2a_{128} + a_{130} - a_{132} - a_{327} + 2a_{330} + a_{331} - \\
& a_{345} + a_{346} + a_{356} + a_{357} + a_{360} + a_{364} + \\
& a_{366} + a_{368} + a_{370} + a_{371} - a_{372} - a_{374} + \\
& a_{377} + a_{378} + a_{380} + a_{383} - 2a_{384} - a_{385} - \\
& a_{387} + a_{388} + a_{392} - a_{394} + a_{395} + a_{397} - \\
& a_{399} + a_{405} + a_{406} + a_{408} + 3a_{409} + a_{415} + \\
& a_{416} - a_{418} - a_{430} - a_{432} + a_{433} + a_{436} + \\
& a_{439} - a_{442} - a_{444} - a_{449} - a_{452}
\end{aligned}
$$

$$
a_{839} = \frac{a_{327} + \sqrt{a_{327}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_4 + a_5 - a_8 - a_9 + a_{10} - a_{26} + \\
& a_{27} - a_{28} + a_{29} - a_{43} - 2a_{45} + a_{47} + \\
& a_{49} - a_{50} - a_{52} - a_{53} + a_{75} - a_{79} + \\
& a_{80} - a_{81} - a_{91} + a_{92} - 2a_{93} - a_{98} + \\
& a_{99} - a_{100} - a_{101} + a_{200} - a_{203} + a_{207} - \\
& a_{208} + a_{214} + a_{218} - a_{220} - a_{227} + 2a_{228} - \\
& a_{239} - a_{241} + a_{245} + a_{247} - a_{251} - 2a_{253} + \\
& 2a_{129} + a_{131} - a_{133} - a_{328} + 2a_{331} + a_{332} - \\
& a_{346} + a_{347} + a_{357} + a_{358} + a_{361} + a_{365} + \\
& a_{367} + a_{369} + a_{371} + a_{372} - a_{373} - a_{375} + \\
& a_{378} + a_{379} + a_{381} + a_{384} - 2a_{385} - a_{386} - \\
& a_{388} + a_{389} + a_{393} - a_{395} + a_{396} + a_{398} - \\
& a_{400} + a_{406} + a_{407} + a_{409} + 3a_{410} + a_{416} + \\
& a_{417} - a_{419} - a_{431} - a_{433} + a_{434} + a_{437} + \\
& a_{440} - a_{443} - a_{445} - a_{450} - a_{453}
\end{aligned}
$$

$$
a_{840} = \frac{a_{328} + \sqrt{a_{328}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_5 + a_6 - a_9 - a_{10} + a_{11} - a_{27} + \\
& a_{28} - a_{29} + a_{30} - a_{44} - 2a_{46} + a_{48} + \\
& a_{50} - a_{51} - a_{53} - a_{54} + a_{76} - a_{80} + \\
& a_{81} - a_{82} - a_{92} + a_{93} - 2a_{94} - a_{99} + \\
& a_{100} - a_{101} - a_{102} + a_{201} - a_{204} + a_{208} - \\
& a_{209} + a_{215} + a_{219} - a_{221} - a_{228} + 2a_{229} - \\
& a_{240} - a_{242} + a_{246} + a_{248} - a_{252} - 2a_{254} + \\
& 2a_{130} + a_{132} - a_{134} - a_{329} + 2a_{332} + a_{333} - \\
& a_{347} + a_{348} + a_{358} + a_{359} + a_{362} + a_{366} + \\
& a_{368} + a_{370} + a_{372} + a_{373} - a_{374} - a_{376} + \\
& a_{379} + a_{380} + a_{382} + a_{385} - 2a_{386} - a_{387} - \\
& a_{389} + a_{390} + a_{394} - a_{396} + a_{397} + a_{399} - \\
& a_{401} + a_{407} + a_{408} + a_{410} + 3a_{411} + a_{417} + \\
& a_{418} - a_{420} - a_{432} - a_{434} + a_{435} + a_{438} + \\
& a_{441} - a_{444} - a_{446} - a_{451} - a_{454}
\end{aligned}
$$

$$
\begin{aligned}
a_{841} &= \frac{a_{329}+\sqrt{a_{329}^2-4x}}{2}\\
x &= a_6+a_3-a_{10}-a_{11}+a_{12}-a_{28}+\\
&\quad a_{29}-a_{30}+a_{15}-a_{45}-2a_{47}+a_{49}+\\
&\quad a_{51}-a_{52}-a_{54}-a_{55}+a_{77}-a_{81}+\\
&\quad a_{82}-a_{83}-a_{93}+a_{94}-2a_{95}-a_{100}+\\
&\quad a_{101}-a_{102}-a_{103}+a_{202}-a_{205}+a_{209}-\\
&\quad a_{210}+a_{216}+a_{220}-a_{222}-a_{229}+2a_{230}-\\
&\quad a_{241}-a_{243}+a_{247}+a_{249}-a_{253}-2a_{127}+\\
&\quad 2a_{131}+a_{133}-a_{135}-a_{330}+2a_{333}+a_{334}-\\
&\quad a_{348}+a_{349}+a_{359}+a_{360}+a_{363}+a_{367}+\\
&\quad a_{369}+a_{371}+a_{373}+a_{374}-a_{375}-a_{377}+\\
&\quad a_{380}+a_{381}+a_{383}+a_{386}-2a_{387}-a_{388}-\\
&\quad a_{390}+a_{391}+a_{395}-a_{397}+a_{398}+a_{400}-\\
&\quad a_{402}+a_{408}+a_{409}+a_{411}+3a_{412}+a_{418}+\\
&\quad a_{419}-a_{421}-a_{433}-a_{435}+a_{436}+a_{439}+\\
&\quad a_{442}-a_{445}-a_{447}-a_{452}-a_{455}\\
a_{842} &= \frac{a_{330}-\sqrt{a_{330}^2-4x}}{2}\\
x &= a_3+a_4-a_{11}-a_{12}+a_{13}-a_{29}+\\
&\quad a_{30}-a_{15}+a_{16}-a_{46}-2a_{48}+a_{50}+\\
&\quad a_{52}-a_{53}-a_{55}-a_{56}+a_{78}-a_{82}+\\
&\quad a_{83}-a_{84}-a_{94}+a_{95}-2a_{96}-a_{101}+\\
&\quad a_{102}-a_{103}-a_{104}+a_{203}-a_{206}+a_{210}-\\
&\quad a_{211}+a_{217}+a_{221}-a_{223}-a_{230}+2a_{231}-\\
&\quad a_{242}-a_{244}+a_{248}+a_{250}-a_{254}-2a_{128}+\\
&\quad 2a_{132}+a_{134}-a_{136}-a_{331}+2a_{334}+a_{335}-\\
&\quad a_{349}+a_{350}+a_{360}+a_{361}+a_{364}+a_{368}+\\
&\quad a_{370}+a_{372}+a_{374}+a_{375}-a_{376}-a_{378}+\\
&\quad a_{381}+a_{382}+a_{384}+a_{387}-2a_{388}-a_{389}-\\
&\quad a_{391}+a_{392}+a_{396}-a_{398}+a_{399}+a_{401}-\\
&\quad a_{403}+a_{409}+a_{410}+a_{412}+3a_{413}+a_{419}+\\
&\quad a_{420}-a_{422}-a_{434}-a_{436}+a_{437}+a_{440}+\\
&\quad a_{443}-a_{446}-a_{448}-a_{453}-a_{456}\\
a_{843} &= \frac{a_{331}-\sqrt{a_{331}^2-4x}}{2}\\
x &= a_4+a_5-a_{12}-a_{13}+a_{14}-a_{30}+\\
&\quad a_{15}-a_{16}+a_{17}-a_{47}-2a_{49}+a_{51}+\\
&\quad a_{53}-a_{54}-a_{56}-a_{57}+a_{79}-a_{83}+\\
&\quad a_{84}-a_{85}-a_{95}+a_{96}-2a_{97}-a_{102}+\\
&\quad a_{103}-a_{104}-a_{105}+a_{204}-a_{207}+a_{211}-\\
&\quad a_{212}+a_{218}+a_{222}-a_{224}-a_{231}+2a_{232}-\\
&\quad a_{243}-a_{245}+a_{249}+a_{251}-a_{127}-2a_{129}+\\
&\quad 2a_{133}+a_{135}-a_{137}-a_{332}+2a_{335}+a_{336}-\\
&\quad a_{350}+a_{351}+a_{361}+a_{362}+a_{365}+a_{369}+\\
&\quad a_{371}+a_{373}+a_{375}+a_{376}-a_{377}-a_{379}+\\
&\quad a_{382}+a_{383}+a_{385}+a_{388}-2a_{389}-a_{390}-\\
&\quad a_{392}+a_{393}+a_{397}-a_{399}+a_{400}+a_{402}-\\
&\quad a_{404}+a_{410}+a_{411}+a_{413}+3a_{414}+a_{420}+\\
&\quad a_{421}-a_{423}-a_{435}-a_{437}+a_{438}+a_{441}+\\
&\quad a_{444}-a_{447}-a_{449}-a_{454}-a_{457}\\
a_{844} &= \frac{a_{332}-\sqrt{a_{332}^2-4x}}{2}\\
x &= a_5+a_6-a_{13}-a_{14}+a_7-a_{15}+\\
&\quad a_{16}-a_{17}+a_{18}-a_{48}-2a_{50}+a_{52}+\\
&\quad a_{54}-a_{55}-a_{57}-a_{58}+a_{80}-a_{84}+\\
&\quad a_{85}-a_{86}-a_{96}+a_{97}-2a_{98}-a_{103}+\\
&\quad a_{104}-a_{105}-a_{106}+a_{205}-a_{208}+a_{212}-\\
&\quad a_{213}+a_{219}+a_{223}-a_{225}-a_{232}+2a_{233}-\\
&\quad a_{244}-a_{246}+a_{250}+a_{252}-a_{128}-2a_{130}+\\
&\quad 2a_{134}+a_{136}-a_{138}-a_{333}+2a_{336}+a_{337}-\\
&\quad a_{351}+a_{352}+a_{362}+a_{363}+a_{366}+a_{370}+\\
&\quad a_{372}+a_{374}+a_{376}+a_{377}-a_{378}-a_{380}+\\
&\quad a_{383}+a_{384}+a_{386}+a_{389}-2a_{390}-a_{391}-\\
&\quad a_{393}+a_{394}+a_{398}-a_{400}+a_{401}+a_{403}-\\
&\quad a_{405}+a_{411}+a_{412}+a_{414}+3a_{415}+a_{421}+\\
&\quad a_{422}-a_{424}-a_{436}-a_{438}+a_{439}+a_{442}+\\
&\quad a_{445}-a_{448}-a_{450}-a_{455}-a_{458}\\
a_{845} &= \frac{a_{333}-\sqrt{a_{333}^2-4x}}{2}\\
x &= a_6+a_3-a_{14}-a_7+a_8-a_{16}+\\
&\quad a_{17}-a_{18}+a_{19}-a_{49}-2a_{51}+a_{53}+\\
&\quad a_{55}-a_{56}-a_{58}-a_{59}+a_{81}-a_{85}+\\
&\quad a_{86}-a_{87}-a_{97}+a_{98}-2a_{99}-a_{104}+\\
&\quad a_{105}-a_{106}-a_{107}+a_{206}-a_{209}+a_{213}-\\
&\quad a_{214}+a_{220}+a_{224}-a_{226}-a_{233}+2a_{234}-\\
&\quad a_{245}-a_{247}+a_{251}+a_{253}-a_{129}-2a_{131}+\\
&\quad 2a_{135}+a_{137}-a_{139}-a_{334}+2a_{337}+a_{338}-\\
&\quad a_{352}+a_{353}+a_{363}+a_{364}+a_{367}+a_{371}+\\
&\quad a_{373}+a_{375}+a_{377}+a_{378}-a_{379}-a_{381}+\\
&\quad a_{384}+a_{385}+a_{387}+a_{390}-2a_{391}-a_{392}-\\
&\quad a_{394}+a_{395}+a_{399}-a_{401}+a_{402}+a_{404}-\\
&\quad a_{406}+a_{412}+a_{413}+a_{415}+3a_{416}+a_{422}+\\
&\quad a_{423}-a_{425}-a_{437}-a_{439}+a_{440}+a_{443}+\\
&\quad a_{446}-a_{449}-a_{451}-a_{456}-a_{459}\\
a_{846} &= \frac{a_{334}+\sqrt{a_{334}^2-4x}}{2}\\
x &= a_3+a_4-a_7-a_8+a_9-a_{17}+\\
&\quad a_{18}-a_{19}+a_{20}-a_{50}-2a_{52}+a_{54}+\\
&\quad a_{56}-a_{57}-a_{59}-a_{60}+a_{82}-a_{86}+\\
&\quad a_{87}-a_{88}-a_{98}+a_{99}-2a_{100}-a_{105}+\\
&\quad a_{106}-a_{107}-a_{108}+a_{207}-a_{210}+a_{214}-\\
&\quad a_{215}+a_{221}+a_{225}-a_{227}-a_{234}+2a_{235}-\\
&\quad a_{246}-a_{248}+a_{252}+a_{254}-a_{130}-2a_{132}+\\
&\quad 2a_{136}+a_{138}-a_{140}-a_{335}+2a_{338}+a_{339}-\\
&\quad a_{353}+a_{354}+a_{364}+a_{365}+a_{368}+a_{372}+\\
&\quad a_{374}+a_{376}+a_{378}+a_{379}-a_{380}-a_{382}+\\
&\quad a_{385}+a_{386}+a_{388}+a_{391}-2a_{392}-a_{393}-
\end{aligned}
$$

$$
\begin{aligned}
& a_{395} + a_{396} + a_{400} - a_{402} + a_{403} + a_{405} - \\
& a_{407} + a_{413} + a_{414} + a_{416} + 3a_{417} + a_{423} + \\
& a_{424} - a_{426} - a_{438} - a_{440} + a_{441} + a_{444} + \\
& a_{447} - a_{450} - a_{452} - a_{457} - a_{460}
\end{aligned}
$$

$$
a_{847} = \frac{a_{335} + \sqrt{a_{335}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_4 + a_5 - a_8 - a_9 + a_{10} - a_{18} + \\
& a_{19} - a_{20} + a_{21} - a_{51} - 2a_{53} + a_{55} + \\
& a_{57} - a_{58} - a_{60} - a_{61} + a_{83} - a_{87} + \\
& a_{88} - a_{89} - a_{99} + a_{100} - 2a_{101} - a_{106} + \\
& a_{107} - a_{108} - a_{109} + a_{208} - a_{211} + a_{215} - \\
& a_{216} + a_{222} + a_{226} - a_{228} - a_{235} + 2a_{236} - \\
& a_{247} - a_{249} + a_{253} + a_{127} - a_{131} - 2a_{133} + \\
& 2a_{137} + a_{139} - a_{141} - a_{336} + 2a_{339} + a_{340} - \\
& a_{354} + a_{355} + a_{365} + a_{366} + a_{369} + a_{373} + \\
& a_{375} + a_{377} + a_{379} + a_{380} - a_{381} - a_{383} + \\
& a_{386} + a_{387} + a_{389} + a_{392} - 2a_{393} - a_{394} - \\
& a_{396} + a_{397} + a_{401} - a_{403} + a_{404} + a_{406} - \\
& a_{408} + a_{414} + a_{415} + a_{417} + 3a_{418} + a_{424} + \\
& a_{425} - a_{427} - a_{439} - a_{441} + a_{442} + a_{445} + \\
& a_{448} - a_{451} - a_{453} - a_{458} - a_{461}
\end{aligned}
$$

$$
a_{848} = \frac{a_{336} - \sqrt{a_{336}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_5 + a_6 - a_9 - a_{10} + a_{11} - a_{19} + \\
& a_{20} - a_{21} + a_{22} - a_{52} - 2a_{54} + a_{56} + \\
& a_{58} - a_{59} - a_{61} - a_{62} + a_{84} - a_{88} + \\
& a_{89} - a_{90} - a_{100} + a_{101} - 2a_{102} - a_{107} + \\
& a_{108} - a_{109} - a_{110} + a_{209} - a_{212} + a_{216} - \\
& a_{217} + a_{223} + a_{227} - a_{229} - a_{236} + 2a_{237} - \\
& a_{248} - a_{250} + a_{254} + a_{128} - a_{132} - 2a_{134} + \\
& 2a_{138} + a_{140} - a_{142} - a_{337} + 2a_{340} + a_{341} - \\
& a_{355} + a_{356} + a_{366} + a_{367} + a_{370} + a_{374} + \\
& a_{376} + a_{378} + a_{380} + a_{381} - a_{382} - a_{384} + \\
& a_{387} + a_{388} + a_{390} + a_{393} - 2a_{394} - a_{395} - \\
& a_{397} + a_{398} + a_{402} - a_{404} + a_{405} + a_{407} - \\
& a_{409} + a_{415} + a_{416} + a_{418} + 3a_{419} + a_{425} + \\
& a_{426} - a_{428} - a_{440} - a_{442} + a_{443} + a_{446} + \\
& a_{449} - a_{452} - a_{454} - a_{459} - a_{462}
\end{aligned}
$$

$$
a_{849} = \frac{a_{337} + \sqrt{a_{337}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_6 + a_3 - a_{10} - a_{11} + a_{12} - a_{20} + \\
& a_{21} - a_{22} + a_{23} - a_{53} - 2a_{55} + a_{57} + \\
& a_{59} - a_{60} - a_{62} - a_{31} + a_{85} - a_{89} + \\
& a_{90} - a_{91} - a_{101} + a_{102} - 2a_{103} - a_{108} + \\
& a_{109} - a_{110} - a_{111} + a_{210} - a_{213} + a_{217} - \\
& a_{218} + a_{224} + a_{228} - a_{230} - a_{237} + 2a_{238} - \\
& a_{249} - a_{251} + a_{127} + a_{129} - a_{133} - 2a_{135} + \\
& 2a_{139} + a_{141} - a_{143} - a_{338} + 2a_{341} + a_{342} - \\
& a_{356} + a_{357} + a_{367} + a_{368} + a_{371} + a_{375} + \\
& a_{377} + a_{379} + a_{381} + a_{382} - a_{383} - a_{385} + \\
& a_{388} + a_{389} + a_{391} + a_{394} - 2a_{395} - a_{396} - \\
& a_{398} + a_{399} + a_{403} - a_{405} + a_{406} + a_{408} - \\
& a_{410} + a_{416} + a_{417} + a_{419} + 3a_{420} + a_{426} + \\
& a_{427} - a_{429} - a_{441} - a_{443} + a_{444} + a_{447} + \\
& a_{450} - a_{453} - a_{455} - a_{460} - a_{463}
\end{aligned}
$$

$$
a_{850} = \frac{a_{338} - \sqrt{a_{338}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_3 + a_4 - a_{11} - a_{12} + a_{13} - a_{21} + \\
& a_{22} - a_{23} + a_{24} - a_{54} - 2a_{56} + a_{58} + \\
& a_{60} - a_{61} - a_{31} - a_{32} + a_{86} - a_{90} + \\
& a_{91} - a_{92} - a_{102} + a_{103} - 2a_{104} - a_{109} + \\
& a_{110} - a_{111} - a_{112} + a_{211} - a_{214} + a_{218} - \\
& a_{219} + a_{225} + a_{229} - a_{231} - a_{238} + 2a_{239} - \\
& a_{250} - a_{252} + a_{128} + a_{130} - a_{134} - 2a_{136} + \\
& 2a_{140} + a_{142} - a_{144} - a_{339} + 2a_{342} + a_{343} - \\
& a_{357} + a_{358} + a_{368} + a_{369} + a_{372} + a_{376} + \\
& a_{378} + a_{380} + a_{382} + a_{383} - a_{384} - a_{386} + \\
& a_{389} + a_{390} + a_{392} + a_{395} - 2a_{396} - a_{397} - \\
& a_{399} + a_{400} + a_{404} - a_{406} + a_{407} + a_{409} - \\
& a_{411} + a_{417} + a_{418} + a_{420} + 3a_{421} + a_{427} + \\
& a_{428} - a_{430} - a_{442} - a_{444} + a_{445} + a_{448} + \\
& a_{451} - a_{454} - a_{456} - a_{461} - a_{464}
\end{aligned}
$$

$$
a_{851} = \frac{a_{339} + \sqrt{a_{339}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_4 + a_5 - a_{12} - a_{13} + a_{14} - a_{22} + \\
& a_{23} - a_{24} + a_{25} - a_{55} - 2a_{57} + a_{59} + \\
& a_{61} - a_{62} - a_{32} - a_{33} + a_{87} - a_{91} + \\
& a_{92} - a_{93} - a_{103} + a_{104} - 2a_{105} - a_{110} + \\
& a_{111} - a_{112} - a_{113} + a_{212} - a_{215} + a_{219} - \\
& a_{220} + a_{226} + a_{230} - a_{232} - a_{239} + 2a_{240} - \\
& a_{251} - a_{253} + a_{129} + a_{131} - a_{135} - 2a_{137} + \\
& 2a_{141} + a_{143} - a_{145} - a_{340} + 2a_{343} + a_{344} - \\
& a_{358} + a_{359} + a_{369} + a_{370} + a_{373} + a_{377} + \\
& a_{379} + a_{381} + a_{383} + a_{384} - a_{385} - a_{387} + \\
& a_{390} + a_{391} + a_{393} + a_{396} - 2a_{397} - a_{398} - \\
& a_{400} + a_{401} + a_{405} - a_{407} + a_{408} + a_{410} - \\
& a_{412} + a_{418} + a_{419} + a_{421} + 3a_{422} + a_{428} + \\
& a_{429} - a_{431} - a_{443} - a_{445} + a_{446} + a_{449} + \\
& a_{452} - a_{455} - a_{457} - a_{462} - a_{465}
\end{aligned}
$$

$$
a_{852} = \frac{a_{340} + \sqrt{a_{340}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_5 + a_6 - a_{13} - a_{14} + a_7 - a_{23} + \\
& a_{24} - a_{25} + a_{26} - a_{56} - 2a_{58} + a_{60} + \\
& a_{62} - a_{31} - a_{33} - a_{34} + a_{88} - a_{92} + \\
& a_{93} - a_{94} - a_{104} + a_{105} - 2a_{106} - a_{111} + \\
& a_{112} - a_{113} - a_{114} + a_{213} - a_{216} + a_{220} - \\
& a_{221} + a_{227} + a_{231} - a_{233} - a_{240} + 2a_{241} -
\end{aligned}
$$

$$
\begin{aligned}
& a_{252} - a_{254} + a_{130} + a_{132} - a_{136} - 2a_{138} + \\
& 2a_{142} + a_{144} - a_{146} - a_{341} + 2a_{344} + a_{345} - \\
& a_{359} + a_{360} + a_{370} + a_{371} + a_{374} + a_{378} + \\
& a_{380} + a_{382} + a_{384} + a_{385} - a_{386} - a_{388} + \\
& a_{391} + a_{392} + a_{394} + a_{397} - 2a_{398} - a_{399} - \\
& a_{401} + a_{402} + a_{406} - a_{408} + a_{409} + a_{411} - \\
& a_{413} + a_{419} + a_{420} + a_{422} + 3a_{423} + a_{429} + \\
& a_{430} - a_{432} - a_{444} - a_{446} + a_{447} + a_{450} + \\
& a_{453} - a_{456} - a_{458} - a_{463} - a_{466}
\end{aligned}
$$

$$
a_{853} = \frac{a_{341} - \sqrt{a_{341}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_6 + a_3 - a_{14} - a_7 + a_8 - a_{24} + \\
& a_{25} - a_{26} + a_{27} - a_{57} - 2a_{59} + a_{61} + \\
& a_{31} - a_{32} - a_{34} - a_{35} + a_{89} - a_{93} + \\
& a_{94} - a_{95} - a_{105} + a_{106} - 2a_{107} - a_{112} + \\
& a_{113} - a_{114} - a_{115} + a_{214} - a_{217} + a_{221} - \\
& a_{222} + a_{228} + a_{232} - a_{234} - a_{241} + 2a_{242} - \\
& a_{253} - a_{127} + a_{131} + a_{133} - a_{137} - 2a_{139} + \\
& 2a_{143} + a_{145} - a_{147} - a_{342} + 2a_{345} + a_{346} - \\
& a_{360} + a_{361} + a_{371} + a_{372} + a_{375} + a_{379} + \\
& a_{381} + a_{383} + a_{385} + a_{386} - a_{387} - a_{389} + \\
& a_{392} + a_{393} + a_{395} + a_{398} - 2a_{399} - a_{400} - \\
& a_{402} + a_{403} + a_{407} - a_{409} + a_{410} + a_{412} - \\
& a_{414} + a_{420} + a_{421} + a_{423} + 3a_{424} + a_{430} + \\
& a_{431} - a_{433} - a_{445} - a_{447} + a_{448} + a_{451} + \\
& a_{454} - a_{457} - a_{459} - a_{464} - a_{467}
\end{aligned}
$$

$$
a_{854} = \frac{a_{342} + \sqrt{a_{342}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_3 + a_4 - a_7 - a_8 + a_9 - a_{25} + \\
& a_{26} - a_{27} + a_{28} - a_{58} - 2a_{60} + a_{62} + \\
& a_{32} - a_{33} - a_{35} - a_{36} + a_{90} - a_{94} + \\
& a_{95} - a_{96} - a_{106} + a_{107} - 2a_{108} - a_{113} + \\
& a_{114} - a_{115} - a_{116} + a_{215} - a_{218} + a_{222} - \\
& a_{223} + a_{229} + a_{233} - a_{235} - a_{242} + 2a_{243} - \\
& a_{254} - a_{128} + a_{132} + a_{134} - a_{138} - 2a_{140} + \\
& 2a_{144} + a_{146} - a_{148} - a_{343} + 2a_{346} + a_{347} - \\
& a_{361} + a_{362} + a_{372} + a_{373} + a_{376} + a_{380} + \\
& a_{382} + a_{384} + a_{386} + a_{387} - a_{388} - a_{390} + \\
& a_{393} + a_{394} + a_{396} + a_{399} - 2a_{400} - a_{401} - \\
& a_{403} + a_{404} + a_{408} - a_{410} + a_{411} + a_{413} - \\
& a_{415} + a_{421} + a_{422} + a_{424} + 3a_{425} + a_{431} + \\
& a_{432} - a_{434} - a_{446} - a_{448} + a_{449} + a_{452} + \\
& a_{455} - a_{458} - a_{460} - a_{465} - a_{468}
\end{aligned}
$$

$$
a_{855} = \frac{a_{343} - \sqrt{a_{343}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_4 + a_5 - a_8 - a_9 + a_{10} - a_{26} + \\
& a_{27} - a_{28} + a_{29} - a_{59} - 2a_{61} + a_{31} + \\
& a_{33} - a_{34} - a_{36} - a_{37} + a_{91} - a_{95} + \\
& a_{96} - a_{97} - a_{107} + a_{108} - 2a_{109} - a_{114} + \\
& a_{115} - a_{116} - a_{117} + a_{216} - a_{219} + a_{223} - \\
& a_{224} + a_{230} + a_{234} - a_{236} - a_{243} + 2a_{244} - \\
& a_{127} - a_{129} + a_{133} + a_{135} - a_{139} - 2a_{141} + \\
& 2a_{145} + a_{147} - a_{149} - a_{344} + 2a_{347} + a_{348} - \\
& a_{362} + a_{363} + a_{373} + a_{374} + a_{377} + a_{381} + \\
& a_{383} + a_{385} + a_{387} + a_{388} - a_{389} - a_{391} + \\
& a_{394} + a_{395} + a_{397} + a_{400} - 2a_{401} - a_{402} - \\
& a_{404} + a_{405} + a_{409} - a_{411} + a_{412} + a_{414} - \\
& a_{416} + a_{422} + a_{423} + a_{425} + 3a_{426} + a_{432} + \\
& a_{433} - a_{435} - a_{447} - a_{449} + a_{450} + a_{453} + \\
& a_{456} - a_{459} - a_{461} - a_{466} - a_{469}
\end{aligned}
$$

$$
a_{856} = \frac{a_{344} - \sqrt{a_{344}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_5 + a_6 - a_9 - a_{10} + a_{11} - a_{27} + \\
& a_{28} - a_{29} + a_{30} - a_{60} - 2a_{62} + a_{32} + \\
& a_{34} - a_{35} - a_{37} - a_{38} + a_{92} - a_{96} + \\
& a_{97} - a_{98} - a_{108} + a_{109} - 2a_{110} - a_{115} + \\
& a_{116} - a_{117} - a_{118} + a_{217} - a_{220} + a_{224} - \\
& a_{225} + a_{231} + a_{235} - a_{237} - a_{244} + 2a_{245} - \\
& a_{128} - a_{130} + a_{134} + a_{136} - a_{140} - 2a_{142} + \\
& 2a_{146} + a_{148} - a_{150} - a_{345} + 2a_{348} + a_{349} - \\
& a_{363} + a_{364} + a_{374} + a_{375} + a_{378} + a_{382} + \\
& a_{384} + a_{386} + a_{388} + a_{389} - a_{390} - a_{392} + \\
& a_{395} + a_{396} + a_{398} + a_{401} - 2a_{402} - a_{403} - \\
& a_{405} + a_{406} + a_{410} - a_{412} + a_{413} + a_{415} - \\
& a_{417} + a_{423} + a_{424} + a_{426} + 3a_{427} + a_{433} + \\
& a_{434} - a_{436} - a_{448} - a_{450} + a_{451} + a_{454} + \\
& a_{457} - a_{460} - a_{462} - a_{467} - a_{470}
\end{aligned}
$$

$$
a_{857} = \frac{a_{345} - \sqrt{a_{345}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_6 + a_3 - a_{10} - a_{11} + a_{12} - a_{28} + \\
& a_{29} - a_{30} + a_{15} - a_{61} - 2a_{31} + a_{33} + \\
& a_{35} - a_{36} - a_{38} - a_{39} + a_{93} - a_{97} + \\
& a_{98} - a_{99} - a_{109} + a_{110} - 2a_{111} - a_{116} + \\
& a_{117} - a_{118} - a_{119} + a_{218} - a_{221} + a_{225} - \\
& a_{226} + a_{232} + a_{236} - a_{238} - a_{245} + 2a_{246} - \\
& a_{129} - a_{131} + a_{135} + a_{137} - a_{141} - 2a_{143} + \\
& 2a_{147} + a_{149} - a_{151} - a_{346} + 2a_{349} + a_{350} - \\
& a_{364} + a_{365} + a_{375} + a_{376} + a_{379} + a_{383} + \\
& a_{385} + a_{387} + a_{389} + a_{390} - a_{391} - a_{393} + \\
& a_{396} + a_{397} + a_{399} + a_{402} - 2a_{403} - a_{404} - \\
& a_{406} + a_{407} + a_{411} - a_{413} + a_{414} + a_{416} - \\
& a_{418} + a_{424} + a_{425} + a_{427} + 3a_{428} + a_{434} + \\
& a_{435} - a_{437} - a_{449} - a_{451} + a_{452} + a_{455} + \\
& a_{458} - a_{461} - a_{463} - a_{468} - a_{471}
\end{aligned}
$$

$$
a_{858} = \frac{a_{346} + \sqrt{a_{346}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_3 + a_4 - a_{11} - a_{12} + a_{13} - a_{29} + \\
& a_{30} - a_{15} + a_{16} - a_{62} - 2a_{32} + a_{34} +
\end{aligned}
$$

$$
\begin{aligned}
& a_{36} - a_{37} - a_{39} - a_{40} + a_{94} - a_{98} + \\
& a_{99} - a_{100} - a_{110} + a_{111} - 2a_{112} - a_{117} + \\
& a_{118} - a_{119} - a_{120} + a_{219} - a_{222} + a_{226} - \\
& a_{227} + a_{233} + a_{237} - a_{239} - a_{246} + 2a_{247} - \\
& a_{130} - a_{132} + a_{136} + a_{138} - a_{142} - 2a_{144} + \\
& 2a_{148} + a_{150} - a_{152} - a_{347} + 2a_{350} + a_{351} - \\
& a_{365} + a_{366} + a_{376} + a_{377} + a_{380} + a_{384} + \\
& a_{386} + a_{388} + a_{390} + a_{391} - a_{392} - a_{394} + \\
& a_{397} + a_{398} + a_{400} + a_{403} - 2a_{404} - a_{405} - \\
& a_{407} + a_{408} + a_{412} - a_{414} + a_{415} + a_{417} - \\
& a_{419} + a_{425} + a_{426} + a_{428} + 3a_{429} + a_{435} + \\
& a_{436} - a_{438} - a_{450} - a_{452} + a_{453} + a_{456} + \\
& a_{459} - a_{462} - a_{464} - a_{469} - a_{472}
\end{aligned}
$$

$$
\begin{aligned}
a_{859} &= \frac{a_{347} - \sqrt{a_{347}^2 - 4x}}{2} \\
x &= a_4 + a_5 - a_{12} - a_{13} + a_{14} - a_{30} + \\
& a_{15} - a_{16} + a_{17} - a_{31} - 2a_{33} + a_{35} + \\
& a_{37} - a_{38} - a_{40} - a_{41} + a_{95} - a_{99} + \\
& a_{100} - a_{101} - a_{111} + a_{112} - 2a_{113} - a_{118} + \\
& a_{119} - a_{120} - a_{121} + a_{220} - a_{223} + a_{227} - \\
& a_{228} + a_{234} + a_{238} - a_{240} - a_{247} + 2a_{248} - \\
& a_{131} - a_{133} + a_{137} + a_{139} - a_{143} - 2a_{145} + \\
& 2a_{149} + a_{151} - a_{153} - a_{348} + 2a_{351} + a_{352} - \\
& a_{366} + a_{367} + a_{377} + a_{378} + a_{381} + a_{385} + \\
& a_{387} + a_{389} + a_{391} + a_{392} - a_{393} - a_{395} + \\
& a_{398} + a_{399} + a_{401} + a_{404} - 2a_{405} - a_{406} - \\
& a_{408} + a_{409} + a_{413} - a_{415} + a_{416} + a_{418} - \\
& a_{420} + a_{426} + a_{427} + a_{429} + 3a_{430} + a_{436} + \\
& a_{437} - a_{439} - a_{451} - a_{453} + a_{454} + a_{457} + \\
& a_{460} - a_{463} - a_{465} - a_{470} - a_{473}
\end{aligned}
$$

$$
\begin{aligned}
a_{860} &= \frac{a_{348} - \sqrt{a_{348}^2 - 4x}}{2} \\
x &= a_5 + a_6 - a_{13} - a_{14} + a_7 - a_{15} + \\
& a_{16} - a_{17} + a_{18} - a_{32} - 2a_{34} + a_{36} + \\
& a_{38} - a_{39} - a_{41} - a_{42} + a_{96} - a_{100} + \\
& a_{101} - a_{102} - a_{112} + a_{113} - 2a_{114} - a_{119} + \\
& a_{120} - a_{121} - a_{122} + a_{221} - a_{224} + a_{228} - \\
& a_{229} + a_{235} + a_{239} - a_{241} - a_{248} + 2a_{249} - \\
& a_{132} - a_{134} + a_{138} + a_{140} - a_{144} - 2a_{146} + \\
& 2a_{150} + a_{152} - a_{154} - a_{349} + 2a_{352} + a_{353} - \\
& a_{367} + a_{368} + a_{378} + a_{379} + a_{382} + a_{386} + \\
& a_{388} + a_{390} + a_{392} + a_{393} - a_{394} - a_{396} + \\
& a_{399} + a_{400} + a_{402} + a_{405} - 2a_{406} - a_{407} - \\
& a_{409} + a_{410} + a_{414} - a_{416} + a_{417} + a_{419} - \\
& a_{421} + a_{427} + a_{428} + a_{430} + 3a_{431} + a_{437} + \\
& a_{438} - a_{440} - a_{452} - a_{454} + a_{455} + a_{458} + \\
& a_{461} - a_{464} - a_{466} - a_{471} - a_{474}
\end{aligned}
$$

$$
\begin{aligned}
a_{861} &= \frac{a_{349} + \sqrt{a_{349}^2 - 4x}}{2} \\
x &= a_6 + a_3 - a_{14} - a_7 + a_8 - a_{16} + \\
& a_{17} - a_{18} + a_{19} - a_{33} - 2a_{35} + a_{37} + \\
& a_{39} - a_{40} - a_{42} - a_{43} + a_{97} - a_{101} + \\
& a_{102} - a_{103} - a_{113} + a_{114} - 2a_{115} - a_{120} + \\
& a_{121} - a_{122} - a_{123} + a_{222} - a_{225} + a_{229} - \\
& a_{230} + a_{236} + a_{240} - a_{242} - a_{249} + 2a_{250} - \\
& a_{133} - a_{135} + a_{139} + a_{141} - a_{145} - 2a_{147} + \\
& 2a_{151} + a_{153} - a_{155} - a_{350} + 2a_{353} + a_{354} - \\
& a_{368} + a_{369} + a_{379} + a_{380} + a_{383} + a_{387} + \\
& a_{389} + a_{391} + a_{393} + a_{394} - a_{395} - a_{397} + \\
& a_{400} + a_{401} + a_{403} + a_{406} - 2a_{407} - a_{408} - \\
& a_{410} + a_{411} + a_{415} - a_{417} + a_{418} + a_{420} - \\
& a_{422} + a_{428} + a_{429} + a_{431} + 3a_{432} + a_{438} + \\
& a_{439} - a_{441} - a_{453} - a_{455} + a_{456} + a_{459} + \\
& a_{462} - a_{465} - a_{467} - a_{472} - a_{475}
\end{aligned}
$$

$$
\begin{aligned}
a_{862} &= \frac{a_{350} - \sqrt{a_{350}^2 - 4x}}{2} \\
x &= a_3 + a_4 - a_7 - a_8 + a_9 - a_{17} + \\
& a_{18} - a_{19} + a_{20} - a_{34} - 2a_{36} + a_{38} + \\
& a_{40} - a_{41} - a_{43} - a_{44} + a_{98} - a_{102} + \\
& a_{103} - a_{104} - a_{114} + a_{115} - 2a_{116} - a_{121} + \\
& a_{122} - a_{123} - a_{124} + a_{223} - a_{226} + a_{230} - \\
& a_{231} + a_{237} + a_{241} - a_{243} - a_{250} + 2a_{251} - \\
& a_{134} - a_{136} + a_{140} + a_{142} - a_{146} - 2a_{148} + \\
& 2a_{152} + a_{154} - a_{156} - a_{351} + 2a_{354} + a_{355} - \\
& a_{369} + a_{370} + a_{380} + a_{381} + a_{384} + a_{388} + \\
& a_{390} + a_{392} + a_{394} + a_{395} - a_{396} - a_{398} + \\
& a_{401} + a_{402} + a_{404} + a_{407} - 2a_{408} - a_{409} - \\
& a_{411} + a_{412} + a_{416} - a_{418} + a_{419} + a_{421} - \\
& a_{423} + a_{429} + a_{430} + a_{432} + 3a_{433} + a_{439} + \\
& a_{440} - a_{442} - a_{454} - a_{456} + a_{457} + a_{460} + \\
& a_{463} - a_{466} - a_{468} - a_{473} - a_{476}
\end{aligned}
$$

$$
\begin{aligned}
a_{863} &= \frac{a_{351} - \sqrt{a_{351}^2 - 4x}}{2} \\
x &= a_4 + a_5 - a_8 - a_9 + a_{10} - a_{18} + \\
& a_{19} - a_{20} + a_{21} - a_{35} - 2a_{37} + a_{39} + \\
& a_{41} - a_{42} - a_{44} - a_{45} + a_{99} - a_{103} + \\
& a_{104} - a_{105} - a_{115} + a_{116} - 2a_{117} - a_{122} + \\
& a_{123} - a_{124} - a_{125} + a_{224} - a_{227} + a_{231} - \\
& a_{232} + a_{238} + a_{242} - a_{244} - a_{251} + 2a_{252} - \\
& a_{135} - a_{137} + a_{141} + a_{143} - a_{147} - 2a_{149} + \\
& 2a_{153} + a_{155} - a_{157} - a_{352} + 2a_{355} + a_{356} - \\
& a_{370} + a_{371} + a_{381} + a_{382} + a_{385} + a_{389} + \\
& a_{391} + a_{393} + a_{395} + a_{396} - a_{397} - a_{399} + \\
& a_{402} + a_{403} + a_{405} + a_{408} - 2a_{409} - a_{410} - \\
& a_{412} + a_{413} + a_{417} - a_{419} + a_{420} + a_{422} - \\
& a_{424} + a_{430} + a_{431} + a_{433} + 3a_{434} + a_{440} +
\end{aligned}
$$

$$
\begin{aligned}
& a_{441} - a_{443} - a_{455} - a_{457} + a_{458} + a_{461} + \\
& a_{464} - a_{467} - a_{469} - a_{474} - a_{477} \\
a_{864} &= \frac{a_{352} - \sqrt{a_{352}^2 - 4x}}{2} \\
x &= a_5 + a_6 - a_9 - a_{10} + a_{11} - a_{19} + \\
& a_{20} - a_{21} + a_{22} - a_{36} - 2a_{38} + a_{40} + \\
& a_{42} - a_{43} - a_{45} - a_{46} + a_{100} - a_{104} + \\
& a_{105} - a_{106} - a_{116} + a_{117} - 2a_{118} - a_{123} + \\
& a_{124} - a_{125} - a_{126} + a_{225} - a_{228} + a_{232} - \\
& a_{233} + a_{239} + a_{243} - a_{245} - a_{252} + 2a_{253} - \\
& a_{136} - a_{138} + a_{142} + a_{144} - a_{148} - 2a_{150} + \\
& 2a_{154} + a_{156} - a_{158} - a_{353} + 2a_{356} + a_{357} - \\
& a_{371} + a_{372} + a_{382} + a_{383} + a_{386} + a_{390} + \\
& a_{392} + a_{394} + a_{396} + a_{397} - a_{398} - a_{400} + \\
& a_{403} + a_{404} + a_{406} + a_{409} - 2a_{410} - a_{411} - \\
& a_{413} + a_{414} + a_{418} - a_{420} + a_{421} + a_{423} - \\
& a_{425} + a_{431} + a_{432} + a_{434} + 3a_{435} + a_{441} + \\
& a_{442} - a_{444} - a_{456} - a_{458} + a_{459} + a_{462} + \\
& a_{465} - a_{468} - a_{470} - a_{475} - a_{478} \\
a_{865} &= \frac{a_{353} + \sqrt{a_{353}^2 - 4x}}{2} \\
x &= a_6 + a_3 - a_{10} - a_{11} + a_{12} - a_{20} + \\
& a_{21} - a_{22} + a_{23} - a_{37} - 2a_{39} + a_{41} + \\
& a_{43} - a_{44} - a_{46} - a_{47} + a_{101} - a_{105} + \\
& a_{106} - a_{107} - a_{117} + a_{118} - 2a_{119} - a_{124} + \\
& a_{125} - a_{126} - a_{63} + a_{226} - a_{229} + a_{233} - \\
& a_{234} + a_{240} + a_{244} - a_{246} - a_{253} + 2a_{254} - \\
& a_{137} - a_{139} + a_{143} + a_{145} - a_{149} - 2a_{151} + \\
& 2a_{155} + a_{157} - a_{159} - a_{354} + 2a_{357} + a_{358} - \\
& a_{372} + a_{373} + a_{383} + a_{384} + a_{387} + a_{391} + \\
& a_{393} + a_{395} + a_{397} + a_{398} - a_{399} - a_{401} + \\
& a_{404} + a_{405} + a_{407} + a_{410} - 2a_{411} - a_{412} - \\
& a_{414} + a_{415} + a_{419} - a_{421} + a_{422} + a_{424} - \\
& a_{426} + a_{432} + a_{433} + a_{435} + 3a_{436} + a_{442} + \\
& a_{443} - a_{445} - a_{457} - a_{459} + a_{460} + a_{463} + \\
& a_{466} - a_{469} - a_{471} - a_{476} - a_{479} \\
a_{866} &= \frac{a_{354} + \sqrt{a_{354}^2 - 4x}}{2} \\
x &= a_3 + a_4 - a_{11} - a_{12} + a_{13} - a_{21} + \\
& a_{22} - a_{23} + a_{24} - a_{38} - 2a_{40} + a_{42} + \\
& a_{44} - a_{45} - a_{47} - a_{48} + a_{102} - a_{106} + \\
& a_{107} - a_{108} - a_{118} + a_{119} - 2a_{120} - a_{125} + \\
& a_{126} - a_{63} - a_{64} + a_{227} - a_{230} + a_{234} - \\
& a_{235} + a_{241} + a_{245} - a_{247} - a_{254} + 2a_{127} - \\
& a_{138} - a_{140} + a_{144} + a_{146} - a_{150} - 2a_{152} + \\
& 2a_{156} + a_{158} - a_{160} - a_{355} + 2a_{358} + a_{359} - \\
& a_{373} + a_{374} + a_{384} + a_{385} + a_{388} + a_{392} + \\
& a_{394} + a_{396} + a_{398} + a_{399} - a_{400} - a_{402} + \\
& a_{405} + a_{406} + a_{408} + a_{411} - 2a_{412} - a_{413} - \\
& a_{415} + a_{416} + a_{420} - a_{422} + a_{423} + a_{425} - \\
& a_{427} + a_{433} + a_{434} + a_{436} + 3a_{437} + a_{443} + \\
& a_{444} - a_{446} - a_{458} - a_{460} + a_{461} + a_{464} + \\
& a_{467} - a_{470} - a_{472} - a_{477} - a_{480} \\
a_{867} &= \frac{a_{355} + \sqrt{a_{355}^2 - 4x}}{2} \\
x &= a_4 + a_5 - a_{12} - a_{13} + a_{14} - a_{22} + \\
& a_{23} - a_{24} + a_{25} - a_{39} - 2a_{41} + a_{43} + \\
& a_{45} - a_{46} - a_{48} - a_{49} + a_{103} - a_{107} + \\
& a_{108} - a_{109} - a_{119} + a_{120} - 2a_{121} - a_{126} + \\
& a_{63} - a_{64} - a_{65} + a_{228} - a_{231} + a_{235} - \\
& a_{236} + a_{242} + a_{246} - a_{248} - a_{127} + 2a_{128} - \\
& a_{139} - a_{141} + a_{145} + a_{147} - a_{151} - 2a_{153} + \\
& 2a_{157} + a_{159} - a_{161} - a_{356} + 2a_{359} + a_{360} - \\
& a_{374} + a_{375} + a_{385} + a_{386} + a_{389} + a_{393} + \\
& a_{395} + a_{397} + a_{399} + a_{400} - a_{401} - a_{403} + \\
& a_{406} + a_{407} + a_{409} + a_{412} - 2a_{413} - a_{414} - \\
& a_{416} + a_{417} + a_{421} - a_{423} + a_{424} + a_{426} - \\
& a_{428} + a_{434} + a_{435} + a_{437} + 3a_{438} + a_{444} + \\
& a_{445} - a_{447} - a_{459} - a_{461} + a_{462} + a_{465} + \\
& a_{468} - a_{471} - a_{473} - a_{478} - a_{481} \\
a_{868} &= \frac{a_{356} - \sqrt{a_{356}^2 - 4x}}{2} \\
x &= a_5 + a_6 - a_{13} - a_{14} + a_7 - a_{23} + \\
& a_{24} - a_{25} + a_{26} - a_{40} - 2a_{42} + a_{44} + \\
& a_{46} - a_{47} - a_{49} - a_{50} + a_{104} - a_{108} + \\
& a_{109} - a_{110} - a_{120} + a_{121} - 2a_{122} - a_{63} + \\
& a_{64} - a_{65} - a_{66} + a_{229} - a_{232} + a_{236} - \\
& a_{237} + a_{243} + a_{247} - a_{249} - a_{128} + 2a_{129} - \\
& a_{140} - a_{142} + a_{146} + a_{148} - a_{152} - 2a_{154} + \\
& 2a_{158} + a_{160} - a_{162} - a_{357} + 2a_{360} + a_{361} - \\
& a_{375} + a_{376} + a_{386} + a_{387} + a_{390} + a_{394} + \\
& a_{396} + a_{398} + a_{400} + a_{401} - a_{402} - a_{404} + \\
& a_{407} + a_{408} + a_{410} + a_{413} - 2a_{414} - a_{415} - \\
& a_{417} + a_{418} + a_{422} - a_{424} + a_{425} + a_{427} - \\
& a_{429} + a_{435} + a_{436} + a_{438} + 3a_{439} + a_{445} + \\
& a_{446} - a_{448} - a_{460} - a_{462} + a_{463} + a_{466} + \\
& a_{469} - a_{472} - a_{474} - a_{479} - a_{482} \\
a_{869} &= \frac{a_{357} - \sqrt{a_{357}^2 - 4x}}{2} \\
x &= a_6 + a_3 - a_{14} - a_7 + a_8 - a_{24} + \\
& a_{25} - a_{26} + a_{27} - a_{41} - 2a_{43} + a_{45} + \\
& a_{47} - a_{48} - a_{50} - a_{51} + a_{105} - a_{109} + \\
& a_{110} - a_{111} - a_{121} + a_{122} - 2a_{123} - a_{64} + \\
& a_{65} - a_{66} - a_{67} + a_{230} - a_{233} + a_{237} - \\
& a_{238} + a_{244} + a_{248} - a_{250} - a_{129} + 2a_{130} - \\
& a_{141} - a_{143} + a_{147} + a_{149} - a_{153} - 2a_{155} + \\
& 2a_{159} + a_{161} - a_{163} - a_{358} + 2a_{361} + a_{362} - \\
& a_{376} + a_{377} + a_{387} + a_{388} + a_{391} + a_{395} +
\end{aligned}
$$

$$
\begin{aligned}
& a_{397} + a_{399} + a_{401} + a_{402} - a_{403} - a_{405} + \\
& a_{408} + a_{409} + a_{411} + a_{414} - 2a_{415} - a_{416} - \\
& a_{418} + a_{419} + a_{423} - a_{425} + a_{426} + a_{428} - \\
& a_{430} + a_{436} + a_{437} + a_{439} + 3a_{440} + a_{446} + \\
& a_{447} - a_{449} - a_{461} - a_{463} + a_{464} + a_{467} + \\
& a_{470} - a_{473} - a_{475} - a_{480} - a_{483}
\end{aligned}
$$

$$
\begin{aligned}
a_{870} &= \frac{a_{358} + \sqrt{a_{358}^2 - 4x}}{2} \\
x &= a_3 + a_4 - a_7 - a_8 + a_9 - a_{25} + \\
& a_{26} - a_{27} + a_{28} - a_{42} - 2a_{44} + a_{46} + \\
& a_{48} - a_{49} - a_{51} - a_{52} + a_{106} - a_{110} + \\
& a_{111} - a_{112} - a_{122} + a_{123} - 2a_{124} - a_{65} + \\
& a_{66} - a_{67} - a_{68} + a_{231} - a_{234} + a_{238} - \\
& a_{239} + a_{245} + a_{249} - a_{251} - a_{130} + 2a_{131} - \\
& a_{142} - a_{144} + a_{148} + a_{150} - a_{154} - 2a_{156} + \\
& 2a_{160} + a_{162} - a_{164} - a_{359} + 2a_{362} + a_{363} - \\
& a_{377} + a_{378} + a_{388} + a_{389} + a_{392} + a_{396} + \\
& a_{398} + a_{400} + a_{402} + a_{403} - a_{404} - a_{406} + \\
& a_{409} + a_{410} + a_{412} + a_{415} - 2a_{416} - a_{417} - \\
& a_{419} + a_{420} + a_{424} - a_{426} + a_{427} + a_{429} - \\
& a_{431} + a_{437} + a_{438} + a_{440} + 3a_{441} + a_{447} + \\
& a_{448} - a_{450} - a_{462} - a_{464} + a_{465} + a_{468} + \\
& a_{471} - a_{474} - a_{476} - a_{481} - a_{484} \\
a_{871} &= \frac{a_{359} + \sqrt{a_{359}^2 - 4x}}{2} \\
x &= a_4 + a_5 - a_8 - a_9 + a_{10} - a_{26} + \\
& a_{27} - a_{28} + a_{29} - a_{43} - 2a_{45} + a_{47} + \\
& a_{49} - a_{50} - a_{52} - a_{53} + a_{107} - a_{111} + \\
& a_{112} - a_{113} - a_{123} + a_{124} - 2a_{125} - a_{66} + \\
& a_{67} - a_{68} - a_{69} + a_{232} - a_{235} + a_{239} - \\
& a_{240} + a_{246} + a_{250} - a_{252} - a_{131} + 2a_{132} - \\
& a_{143} - a_{145} + a_{149} + a_{151} - a_{155} - 2a_{157} + \\
& 2a_{161} + a_{163} - a_{165} - a_{360} + 2a_{363} + a_{364} - \\
& a_{378} + a_{379} + a_{389} + a_{390} + a_{393} + a_{397} + \\
& a_{399} + a_{401} + a_{403} + a_{404} - a_{405} - a_{407} + \\
& a_{410} + a_{411} + a_{413} + a_{416} - 2a_{417} - a_{418} - \\
& a_{420} + a_{421} + a_{425} - a_{427} + a_{428} + a_{430} - \\
& a_{432} + a_{438} + a_{439} + a_{441} + 3a_{442} + a_{448} + \\
& a_{449} - a_{451} - a_{463} - a_{465} + a_{466} + a_{469} + \\
& a_{472} - a_{475} - a_{477} - a_{482} - a_{485} \\
a_{872} &= \frac{a_{360} + \sqrt{a_{360}^2 - 4x}}{2} \\
x &= a_5 + a_6 - a_9 - a_{10} + a_{11} - a_{27} + \\
& a_{28} - a_{29} + a_{30} - a_{44} - 2a_{46} + a_{48} + \\
& a_{50} - a_{51} - a_{53} - a_{54} + a_{108} - a_{112} + \\
& a_{113} - a_{114} - a_{124} + a_{125} - 2a_{126} - a_{67} + \\
& a_{68} - a_{69} - a_{70} + a_{233} - a_{236} + a_{240} - \\
& a_{241} + a_{247} + a_{251} - a_{253} - a_{132} + 2a_{133} - \\
& a_{144} - a_{146} + a_{150} + a_{152} - a_{156} - 2a_{158} + \\
& 2a_{162} + a_{164} - a_{166} - a_{361} + 2a_{364} + a_{365} - \\
& a_{379} + a_{380} + a_{390} + a_{391} + a_{394} + a_{398} + \\
& a_{400} + a_{402} + a_{404} + a_{405} - a_{406} - a_{408} + \\
& a_{411} + a_{412} + a_{414} + a_{417} - 2a_{418} - a_{419} - \\
& a_{421} + a_{422} + a_{426} - a_{428} + a_{429} + a_{431} - \\
& a_{433} + a_{439} + a_{440} + a_{442} + 3a_{443} + a_{449} + \\
& a_{450} - a_{452} - a_{464} - a_{466} + a_{467} + a_{470} + \\
& a_{473} - a_{476} - a_{478} - a_{483} - a_{486} \\
a_{873} &= \frac{a_{361} - \sqrt{a_{361}^2 - 4x}}{2} \\
x &= a_6 + a_3 - a_{10} - a_{11} + a_{12} - a_{28} + \\
& a_{29} - a_{30} + a_{15} - a_{45} - 2a_{47} + a_{49} + \\
& a_{51} - a_{52} - a_{54} - a_{55} + a_{109} - a_{113} + \\
& a_{114} - a_{115} - a_{125} + a_{126} - 2a_{63} - a_{68} + \\
& a_{69} - a_{70} - a_{71} + a_{234} - a_{237} + a_{241} - \\
& a_{242} + a_{248} + a_{252} - a_{254} - a_{133} + 2a_{134} - \\
& a_{145} - a_{147} + a_{151} + a_{153} - a_{157} - 2a_{159} + \\
& 2a_{163} + a_{165} - a_{167} - a_{362} + 2a_{365} + a_{366} - \\
& a_{380} + a_{381} + a_{391} + a_{392} + a_{395} + a_{399} + \\
& a_{401} + a_{403} + a_{405} + a_{406} - a_{407} - a_{409} + \\
& a_{412} + a_{413} + a_{415} + a_{418} - 2a_{419} - a_{420} - \\
& a_{422} + a_{423} + a_{427} - a_{429} + a_{430} + a_{432} - \\
& a_{434} + a_{440} + a_{441} + a_{443} + 3a_{444} + a_{450} + \\
& a_{451} - a_{453} - a_{465} - a_{467} + a_{468} + a_{471} + \\
& a_{474} - a_{477} - a_{479} - a_{484} - a_{487} \\
a_{874} &= \frac{a_{362} + \sqrt{a_{362}^2 - 4x}}{2} \\
x &= a_3 + a_4 - a_{11} - a_{12} + a_{13} - a_{29} + \\
& a_{30} - a_{15} + a_{16} - a_{46} - 2a_{48} + a_{50} + \\
& a_{52} - a_{53} - a_{55} - a_{56} + a_{110} - a_{114} + \\
& a_{115} - a_{116} - a_{126} + a_{63} - 2a_{64} - a_{69} + \\
& a_{70} - a_{71} - a_{72} + a_{235} - a_{238} + a_{242} - \\
& a_{243} + a_{249} + a_{253} - a_{127} - a_{134} + 2a_{135} - \\
& a_{146} - a_{148} + a_{152} + a_{154} - a_{158} - 2a_{160} + \\
& 2a_{164} + a_{166} - a_{168} - a_{363} + 2a_{366} + a_{367} - \\
& a_{381} + a_{382} + a_{392} + a_{393} + a_{396} + a_{400} + \\
& a_{402} + a_{404} + a_{406} + a_{407} - a_{408} - a_{410} + \\
& a_{413} + a_{414} + a_{416} + a_{419} - 2a_{420} - a_{421} - \\
& a_{423} + a_{424} + a_{428} - a_{430} + a_{431} + a_{433} - \\
& a_{435} + a_{441} + a_{442} + a_{444} + 3a_{445} + a_{451} + \\
& a_{452} - a_{454} - a_{466} - a_{468} + a_{469} + a_{472} + \\
& a_{475} - a_{478} - a_{480} - a_{485} - a_{488} \\
a_{875} &= \frac{a_{363} + \sqrt{a_{363}^2 - 4x}}{2} \\
x &= a_4 + a_5 - a_{12} - a_{13} + a_{14} - a_{30} + \\
& a_{15} - a_{16} + a_{17} - a_{47} - 2a_{49} + a_{51} + \\
& a_{53} - a_{54} - a_{56} - a_{57} + a_{111} - a_{115} + \\
& a_{116} - a_{117} - a_{63} + a_{64} - 2a_{65} - a_{70} +
\end{aligned}
$$

$$
\begin{aligned}
& a_{71} - a_{72} - a_{73} + a_{236} - a_{239} + a_{243} - \\
& a_{244} + a_{250} + a_{254} - a_{128} - a_{135} + 2a_{136} - \\
& a_{147} - a_{149} + a_{153} + a_{155} - a_{159} - 2a_{161} + \\
& 2a_{165} + a_{167} - a_{169} - a_{364} + 2a_{367} + a_{368} - \\
& a_{382} + a_{383} + a_{393} + a_{394} + a_{397} + a_{401} + \\
& a_{403} + a_{405} + a_{407} + a_{408} - a_{409} - a_{411} + \\
& a_{414} + a_{415} + a_{417} + a_{420} - 2a_{421} - a_{422} - \\
& a_{424} + a_{425} + a_{429} - a_{431} + a_{432} + a_{434} - \\
& a_{436} + a_{442} + a_{443} + a_{445} + 3a_{446} + a_{452} + \\
& a_{453} - a_{455} - a_{467} - a_{469} + a_{470} + a_{473} + \\
& a_{476} - a_{479} - a_{481} - a_{486} - a_{489}
\end{aligned}
$$

$$
a_{876} = \frac{a_{364} - \sqrt{a_{364}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_5 + a_6 - a_{13} - a_{14} + a_7 - a_{15} + \\
& a_{16} - a_{17} + a_{18} - a_{48} - 2a_{50} + a_{52} + \\
& a_{54} - a_{55} - a_{57} - a_{58} + a_{112} - a_{116} + \\
& a_{117} - a_{118} - a_{64} + a_{65} - 2a_{66} - a_{71} + \\
& a_{72} - a_{73} - a_{74} + a_{237} - a_{240} + a_{244} - \\
& a_{245} + a_{251} + a_{127} - a_{129} - a_{136} + 2a_{137} - \\
& a_{148} - a_{150} + a_{154} + a_{156} - a_{160} - 2a_{162} + \\
& 2a_{166} + a_{168} - a_{170} - a_{365} + 2a_{368} + a_{369} - \\
& a_{383} + a_{384} + a_{394} + a_{395} + a_{398} + a_{402} + \\
& a_{404} + a_{406} + a_{408} + a_{409} - a_{410} - a_{412} + \\
& a_{415} + a_{416} + a_{418} + a_{421} - 2a_{422} - a_{423} - \\
& a_{425} + a_{426} + a_{430} - a_{432} + a_{433} + a_{435} - \\
& a_{437} + a_{443} + a_{444} + a_{446} + 3a_{447} + a_{453} + \\
& a_{454} - a_{456} - a_{468} - a_{470} + a_{471} + a_{474} + \\
& a_{477} - a_{480} - a_{482} - a_{487} - a_{490}
\end{aligned}
$$

$$
a_{877} = \frac{a_{365} + \sqrt{a_{365}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_6 + a_3 - a_{14} - a_7 + a_8 - a_{16} + \\
& a_{17} - a_{18} + a_{19} - a_{49} - 2a_{51} + a_{53} + \\
& a_{55} - a_{56} - a_{58} - a_{59} + a_{113} - a_{117} + \\
& a_{118} - a_{119} - a_{65} + a_{66} - 2a_{67} - a_{72} + \\
& a_{73} - a_{74} - a_{75} + a_{238} - a_{241} + a_{245} - \\
& a_{246} + a_{252} + a_{128} - a_{130} - a_{137} + 2a_{138} - \\
& a_{149} - a_{151} + a_{155} + a_{157} - a_{161} - 2a_{163} + \\
& 2a_{167} + a_{169} - a_{171} - a_{366} + 2a_{369} + a_{370} - \\
& a_{384} + a_{385} + a_{395} + a_{396} + a_{399} + a_{403} + \\
& a_{405} + a_{407} + a_{409} + a_{410} - a_{411} - a_{413} + \\
& a_{416} + a_{417} + a_{419} + a_{422} - 2a_{423} - a_{424} - \\
& a_{426} + a_{427} + a_{431} - a_{433} + a_{434} + a_{436} - \\
& a_{438} + a_{444} + a_{445} + a_{447} + 3a_{448} + a_{454} + \\
& a_{455} - a_{457} - a_{469} - a_{471} + a_{472} + a_{475} + \\
& a_{478} - a_{481} - a_{483} - a_{488} - a_{491}
\end{aligned}
$$

$$
a_{878} = \frac{a_{366} + \sqrt{a_{366}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_3 + a_4 - a_7 - a_8 + a_9 - a_{17} + \\
& a_{18} - a_{19} + a_{20} - a_{50} - 2a_{52} + a_{54} + \\
& a_{56} - a_{57} - a_{59} - a_{60} + a_{114} - a_{118} + \\
& a_{119} - a_{120} - a_{66} + a_{67} - 2a_{68} - a_{73} + \\
& a_{74} - a_{75} - a_{76} + a_{239} - a_{242} + a_{246} - \\
& a_{247} + a_{253} + a_{129} - a_{131} - a_{138} + 2a_{139} - \\
& a_{150} - a_{152} + a_{156} + a_{158} - a_{162} - 2a_{164} + \\
& 2a_{168} + a_{170} - a_{172} - a_{367} + 2a_{370} + a_{371} - \\
& a_{385} + a_{386} + a_{396} + a_{397} + a_{400} + a_{404} + \\
& a_{406} + a_{408} + a_{410} + a_{411} - a_{412} - a_{414} + \\
& a_{417} + a_{418} + a_{420} + a_{423} - 2a_{424} - a_{425} - \\
& a_{427} + a_{428} + a_{432} - a_{434} + a_{435} + a_{437} - \\
& a_{439} + a_{445} + a_{446} + a_{448} + 3a_{449} + a_{455} + \\
& a_{456} - a_{458} - a_{470} - a_{472} + a_{473} + a_{476} + \\
& a_{479} - a_{482} - a_{484} - a_{489} - a_{492}
\end{aligned}
$$

$$
a_{879} = \frac{a_{367} + \sqrt{a_{367}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_4 + a_5 - a_8 - a_9 + a_{10} - a_{18} + \\
& a_{19} - a_{20} + a_{21} - a_{51} - 2a_{53} + a_{55} + \\
& a_{57} - a_{58} - a_{60} - a_{61} + a_{115} - a_{119} + \\
& a_{120} - a_{121} - a_{67} + a_{68} - 2a_{69} - a_{74} + \\
& a_{75} - a_{76} - a_{77} + a_{240} - a_{243} + a_{247} - \\
& a_{248} + a_{254} + a_{130} - a_{132} - a_{139} + 2a_{140} - \\
& a_{151} - a_{153} + a_{157} + a_{159} - a_{163} - 2a_{165} + \\
& 2a_{169} + a_{171} - a_{173} - a_{368} + 2a_{371} + a_{372} - \\
& a_{386} + a_{387} + a_{397} + a_{398} + a_{401} + a_{405} + \\
& a_{407} + a_{409} + a_{411} + a_{412} - a_{413} - a_{415} + \\
& a_{418} + a_{419} + a_{421} + a_{424} - 2a_{425} - a_{426} - \\
& a_{428} + a_{429} + a_{433} - a_{435} + a_{436} + a_{438} - \\
& a_{440} + a_{446} + a_{447} + a_{449} + 3a_{450} + a_{456} + \\
& a_{457} - a_{459} - a_{471} - a_{473} + a_{474} + a_{477} + \\
& a_{480} - a_{483} - a_{485} - a_{490} - a_{493}
\end{aligned}
$$

$$
a_{880} = \frac{a_{368} + \sqrt{a_{368}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_5 + a_6 - a_9 - a_{10} + a_{11} - a_{19} + \\
& a_{20} - a_{21} + a_{22} - a_{52} - 2a_{54} + a_{56} + \\
& a_{58} - a_{59} - a_{61} - a_{62} + a_{116} - a_{120} + \\
& a_{121} - a_{122} - a_{68} + a_{69} - 2a_{70} - a_{75} + \\
& a_{76} - a_{77} - a_{78} + a_{241} - a_{244} + a_{248} - \\
& a_{249} + a_{127} + a_{131} - a_{133} - a_{140} + 2a_{141} - \\
& a_{152} - a_{154} + a_{158} + a_{160} - a_{164} - 2a_{166} + \\
& 2a_{170} + a_{172} - a_{174} - a_{369} + 2a_{372} + a_{373} - \\
& a_{387} + a_{388} + a_{398} + a_{399} + a_{402} + a_{406} + \\
& a_{408} + a_{410} + a_{412} + a_{413} - a_{414} - a_{416} + \\
& a_{419} + a_{420} + a_{422} + a_{425} - 2a_{426} - a_{427} - \\
& a_{429} + a_{430} + a_{434} - a_{436} + a_{437} + a_{439} - \\
& a_{441} + a_{447} + a_{448} + a_{450} + 3a_{451} + a_{457} + \\
& a_{458} - a_{460} - a_{472} - a_{474} + a_{475} + a_{478} + \\
& a_{481} - a_{484} - a_{486} - a_{491} - a_{494}
\end{aligned}
$$

$$
\begin{aligned}
a_{881} &= \frac{a_{369} - \sqrt{a_{369}^2 - 4x}}{2} \\
x &= a_6 + a_3 - a_{10} - a_{11} + a_{12} - a_{20} + \\
&\quad a_{21} - a_{22} + a_{23} - a_{53} - 2a_{55} + a_{57} + \\
&\quad a_{59} - a_{60} - a_{62} - a_{31} + a_{117} - a_{121} + \\
&\quad a_{122} - a_{123} - a_{69} + a_{70} - 2a_{71} - a_{76} + \\
&\quad a_{77} - a_{78} - a_{79} + a_{242} - a_{245} + a_{249} - \\
&\quad a_{250} + a_{128} + a_{132} - a_{134} - a_{141} + 2a_{142} - \\
&\quad a_{153} - a_{155} + a_{159} + a_{161} - a_{165} - 2a_{167} + \\
&\quad 2a_{171} + a_{173} - a_{175} - a_{370} + 2a_{373} + a_{374} - \\
&\quad a_{388} + a_{389} + a_{399} + a_{400} + a_{403} + a_{407} + \\
&\quad a_{409} + a_{411} + a_{413} + a_{414} - a_{415} - a_{417} + \\
&\quad a_{420} + a_{421} + a_{423} + a_{426} - 2a_{427} - a_{428} - \\
&\quad a_{430} + a_{431} + a_{435} - a_{437} + a_{438} + a_{440} - \\
&\quad a_{442} + a_{448} + a_{449} + a_{451} + 3a_{452} + a_{458} + \\
&\quad a_{459} - a_{461} - a_{473} - a_{475} + a_{476} + a_{479} + \\
&\quad a_{482} - a_{485} - a_{487} - a_{492} - a_{495} \\
a_{882} &= \frac{a_{370} + \sqrt{a_{370}^2 - 4x}}{2} \\
x &= a_3 + a_4 - a_{11} - a_{12} + a_{13} - a_{21} + \\
&\quad a_{22} - a_{23} + a_{24} - a_{54} - 2a_{56} + a_{58} + \\
&\quad a_{60} - a_{61} - a_{31} - a_{32} + a_{118} - a_{122} + \\
&\quad a_{123} - a_{124} - a_{70} + a_{71} - 2a_{72} - a_{77} + \\
&\quad a_{78} - a_{79} - a_{80} + a_{243} - a_{246} + a_{250} - \\
&\quad a_{251} + a_{129} + a_{133} - a_{135} - a_{142} + 2a_{143} - \\
&\quad a_{154} - a_{156} + a_{160} + a_{162} - a_{166} - 2a_{168} + \\
&\quad 2a_{172} + a_{174} - a_{176} - a_{371} + 2a_{374} + a_{375} - \\
&\quad a_{389} + a_{390} + a_{400} + a_{401} + a_{404} + a_{408} + \\
&\quad a_{410} + a_{412} + a_{414} + a_{415} - a_{416} - a_{418} + \\
&\quad a_{421} + a_{422} + a_{424} + a_{427} - 2a_{428} - a_{429} - \\
&\quad a_{431} + a_{432} + a_{436} - a_{438} + a_{439} + a_{441} - \\
&\quad a_{443} + a_{449} + a_{450} + a_{452} + 3a_{453} + a_{459} + \\
&\quad a_{460} - a_{462} - a_{474} - a_{476} + a_{477} + a_{480} + \\
&\quad a_{483} - a_{486} - a_{488} - a_{493} - a_{496} \\
a_{883} &= \frac{a_{371} - \sqrt{a_{371}^2 - 4x}}{2} \\
x &= a_4 + a_5 - a_{12} - a_{13} + a_{14} - a_{22} + \\
&\quad a_{23} - a_{24} + a_{25} - a_{55} - 2a_{57} + a_{59} + \\
&\quad a_{61} - a_{62} - a_{32} - a_{33} + a_{119} - a_{123} + \\
&\quad a_{124} - a_{125} - a_{71} + a_{72} - 2a_{73} - a_{78} + \\
&\quad a_{79} - a_{80} - a_{81} + a_{244} - a_{247} + a_{251} - \\
&\quad a_{252} + a_{130} + a_{134} - a_{136} - a_{143} + 2a_{144} - \\
&\quad a_{155} - a_{157} + a_{161} + a_{163} - a_{167} - 2a_{169} + \\
&\quad 2a_{173} + a_{175} - a_{177} - a_{372} + 2a_{375} + a_{376} - \\
&\quad a_{390} + a_{391} + a_{401} + a_{402} + a_{405} + a_{409} + \\
&\quad a_{411} + a_{413} + a_{415} + a_{416} - a_{417} - a_{419} + \\
&\quad a_{422} + a_{423} + a_{425} + a_{428} - 2a_{429} - a_{430} - \\
&\quad a_{432} + a_{433} + a_{437} - a_{439} + a_{440} + a_{442} - \\
&\quad a_{444} + a_{450} + a_{451} + a_{453} + 3a_{454} + a_{460} + \\
&\quad a_{461} - a_{463} - a_{475} - a_{477} + a_{478} + a_{481} + \\
&\quad a_{484} - a_{487} - a_{489} - a_{494} - a_{497} \\
a_{884} &= \frac{a_{372} - \sqrt{a_{372}^2 - 4x}}{2} \\
x &= a_5 + a_6 - a_{13} - a_{14} + a_7 - a_{23} + \\
&\quad a_{24} - a_{25} + a_{26} - a_{56} - 2a_{58} + a_{60} + \\
&\quad a_{62} - a_{31} - a_{33} - a_{34} + a_{120} - a_{124} + \\
&\quad a_{125} - a_{126} - a_{72} + a_{73} - 2a_{74} - a_{79} + \\
&\quad a_{80} - a_{81} - a_{82} + a_{245} - a_{248} + a_{252} - \\
&\quad a_{253} + a_{131} + a_{135} - a_{137} - a_{144} + 2a_{145} - \\
&\quad a_{156} - a_{158} + a_{162} + a_{164} - a_{168} - 2a_{170} + \\
&\quad 2a_{174} + a_{176} - a_{178} - a_{373} + 2a_{376} + a_{377} - \\
&\quad a_{391} + a_{392} + a_{402} + a_{403} + a_{406} + a_{410} + \\
&\quad a_{412} + a_{414} + a_{416} + a_{417} - a_{418} - a_{420} + \\
&\quad a_{423} + a_{424} + a_{426} + a_{429} - 2a_{430} - a_{431} - \\
&\quad a_{433} + a_{434} + a_{438} - a_{440} + a_{441} + a_{443} - \\
&\quad a_{445} + a_{451} + a_{452} + a_{454} + 3a_{455} + a_{461} + \\
&\quad a_{462} - a_{464} - a_{476} - a_{478} + a_{479} + a_{482} + \\
&\quad a_{485} - a_{488} - a_{490} - a_{495} - a_{498} \\
a_{885} &= \frac{a_{373} - \sqrt{a_{373}^2 - 4x}}{2} \\
x &= a_6 + a_3 - a_{14} - a_7 + a_8 - a_{24} + \\
&\quad a_{25} - a_{26} + a_{27} - a_{57} - 2a_{59} + a_{61} + \\
&\quad a_{31} - a_{32} - a_{34} - a_{35} + a_{121} - a_{125} + \\
&\quad a_{126} - a_{63} - a_{73} + a_{74} - 2a_{75} - a_{80} + \\
&\quad a_{81} - a_{82} - a_{83} + a_{246} - a_{249} + a_{253} - \\
&\quad a_{254} + a_{132} + a_{136} - a_{138} - a_{145} + 2a_{146} - \\
&\quad a_{157} - a_{159} + a_{163} + a_{165} - a_{169} - 2a_{171} + \\
&\quad 2a_{175} + a_{177} - a_{179} - a_{374} + 2a_{377} + a_{378} - \\
&\quad a_{392} + a_{393} + a_{403} + a_{404} + a_{407} + a_{411} + \\
&\quad a_{413} + a_{415} + a_{417} + a_{418} - a_{419} - a_{421} + \\
&\quad a_{424} + a_{425} + a_{427} + a_{430} - 2a_{431} - a_{432} - \\
&\quad a_{434} + a_{435} + a_{439} - a_{441} + a_{442} + a_{444} - \\
&\quad a_{446} + a_{452} + a_{453} + a_{455} + 3a_{456} + a_{462} + \\
&\quad a_{463} - a_{465} - a_{477} - a_{479} + a_{480} + a_{483} + \\
&\quad a_{486} - a_{489} - a_{491} - a_{496} - a_{499} \\
a_{886} &= \frac{a_{374} + \sqrt{a_{374}^2 - 4x}}{2} \\
x &= a_3 + a_4 - a_7 - a_8 + a_9 - a_{25} + \\
&\quad a_{26} - a_{27} + a_{28} - a_{58} - 2a_{60} + a_{62} + \\
&\quad a_{32} - a_{33} - a_{35} - a_{36} + a_{122} - a_{126} + \\
&\quad a_{63} - a_{64} - a_{74} + a_{75} - 2a_{76} - a_{81} + \\
&\quad a_{82} - a_{83} - a_{84} + a_{247} - a_{250} + a_{254} - \\
&\quad a_{127} + a_{133} + a_{137} - a_{139} - a_{146} + 2a_{147} - \\
&\quad a_{158} - a_{160} + a_{164} + a_{166} - a_{170} - 2a_{172} + \\
&\quad 2a_{176} + a_{178} - a_{180} - a_{375} + 2a_{378} + a_{379} - \\
&\quad a_{393} + a_{394} + a_{404} + a_{405} + a_{408} + a_{412} + \\
&\quad a_{414} + a_{416} + a_{418} + a_{419} - a_{420} - a_{422} + \\
&\quad a_{425} + a_{426} + a_{428} + a_{431} - 2a_{432} - a_{433} -
\end{aligned}
$$

$$
\begin{aligned}
& a_{435} + a_{436} + a_{440} - a_{442} + a_{443} + a_{445} - \\
& a_{447} + a_{453} + a_{454} + a_{456} + 3a_{457} + a_{463} + \\
& a_{464} - a_{466} - a_{478} - a_{480} + a_{481} + a_{484} + \\
& a_{487} - a_{490} - a_{492} - a_{497} - a_{500} \\
a_{887} &= \frac{a_{375} + \sqrt{a_{375}^2 - 4x}}{2} \\
x &= a_4 + a_5 - a_8 - a_9 + a_{10} - a_{26} + \\
& a_{27} - a_{28} + a_{29} - a_{59} - 2a_{61} + a_{31} + \\
& a_{33} - a_{34} - a_{36} - a_{37} + a_{123} - a_{63} + \\
& a_{64} - a_{65} - a_{75} + a_{76} - 2a_{77} - a_{82} + \\
& a_{83} - a_{84} - a_{85} + a_{248} - a_{251} + a_{127} - \\
& a_{128} + a_{134} + a_{138} - a_{140} - a_{147} + 2a_{148} - \\
& a_{159} - a_{161} + a_{165} + a_{167} - a_{171} - 2a_{173} + \\
& 2a_{177} + a_{179} - a_{181} - a_{376} + 2a_{379} + a_{380} - \\
& a_{394} + a_{395} + a_{405} + a_{406} + a_{409} + a_{413} + \\
& a_{415} + a_{417} + a_{419} + a_{420} - a_{421} - a_{423} + \\
& a_{426} + a_{427} + a_{429} + a_{432} - 2a_{433} - a_{434} - \\
& a_{436} + a_{437} + a_{441} - a_{443} + a_{444} + a_{446} - \\
& a_{448} + a_{454} + a_{455} + a_{457} + 3a_{458} + a_{464} + \\
& a_{465} - a_{467} - a_{479} - a_{481} + a_{482} + a_{485} + \\
& a_{488} - a_{491} - a_{493} - a_{498} - a_{501} \\
a_{888} &= \frac{a_{376} + \sqrt{a_{376}^2 - 4x}}{2} \\
x &= a_5 + a_6 - a_9 - a_{10} + a_{11} - a_{27} + \\
& a_{28} - a_{29} + a_{30} - a_{60} - 2a_{62} + a_{32} + \\
& a_{34} - a_{35} - a_{37} - a_{38} + a_{124} - a_{64} + \\
& a_{65} - a_{66} - a_{76} + a_{77} - 2a_{78} - a_{83} + \\
& a_{84} - a_{85} - a_{86} + a_{249} - a_{252} + a_{128} - \\
& a_{129} + a_{135} + a_{139} - a_{141} - a_{148} + 2a_{149} - \\
& a_{160} - a_{162} + a_{166} + a_{168} - a_{172} - 2a_{174} + \\
& 2a_{178} + a_{180} - a_{182} - a_{377} + 2a_{380} + a_{381} - \\
& a_{395} + a_{396} + a_{406} + a_{407} + a_{410} + a_{414} + \\
& a_{416} + a_{418} + a_{420} + a_{421} - a_{422} - a_{424} + \\
& a_{427} + a_{428} + a_{430} + a_{433} - 2a_{434} - a_{435} - \\
& a_{437} + a_{438} + a_{442} - a_{444} + a_{445} + a_{447} - \\
& a_{449} + a_{455} + a_{456} + a_{458} + 3a_{459} + a_{465} + \\
& a_{466} - a_{468} - a_{480} - a_{482} + a_{483} + a_{486} + \\
& a_{489} - a_{492} - a_{494} - a_{499} - a_{502} \\
a_{889} &= \frac{a_{377} - \sqrt{a_{377}^2 - 4x}}{2} \\
x &= a_6 + a_3 - a_{10} - a_{11} + a_{12} - a_{28} + \\
& a_{29} - a_{30} + a_{15} - a_{61} - 2a_{31} + a_{33} + \\
& a_{35} - a_{36} - a_{38} - a_{39} + a_{125} - a_{65} + \\
& a_{66} - a_{67} - a_{77} + a_{78} - 2a_{79} - a_{84} + \\
& a_{85} - a_{86} - a_{87} + a_{250} - a_{253} + a_{129} - \\
& a_{130} + a_{136} + a_{140} - a_{142} - a_{149} + 2a_{150} - \\
& a_{161} - a_{163} + a_{167} + a_{169} - a_{173} - 2a_{175} + \\
& 2a_{179} + a_{181} - a_{183} - a_{378} + 2a_{381} + a_{382} - \\
& a_{396} + a_{397} + a_{407} + a_{408} + a_{411} + a_{415} + \\
& a_{417} + a_{419} + a_{421} + a_{422} - a_{423} - a_{425} + \\
& a_{428} + a_{429} + a_{431} + a_{434} - 2a_{435} - a_{436} - \\
& a_{438} + a_{439} + a_{443} - a_{445} + a_{446} + a_{448} - \\
& a_{450} + a_{456} + a_{457} + a_{459} + 3a_{460} + a_{466} + \\
& a_{467} - a_{469} - a_{481} - a_{483} + a_{484} + a_{487} + \\
& a_{490} - a_{493} - a_{495} - a_{500} - a_{503} \\
a_{890} &= \frac{a_{378} + \sqrt{a_{378}^2 - 4x}}{2} \\
x &= a_3 + a_4 - a_{11} - a_{12} + a_{13} - a_{29} + \\
& a_{30} - a_{15} + a_{16} - a_{62} - 2a_{32} + a_{34} + \\
& a_{36} - a_{37} - a_{39} - a_{40} + a_{126} - a_{66} + \\
& a_{67} - a_{68} - a_{78} + a_{79} - 2a_{80} - a_{85} + \\
& a_{86} - a_{87} - a_{88} + a_{251} - a_{254} + a_{130} - \\
& a_{131} + a_{137} + a_{141} - a_{143} - a_{150} + 2a_{151} - \\
& a_{162} - a_{164} + a_{168} + a_{170} - a_{174} - 2a_{176} + \\
& 2a_{180} + a_{182} - a_{184} - a_{379} + 2a_{382} + a_{383} - \\
& a_{397} + a_{398} + a_{408} + a_{409} + a_{412} + a_{416} + \\
& a_{418} + a_{420} + a_{422} + a_{423} - a_{424} - a_{426} + \\
& a_{429} + a_{430} + a_{432} + a_{435} - 2a_{436} - a_{437} - \\
& a_{439} + a_{440} + a_{444} - a_{446} + a_{447} + a_{449} - \\
& a_{451} + a_{457} + a_{458} + a_{460} + 3a_{461} + a_{467} + \\
& a_{468} - a_{470} - a_{482} - a_{484} + a_{485} + a_{488} + \\
& a_{491} - a_{494} - a_{496} - a_{501} - a_{504} \\
a_{891} &= \frac{a_{379} + \sqrt{a_{379}^2 - 4x}}{2} \\
x &= a_4 + a_5 - a_{12} - a_{13} + a_{14} - a_{30} + \\
& a_{15} - a_{16} + a_{17} - a_{31} - 2a_{33} + a_{35} + \\
& a_{37} - a_{38} - a_{40} - a_{41} + a_{63} - a_{67} + \\
& a_{68} - a_{69} - a_{79} + a_{80} - 2a_{81} - a_{86} + \\
& a_{87} - a_{88} - a_{89} + a_{252} - a_{127} + a_{131} - \\
& a_{132} + a_{138} + a_{142} - a_{144} - a_{151} + 2a_{152} - \\
& a_{163} - a_{165} + a_{169} + a_{171} - a_{175} - 2a_{177} + \\
& 2a_{181} + a_{183} - a_{185} - a_{380} + 2a_{383} + a_{384} - \\
& a_{398} + a_{399} + a_{409} + a_{410} + a_{413} + a_{417} + \\
& a_{419} + a_{421} + a_{423} + a_{424} - a_{425} - a_{427} + \\
& a_{430} + a_{431} + a_{433} + a_{436} - 2a_{437} - a_{438} - \\
& a_{440} + a_{441} + a_{445} - a_{447} + a_{448} + a_{450} - \\
& a_{452} + a_{458} + a_{459} + a_{461} + 3a_{462} + a_{468} + \\
& a_{469} - a_{471} - a_{483} - a_{485} + a_{486} + a_{489} + \\
& a_{492} - a_{495} - a_{497} - a_{502} - a_{505} \\
a_{892} &= \frac{a_{380} + \sqrt{a_{380}^2 - 4x}}{2} \\
x &= a_5 + a_6 - a_{13} - a_{14} + a_7 - a_{15} + \\
& a_{16} - a_{17} + a_{18} - a_{32} - 2a_{34} + a_{36} + \\
& a_{38} - a_{39} - a_{41} - a_{42} + a_{64} - a_{68} + \\
& a_{69} - a_{70} - a_{80} + a_{81} - 2a_{82} - a_{87} + \\
& a_{88} - a_{89} - a_{90} + a_{253} - a_{128} + a_{132} - \\
& a_{133} + a_{139} + a_{143} - a_{145} - a_{152} + 2a_{153} -
\end{aligned}
$$

$$
\begin{aligned}
& a_{164} - a_{166} + a_{170} + a_{172} - a_{176} - 2a_{178} + \\
& 2a_{182} + a_{184} - a_{186} - a_{381} + 2a_{384} + a_{385} - \\
& a_{399} + a_{400} + a_{410} + a_{411} + a_{414} + a_{418} + \\
& a_{420} + a_{422} + a_{424} + a_{425} - a_{426} - a_{428} + \\
& a_{431} + a_{432} + a_{434} + a_{437} - 2a_{438} - a_{439} - \\
& a_{441} + a_{442} + a_{446} - a_{448} + a_{449} + a_{451} - \\
& a_{453} + a_{459} + a_{460} + a_{462} + 3a_{463} + a_{469} + \\
& a_{470} - a_{472} - a_{484} - a_{486} + a_{487} + a_{490} + \\
& a_{493} - a_{496} - a_{498} - a_{503} - a_{506}
\end{aligned}
$$

$$
a_{893} = \frac{a_{381} - \sqrt{a_{381}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_6 + a_3 - a_{14} - a_7 + a_8 - a_{16} + \\
& a_{17} - a_{18} + a_{19} - a_{33} - 2a_{35} + a_{37} + \\
& a_{39} - a_{40} - a_{42} - a_{43} + a_{65} - a_{69} + \\
& a_{70} - a_{71} - a_{81} + a_{82} - 2a_{83} - a_{88} + \\
& a_{89} - a_{90} - a_{91} + a_{254} - a_{129} + a_{133} - \\
& a_{134} + a_{140} + a_{144} - a_{146} - a_{153} + 2a_{154} - \\
& a_{165} - a_{167} + a_{171} + a_{173} - a_{177} - 2a_{179} + \\
& 2a_{183} + a_{185} - a_{187} - a_{382} + 2a_{385} + a_{386} - \\
& a_{400} + a_{401} + a_{411} + a_{412} + a_{415} + a_{419} + \\
& a_{421} + a_{423} + a_{425} + a_{426} - a_{427} - a_{429} + \\
& a_{432} + a_{433} + a_{435} + a_{438} - 2a_{439} - a_{440} - \\
& a_{442} + a_{443} + a_{447} - a_{449} + a_{450} + a_{452} - \\
& a_{454} + a_{460} + a_{461} + a_{463} + 3a_{464} + a_{470} + \\
& a_{471} - a_{473} - a_{485} - a_{487} + a_{488} + a_{491} + \\
& a_{494} - a_{497} - a_{499} - a_{504} - a_{507}
\end{aligned}
$$

$$
a_{894} = \frac{a_{382} + \sqrt{a_{382}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_3 + a_4 - a_7 - a_8 + a_9 - a_{17} + \\
& a_{18} - a_{19} + a_{20} - a_{34} - 2a_{36} + a_{38} + \\
& a_{40} - a_{41} - a_{43} - a_{44} + a_{66} - a_{70} + \\
& a_{71} - a_{72} - a_{82} + a_{83} - 2a_{84} - a_{89} + \\
& a_{90} - a_{91} - a_{92} + a_{127} - a_{130} + a_{134} - \\
& a_{135} + a_{141} + a_{145} - a_{147} - a_{154} + 2a_{155} - \\
& a_{166} - a_{168} + a_{172} + a_{174} - a_{178} - 2a_{180} + \\
& 2a_{184} + a_{186} - a_{188} - a_{383} + 2a_{386} + a_{387} - \\
& a_{401} + a_{402} + a_{412} + a_{413} + a_{416} + a_{420} + \\
& a_{422} + a_{424} + a_{426} + a_{427} - a_{428} - a_{430} + \\
& a_{433} + a_{434} + a_{436} + a_{439} - 2a_{440} - a_{441} - \\
& a_{443} + a_{444} + a_{448} - a_{450} + a_{451} + a_{453} - \\
& a_{455} + a_{461} + a_{462} + a_{464} + 3a_{465} + a_{471} + \\
& a_{472} - a_{474} - a_{486} - a_{488} + a_{489} + a_{492} + \\
& a_{495} - a_{498} - a_{500} - a_{505} - a_{508}
\end{aligned}
$$

$$
a_{895} = \frac{a_{383} + \sqrt{a_{383}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_4 + a_5 - a_8 - a_9 + a_{10} - a_{18} + \\
& a_{19} - a_{20} + a_{21} - a_{35} - 2a_{37} + a_{39} + \\
& a_{41} - a_{42} - a_{44} - a_{45} + a_{67} - a_{71} + \\
& a_{72} - a_{73} - a_{83} + a_{84} - 2a_{85} - a_{90} + \\
& a_{91} - a_{92} - a_{93} + a_{128} - a_{131} + a_{135} - \\
& a_{136} + a_{142} + a_{146} - a_{148} - a_{155} + 2a_{156} - \\
& a_{167} - a_{169} + a_{173} + a_{175} - a_{179} - 2a_{181} + \\
& 2a_{185} + a_{187} - a_{189} - a_{384} + 2a_{387} + a_{388} - \\
& a_{402} + a_{403} + a_{413} + a_{414} + a_{417} + a_{421} + \\
& a_{423} + a_{425} + a_{427} + a_{428} - a_{429} - a_{431} + \\
& a_{434} + a_{435} + a_{437} + a_{440} - 2a_{441} - a_{442} - \\
& a_{444} + a_{445} + a_{449} - a_{451} + a_{452} + a_{454} - \\
& a_{456} + a_{462} + a_{463} + a_{465} + 3a_{466} + a_{472} + \\
& a_{473} - a_{475} - a_{487} - a_{489} + a_{490} + a_{493} + \\
& a_{496} - a_{499} - a_{501} - a_{506} - a_{509}
\end{aligned}
$$

$$
a_{896} = \frac{a_{384} + \sqrt{a_{384}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_5 + a_6 - a_9 - a_{10} + a_{11} - a_{19} + \\
& a_{20} - a_{21} + a_{22} - a_{36} - 2a_{38} + a_{40} + \\
& a_{42} - a_{43} - a_{45} - a_{46} + a_{68} - a_{72} + \\
& a_{73} - a_{74} - a_{84} + a_{85} - 2a_{86} - a_{91} + \\
& a_{92} - a_{93} - a_{94} + a_{129} - a_{132} + a_{136} - \\
& a_{137} + a_{143} + a_{147} - a_{149} - a_{156} + 2a_{157} - \\
& a_{168} - a_{170} + a_{174} + a_{176} - a_{180} - 2a_{182} + \\
& 2a_{186} + a_{188} - a_{190} - a_{385} + 2a_{388} + a_{389} - \\
& a_{403} + a_{404} + a_{414} + a_{415} + a_{418} + a_{422} + \\
& a_{424} + a_{426} + a_{428} + a_{429} - a_{430} - a_{432} + \\
& a_{435} + a_{436} + a_{438} + a_{441} - 2a_{442} - a_{443} - \\
& a_{445} + a_{446} + a_{450} - a_{452} + a_{453} + a_{455} - \\
& a_{457} + a_{463} + a_{464} + a_{466} + 3a_{467} + a_{473} + \\
& a_{474} - a_{476} - a_{488} - a_{490} + a_{491} + a_{494} + \\
& a_{497} - a_{500} - a_{502} - a_{507} - a_{510}
\end{aligned}
$$

$$
a_{897} = \frac{a_{385} + \sqrt{a_{385}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_6 + a_3 - a_{10} - a_{11} + a_{12} - a_{20} + \\
& a_{21} - a_{22} + a_{23} - a_{37} - 2a_{39} + a_{41} + \\
& a_{43} - a_{44} - a_{46} - a_{47} + a_{69} - a_{73} + \\
& a_{74} - a_{75} - a_{85} + a_{86} - 2a_{87} - a_{92} + \\
& a_{93} - a_{94} - a_{95} + a_{130} - a_{133} + a_{137} - \\
& a_{138} + a_{144} + a_{148} - a_{150} - a_{157} + 2a_{158} - \\
& a_{169} - a_{171} + a_{175} + a_{177} - a_{181} - 2a_{183} + \\
& 2a_{187} + a_{189} - a_{191} - a_{386} + 2a_{389} + a_{390} - \\
& a_{404} + a_{405} + a_{415} + a_{416} + a_{419} + a_{423} + \\
& a_{425} + a_{427} + a_{429} + a_{430} - a_{431} - a_{433} + \\
& a_{436} + a_{437} + a_{439} + a_{442} - 2a_{443} - a_{444} - \\
& a_{446} + a_{447} + a_{451} - a_{453} + a_{454} + a_{456} - \\
& a_{458} + a_{464} + a_{465} + a_{467} + 3a_{468} + a_{474} + \\
& a_{475} - a_{477} - a_{489} - a_{491} + a_{492} + a_{495} + \\
& a_{498} - a_{501} - a_{503} - a_{508} - a_{255}
\end{aligned}
$$

$$
a_{898} = \frac{a_{386} + \sqrt{a_{386}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_3 + a_4 - a_{11} - a_{12} + a_{13} - a_{21} + \\
& a_{22} - a_{23} + a_{24} - a_{38} - 2a_{40} + a_{42} +
\end{aligned}
$$

$$
\begin{aligned}
& a_{44} - a_{45} - a_{47} - a_{48} + a_{70} - a_{74} + \\
& a_{75} - a_{76} - a_{86} + a_{87} - 2a_{88} - a_{93} + \\
& a_{94} - a_{95} - a_{96} + a_{131} - a_{134} + a_{138} - \\
& a_{139} + a_{145} + a_{149} - a_{151} - a_{158} + 2a_{159} - \\
& a_{170} - a_{172} + a_{176} + a_{178} - a_{182} - 2a_{184} + \\
& 2a_{188} + a_{190} - a_{192} - a_{387} + 2a_{390} + a_{391} - \\
& a_{405} + a_{406} + a_{416} + a_{417} + a_{420} + a_{424} + \\
& a_{426} + a_{428} + a_{430} + a_{431} - a_{432} - a_{434} + \\
& a_{437} + a_{438} + a_{440} + a_{443} - 2a_{444} - a_{445} - \\
& a_{447} + a_{448} + a_{452} - a_{454} + a_{455} + a_{457} - \\
& a_{459} + a_{465} + a_{466} + a_{468} + 3a_{469} + a_{475} + \\
& a_{476} - a_{478} - a_{490} - a_{492} + a_{493} + a_{496} + \\
& a_{499} - a_{502} - a_{504} - a_{509} - a_{256}
\end{aligned}
$$

$$
a_{899} = \frac{a_{387} - \sqrt{a_{387}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_4 + a_5 - a_{12} - a_{13} + a_{14} - a_{22} + \\
& a_{23} - a_{24} + a_{25} - a_{39} - 2a_{41} + a_{43} + \\
& a_{45} - a_{46} - a_{48} - a_{49} + a_{71} - a_{75} + \\
& a_{76} - a_{77} - a_{87} + a_{88} - 2a_{89} - a_{94} + \\
& a_{95} - a_{96} - a_{97} + a_{132} - a_{135} + a_{139} - \\
& a_{140} + a_{146} + a_{150} - a_{152} - a_{159} + 2a_{160} - \\
& a_{171} - a_{173} + a_{177} + a_{179} - a_{183} - 2a_{185} + \\
& 2a_{189} + a_{191} - a_{193} - a_{388} + 2a_{391} + a_{392} - \\
& a_{406} + a_{407} + a_{417} + a_{418} + a_{421} + a_{425} + \\
& a_{427} + a_{429} + a_{431} + a_{432} - a_{433} - a_{435} + \\
& a_{438} + a_{439} + a_{441} + a_{444} - 2a_{445} - a_{446} - \\
& a_{448} + a_{449} + a_{453} - a_{455} + a_{456} + a_{458} - \\
& a_{460} + a_{466} + a_{467} + a_{469} + 3a_{470} + a_{476} + \\
& a_{477} - a_{479} - a_{491} - a_{493} + a_{494} + a_{497} + \\
& a_{500} - a_{503} - a_{505} - a_{510} - a_{257}
\end{aligned}
$$

$$
a_{900} = \frac{a_{388} - \sqrt{a_{388}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_5 + a_6 - a_{13} - a_{14} + a_7 - a_{23} + \\
& a_{24} - a_{25} + a_{26} - a_{40} - 2a_{42} + a_{44} + \\
& a_{46} - a_{47} - a_{49} - a_{50} + a_{72} - a_{76} + \\
& a_{77} - a_{78} - a_{88} + a_{89} - 2a_{90} - a_{95} + \\
& a_{96} - a_{97} - a_{98} + a_{133} - a_{136} + a_{140} - \\
& a_{141} + a_{147} + a_{151} - a_{153} - a_{160} + 2a_{161} - \\
& a_{172} - a_{174} + a_{178} + a_{180} - a_{184} - 2a_{186} + \\
& 2a_{190} + a_{192} - a_{194} - a_{389} + 2a_{392} + a_{393} - \\
& a_{407} + a_{408} + a_{418} + a_{419} + a_{422} + a_{426} + \\
& a_{428} + a_{430} + a_{432} + a_{433} - a_{434} - a_{436} + \\
& a_{439} + a_{440} + a_{442} + a_{445} - 2a_{446} - a_{447} - \\
& a_{449} + a_{450} + a_{454} - a_{456} + a_{457} + a_{459} - \\
& a_{461} + a_{467} + a_{468} + a_{470} + 3a_{471} + a_{477} + \\
& a_{478} - a_{480} - a_{492} - a_{494} + a_{495} + a_{498} + \\
& a_{501} - a_{504} - a_{506} - a_{255} - a_{258}
\end{aligned}
$$

$$
a_{901} = \frac{a_{389} + \sqrt{a_{389}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_6 + a_3 - a_{14} - a_7 + a_8 - a_{24} + \\
& a_{25} - a_{26} + a_{27} - a_{41} - 2a_{43} + a_{45} + \\
& a_{47} - a_{48} - a_{50} - a_{51} + a_{73} - a_{77} + \\
& a_{78} - a_{79} - a_{89} + a_{90} - 2a_{91} - a_{96} + \\
& a_{97} - a_{98} - a_{99} + a_{134} - a_{137} + a_{141} - \\
& a_{142} + a_{148} + a_{152} - a_{154} - a_{161} + 2a_{162} - \\
& a_{173} - a_{175} + a_{179} + a_{181} - a_{185} - 2a_{187} + \\
& 2a_{191} + a_{193} - a_{195} - a_{390} + 2a_{393} + a_{394} - \\
& a_{408} + a_{409} + a_{419} + a_{420} + a_{423} + a_{427} + \\
& a_{429} + a_{431} + a_{433} + a_{434} - a_{435} - a_{437} + \\
& a_{440} + a_{441} + a_{443} + a_{446} - 2a_{447} - a_{448} - \\
& a_{450} + a_{451} + a_{455} - a_{457} + a_{458} + a_{460} - \\
& a_{462} + a_{468} + a_{469} + a_{471} + 3a_{472} + a_{478} + \\
& a_{479} - a_{481} - a_{493} - a_{495} + a_{496} + a_{499} + \\
& a_{502} - a_{505} - a_{507} - a_{256} - a_{259}
\end{aligned}
$$

$$
a_{902} = \frac{a_{390} - \sqrt{a_{390}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_3 + a_4 - a_7 - a_8 + a_9 - a_{25} + \\
& a_{26} - a_{27} + a_{28} - a_{42} - 2a_{44} + a_{46} + \\
& a_{48} - a_{49} - a_{51} - a_{52} + a_{74} - a_{78} + \\
& a_{79} - a_{80} - a_{90} + a_{91} - 2a_{92} - a_{97} + \\
& a_{98} - a_{99} - a_{100} + a_{135} - a_{138} + a_{142} - \\
& a_{143} + a_{149} + a_{153} - a_{155} - a_{162} + 2a_{163} - \\
& a_{174} - a_{176} + a_{180} + a_{182} - a_{186} - 2a_{188} + \\
& 2a_{192} + a_{194} - a_{196} - a_{391} + 2a_{394} + a_{395} - \\
& a_{409} + a_{410} + a_{420} + a_{421} + a_{424} + a_{428} + \\
& a_{430} + a_{432} + a_{434} + a_{435} - a_{436} - a_{438} + \\
& a_{441} + a_{442} + a_{444} + a_{447} - 2a_{448} - a_{449} - \\
& a_{451} + a_{452} + a_{456} - a_{458} + a_{459} + a_{461} - \\
& a_{463} + a_{469} + a_{470} + a_{472} + 3a_{473} + a_{479} + \\
& a_{480} - a_{482} - a_{494} - a_{496} + a_{497} + a_{500} + \\
& a_{503} - a_{506} - a_{508} - a_{257} - a_{260}
\end{aligned}
$$

$$
a_{903} = \frac{a_{391} + \sqrt{a_{391}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_4 + a_5 - a_8 - a_9 + a_{10} - a_{26} + \\
& a_{27} - a_{28} + a_{29} - a_{43} - 2a_{45} + a_{47} + \\
& a_{49} - a_{50} - a_{52} - a_{53} + a_{75} - a_{79} + \\
& a_{80} - a_{81} - a_{91} + a_{92} - 2a_{93} - a_{98} + \\
& a_{99} - a_{100} - a_{101} + a_{136} - a_{139} + a_{143} - \\
& a_{144} + a_{150} + a_{154} - a_{156} - a_{163} + 2a_{164} - \\
& a_{175} - a_{177} + a_{181} + a_{183} - a_{187} - 2a_{189} + \\
& 2a_{193} + a_{195} - a_{197} - a_{392} + 2a_{395} + a_{396} - \\
& a_{410} + a_{411} + a_{421} + a_{422} + a_{425} + a_{429} + \\
& a_{431} + a_{433} + a_{435} + a_{436} - a_{437} - a_{439} + \\
& a_{442} + a_{443} + a_{445} + a_{448} - 2a_{449} - a_{450} - \\
& a_{452} + a_{453} + a_{457} - a_{459} + a_{460} + a_{462} - \\
& a_{464} + a_{470} + a_{471} + a_{473} + 3a_{474} + a_{480} +
\end{aligned}
$$

$$
\begin{aligned}
& a_{481} - a_{483} - a_{495} - a_{497} + a_{498} + a_{501} + \\
& a_{504} - a_{507} - a_{509} - a_{258} - a_{261} \\
a_{904} &= \frac{a_{392} + \sqrt{a_{392}^2 - 4x}}{2} \\
x &= a_5 + a_6 - a_9 - a_{10} + a_{11} - a_{27} + \\
& a_{28} - a_{29} + a_{30} - a_{44} - 2a_{46} + a_{48} + \\
& a_{50} - a_{51} - a_{53} - a_{54} + a_{76} - a_{80} + \\
& a_{81} - a_{82} - a_{92} + a_{93} - 2a_{94} - a_{99} + \\
& a_{100} - a_{101} - a_{102} + a_{137} - a_{140} + a_{144} - \\
& a_{145} + a_{151} + a_{155} - a_{157} - a_{164} + 2a_{165} - \\
& a_{176} - a_{178} + a_{182} + a_{184} - a_{188} - 2a_{190} + \\
& 2a_{194} + a_{196} - a_{198} - a_{393} + 2a_{396} + a_{397} - \\
& a_{411} + a_{412} + a_{422} + a_{423} + a_{426} + a_{430} + \\
& a_{432} + a_{434} + a_{436} + a_{437} - a_{438} - a_{440} + \\
& a_{443} + a_{444} + a_{446} + a_{449} - 2a_{450} - a_{451} - \\
& a_{453} + a_{454} + a_{458} - a_{460} + a_{461} + a_{463} - \\
& a_{465} + a_{471} + a_{472} + a_{474} + 3a_{475} + a_{481} + \\
& a_{482} - a_{484} - a_{496} - a_{498} + a_{499} + a_{502} + \\
& a_{505} - a_{508} - a_{510} - a_{259} - a_{262} \\
a_{905} &= \frac{a_{393} - \sqrt{a_{393}^2 - 4x}}{2} \\
x &= a_6 + a_3 - a_{10} - a_{11} + a_{12} - a_{28} + \\
& a_{29} - a_{30} + a_{15} - a_{45} - 2a_{47} + a_{49} + \\
& a_{51} - a_{52} - a_{54} - a_{55} + a_{77} - a_{81} + \\
& a_{82} - a_{83} - a_{93} + a_{94} - 2a_{95} - a_{100} + \\
& a_{101} - a_{102} - a_{103} + a_{138} - a_{141} + a_{145} - \\
& a_{146} + a_{152} + a_{156} - a_{158} - a_{165} + 2a_{166} - \\
& a_{177} - a_{179} + a_{183} + a_{185} - a_{189} - 2a_{191} + \\
& 2a_{195} + a_{197} - a_{199} - a_{394} + 2a_{397} + a_{398} - \\
& a_{412} + a_{413} + a_{423} + a_{424} + a_{427} + a_{431} + \\
& a_{433} + a_{435} + a_{437} + a_{438} - a_{439} - a_{441} + \\
& a_{444} + a_{445} + a_{447} + a_{450} - 2a_{451} - a_{452} - \\
& a_{454} + a_{455} + a_{459} - a_{461} + a_{462} + a_{464} - \\
& a_{466} + a_{472} + a_{473} + a_{475} + 3a_{476} + a_{482} + \\
& a_{483} - a_{485} - a_{497} - a_{499} + a_{500} + a_{503} + \\
& a_{506} - a_{509} - a_{255} - a_{260} - a_{263} \\
a_{906} &= \frac{a_{394} + \sqrt{a_{394}^2 - 4x}}{2} \\
x &= a_3 + a_4 - a_{11} - a_{12} + a_{13} - a_{29} + \\
& a_{30} - a_{15} + a_{16} - a_{46} - 2a_{48} + a_{50} + \\
& a_{52} - a_{53} - a_{55} - a_{56} + a_{78} - a_{82} + \\
& a_{83} - a_{84} - a_{94} + a_{95} - 2a_{96} - a_{101} + \\
& a_{102} - a_{103} - a_{104} + a_{139} - a_{142} + a_{146} - \\
& a_{147} + a_{153} + a_{157} - a_{159} - a_{166} + 2a_{167} - \\
& a_{178} - a_{180} + a_{184} + a_{186} - a_{190} - 2a_{192} + \\
& 2a_{196} + a_{198} - a_{200} - a_{395} + 2a_{398} + a_{399} - \\
& a_{413} + a_{414} + a_{424} + a_{425} + a_{428} + a_{432} + \\
& a_{434} + a_{436} + a_{438} + a_{439} - a_{440} - a_{442} + \\
& a_{445} + a_{446} + a_{448} + a_{451} - 2a_{452} - a_{453} - \\
& a_{455} + a_{456} + a_{460} - a_{462} + a_{463} + a_{465} - \\
& a_{467} + a_{473} + a_{474} + a_{476} + 3a_{477} + a_{483} + \\
& a_{484} - a_{486} - a_{498} - a_{500} + a_{501} + a_{504} + \\
& a_{507} - a_{510} - a_{256} - a_{261} - a_{264} \\
a_{907} &= \frac{a_{395} + \sqrt{a_{395}^2 - 4x}}{2} \\
x &= a_4 + a_5 - a_{12} - a_{13} + a_{14} - a_{30} + \\
& a_{15} - a_{16} + a_{17} - a_{47} - 2a_{49} + a_{51} + \\
& a_{53} - a_{54} - a_{56} - a_{57} + a_{79} - a_{83} + \\
& a_{84} - a_{85} - a_{95} + a_{96} - 2a_{97} - a_{102} + \\
& a_{103} - a_{104} - a_{105} + a_{140} - a_{143} + a_{147} - \\
& a_{148} + a_{154} + a_{158} - a_{160} - a_{167} + 2a_{168} - \\
& a_{179} - a_{181} + a_{185} + a_{187} - a_{191} - 2a_{193} + \\
& 2a_{197} + a_{199} - a_{201} - a_{396} + 2a_{399} + a_{400} - \\
& a_{414} + a_{415} + a_{425} + a_{426} + a_{429} + a_{433} + \\
& a_{435} + a_{437} + a_{439} + a_{440} - a_{441} - a_{443} + \\
& a_{446} + a_{447} + a_{449} + a_{452} - 2a_{453} - a_{454} - \\
& a_{456} + a_{457} + a_{461} - a_{463} + a_{464} + a_{466} - \\
& a_{468} + a_{474} + a_{475} + a_{477} + 3a_{478} + a_{484} + \\
& a_{485} - a_{487} - a_{499} - a_{501} + a_{502} + a_{505} + \\
& a_{508} - a_{255} - a_{257} - a_{262} - a_{265} \\
a_{908} &= \frac{a_{396} + \sqrt{a_{396}^2 - 4x}}{2} \\
x &= a_5 + a_6 - a_{13} - a_{14} + a_7 - a_{15} + \\
& a_{16} - a_{17} + a_{18} - a_{48} - 2a_{50} + a_{52} + \\
& a_{54} - a_{55} - a_{57} - a_{58} + a_{80} - a_{84} + \\
& a_{85} - a_{86} - a_{96} + a_{97} - 2a_{98} - a_{103} + \\
& a_{104} - a_{105} - a_{106} + a_{141} - a_{144} + a_{148} - \\
& a_{149} + a_{155} + a_{159} - a_{161} - a_{168} + 2a_{169} - \\
& a_{180} - a_{182} + a_{186} + a_{188} - a_{192} - 2a_{194} + \\
& 2a_{198} + a_{200} - a_{202} - a_{397} + 2a_{400} + a_{401} - \\
& a_{415} + a_{416} + a_{426} + a_{427} + a_{430} + a_{434} + \\
& a_{436} + a_{438} + a_{440} + a_{441} - a_{442} - a_{444} + \\
& a_{447} + a_{448} + a_{450} + a_{453} - 2a_{454} - a_{455} - \\
& a_{457} + a_{458} + a_{462} - a_{464} + a_{465} + a_{467} - \\
& a_{469} + a_{475} + a_{476} + a_{478} + 3a_{479} + a_{485} + \\
& a_{486} - a_{488} - a_{500} - a_{502} + a_{503} + a_{506} + \\
& a_{509} - a_{256} - a_{258} - a_{263} - a_{266} \\
a_{909} &= \frac{a_{397} + \sqrt{a_{397}^2 - 4x}}{2} \\
x &= a_6 + a_3 - a_{14} - a_7 + a_8 - a_{16} + \\
& a_{17} - a_{18} + a_{19} - a_{49} - 2a_{51} + a_{53} + \\
& a_{55} - a_{56} - a_{58} - a_{59} + a_{81} - a_{85} + \\
& a_{86} - a_{87} - a_{97} + a_{98} - 2a_{99} - a_{104} + \\
& a_{105} - a_{106} - a_{107} + a_{142} - a_{145} + a_{149} - \\
& a_{150} + a_{156} + a_{160} - a_{162} - a_{169} + 2a_{170} - \\
& a_{181} - a_{183} + a_{187} + a_{189} - a_{193} - 2a_{195} + \\
& 2a_{199} + a_{201} - a_{203} - a_{398} + 2a_{401} + a_{402} - \\
& a_{416} + a_{417} + a_{427} + a_{428} + a_{431} + a_{435} +
\end{aligned}
$$

$$
\begin{aligned}
& a_{437} + a_{439} + a_{441} + a_{442} - a_{443} - a_{445} + \\
& a_{448} + a_{449} + a_{451} + a_{454} - 2a_{455} - a_{456} - \\
& a_{458} + a_{459} + a_{463} - a_{465} + a_{466} + a_{468} - \\
& a_{470} + a_{476} + a_{477} + a_{479} + 3a_{480} + a_{486} + \\
& a_{487} - a_{489} - a_{501} - a_{503} + a_{504} + a_{507} + \\
& a_{510} - a_{257} - a_{259} - a_{264} - a_{267}
\end{aligned}
$$

$$
\begin{aligned}
a_{910} &= \frac{a_{398} - \sqrt{a_{398}^2 - 4x}}{2} \\
x &= a_3 + a_4 - a_7 - a_8 + a_9 - a_{17} + \\
& a_{18} - a_{19} + a_{20} - a_{50} - 2a_{52} + a_{54} + \\
& a_{56} - a_{57} - a_{59} - a_{60} + a_{82} - a_{86} + \\
& a_{87} - a_{88} - a_{98} + a_{99} - 2a_{100} - a_{105} + \\
& a_{106} - a_{107} - a_{108} + a_{143} - a_{146} + a_{150} - \\
& a_{151} + a_{157} + a_{161} - a_{163} - a_{170} + 2a_{171} - \\
& a_{182} - a_{184} + a_{188} + a_{190} - a_{194} - 2a_{196} + \\
& 2a_{200} + a_{202} - a_{204} - a_{399} + 2a_{402} + a_{403} - \\
& a_{417} + a_{418} + a_{428} + a_{429} + a_{432} + a_{436} + \\
& a_{438} + a_{440} + a_{442} + a_{443} - a_{444} - a_{446} + \\
& a_{449} + a_{450} + a_{452} + a_{455} - 2a_{456} - a_{457} - \\
& a_{459} + a_{460} + a_{464} - a_{466} + a_{467} + a_{469} - \\
& a_{471} + a_{477} + a_{478} + a_{480} + 3a_{481} + a_{487} + \\
& a_{488} - a_{490} - a_{502} - a_{504} + a_{505} + a_{508} + \\
& a_{255} - a_{258} - a_{260} - a_{265} - a_{268}
\end{aligned}
$$

$$
\begin{aligned}
a_{911} &= \frac{a_{399} - \sqrt{a_{399}^2 - 4x}}{2} \\
x &= a_4 + a_5 - a_8 - a_9 + a_{10} - a_{18} + \\
& a_{19} - a_{20} + a_{21} - a_{51} - 2a_{53} + a_{55} + \\
& a_{57} - a_{58} - a_{60} - a_{61} + a_{83} - a_{87} + \\
& a_{88} - a_{89} - a_{99} + a_{100} - 2a_{101} - a_{106} + \\
& a_{107} - a_{108} - a_{109} + a_{144} - a_{147} + a_{151} - \\
& a_{152} + a_{158} + a_{162} - a_{164} - a_{171} + 2a_{172} - \\
& a_{183} - a_{185} + a_{189} + a_{191} - a_{195} - 2a_{197} + \\
& 2a_{201} + a_{203} - a_{205} - a_{400} + 2a_{403} + a_{404} - \\
& a_{418} + a_{419} + a_{429} + a_{430} + a_{433} + a_{437} + \\
& a_{439} + a_{441} + a_{443} + a_{444} - a_{445} - a_{447} + \\
& a_{450} + a_{451} + a_{453} + a_{456} - 2a_{457} - a_{458} - \\
& a_{460} + a_{461} + a_{465} - a_{467} + a_{468} + a_{470} - \\
& a_{472} + a_{478} + a_{479} + a_{481} + 3a_{482} + a_{488} + \\
& a_{489} - a_{491} - a_{503} - a_{505} + a_{506} + a_{509} + \\
& a_{256} - a_{259} - a_{261} - a_{266} - a_{269}
\end{aligned}
$$

$$
\begin{aligned}
a_{912} &= \frac{a_{400} + \sqrt{a_{400}^2 - 4x}}{2} \\
x &= a_5 + a_6 - a_9 - a_{10} + a_{11} - a_{19} + \\
& a_{20} - a_{21} + a_{22} - a_{52} - 2a_{54} + a_{56} + \\
& a_{58} - a_{59} - a_{61} - a_{62} + a_{84} - a_{88} + \\
& a_{89} - a_{90} - a_{100} + a_{101} - 2a_{102} - a_{107} + \\
& a_{108} - a_{109} - a_{110} + a_{145} - a_{148} + a_{152} - \\
& a_{153} + a_{159} + a_{163} - a_{165} - a_{172} + 2a_{173} - \\
& a_{184} - a_{186} + a_{190} + a_{192} - a_{196} - 2a_{198} + \\
& 2a_{202} + a_{204} - a_{206} - a_{401} + 2a_{404} + a_{405} - \\
& a_{419} + a_{420} + a_{430} + a_{431} + a_{434} + a_{438} + \\
& a_{440} + a_{442} + a_{444} + a_{445} - a_{446} - a_{448} + \\
& a_{451} + a_{452} + a_{454} + a_{457} - 2a_{458} - a_{459} - \\
& a_{461} + a_{462} + a_{466} - a_{468} + a_{469} + a_{471} - \\
& a_{473} + a_{479} + a_{480} + a_{482} + 3a_{483} + a_{489} + \\
& a_{490} - a_{492} - a_{504} - a_{506} + a_{507} + a_{510} + \\
& a_{257} - a_{260} - a_{262} - a_{267} - a_{270}
\end{aligned}
$$

$$
\begin{aligned}
a_{913} &= \frac{a_{401} - \sqrt{a_{401}^2 - 4x}}{2} \\
x &= a_6 + a_3 - a_{10} - a_{11} + a_{12} - a_{20} + \\
& a_{21} - a_{22} + a_{23} - a_{53} - 2a_{55} + a_{57} + \\
& a_{59} - a_{60} - a_{62} - a_{31} + a_{85} - a_{89} + \\
& a_{90} - a_{91} - a_{101} + a_{102} - 2a_{103} - a_{108} + \\
& a_{109} - a_{110} - a_{111} + a_{146} - a_{149} + a_{153} - \\
& a_{154} + a_{160} + a_{164} - a_{166} - a_{173} + 2a_{174} - \\
& a_{185} - a_{187} + a_{191} + a_{193} - a_{197} - 2a_{199} + \\
& 2a_{203} + a_{205} - a_{207} - a_{402} + 2a_{405} + a_{406} - \\
& a_{420} + a_{421} + a_{431} + a_{432} + a_{435} + a_{439} + \\
& a_{441} + a_{443} + a_{445} + a_{446} - a_{447} - a_{449} + \\
& a_{452} + a_{453} + a_{455} + a_{458} - 2a_{459} - a_{460} - \\
& a_{462} + a_{463} + a_{467} - a_{469} + a_{470} + a_{472} - \\
& a_{474} + a_{480} + a_{481} + a_{483} + 3a_{484} + a_{490} + \\
& a_{491} - a_{493} - a_{505} - a_{507} + a_{508} + a_{255} + \\
& a_{258} - a_{261} - a_{263} - a_{268} - a_{271}
\end{aligned}
$$

$$
\begin{aligned}
a_{914} &= \frac{a_{402} - \sqrt{a_{402}^2 - 4x}}{2} \\
x &= a_3 + a_4 - a_{11} - a_{12} + a_{13} - a_{21} + \\
& a_{22} - a_{23} + a_{24} - a_{54} - 2a_{56} + a_{58} + \\
& a_{60} - a_{61} - a_{31} - a_{32} + a_{86} - a_{90} + \\
& a_{91} - a_{92} - a_{102} + a_{103} - 2a_{104} - a_{109} + \\
& a_{110} - a_{111} - a_{112} + a_{147} - a_{150} + a_{154} - \\
& a_{155} + a_{161} + a_{165} - a_{167} - a_{174} + 2a_{175} - \\
& a_{186} - a_{188} + a_{192} + a_{194} - a_{198} - 2a_{200} + \\
& 2a_{204} + a_{206} - a_{208} - a_{403} + 2a_{406} + a_{407} - \\
& a_{421} + a_{422} + a_{432} + a_{433} + a_{436} + a_{440} + \\
& a_{442} + a_{444} + a_{446} + a_{447} - a_{448} - a_{450} + \\
& a_{453} + a_{454} + a_{456} + a_{459} - 2a_{460} - a_{461} - \\
& a_{463} + a_{464} + a_{468} - a_{470} + a_{471} + a_{473} - \\
& a_{475} + a_{481} + a_{482} + a_{484} + 3a_{485} + a_{491} + \\
& a_{492} - a_{494} - a_{506} - a_{508} + a_{509} + a_{256} + \\
& a_{259} - a_{262} - a_{264} - a_{269} - a_{272}
\end{aligned}
$$

$$
\begin{aligned}
a_{915} &= \frac{a_{403} - \sqrt{a_{403}^2 - 4x}}{2} \\
x &= a_4 + a_5 - a_{12} - a_{13} + a_{14} - a_{22} + \\
& a_{23} - a_{24} + a_{25} - a_{55} - 2a_{57} + a_{59} + \\
& a_{61} - a_{62} - a_{32} - a_{33} + a_{87} - a_{91} + \\
& a_{92} - a_{93} - a_{103} + a_{104} - 2a_{105} - a_{110} +
\end{aligned}
$$

$$
\begin{aligned}
& a_{111} - a_{112} - a_{113} + a_{148} - a_{151} + a_{155} - \\
& a_{156} + a_{162} + a_{166} - a_{168} - a_{175} + 2a_{176} - \\
& a_{187} - a_{189} + a_{193} + a_{195} - a_{199} - 2a_{201} + \\
& 2a_{205} + a_{207} - a_{209} - a_{404} + 2a_{407} + a_{408} - \\
& a_{422} + a_{423} + a_{433} + a_{434} + a_{437} + a_{441} + \\
& a_{443} + a_{445} + a_{447} + a_{448} - a_{449} - a_{451} + \\
& a_{454} + a_{455} + a_{457} + a_{460} - 2a_{461} - a_{462} - \\
& a_{464} + a_{465} + a_{469} - a_{471} + a_{472} + a_{474} - \\
& a_{476} + a_{482} + a_{483} + a_{485} + 3a_{486} + a_{492} + \\
& a_{493} - a_{495} - a_{507} - a_{509} + a_{510} + a_{257} + \\
& a_{260} - a_{263} - a_{265} - a_{270} - a_{273}
\end{aligned}
$$

$$
a_{916} = \frac{a_{404} + \sqrt{a_{404}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_5 + a_6 - a_{13} - a_{14} + a_7 - a_{23} + \\
& a_{24} - a_{25} + a_{26} - a_{56} - 2a_{58} + a_{60} + \\
& a_{62} - a_{31} - a_{33} - a_{34} + a_{88} - a_{92} + \\
& a_{93} - a_{94} - a_{104} + a_{105} - 2a_{106} - a_{111} + \\
& a_{112} - a_{113} - a_{114} + a_{149} - a_{152} + a_{156} - \\
& a_{157} + a_{163} + a_{167} - a_{169} - a_{176} + 2a_{177} - \\
& a_{188} - a_{190} + a_{194} + a_{196} - a_{200} - 2a_{202} + \\
& 2a_{206} + a_{208} - a_{210} - a_{405} + 2a_{408} + a_{409} - \\
& a_{423} + a_{424} + a_{434} + a_{435} + a_{438} + a_{442} + \\
& a_{444} + a_{446} + a_{448} + a_{449} - a_{450} - a_{452} + \\
& a_{455} + a_{456} + a_{458} + a_{461} - 2a_{462} - a_{463} - \\
& a_{465} + a_{466} + a_{470} - a_{472} + a_{473} + a_{475} - \\
& a_{477} + a_{483} + a_{484} + a_{486} + 3a_{487} + a_{493} + \\
& a_{494} - a_{496} - a_{508} - a_{510} + a_{255} + a_{258} + \\
& a_{261} - a_{264} - a_{266} - a_{271} - a_{274}
\end{aligned}
$$

$$
a_{917} = \frac{a_{405} - \sqrt{a_{405}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_6 + a_3 - a_{14} - a_7 + a_8 - a_{24} + \\
& a_{25} - a_{26} + a_{27} - a_{57} - 2a_{59} + a_{61} + \\
& a_{31} - a_{32} - a_{34} - a_{35} + a_{89} - a_{93} + \\
& a_{94} - a_{95} - a_{105} + a_{106} - 2a_{107} - a_{112} + \\
& a_{113} - a_{114} - a_{115} + a_{150} - a_{153} + a_{157} - \\
& a_{158} + a_{164} + a_{168} - a_{170} - a_{177} + 2a_{178} - \\
& a_{189} - a_{191} + a_{195} + a_{197} - a_{201} - 2a_{203} + \\
& 2a_{207} + a_{209} - a_{211} - a_{406} + 2a_{409} + a_{410} - \\
& a_{424} + a_{425} + a_{435} + a_{436} + a_{439} + a_{443} + \\
& a_{445} + a_{447} + a_{449} + a_{450} - a_{451} - a_{453} + \\
& a_{456} + a_{457} + a_{459} + a_{462} - 2a_{463} - a_{464} - \\
& a_{466} + a_{467} + a_{471} - a_{473} + a_{474} + a_{476} - \\
& a_{478} + a_{484} + a_{485} + a_{487} + 3a_{488} + a_{494} + \\
& a_{495} - a_{497} - a_{509} - a_{255} + a_{256} + a_{259} + \\
& a_{262} - a_{265} - a_{267} - a_{272} - a_{275}
\end{aligned}
$$

$$
a_{918} = \frac{a_{406} - \sqrt{a_{406}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_3 + a_4 - a_7 - a_8 + a_9 - a_{25} + \\
& a_{26} - a_{27} + a_{28} - a_{58} - 2a_{60} + a_{62} + \\
& a_{32} - a_{33} - a_{35} - a_{36} + a_{90} - a_{94} + \\
& a_{95} - a_{96} - a_{106} + a_{107} - 2a_{108} - a_{113} + \\
& a_{114} - a_{115} - a_{116} + a_{151} - a_{154} + a_{158} - \\
& a_{159} + a_{165} + a_{169} - a_{171} - a_{178} + 2a_{179} - \\
& a_{190} - a_{192} + a_{196} + a_{198} - a_{202} - 2a_{204} + \\
& 2a_{208} + a_{210} - a_{212} - a_{407} + 2a_{410} + a_{411} - \\
& a_{425} + a_{426} + a_{436} + a_{437} + a_{440} + a_{444} + \\
& a_{446} + a_{448} + a_{450} + a_{451} - a_{452} - a_{454} + \\
& a_{457} + a_{458} + a_{460} + a_{463} - 2a_{464} - a_{465} - \\
& a_{467} + a_{468} + a_{472} - a_{474} + a_{475} + a_{477} - \\
& a_{479} + a_{485} + a_{486} + a_{488} + 3a_{489} + a_{495} + \\
& a_{496} - a_{498} - a_{510} - a_{256} + a_{257} + a_{260} + \\
& a_{263} - a_{266} - a_{268} - a_{273} - a_{276}
\end{aligned}
$$

$$
a_{919} = \frac{a_{407} + \sqrt{a_{407}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_4 + a_5 - a_8 - a_9 + a_{10} - a_{26} + \\
& a_{27} - a_{28} + a_{29} - a_{59} - 2a_{61} + a_{31} + \\
& a_{33} - a_{34} - a_{36} - a_{37} + a_{91} - a_{95} + \\
& a_{96} - a_{97} - a_{107} + a_{108} - 2a_{109} - a_{114} + \\
& a_{115} - a_{116} - a_{117} + a_{152} - a_{155} + a_{159} - \\
& a_{160} + a_{166} + a_{170} - a_{172} - a_{179} + 2a_{180} - \\
& a_{191} - a_{193} + a_{197} + a_{199} - a_{203} - 2a_{205} + \\
& 2a_{209} + a_{211} - a_{213} - a_{408} + 2a_{411} + a_{412} - \\
& a_{426} + a_{427} + a_{437} + a_{438} + a_{441} + a_{445} + \\
& a_{447} + a_{449} + a_{451} + a_{452} - a_{453} - a_{455} + \\
& a_{458} + a_{459} + a_{461} + a_{464} - 2a_{465} - a_{466} - \\
& a_{468} + a_{469} + a_{473} - a_{475} + a_{476} + a_{478} - \\
& a_{480} + a_{486} + a_{487} + a_{489} + 3a_{490} + a_{496} + \\
& a_{497} - a_{499} - a_{255} - a_{257} + a_{258} + a_{261} + \\
& a_{264} - a_{267} - a_{269} - a_{274} - a_{277}
\end{aligned}
$$

$$
a_{920} = \frac{a_{408} + \sqrt{a_{408}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_5 + a_6 - a_9 - a_{10} + a_{11} - a_{27} + \\
& a_{28} - a_{29} + a_{30} - a_{60} - 2a_{62} + a_{32} + \\
& a_{34} - a_{35} - a_{37} - a_{38} + a_{92} - a_{96} + \\
& a_{97} - a_{98} - a_{108} + a_{109} - 2a_{110} - a_{115} + \\
& a_{116} - a_{117} - a_{118} + a_{153} - a_{156} + a_{160} - \\
& a_{161} + a_{167} + a_{171} - a_{173} - a_{180} + 2a_{181} - \\
& a_{192} - a_{194} + a_{198} + a_{200} - a_{204} - 2a_{206} + \\
& 2a_{210} + a_{212} - a_{214} - a_{409} + 2a_{412} + a_{413} - \\
& a_{427} + a_{428} + a_{438} + a_{439} + a_{442} + a_{446} + \\
& a_{448} + a_{450} + a_{452} + a_{453} - a_{454} - a_{456} + \\
& a_{459} + a_{460} + a_{462} + a_{465} - 2a_{466} - a_{467} - \\
& a_{469} + a_{470} + a_{474} - a_{476} + a_{477} + a_{479} - \\
& a_{481} + a_{487} + a_{488} + a_{490} + 3a_{491} + a_{497} + \\
& a_{498} - a_{500} - a_{256} - a_{258} + a_{259} + a_{262} + \\
& a_{265} - a_{268} - a_{270} - a_{275} - a_{278}
\end{aligned}
$$

$$
\begin{aligned}
a_{921} &= \frac{a_{409} - \sqrt{a_{409}^2 - 4x}}{2} \\
x &= a_6 + a_3 - a_{10} - a_{11} + a_{12} - a_{28} + \\
&\quad a_{29} - a_{30} + a_{15} - a_{61} - 2a_{31} + a_{33} + \\
&\quad a_{35} - a_{36} - a_{38} - a_{39} + a_{93} - a_{97} + \\
&\quad a_{98} - a_{99} - a_{109} + a_{110} - 2a_{111} - a_{116} + \\
&\quad a_{117} - a_{118} - a_{119} + a_{154} - a_{157} + a_{161} - \\
&\quad a_{162} + a_{168} + a_{172} - a_{174} - a_{181} + 2a_{182} - \\
&\quad a_{193} - a_{195} + a_{199} + a_{201} - a_{205} - 2a_{207} + \\
&\quad 2a_{211} + a_{213} - a_{215} - a_{410} + 2a_{413} + a_{414} - \\
&\quad a_{428} + a_{429} + a_{439} + a_{440} + a_{443} + a_{447} + \\
&\quad a_{449} + a_{451} + a_{453} + a_{454} - a_{455} - a_{457} + \\
&\quad a_{460} + a_{461} + a_{463} + a_{466} - 2a_{467} - a_{468} - \\
&\quad a_{470} + a_{471} + a_{475} - a_{477} + a_{478} + a_{480} - \\
&\quad a_{482} + a_{488} + a_{489} + a_{491} + 3a_{492} + a_{498} + \\
&\quad a_{499} - a_{501} - a_{257} - a_{259} + a_{260} + a_{263} + \\
&\quad a_{266} - a_{269} - a_{271} - a_{276} - a_{279} \\
a_{922} &= \frac{a_{410} - \sqrt{a_{410}^2 - 4x}}{2} \\
x &= a_3 + a_4 - a_{11} - a_{12} + a_{13} - a_{29} + \\
&\quad a_{30} - a_{15} + a_{16} - a_{62} - 2a_{32} + a_{34} + \\
&\quad a_{36} - a_{37} - a_{39} - a_{40} + a_{94} - a_{98} + \\
&\quad a_{99} - a_{100} - a_{110} + a_{111} - 2a_{112} - a_{117} + \\
&\quad a_{118} - a_{119} - a_{120} + a_{155} - a_{158} + a_{162} - \\
&\quad a_{163} + a_{169} + a_{173} - a_{175} - a_{182} + 2a_{183} - \\
&\quad a_{194} - a_{196} + a_{200} + a_{202} - a_{206} - 2a_{208} + \\
&\quad 2a_{212} + a_{214} - a_{216} - a_{411} + 2a_{414} + a_{415} - \\
&\quad a_{429} + a_{430} + a_{440} + a_{441} + a_{444} + a_{448} + \\
&\quad a_{450} + a_{452} + a_{454} + a_{455} - a_{456} - a_{458} + \\
&\quad a_{461} + a_{462} + a_{464} + a_{467} - 2a_{468} - a_{469} - \\
&\quad a_{471} + a_{472} + a_{476} - a_{478} + a_{479} + a_{481} - \\
&\quad a_{483} + a_{489} + a_{490} + a_{492} + 3a_{493} + a_{499} + \\
&\quad a_{500} - a_{502} - a_{258} - a_{260} + a_{261} + a_{264} + \\
&\quad a_{267} - a_{270} - a_{272} - a_{277} - a_{280} \\
a_{923} &= \frac{a_{411} - \sqrt{a_{411}^2 - 4x}}{2} \\
x &= a_4 + a_5 - a_{12} - a_{13} + a_{14} - a_{30} + \\
&\quad a_{15} - a_{16} + a_{17} - a_{31} - 2a_{33} + a_{35} + \\
&\quad a_{37} - a_{38} - a_{40} - a_{41} + a_{95} - a_{99} + \\
&\quad a_{100} - a_{101} - a_{111} + a_{112} - 2a_{113} - a_{118} + \\
&\quad a_{119} - a_{120} - a_{121} + a_{156} - a_{159} + a_{163} - \\
&\quad a_{164} + a_{170} + a_{174} - a_{176} - a_{183} + 2a_{184} - \\
&\quad a_{195} - a_{197} + a_{201} + a_{203} - a_{207} - 2a_{209} + \\
&\quad 2a_{213} + a_{215} - a_{217} - a_{412} + 2a_{415} + a_{416} - \\
&\quad a_{430} + a_{431} + a_{441} + a_{442} + a_{445} + a_{449} + \\
&\quad a_{451} + a_{453} + a_{455} + a_{456} - a_{457} - a_{459} + \\
&\quad a_{462} + a_{463} + a_{465} + a_{468} - 2a_{469} - a_{470} - \\
&\quad a_{472} + a_{473} + a_{477} - a_{479} + a_{480} + a_{482} - \\
&\quad a_{484} + a_{490} + a_{491} + a_{493} + 3a_{494} + a_{500} + \\
&\quad a_{501} - a_{503} - a_{259} - a_{261} + a_{262} + a_{265} + \\
&\quad a_{268} - a_{271} - a_{273} - a_{278} - a_{281} \\
a_{924} &= \frac{a_{412} + \sqrt{a_{412}^2 - 4x}}{2} \\
x &= a_5 + a_6 - a_{13} - a_{14} + a_7 - a_{15} + \\
&\quad a_{16} - a_{17} + a_{18} - a_{32} - 2a_{34} + a_{36} + \\
&\quad a_{38} - a_{39} - a_{41} - a_{42} + a_{96} - a_{100} + \\
&\quad a_{101} - a_{102} - a_{112} + a_{113} - 2a_{114} - a_{119} + \\
&\quad a_{120} - a_{121} - a_{122} + a_{157} - a_{160} + a_{164} - \\
&\quad a_{165} + a_{171} + a_{175} - a_{177} - a_{184} + 2a_{185} - \\
&\quad a_{196} - a_{198} + a_{202} + a_{204} - a_{208} - 2a_{210} + \\
&\quad 2a_{214} + a_{216} - a_{218} - a_{413} + 2a_{416} + a_{417} - \\
&\quad a_{431} + a_{432} + a_{442} + a_{443} + a_{446} + a_{450} + \\
&\quad a_{452} + a_{454} + a_{456} + a_{457} - a_{458} - a_{460} + \\
&\quad a_{463} + a_{464} + a_{466} + a_{469} - 2a_{470} - a_{471} - \\
&\quad a_{473} + a_{474} + a_{478} - a_{480} + a_{481} + a_{483} - \\
&\quad a_{485} + a_{491} + a_{492} + a_{494} + 3a_{495} + a_{501} + \\
&\quad a_{502} - a_{504} - a_{260} - a_{262} + a_{263} + a_{266} + \\
&\quad a_{269} - a_{272} - a_{274} - a_{279} - a_{282} \\
a_{925} &= \frac{a_{413} + \sqrt{a_{413}^2 - 4x}}{2} \\
x &= a_6 + a_3 - a_{14} - a_7 + a_8 - a_{16} + \\
&\quad a_{17} - a_{18} + a_{19} - a_{33} - 2a_{35} + a_{37} + \\
&\quad a_{39} - a_{40} - a_{42} - a_{43} + a_{97} - a_{101} + \\
&\quad a_{102} - a_{103} - a_{113} + a_{114} - 2a_{115} - a_{120} + \\
&\quad a_{121} - a_{122} - a_{123} + a_{158} - a_{161} + a_{165} - \\
&\quad a_{166} + a_{172} + a_{176} - a_{178} - a_{185} + 2a_{186} - \\
&\quad a_{197} - a_{199} + a_{203} + a_{205} - a_{209} - 2a_{211} + \\
&\quad 2a_{215} + a_{217} - a_{219} - a_{414} + 2a_{417} + a_{418} - \\
&\quad a_{432} + a_{433} + a_{443} + a_{444} + a_{447} + a_{451} + \\
&\quad a_{453} + a_{455} + a_{457} + a_{458} - a_{459} - a_{461} + \\
&\quad a_{464} + a_{465} + a_{467} + a_{470} - 2a_{471} - a_{472} - \\
&\quad a_{474} + a_{475} + a_{479} - a_{481} + a_{482} + a_{484} - \\
&\quad a_{486} + a_{492} + a_{493} + a_{495} + 3a_{496} + a_{502} + \\
&\quad a_{503} - a_{505} - a_{261} - a_{263} + a_{264} + a_{267} + \\
&\quad a_{270} - a_{273} - a_{275} - a_{280} - a_{283} \\
a_{926} &= \frac{a_{414} - \sqrt{a_{414}^2 - 4x}}{2} \\
x &= a_3 + a_4 - a_7 - a_8 + a_9 - a_{17} + \\
&\quad a_{18} - a_{19} + a_{20} - a_{34} - 2a_{36} + a_{38} + \\
&\quad a_{40} - a_{41} - a_{43} - a_{44} + a_{98} - a_{102} + \\
&\quad a_{103} - a_{104} - a_{114} + a_{115} - 2a_{116} - a_{121} + \\
&\quad a_{122} - a_{123} - a_{124} + a_{159} - a_{162} + a_{166} - \\
&\quad a_{167} + a_{173} + a_{177} - a_{179} - a_{186} + 2a_{187} - \\
&\quad a_{198} - a_{200} + a_{204} + a_{206} - a_{210} - 2a_{212} + \\
&\quad 2a_{216} + a_{218} - a_{220} - a_{415} + 2a_{418} + a_{419} - \\
&\quad a_{433} + a_{434} + a_{444} + a_{445} + a_{448} + a_{452} + \\
&\quad a_{454} + a_{456} + a_{458} + a_{459} - a_{460} - a_{462} + \\
&\quad a_{465} + a_{466} + a_{468} + a_{471} - 2a_{472} - a_{473} -
\end{aligned}
$$

$$
\begin{aligned}
& a_{475} + a_{476} + a_{480} - a_{482} + a_{483} + a_{485} - \\
& a_{487} + a_{493} + a_{494} + a_{496} + 3a_{497} + a_{503} + \\
& a_{504} - a_{506} - a_{262} - a_{264} + a_{265} + a_{268} + \\
& a_{271} - a_{274} - a_{276} - a_{281} - a_{284} \\
a_{927} &= \frac{a_{415} - \sqrt{a_{415}^2 - 4x}}{2} \\
x &= a_4 + a_5 - a_8 - a_9 + a_{10} - a_{18} + \\
& a_{19} - a_{20} + a_{21} - a_{35} - 2a_{37} + a_{39} + \\
& a_{41} - a_{42} - a_{44} - a_{45} + a_{99} - a_{103} + \\
& a_{104} - a_{105} - a_{115} + a_{116} - 2a_{117} - a_{122} + \\
& a_{123} - a_{124} - a_{125} + a_{160} - a_{163} + a_{167} - \\
& a_{168} + a_{174} + a_{178} - a_{180} - a_{187} + 2a_{188} - \\
& a_{199} - a_{201} + a_{205} + a_{207} - a_{211} - 2a_{213} + \\
& 2a_{217} + a_{219} - a_{221} - a_{416} + 2a_{419} + a_{420} - \\
& a_{434} + a_{435} + a_{445} + a_{446} + a_{449} + a_{453} + \\
& a_{455} + a_{457} + a_{459} + a_{460} - a_{461} - a_{463} + \\
& a_{466} + a_{467} + a_{469} + a_{472} - 2a_{473} - a_{474} - \\
& a_{476} + a_{477} + a_{481} - a_{483} + a_{484} + a_{486} - \\
& a_{488} + a_{494} + a_{495} + a_{497} + 3a_{498} + a_{504} + \\
& a_{505} - a_{507} - a_{263} - a_{265} + a_{266} + a_{269} + \\
& a_{272} - a_{275} - a_{277} - a_{282} - a_{285} \\
a_{928} &= \frac{a_{416} - \sqrt{a_{416}^2 - 4x}}{2} \\
x &= a_5 + a_6 - a_9 - a_{10} + a_{11} - a_{19} + \\
& a_{20} - a_{21} + a_{22} - a_{36} - 2a_{38} + a_{40} + \\
& a_{42} - a_{43} - a_{45} - a_{46} + a_{100} - a_{104} + \\
& a_{105} - a_{106} - a_{116} + a_{117} - 2a_{118} - a_{123} + \\
& a_{124} - a_{125} - a_{126} + a_{161} - a_{164} + a_{168} - \\
& a_{169} + a_{175} + a_{179} - a_{181} - a_{188} + 2a_{189} - \\
& a_{200} - a_{202} + a_{206} + a_{208} - a_{212} - 2a_{214} + \\
& 2a_{218} + a_{220} - a_{222} - a_{417} + 2a_{420} + a_{421} - \\
& a_{435} + a_{436} + a_{446} + a_{447} + a_{450} + a_{454} + \\
& a_{456} + a_{458} + a_{460} + a_{461} - a_{462} - a_{464} + \\
& a_{467} + a_{468} + a_{470} + a_{473} - 2a_{474} - a_{475} - \\
& a_{477} + a_{478} + a_{482} - a_{484} + a_{485} + a_{487} - \\
& a_{489} + a_{495} + a_{496} + a_{498} + 3a_{499} + a_{505} + \\
& a_{506} - a_{508} - a_{264} - a_{266} + a_{267} + a_{270} + \\
& a_{273} - a_{276} - a_{278} - a_{283} - a_{286} \\
a_{929} &= \frac{a_{417} + \sqrt{a_{417}^2 - 4x}}{2} \\
x &= a_6 + a_3 - a_{10} - a_{11} + a_{12} - a_{20} + \\
& a_{21} - a_{22} + a_{23} - a_{37} - 2a_{39} + a_{41} + \\
& a_{43} - a_{44} - a_{46} - a_{47} + a_{101} - a_{105} + \\
& a_{106} - a_{107} - a_{117} + a_{118} - 2a_{119} - a_{124} + \\
& a_{125} - a_{126} - a_{63} + a_{162} - a_{165} + a_{169} - \\
& a_{170} + a_{176} + a_{180} - a_{182} - a_{189} + 2a_{190} - \\
& a_{201} - a_{203} + a_{207} + a_{209} - a_{213} - 2a_{215} + \\
& 2a_{219} + a_{221} - a_{223} - a_{418} + 2a_{421} + a_{422} - \\
& a_{436} + a_{437} + a_{447} + a_{448} + a_{451} + a_{455} + \\
& a_{457} + a_{459} + a_{461} + a_{462} - a_{463} - a_{465} + \\
& a_{468} + a_{469} + a_{471} + a_{474} - 2a_{475} - a_{476} - \\
& a_{478} + a_{479} + a_{483} - a_{485} + a_{486} + a_{488} - \\
& a_{490} + a_{496} + a_{497} + a_{499} + 3a_{500} + a_{506} + \\
& a_{507} - a_{509} - a_{265} - a_{267} + a_{268} + a_{271} + \\
& a_{274} - a_{277} - a_{279} - a_{284} - a_{287} \\
a_{930} &= \frac{a_{418} + \sqrt{a_{418}^2 - 4x}}{2} \\
x &= a_3 + a_4 - a_{11} - a_{12} + a_{13} - a_{21} + \\
& a_{22} - a_{23} + a_{24} - a_{38} - 2a_{40} + a_{42} + \\
& a_{44} - a_{45} - a_{47} - a_{48} + a_{102} - a_{106} + \\
& a_{107} - a_{108} - a_{118} + a_{119} - 2a_{120} - a_{125} + \\
& a_{126} - a_{63} - a_{64} + a_{163} - a_{166} + a_{170} - \\
& a_{171} + a_{177} + a_{181} - a_{183} - a_{190} + 2a_{191} - \\
& a_{202} - a_{204} + a_{208} + a_{210} - a_{214} - 2a_{216} + \\
& 2a_{220} + a_{222} - a_{224} - a_{419} + 2a_{422} + a_{423} - \\
& a_{437} + a_{438} + a_{448} + a_{449} + a_{452} + a_{456} + \\
& a_{458} + a_{460} + a_{462} + a_{463} - a_{464} - a_{466} + \\
& a_{469} + a_{470} + a_{472} + a_{475} - 2a_{476} - a_{477} - \\
& a_{479} + a_{480} + a_{484} - a_{486} + a_{487} + a_{489} - \\
& a_{491} + a_{497} + a_{498} + a_{500} + 3a_{501} + a_{507} + \\
& a_{508} - a_{510} - a_{266} - a_{268} + a_{269} + a_{272} + \\
& a_{275} - a_{278} - a_{280} - a_{285} - a_{288} \\
a_{931} &= \frac{a_{419} + \sqrt{a_{419}^2 - 4x}}{2} \\
x &= a_4 + a_5 - a_{12} - a_{13} + a_{14} - a_{22} + \\
& a_{23} - a_{24} + a_{25} - a_{39} - 2a_{41} + a_{43} + \\
& a_{45} - a_{46} - a_{48} - a_{49} + a_{103} - a_{107} + \\
& a_{108} - a_{109} - a_{119} + a_{120} - 2a_{121} - a_{126} + \\
& a_{63} - a_{64} - a_{65} + a_{164} - a_{167} + a_{171} - \\
& a_{172} + a_{178} + a_{182} - a_{184} - a_{191} + 2a_{192} - \\
& a_{203} - a_{205} + a_{209} + a_{211} - a_{215} - 2a_{217} + \\
& 2a_{221} + a_{223} - a_{225} - a_{420} + 2a_{423} + a_{424} - \\
& a_{438} + a_{439} + a_{449} + a_{450} + a_{453} + a_{457} + \\
& a_{459} + a_{461} + a_{463} + a_{464} - a_{465} - a_{467} + \\
& a_{470} + a_{471} + a_{473} + a_{476} - 2a_{477} - a_{478} - \\
& a_{480} + a_{481} + a_{485} - a_{487} + a_{488} + a_{490} - \\
& a_{492} + a_{498} + a_{499} + a_{501} + 3a_{502} + a_{508} + \\
& a_{509} - a_{255} - a_{267} - a_{269} + a_{270} + a_{273} + \\
& a_{276} - a_{279} - a_{281} - a_{286} - a_{289} \\
a_{932} &= \frac{a_{420} - \sqrt{a_{420}^2 - 4x}}{2} \\
x &= a_5 + a_6 - a_{13} - a_{14} + a_7 - a_{23} + \\
& a_{24} - a_{25} + a_{26} - a_{40} - 2a_{42} + a_{44} + \\
& a_{46} - a_{47} - a_{49} - a_{50} + a_{104} - a_{108} + \\
& a_{109} - a_{110} - a_{120} + a_{121} - 2a_{122} - a_{63} + \\
& a_{64} - a_{65} - a_{66} + a_{165} - a_{168} + a_{172} - \\
& a_{173} + a_{179} + a_{183} - a_{185} - a_{192} + 2a_{193} -
\end{aligned}
$$

$$
\begin{aligned}
& a_{204} - a_{206} + a_{210} + a_{212} - a_{216} - 2a_{218} + \\
& 2a_{222} + a_{224} - a_{226} - a_{421} + 2a_{424} + a_{425} - \\
& a_{439} + a_{440} + a_{450} + a_{451} + a_{454} + a_{458} + \\
& a_{460} + a_{462} + a_{464} + a_{465} - a_{466} - a_{468} + \\
& a_{471} + a_{472} + a_{474} + a_{477} - 2a_{478} - a_{479} - \\
& a_{481} + a_{482} + a_{486} - a_{488} + a_{489} + a_{491} - \\
& a_{493} + a_{499} + a_{500} + a_{502} + 3a_{503} + a_{509} + \\
& a_{510} - a_{256} - a_{268} - a_{270} + a_{271} + a_{274} + \\
& a_{277} - a_{280} - a_{282} - a_{287} - a_{290}
\end{aligned}
$$

$$
a_{933} = \frac{a_{421} + \sqrt{a_{421}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_6 + a_3 - a_{14} - a_7 + a_8 - a_{24} + \\
& a_{25} - a_{26} + a_{27} - a_{41} - 2a_{43} + a_{45} + \\
& a_{47} - a_{48} - a_{50} - a_{51} + a_{105} - a_{109} + \\
& a_{110} - a_{111} - a_{121} + a_{122} - 2a_{123} - a_{64} + \\
& a_{65} - a_{66} - a_{67} + a_{166} - a_{169} + a_{173} - \\
& a_{174} + a_{180} + a_{184} - a_{186} - a_{193} + 2a_{194} - \\
& a_{205} - a_{207} + a_{211} + a_{213} - a_{217} - 2a_{219} + \\
& 2a_{223} + a_{225} - a_{227} - a_{422} + 2a_{425} + a_{426} - \\
& a_{440} + a_{441} + a_{451} + a_{452} + a_{455} + a_{459} + \\
& a_{461} + a_{463} + a_{465} + a_{466} - a_{467} - a_{469} + \\
& a_{472} + a_{473} + a_{475} + a_{478} - 2a_{479} - a_{480} - \\
& a_{482} + a_{483} + a_{487} - a_{489} + a_{490} + a_{492} - \\
& a_{494} + a_{500} + a_{501} + a_{503} + 3a_{504} + a_{510} + \\
& a_{255} - a_{257} - a_{269} - a_{271} + a_{272} + a_{275} + \\
& a_{278} - a_{281} - a_{283} - a_{288} - a_{291}
\end{aligned}
$$

$$
a_{934} = \frac{a_{422} - \sqrt{a_{422}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_3 + a_4 - a_7 - a_8 + a_9 - a_{25} + \\
& a_{26} - a_{27} + a_{28} - a_{42} - 2a_{44} + a_{46} + \\
& a_{48} - a_{49} - a_{51} - a_{52} + a_{106} - a_{110} + \\
& a_{111} - a_{112} - a_{122} + a_{123} - 2a_{124} - a_{65} + \\
& a_{66} - a_{67} - a_{68} + a_{167} - a_{170} + a_{174} - \\
& a_{175} + a_{181} + a_{185} - a_{187} - a_{194} + 2a_{195} - \\
& a_{206} - a_{208} + a_{212} + a_{214} - a_{218} - 2a_{220} + \\
& 2a_{224} + a_{226} - a_{228} - a_{423} + 2a_{426} + a_{427} - \\
& a_{441} + a_{442} + a_{452} + a_{453} + a_{456} + a_{460} + \\
& a_{462} + a_{464} + a_{466} + a_{467} - a_{468} - a_{470} + \\
& a_{473} + a_{474} + a_{476} + a_{479} - 2a_{480} - a_{481} - \\
& a_{483} + a_{484} + a_{488} - a_{490} + a_{491} + a_{493} - \\
& a_{495} + a_{501} + a_{502} + a_{504} + 3a_{505} + a_{255} + \\
& a_{256} - a_{258} - a_{270} - a_{272} + a_{273} + a_{276} + \\
& a_{279} - a_{282} - a_{284} - a_{289} - a_{292}
\end{aligned}
$$

$$
a_{935} = \frac{a_{423} + \sqrt{a_{423}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_4 + a_5 - a_8 - a_9 + a_{10} - a_{26} + \\
& a_{27} - a_{28} + a_{29} - a_{43} - 2a_{45} + a_{47} + \\
& a_{49} - a_{50} - a_{52} - a_{53} + a_{107} - a_{111} + \\
& a_{112} - a_{113} - a_{123} + a_{124} - 2a_{125} - a_{66} + \\
& a_{67} - a_{68} - a_{69} + a_{168} - a_{171} + a_{175} - \\
& a_{176} + a_{182} + a_{186} - a_{188} - a_{195} + 2a_{196} - \\
& a_{207} - a_{209} + a_{213} + a_{215} - a_{219} - 2a_{221} + \\
& 2a_{225} + a_{227} - a_{229} - a_{424} + 2a_{427} + a_{428} - \\
& a_{442} + a_{443} + a_{453} + a_{454} + a_{457} + a_{461} + \\
& a_{463} + a_{465} + a_{467} + a_{468} - a_{469} - a_{471} + \\
& a_{474} + a_{475} + a_{477} + a_{480} - 2a_{481} - a_{482} - \\
& a_{484} + a_{485} + a_{489} - a_{491} + a_{492} + a_{494} - \\
& a_{496} + a_{502} + a_{503} + a_{505} + 3a_{506} + a_{256} + \\
& a_{257} - a_{259} - a_{271} - a_{273} + a_{274} + a_{277} + \\
& a_{280} - a_{283} - a_{285} - a_{290} - a_{293}
\end{aligned}
$$

$$
a_{936} = \frac{a_{424} - \sqrt{a_{424}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_5 + a_6 - a_9 - a_{10} + a_{11} - a_{27} + \\
& a_{28} - a_{29} + a_{30} - a_{44} - 2a_{46} + a_{48} + \\
& a_{50} - a_{51} - a_{53} - a_{54} + a_{108} - a_{112} + \\
& a_{113} - a_{114} - a_{124} + a_{125} - 2a_{126} - a_{67} + \\
& a_{68} - a_{69} - a_{70} + a_{169} - a_{172} + a_{176} - \\
& a_{177} + a_{183} + a_{187} - a_{189} - a_{196} + 2a_{197} - \\
& a_{208} - a_{210} + a_{214} + a_{216} - a_{220} - 2a_{222} + \\
& 2a_{226} + a_{228} - a_{230} - a_{425} + 2a_{428} + a_{429} - \\
& a_{443} + a_{444} + a_{454} + a_{455} + a_{458} + a_{462} + \\
& a_{464} + a_{466} + a_{468} + a_{469} - a_{470} - a_{472} + \\
& a_{475} + a_{476} + a_{478} + a_{481} - 2a_{482} - a_{483} - \\
& a_{485} + a_{486} + a_{490} - a_{492} + a_{493} + a_{495} - \\
& a_{497} + a_{503} + a_{504} + a_{506} + 3a_{507} + a_{257} + \\
& a_{258} - a_{260} - a_{272} - a_{274} + a_{275} + a_{278} + \\
& a_{281} - a_{284} - a_{286} - a_{291} - a_{294}
\end{aligned}
$$

$$
a_{937} = \frac{a_{425} - \sqrt{a_{425}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_6 + a_3 - a_{10} - a_{11} + a_{12} - a_{28} + \\
& a_{29} - a_{30} + a_{15} - a_{45} - 2a_{47} + a_{49} + \\
& a_{51} - a_{52} - a_{54} - a_{55} + a_{109} - a_{113} + \\
& a_{114} - a_{115} - a_{125} + a_{126} - 2a_{63} - a_{68} + \\
& a_{69} - a_{70} - a_{71} + a_{170} - a_{173} + a_{177} - \\
& a_{178} + a_{184} + a_{188} - a_{190} - a_{197} + 2a_{198} - \\
& a_{209} - a_{211} + a_{215} + a_{217} - a_{221} - 2a_{223} + \\
& 2a_{227} + a_{229} - a_{231} - a_{426} + 2a_{429} + a_{430} - \\
& a_{444} + a_{445} + a_{455} + a_{456} + a_{459} + a_{463} + \\
& a_{465} + a_{467} + a_{469} + a_{470} - a_{471} - a_{473} + \\
& a_{476} + a_{477} + a_{479} + a_{482} - 2a_{483} - a_{484} - \\
& a_{486} + a_{487} + a_{491} - a_{493} + a_{494} + a_{496} - \\
& a_{498} + a_{504} + a_{505} + a_{507} + 3a_{508} + a_{258} + \\
& a_{259} - a_{261} - a_{273} - a_{275} + a_{276} + a_{279} + \\
& a_{282} - a_{285} - a_{287} - a_{292} - a_{295}
\end{aligned}
$$

$$
a_{938} = \frac{a_{426} + \sqrt{a_{426}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_3 + a_4 - a_{11} - a_{12} + a_{13} - a_{29} + \\
& a_{30} - a_{15} + a_{16} - a_{46} - 2a_{48} + a_{50} +
\end{aligned}
$$

$$
\begin{aligned}
& a_{52} - a_{53} - a_{55} - a_{56} + a_{110} - a_{114} + \\
& a_{115} - a_{116} - a_{126} + a_{63} - 2a_{64} - a_{69} + \\
& a_{70} - a_{71} - a_{72} + a_{171} - a_{174} + a_{178} - \\
& a_{179} + a_{185} + a_{189} - a_{191} - a_{198} + 2a_{199} - \\
& a_{210} - a_{212} + a_{216} + a_{218} - a_{222} - 2a_{224} + \\
& 2a_{228} + a_{230} - a_{232} - a_{427} + 2a_{430} + a_{431} - \\
& a_{445} + a_{446} + a_{456} + a_{457} + a_{460} + a_{464} + \\
& a_{466} + a_{468} + a_{470} + a_{471} - a_{472} - a_{474} + \\
& a_{477} + a_{478} + a_{480} + a_{483} - 2a_{484} - a_{485} - \\
& a_{487} + a_{488} + a_{492} - a_{494} + a_{495} + a_{497} - \\
& a_{499} + a_{505} + a_{506} + a_{508} + 3a_{509} + a_{259} + \\
& a_{260} - a_{262} - a_{274} - a_{276} + a_{277} + a_{280} + \\
& a_{283} - a_{286} - a_{288} - a_{293} - a_{296}
\end{aligned}
$$

$$
\begin{aligned}
a_{939} &= \frac{a_{427} + \sqrt{a_{427}^2 - 4x}}{2} \\
x &= a_4 + a_5 - a_{12} - a_{13} + a_{14} - a_{30} + \\
& a_{15} - a_{16} + a_{17} - a_{47} - 2a_{49} + a_{51} + \\
& a_{53} - a_{54} - a_{56} - a_{57} + a_{111} - a_{115} + \\
& a_{116} - a_{117} - a_{63} + a_{64} - 2a_{65} - a_{70} + \\
& a_{71} - a_{72} - a_{73} + a_{172} - a_{175} + a_{179} - \\
& a_{180} + a_{186} + a_{190} - a_{192} - a_{199} + 2a_{200} - \\
& a_{211} - a_{213} + a_{217} + a_{219} - a_{223} - 2a_{225} + \\
& 2a_{229} + a_{231} - a_{233} - a_{428} + 2a_{431} + a_{432} - \\
& a_{446} + a_{447} + a_{457} + a_{458} + a_{461} + a_{465} + \\
& a_{467} + a_{469} + a_{471} + a_{472} - a_{473} - a_{475} + \\
& a_{478} + a_{479} + a_{481} + a_{484} - 2a_{485} - a_{486} - \\
& a_{488} + a_{489} + a_{493} - a_{495} + a_{496} + a_{498} - \\
& a_{500} + a_{506} + a_{507} + a_{509} + 3a_{510} + a_{260} + \\
& a_{261} - a_{263} - a_{275} - a_{277} + a_{278} + a_{281} + \\
& a_{284} - a_{287} - a_{289} - a_{294} - a_{297}
\end{aligned}
$$

$$
\begin{aligned}
a_{940} &= \frac{a_{428} + \sqrt{a_{428}^2 - 4x}}{2} \\
x &= a_5 + a_6 - a_{13} - a_{14} + a_7 - a_{15} + \\
& a_{16} - a_{17} + a_{18} - a_{48} - 2a_{50} + a_{52} + \\
& a_{54} - a_{55} - a_{57} - a_{58} + a_{112} - a_{116} + \\
& a_{117} - a_{118} - a_{64} + a_{65} - 2a_{66} - a_{71} + \\
& a_{72} - a_{73} - a_{74} + a_{173} - a_{176} + a_{180} - \\
& a_{181} + a_{187} + a_{191} - a_{193} - a_{200} + 2a_{201} - \\
& a_{212} - a_{214} + a_{218} + a_{220} - a_{224} - 2a_{226} + \\
& 2a_{230} + a_{232} - a_{234} - a_{429} + 2a_{432} + a_{433} - \\
& a_{447} + a_{448} + a_{458} + a_{459} + a_{462} + a_{466} + \\
& a_{468} + a_{470} + a_{472} + a_{473} - a_{474} - a_{476} + \\
& a_{479} + a_{480} + a_{482} + a_{485} - 2a_{486} - a_{487} - \\
& a_{489} + a_{490} + a_{494} - a_{496} + a_{497} + a_{499} - \\
& a_{501} + a_{507} + a_{508} + a_{510} + 3a_{255} + a_{261} + \\
& a_{262} - a_{264} - a_{276} - a_{278} + a_{279} + a_{282} + \\
& a_{285} - a_{288} - a_{290} - a_{295} - a_{298}
\end{aligned}
$$

$$
\begin{aligned}
a_{941} &= \frac{a_{429} + \sqrt{a_{429}^2 - 4x}}{2} \\
x &= a_6 + a_3 - a_{14} - a_7 + a_8 - a_{16} + \\
& a_{17} - a_{18} + a_{19} - a_{49} - 2a_{51} + a_{53} + \\
& a_{55} - a_{56} - a_{58} - a_{59} + a_{113} - a_{117} + \\
& a_{118} - a_{119} - a_{65} + a_{66} - 2a_{67} - a_{72} + \\
& a_{73} - a_{74} - a_{75} + a_{174} - a_{177} + a_{181} - \\
& a_{182} + a_{188} + a_{192} - a_{194} - a_{201} + 2a_{202} - \\
& a_{213} - a_{215} + a_{219} + a_{221} - a_{225} - 2a_{227} + \\
& 2a_{231} + a_{233} - a_{235} - a_{430} + 2a_{433} + a_{434} - \\
& a_{448} + a_{449} + a_{459} + a_{460} + a_{463} + a_{467} + \\
& a_{469} + a_{471} + a_{473} + a_{474} - a_{475} - a_{477} + \\
& a_{480} + a_{481} + a_{483} + a_{486} - 2a_{487} - a_{488} - \\
& a_{490} + a_{491} + a_{495} - a_{497} + a_{498} + a_{500} - \\
& a_{502} + a_{508} + a_{509} + a_{255} + 3a_{256} + a_{262} + \\
& a_{263} - a_{265} - a_{277} - a_{279} + a_{280} + a_{283} + \\
& a_{286} - a_{289} - a_{291} - a_{296} - a_{299}
\end{aligned}
$$

$$
\begin{aligned}
a_{942} &= \frac{a_{430} + \sqrt{a_{430}^2 - 4x}}{2} \\
x &= a_3 + a_4 - a_7 - a_8 + a_9 - a_{17} + \\
& a_{18} - a_{19} + a_{20} - a_{50} - 2a_{52} + a_{54} + \\
& a_{56} - a_{57} - a_{59} - a_{60} + a_{114} - a_{118} + \\
& a_{119} - a_{120} - a_{66} + a_{67} - 2a_{68} - a_{73} + \\
& a_{74} - a_{75} - a_{76} + a_{175} - a_{178} + a_{182} - \\
& a_{183} + a_{189} + a_{193} - a_{195} - a_{202} + 2a_{203} - \\
& a_{214} - a_{216} + a_{220} + a_{222} - a_{226} - 2a_{228} + \\
& 2a_{232} + a_{234} - a_{236} - a_{431} + 2a_{434} + a_{435} - \\
& a_{449} + a_{450} + a_{460} + a_{461} + a_{464} + a_{468} + \\
& a_{470} + a_{472} + a_{474} + a_{475} - a_{476} - a_{478} + \\
& a_{481} + a_{482} + a_{484} + a_{487} - 2a_{488} - a_{489} - \\
& a_{491} + a_{492} + a_{496} - a_{498} + a_{499} + a_{501} - \\
& a_{503} + a_{509} + a_{510} + a_{256} + 3a_{257} + a_{263} + \\
& a_{264} - a_{266} - a_{278} - a_{280} + a_{281} + a_{284} + \\
& a_{287} - a_{290} - a_{292} - a_{297} - a_{300}
\end{aligned}
$$

$$
\begin{aligned}
a_{943} &= \frac{a_{431} + \sqrt{a_{431}^2 - 4x}}{2} \\
x &= a_4 + a_5 - a_8 - a_9 + a_{10} - a_{18} + \\
& a_{19} - a_{20} + a_{21} - a_{51} - 2a_{53} + a_{55} + \\
& a_{57} - a_{58} - a_{60} - a_{61} + a_{115} - a_{119} + \\
& a_{120} - a_{121} - a_{67} + a_{68} - 2a_{69} - a_{74} + \\
& a_{75} - a_{76} - a_{77} + a_{176} - a_{179} + a_{183} - \\
& a_{184} + a_{190} + a_{194} - a_{196} - a_{203} + 2a_{204} - \\
& a_{215} - a_{217} + a_{221} + a_{223} - a_{227} - 2a_{229} + \\
& 2a_{233} + a_{235} - a_{237} - a_{432} + 2a_{435} + a_{436} - \\
& a_{450} + a_{451} + a_{461} + a_{462} + a_{465} + a_{469} + \\
& a_{471} + a_{473} + a_{475} + a_{476} - a_{477} - a_{479} + \\
& a_{482} + a_{483} + a_{485} + a_{488} - 2a_{489} - a_{490} - \\
& a_{492} + a_{493} + a_{497} - a_{499} + a_{500} + a_{502} - \\
& a_{504} + a_{510} + a_{255} + a_{257} + 3a_{258} + a_{264} +
\end{aligned}
$$

$$
\begin{aligned}
& a_{265} - a_{267} - a_{279} - a_{281} + a_{282} + a_{285} + \\
& a_{288} - a_{291} - a_{293} - a_{298} - a_{301} \\
a_{944} &= \frac{a_{432} + \sqrt{a_{432}^2 - 4x}}{2} \\
x &= a_5 + a_6 - a_9 - a_{10} + a_{11} - a_{19} + \\
& a_{20} - a_{21} + a_{22} - a_{52} - 2a_{54} + a_{56} + \\
& a_{58} - a_{59} - a_{61} - a_{62} + a_{116} - a_{120} + \\
& a_{121} - a_{122} - a_{68} + a_{69} - 2a_{70} - a_{75} + \\
& a_{76} - a_{77} - a_{78} + a_{177} - a_{180} + a_{184} - \\
& a_{185} + a_{191} + a_{195} - a_{197} - a_{204} + 2a_{205} - \\
& a_{216} - a_{218} + a_{222} + a_{224} - a_{228} - 2a_{230} + \\
& 2a_{234} + a_{236} - a_{238} - a_{433} + 2a_{436} + a_{437} - \\
& a_{451} + a_{452} + a_{462} + a_{463} + a_{466} + a_{470} + \\
& a_{472} + a_{474} + a_{476} + a_{477} - a_{478} - a_{480} + \\
& a_{483} + a_{484} + a_{486} + a_{489} - 2a_{490} - a_{491} - \\
& a_{493} + a_{494} + a_{498} - a_{500} + a_{501} + a_{503} - \\
& a_{505} + a_{255} + a_{256} + a_{258} + 3a_{259} + a_{265} + \\
& a_{266} - a_{268} - a_{280} - a_{282} + a_{283} + a_{286} + \\
& a_{289} - a_{292} - a_{294} - a_{299} - a_{302} \\
a_{945} &= \frac{a_{433} + \sqrt{a_{433}^2 - 4x}}{2} \\
x &= a_6 + a_3 - a_{10} - a_{11} + a_{12} - a_{20} + \\
& a_{21} - a_{22} + a_{23} - a_{53} - 2a_{55} + a_{57} + \\
& a_{59} - a_{60} - a_{62} - a_{31} + a_{117} - a_{121} + \\
& a_{122} - a_{123} - a_{69} + a_{70} - 2a_{71} - a_{76} + \\
& a_{77} - a_{78} - a_{79} + a_{178} - a_{181} + a_{185} - \\
& a_{186} + a_{192} + a_{196} - a_{198} - a_{205} + 2a_{206} - \\
& a_{217} - a_{219} + a_{223} + a_{225} - a_{229} - 2a_{231} + \\
& 2a_{235} + a_{237} - a_{239} - a_{434} + 2a_{437} + a_{438} - \\
& a_{452} + a_{453} + a_{463} + a_{464} + a_{467} + a_{471} + \\
& a_{473} + a_{475} + a_{477} + a_{478} - a_{479} - a_{481} + \\
& a_{484} + a_{485} + a_{487} + a_{490} - 2a_{491} - a_{492} - \\
& a_{494} + a_{495} + a_{499} - a_{501} + a_{502} + a_{504} - \\
& a_{506} + a_{256} + a_{257} + a_{259} + 3a_{260} + a_{266} + \\
& a_{267} - a_{269} - a_{281} - a_{283} + a_{284} + a_{287} + \\
& a_{290} - a_{293} - a_{295} - a_{300} - a_{303} \\
a_{946} &= \frac{a_{434} - \sqrt{a_{434}^2 - 4x}}{2} \\
x &= a_3 + a_4 - a_{11} - a_{12} + a_{13} - a_{21} + \\
& a_{22} - a_{23} + a_{24} - a_{54} - 2a_{56} + a_{58} + \\
& a_{60} - a_{61} - a_{31} - a_{32} + a_{118} - a_{122} + \\
& a_{123} - a_{124} - a_{70} + a_{71} - 2a_{72} - a_{77} + \\
& a_{78} - a_{79} - a_{80} + a_{179} - a_{182} + a_{186} - \\
& a_{187} + a_{193} + a_{197} - a_{199} - a_{206} + 2a_{207} - \\
& a_{218} - a_{220} + a_{224} + a_{226} - a_{230} - 2a_{232} + \\
& 2a_{236} + a_{238} - a_{240} - a_{435} + 2a_{438} + a_{439} - \\
& a_{453} + a_{454} + a_{464} + a_{465} + a_{468} + a_{472} + \\
& a_{474} + a_{476} + a_{478} + a_{479} - a_{480} - a_{482} + \\
& a_{485} + a_{486} + a_{488} + a_{491} - 2a_{492} - a_{493} - \\
& a_{495} + a_{496} + a_{500} - a_{502} + a_{503} + a_{505} - \\
& a_{507} + a_{257} + a_{258} + a_{260} + 3a_{261} + a_{267} + \\
& a_{268} - a_{270} - a_{282} - a_{284} + a_{285} + a_{288} + \\
& a_{291} - a_{294} - a_{296} - a_{301} - a_{304} \\
a_{947} &= \frac{a_{435} + \sqrt{a_{435}^2 - 4x}}{2} \\
x &= a_4 + a_5 - a_{12} - a_{13} + a_{14} - a_{22} + \\
& a_{23} - a_{24} + a_{25} - a_{55} - 2a_{57} + a_{59} + \\
& a_{61} - a_{62} - a_{32} - a_{33} + a_{119} - a_{123} + \\
& a_{124} - a_{125} - a_{71} + a_{72} - 2a_{73} - a_{78} + \\
& a_{79} - a_{80} - a_{81} + a_{180} - a_{183} + a_{187} - \\
& a_{188} + a_{194} + a_{198} - a_{200} - a_{207} + 2a_{208} - \\
& a_{219} - a_{221} + a_{225} + a_{227} - a_{231} - 2a_{233} + \\
& 2a_{237} + a_{239} - a_{241} - a_{436} + 2a_{439} + a_{440} - \\
& a_{454} + a_{455} + a_{465} + a_{466} + a_{469} + a_{473} + \\
& a_{475} + a_{477} + a_{479} + a_{480} - a_{481} - a_{483} + \\
& a_{486} + a_{487} + a_{489} + a_{492} - 2a_{493} - a_{494} - \\
& a_{496} + a_{497} + a_{501} - a_{503} + a_{504} + a_{506} - \\
& a_{508} + a_{258} + a_{259} + a_{261} + 3a_{262} + a_{268} + \\
& a_{269} - a_{271} - a_{283} - a_{285} + a_{286} + a_{289} + \\
& a_{292} - a_{295} - a_{297} - a_{302} - a_{305} \\
a_{948} &= \frac{a_{436} - \sqrt{a_{436}^2 - 4x}}{2} \\
x &= a_5 + a_6 - a_{13} - a_{14} + a_7 - a_{23} + \\
& a_{24} - a_{25} + a_{26} - a_{56} - 2a_{58} + a_{60} + \\
& a_{62} - a_{31} - a_{33} - a_{34} + a_{120} - a_{124} + \\
& a_{125} - a_{126} - a_{72} + a_{73} - 2a_{74} - a_{79} + \\
& a_{80} - a_{81} - a_{82} + a_{181} - a_{184} + a_{188} - \\
& a_{189} + a_{195} + a_{199} - a_{201} - a_{208} + 2a_{209} - \\
& a_{220} - a_{222} + a_{226} + a_{228} - a_{232} - 2a_{234} + \\
& 2a_{238} + a_{240} - a_{242} - a_{437} + 2a_{440} + a_{441} - \\
& a_{455} + a_{456} + a_{466} + a_{467} + a_{470} + a_{474} + \\
& a_{476} + a_{478} + a_{480} + a_{481} - a_{482} - a_{484} + \\
& a_{487} + a_{488} + a_{490} + a_{493} - 2a_{494} - a_{495} - \\
& a_{497} + a_{498} + a_{502} - a_{504} + a_{505} + a_{507} - \\
& a_{509} + a_{259} + a_{260} + a_{262} + 3a_{263} + a_{269} + \\
& a_{270} - a_{272} - a_{284} - a_{286} + a_{287} + a_{290} + \\
& a_{293} - a_{296} - a_{298} - a_{303} - a_{306} \\
a_{949} &= \frac{a_{437} + \sqrt{a_{437}^2 - 4x}}{2} \\
x &= a_6 + a_3 - a_{14} - a_7 + a_8 - a_{24} + \\
& a_{25} - a_{26} + a_{27} - a_{57} - 2a_{59} + a_{61} + \\
& a_{31} - a_{32} - a_{34} - a_{35} + a_{121} - a_{125} + \\
& a_{126} - a_{63} - a_{73} + a_{74} - 2a_{75} - a_{80} + \\
& a_{81} - a_{82} - a_{83} + a_{182} - a_{185} + a_{189} - \\
& a_{190} + a_{196} + a_{200} - a_{202} - a_{209} + 2a_{210} - \\
& a_{221} - a_{223} + a_{227} + a_{229} - a_{233} - 2a_{235} + \\
& 2a_{239} + a_{241} - a_{243} - a_{438} + 2a_{441} + a_{442} - \\
& a_{456} + a_{457} + a_{467} + a_{468} + a_{471} + a_{475} +
\end{aligned}
$$

$$
\begin{aligned}
& a_{477} + a_{479} + a_{481} + a_{482} - a_{483} - a_{485} + \\
& a_{488} + a_{489} + a_{491} + a_{494} - 2a_{495} - a_{496} - \\
& a_{498} + a_{499} + a_{503} - a_{505} + a_{506} + a_{508} - \\
& a_{510} + a_{260} + a_{261} + a_{263} + 3a_{264} + a_{270} + \\
& a_{271} - a_{273} - a_{285} - a_{287} + a_{288} + a_{291} + \\
& a_{294} - a_{297} - a_{299} - a_{304} - a_{307}
\end{aligned}
$$

$$
\begin{aligned}
a_{950} &= \frac{a_{438} + \sqrt{a_{438}^2 - 4x}}{2} \\
x &= a_3 + a_4 - a_7 - a_8 + a_9 - a_{25} + \\
& a_{26} - a_{27} + a_{28} - a_{58} - 2a_{60} + a_{62} + \\
& a_{32} - a_{33} - a_{35} - a_{36} + a_{122} - a_{126} + \\
& a_{63} - a_{64} - a_{74} + a_{75} - 2a_{76} - a_{81} + \\
& a_{82} - a_{83} - a_{84} + a_{183} - a_{186} + a_{190} - \\
& a_{191} + a_{197} + a_{201} - a_{203} - a_{210} + 2a_{211} - \\
& a_{222} - a_{224} + a_{228} + a_{230} - a_{234} - 2a_{236} + \\
& 2a_{240} + a_{242} - a_{244} - a_{439} + 2a_{442} + a_{443} - \\
& a_{457} + a_{458} + a_{468} + a_{469} + a_{472} + a_{476} + \\
& a_{478} + a_{480} + a_{482} + a_{483} - a_{484} - a_{486} + \\
& a_{489} + a_{490} + a_{492} + a_{495} - 2a_{496} - a_{497} - \\
& a_{499} + a_{500} + a_{504} - a_{506} + a_{507} + a_{509} - \\
& a_{255} + a_{261} + a_{262} + a_{264} + 3a_{265} + a_{271} + \\
& a_{272} - a_{274} - a_{286} - a_{288} + a_{289} + a_{292} + \\
& a_{295} - a_{298} - a_{300} - a_{305} - a_{308}
\end{aligned}
$$

$$
\begin{aligned}
a_{951} &= \frac{a_{439} - \sqrt{a_{439}^2 - 4x}}{2} \\
x &= a_4 + a_5 - a_8 - a_9 + a_{10} - a_{26} + \\
& a_{27} - a_{28} + a_{29} - a_{59} - 2a_{61} + a_{31} + \\
& a_{33} - a_{34} - a_{36} - a_{37} + a_{123} - a_{63} + \\
& a_{64} - a_{65} - a_{75} + a_{76} - 2a_{77} - a_{82} + \\
& a_{83} - a_{84} - a_{85} + a_{184} - a_{187} + a_{191} - \\
& a_{192} + a_{198} + a_{202} - a_{204} - a_{211} + 2a_{212} - \\
& a_{223} - a_{225} + a_{229} + a_{231} - a_{235} - 2a_{237} + \\
& 2a_{241} + a_{243} - a_{245} - a_{440} + 2a_{443} + a_{444} - \\
& a_{458} + a_{459} + a_{469} + a_{470} + a_{473} + a_{477} + \\
& a_{479} + a_{481} + a_{483} + a_{484} - a_{485} - a_{487} + \\
& a_{490} + a_{491} + a_{493} + a_{496} - 2a_{497} - a_{498} - \\
& a_{500} + a_{501} + a_{505} - a_{507} + a_{508} + a_{510} - \\
& a_{256} + a_{262} + a_{263} + a_{265} + 3a_{266} + a_{272} + \\
& a_{273} - a_{275} - a_{287} - a_{289} + a_{290} + a_{293} + \\
& a_{296} - a_{299} - a_{301} - a_{306} - a_{309}
\end{aligned}
$$

$$
\begin{aligned}
a_{952} &= \frac{a_{440} - \sqrt{a_{440}^2 - 4x}}{2} \\
x &= a_5 + a_6 - a_9 - a_{10} + a_{11} - a_{27} + \\
& a_{28} - a_{29} + a_{30} - a_{60} - 2a_{62} + a_{32} + \\
& a_{34} - a_{35} - a_{37} - a_{38} + a_{124} - a_{64} + \\
& a_{65} - a_{66} - a_{76} + a_{77} - 2a_{78} - a_{83} + \\
& a_{84} - a_{85} - a_{86} + a_{185} - a_{188} + a_{192} - \\
& a_{193} + a_{199} + a_{203} - a_{205} - a_{212} + 2a_{213} - \\
& a_{224} - a_{226} + a_{230} + a_{232} - a_{236} - 2a_{238} + \\
& 2a_{242} + a_{244} - a_{246} - a_{441} + 2a_{444} + a_{445} - \\
& a_{459} + a_{460} + a_{470} + a_{471} + a_{474} + a_{478} + \\
& a_{480} + a_{482} + a_{484} + a_{485} - a_{486} - a_{488} + \\
& a_{491} + a_{492} + a_{494} + a_{497} - 2a_{498} - a_{499} - \\
& a_{501} + a_{502} + a_{506} - a_{508} + a_{509} + a_{255} - \\
& a_{257} + a_{263} + a_{264} + a_{266} + 3a_{267} + a_{273} + \\
& a_{274} - a_{276} - a_{288} - a_{290} + a_{291} + a_{294} + \\
& a_{297} - a_{300} - a_{302} - a_{307} - a_{310}
\end{aligned}
$$

$$
\begin{aligned}
a_{953} &= \frac{a_{441} - \sqrt{a_{441}^2 - 4x}}{2} \\
x &= a_6 + a_3 - a_{10} - a_{11} + a_{12} - a_{28} + \\
& a_{29} - a_{30} + a_{15} - a_{61} - 2a_{31} + a_{33} + \\
& a_{35} - a_{36} - a_{38} - a_{39} + a_{125} - a_{65} + \\
& a_{66} - a_{67} - a_{77} + a_{78} - 2a_{79} - a_{84} + \\
& a_{85} - a_{86} - a_{87} + a_{186} - a_{189} + a_{193} - \\
& a_{194} + a_{200} + a_{204} - a_{206} - a_{213} + 2a_{214} - \\
& a_{225} - a_{227} + a_{231} + a_{233} - a_{237} - 2a_{239} + \\
& 2a_{243} + a_{245} - a_{247} - a_{442} + 2a_{445} + a_{446} - \\
& a_{460} + a_{461} + a_{471} + a_{472} + a_{475} + a_{479} + \\
& a_{481} + a_{483} + a_{485} + a_{486} - a_{487} - a_{489} + \\
& a_{492} + a_{493} + a_{495} + a_{498} - 2a_{499} - a_{500} - \\
& a_{502} + a_{503} + a_{507} - a_{509} + a_{510} + a_{256} - \\
& a_{258} + a_{264} + a_{265} + a_{267} + 3a_{268} + a_{274} + \\
& a_{275} - a_{277} - a_{289} - a_{291} + a_{292} + a_{295} + \\
& a_{298} - a_{301} - a_{303} - a_{308} - a_{311}
\end{aligned}
$$

$$
\begin{aligned}
a_{954} &= \frac{a_{442} - \sqrt{a_{442}^2 - 4x}}{2} \\
x &= a_3 + a_4 - a_{11} - a_{12} + a_{13} - a_{29} + \\
& a_{30} - a_{15} + a_{16} - a_{62} - 2a_{32} + a_{34} + \\
& a_{36} - a_{37} - a_{39} - a_{40} + a_{126} - a_{66} + \\
& a_{67} - a_{68} - a_{78} + a_{79} - 2a_{80} - a_{85} + \\
& a_{86} - a_{87} - a_{88} + a_{187} - a_{190} + a_{194} - \\
& a_{195} + a_{201} + a_{205} - a_{207} - a_{214} + 2a_{215} - \\
& a_{226} - a_{228} + a_{232} + a_{234} - a_{238} - 2a_{240} + \\
& 2a_{244} + a_{246} - a_{248} - a_{443} + 2a_{446} + a_{447} - \\
& a_{461} + a_{462} + a_{472} + a_{473} + a_{476} + a_{480} + \\
& a_{482} + a_{484} + a_{486} + a_{487} - a_{488} - a_{490} + \\
& a_{493} + a_{494} + a_{496} + a_{499} - 2a_{500} - a_{501} - \\
& a_{503} + a_{504} + a_{508} - a_{510} + a_{255} + a_{257} - \\
& a_{259} + a_{265} + a_{266} + a_{268} + 3a_{269} + a_{275} + \\
& a_{276} - a_{278} - a_{290} - a_{292} + a_{293} + a_{296} + \\
& a_{299} - a_{302} - a_{304} - a_{309} - a_{312}
\end{aligned}
$$

$$
\begin{aligned}
a_{955} &= \frac{a_{443} - \sqrt{a_{443}^2 - 4x}}{2} \\
x &= a_4 + a_5 - a_{12} - a_{13} + a_{14} - a_{30} + \\
& a_{15} - a_{16} + a_{17} - a_{31} - 2a_{33} + a_{35} + \\
& a_{37} - a_{38} - a_{40} - a_{41} + a_{63} - a_{67} + \\
& a_{68} - a_{69} - a_{79} + a_{80} - 2a_{81} - a_{86} +
\end{aligned}
$$

$$
\begin{aligned}
& a_{87} - a_{88} - a_{89} + a_{188} - a_{191} + a_{195} - \\
& a_{196} + a_{202} + a_{206} - a_{208} - a_{215} + 2a_{216} - \\
& a_{227} - a_{229} + a_{233} + a_{235} - a_{239} - 2a_{241} + \\
& 2a_{245} + a_{247} - a_{249} - a_{444} + 2a_{447} + a_{448} - \\
& a_{462} + a_{463} + a_{473} + a_{474} + a_{477} + a_{481} + \\
& a_{483} + a_{485} + a_{487} + a_{488} - a_{489} - a_{491} + \\
& a_{494} + a_{495} + a_{497} + a_{500} - 2a_{501} - a_{502} - \\
& a_{504} + a_{505} + a_{509} - a_{255} + a_{256} + a_{258} - \\
& a_{260} + a_{266} + a_{267} + a_{269} + 3a_{270} + a_{276} + \\
& a_{277} - a_{279} - a_{291} - a_{293} + a_{294} + a_{297} + \\
& a_{300} - a_{303} - a_{305} - a_{310} - a_{313}
\end{aligned}
$$

$$
a_{956} = \frac{a_{444} + \sqrt{a_{444}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_5 + a_6 - a_{13} - a_{14} + a_7 - a_{15} + \\
& a_{16} - a_{17} + a_{18} - a_{32} - 2a_{34} + a_{36} + \\
& a_{38} - a_{39} - a_{41} - a_{42} + a_{64} - a_{68} + \\
& a_{69} - a_{70} - a_{80} + a_{81} - 2a_{82} - a_{87} + \\
& a_{88} - a_{89} - a_{90} + a_{189} - a_{192} + a_{196} - \\
& a_{197} + a_{203} + a_{207} - a_{209} - a_{216} + 2a_{217} - \\
& a_{228} - a_{230} + a_{234} + a_{236} - a_{240} - 2a_{242} + \\
& 2a_{246} + a_{248} - a_{250} - a_{445} + 2a_{448} + a_{449} - \\
& a_{463} + a_{464} + a_{474} + a_{475} + a_{478} + a_{482} + \\
& a_{484} + a_{486} + a_{488} + a_{489} - a_{490} - a_{492} + \\
& a_{495} + a_{496} + a_{498} + a_{501} - 2a_{502} - a_{503} - \\
& a_{505} + a_{506} + a_{510} - a_{256} + a_{257} + a_{259} - \\
& a_{261} + a_{267} + a_{268} + a_{270} + 3a_{271} + a_{277} + \\
& a_{278} - a_{280} - a_{292} - a_{294} + a_{295} + a_{298} + \\
& a_{301} - a_{304} - a_{306} - a_{311} - a_{314}
\end{aligned}
$$

$$
a_{957} = \frac{a_{445} - \sqrt{a_{445}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_6 + a_3 - a_{14} - a_7 + a_8 - a_{16} + \\
& a_{17} - a_{18} + a_{19} - a_{33} - 2a_{35} + a_{37} + \\
& a_{39} - a_{40} - a_{42} - a_{43} + a_{65} - a_{69} + \\
& a_{70} - a_{71} - a_{81} + a_{82} - 2a_{83} - a_{88} + \\
& a_{89} - a_{90} - a_{91} + a_{190} - a_{193} + a_{197} - \\
& a_{198} + a_{204} + a_{208} - a_{210} - a_{217} + 2a_{218} - \\
& a_{229} - a_{231} + a_{235} + a_{237} - a_{241} - 2a_{243} + \\
& 2a_{247} + a_{249} - a_{251} - a_{446} + 2a_{449} + a_{450} - \\
& a_{464} + a_{465} + a_{475} + a_{476} + a_{479} + a_{483} + \\
& a_{485} + a_{487} + a_{489} + a_{490} - a_{491} - a_{493} + \\
& a_{496} + a_{497} + a_{499} + a_{502} - 2a_{503} - a_{504} - \\
& a_{506} + a_{507} + a_{255} - a_{257} + a_{258} + a_{260} - \\
& a_{262} + a_{268} + a_{269} + a_{271} + 3a_{272} + a_{278} + \\
& a_{279} - a_{281} - a_{293} - a_{295} + a_{296} + a_{299} + \\
& a_{302} - a_{305} - a_{307} - a_{312} - a_{315}
\end{aligned}
$$

$$
a_{958} = \frac{a_{446} + \sqrt{a_{446}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_3 + a_4 - a_7 - a_8 + a_9 - a_{17} + \\
& a_{18} - a_{19} + a_{20} - a_{34} - 2a_{36} + a_{38} + \\
& a_{40} - a_{41} - a_{43} - a_{44} + a_{66} - a_{70} + \\
& a_{71} - a_{72} - a_{82} + a_{83} - 2a_{84} - a_{89} + \\
& a_{90} - a_{91} - a_{92} + a_{191} - a_{194} + a_{198} - \\
& a_{199} + a_{205} + a_{209} - a_{211} - a_{218} + 2a_{219} - \\
& a_{230} - a_{232} + a_{236} + a_{238} - a_{242} - 2a_{244} + \\
& 2a_{248} + a_{250} - a_{252} - a_{447} + 2a_{450} + a_{451} - \\
& a_{465} + a_{466} + a_{476} + a_{477} + a_{480} + a_{484} + \\
& a_{486} + a_{488} + a_{490} + a_{491} - a_{492} - a_{494} + \\
& a_{497} + a_{498} + a_{500} + a_{503} - 2a_{504} - a_{505} - \\
& a_{507} + a_{508} + a_{256} - a_{258} + a_{259} + a_{261} - \\
& a_{263} + a_{269} + a_{270} + a_{272} + 3a_{273} + a_{279} + \\
& a_{280} - a_{282} - a_{294} - a_{296} + a_{297} + a_{300} + \\
& a_{303} - a_{306} - a_{308} - a_{313} - a_{316}
\end{aligned}
$$

$$
a_{959} = \frac{a_{447} + \sqrt{a_{447}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_4 + a_5 - a_8 - a_9 + a_{10} - a_{18} + \\
& a_{19} - a_{20} + a_{21} - a_{35} - 2a_{37} + a_{39} + \\
& a_{41} - a_{42} - a_{44} - a_{45} + a_{67} - a_{71} + \\
& a_{72} - a_{73} - a_{83} + a_{84} - 2a_{85} - a_{90} + \\
& a_{91} - a_{92} - a_{93} + a_{192} - a_{195} + a_{199} - \\
& a_{200} + a_{206} + a_{210} - a_{212} - a_{219} + 2a_{220} - \\
& a_{231} - a_{233} + a_{237} + a_{239} - a_{243} - 2a_{245} + \\
& 2a_{249} + a_{251} - a_{253} - a_{448} + 2a_{451} + a_{452} - \\
& a_{466} + a_{467} + a_{477} + a_{478} + a_{481} + a_{485} + \\
& a_{487} + a_{489} + a_{491} + a_{492} - a_{493} - a_{495} + \\
& a_{498} + a_{499} + a_{501} + a_{504} - 2a_{505} - a_{506} - \\
& a_{508} + a_{509} + a_{257} - a_{259} + a_{260} + a_{262} - \\
& a_{264} + a_{270} + a_{271} + a_{273} + 3a_{274} + a_{280} + \\
& a_{281} - a_{283} - a_{295} - a_{297} + a_{298} + a_{301} + \\
& a_{304} - a_{307} - a_{309} - a_{314} - a_{317}
\end{aligned}
$$

$$
a_{960} = \frac{a_{448} - \sqrt{a_{448}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_5 + a_6 - a_9 - a_{10} + a_{11} - a_{19} + \\
& a_{20} - a_{21} + a_{22} - a_{36} - 2a_{38} + a_{40} + \\
& a_{42} - a_{43} - a_{45} - a_{46} + a_{68} - a_{72} + \\
& a_{73} - a_{74} - a_{84} + a_{85} - 2a_{86} - a_{91} + \\
& a_{92} - a_{93} - a_{94} + a_{193} - a_{196} + a_{200} - \\
& a_{201} + a_{207} + a_{211} - a_{213} - a_{220} + 2a_{221} - \\
& a_{232} - a_{234} + a_{238} + a_{240} - a_{244} - 2a_{246} + \\
& 2a_{250} + a_{252} - a_{254} - a_{449} + 2a_{452} + a_{453} - \\
& a_{467} + a_{468} + a_{478} + a_{479} + a_{482} + a_{486} + \\
& a_{488} + a_{490} + a_{492} + a_{493} - a_{494} - a_{496} + \\
& a_{499} + a_{500} + a_{502} + a_{505} - 2a_{506} - a_{507} - \\
& a_{509} + a_{510} + a_{258} - a_{260} + a_{261} + a_{263} - \\
& a_{265} + a_{271} + a_{272} + a_{274} + 3a_{275} + a_{281} + \\
& a_{282} - a_{284} - a_{296} - a_{298} + a_{299} + a_{302} + \\
& a_{305} - a_{308} - a_{310} - a_{315} - a_{318}
\end{aligned}
$$

$$
\begin{aligned}
a_{961} &= \frac{a_{449} - \sqrt{a_{449}^2 - 4x}}{2} \\
x &= a_6 + a_3 - a_{10} - a_{11} + a_{12} - a_{20} + \\
&\quad a_{21} - a_{22} + a_{23} - a_{37} - 2a_{39} + a_{41} + \\
&\quad a_{43} - a_{44} - a_{46} - a_{47} + a_{69} - a_{73} + \\
&\quad a_{74} - a_{75} - a_{85} + a_{86} - 2a_{87} - a_{92} + \\
&\quad a_{93} - a_{94} - a_{95} + a_{194} - a_{197} + a_{201} - \\
&\quad a_{202} + a_{208} + a_{212} - a_{214} - a_{221} + 2a_{222} - \\
&\quad a_{233} - a_{235} + a_{239} + a_{241} - a_{245} - 2a_{247} + \\
&\quad 2a_{251} + a_{253} - a_{127} - a_{450} + 2a_{453} + a_{454} - \\
&\quad a_{468} + a_{469} + a_{479} + a_{480} + a_{483} + a_{487} + \\
&\quad a_{489} + a_{491} + a_{493} + a_{494} - a_{495} - a_{497} + \\
&\quad a_{500} + a_{501} + a_{503} + a_{506} - 2a_{507} - a_{508} - \\
&\quad a_{510} + a_{255} + a_{259} - a_{261} + a_{262} + a_{264} - \\
&\quad a_{266} + a_{272} + a_{273} + a_{275} + 3a_{276} + a_{282} + \\
&\quad a_{283} - a_{285} - a_{297} - a_{299} + a_{300} + a_{303} + \\
&\quad a_{306} - a_{309} - a_{311} - a_{316} - a_{319} \\
a_{962} &= \frac{a_{450} + \sqrt{a_{450}^2 - 4x}}{2} \\
x &= a_3 + a_4 - a_{11} - a_{12} + a_{13} - a_{21} + \\
&\quad a_{22} - a_{23} + a_{24} - a_{38} - 2a_{40} + a_{42} + \\
&\quad a_{44} - a_{45} - a_{47} - a_{48} + a_{70} - a_{74} + \\
&\quad a_{75} - a_{76} - a_{86} + a_{87} - 2a_{88} - a_{93} + \\
&\quad a_{94} - a_{95} - a_{96} + a_{195} - a_{198} + a_{202} - \\
&\quad a_{203} + a_{209} + a_{213} - a_{215} - a_{222} + 2a_{223} - \\
&\quad a_{234} - a_{236} + a_{240} + a_{242} - a_{246} - 2a_{248} + \\
&\quad 2a_{252} + a_{254} - a_{128} - a_{451} + 2a_{454} + a_{455} - \\
&\quad a_{469} + a_{470} + a_{480} + a_{481} + a_{484} + a_{488} + \\
&\quad a_{490} + a_{492} + a_{494} + a_{495} - a_{496} - a_{498} + \\
&\quad a_{501} + a_{502} + a_{504} + a_{507} - 2a_{508} - a_{509} - \\
&\quad a_{255} + a_{256} + a_{260} - a_{262} + a_{263} + a_{265} - \\
&\quad a_{267} + a_{273} + a_{274} + a_{276} + 3a_{277} + a_{283} + \\
&\quad a_{284} - a_{286} - a_{298} - a_{300} + a_{301} + a_{304} + \\
&\quad a_{307} - a_{310} - a_{312} - a_{317} - a_{320} \\
a_{963} &= \frac{a_{451} - \sqrt{a_{451}^2 - 4x}}{2} \\
x &= a_4 + a_5 - a_{12} - a_{13} + a_{14} - a_{22} + \\
&\quad a_{23} - a_{24} + a_{25} - a_{39} - 2a_{41} + a_{43} + \\
&\quad a_{45} - a_{46} - a_{48} - a_{49} + a_{71} - a_{75} + \\
&\quad a_{76} - a_{77} - a_{87} + a_{88} - 2a_{89} - a_{94} + \\
&\quad a_{95} - a_{96} - a_{97} + a_{196} - a_{199} + a_{203} - \\
&\quad a_{204} + a_{210} + a_{214} - a_{216} - a_{223} + 2a_{224} - \\
&\quad a_{235} - a_{237} + a_{241} + a_{243} - a_{247} - 2a_{249} + \\
&\quad 2a_{253} + a_{127} - a_{129} - a_{452} + 2a_{455} + a_{456} - \\
&\quad a_{470} + a_{471} + a_{481} + a_{482} + a_{485} + a_{489} + \\
&\quad a_{491} + a_{493} + a_{495} + a_{496} - a_{497} - a_{499} + \\
&\quad a_{502} + a_{503} + a_{505} + a_{508} - 2a_{509} - a_{510} - \\
&\quad a_{256} + a_{257} + a_{261} - a_{263} + a_{264} + a_{266} - \\
&\quad a_{268} + a_{274} + a_{275} + a_{277} + 3a_{278} + a_{284} + \\
&\quad a_{285} - a_{287} - a_{299} - a_{301} + a_{302} + a_{305} + \\
&\quad a_{308} - a_{311} - a_{313} - a_{318} - a_{321} \\
a_{964} &= \frac{a_{452} + \sqrt{a_{452}^2 - 4x}}{2} \\
x &= a_5 + a_6 - a_{13} - a_{14} + a_7 - a_{23} + \\
&\quad a_{24} - a_{25} + a_{26} - a_{40} - 2a_{42} + a_{44} + \\
&\quad a_{46} - a_{47} - a_{49} - a_{50} + a_{72} - a_{76} + \\
&\quad a_{77} - a_{78} - a_{88} + a_{89} - 2a_{90} - a_{95} + \\
&\quad a_{96} - a_{97} - a_{98} + a_{197} - a_{200} + a_{204} - \\
&\quad a_{205} + a_{211} + a_{215} - a_{217} - a_{224} + 2a_{225} - \\
&\quad a_{236} - a_{238} + a_{242} + a_{244} - a_{248} - 2a_{250} + \\
&\quad 2a_{254} + a_{128} - a_{130} - a_{453} + 2a_{456} + a_{457} - \\
&\quad a_{471} + a_{472} + a_{482} + a_{483} + a_{486} + a_{490} + \\
&\quad a_{492} + a_{494} + a_{496} + a_{497} - a_{498} - a_{500} + \\
&\quad a_{503} + a_{504} + a_{506} + a_{509} - 2a_{510} - a_{255} - \\
&\quad a_{257} + a_{258} + a_{262} - a_{264} + a_{265} + a_{267} - \\
&\quad a_{269} + a_{275} + a_{276} + a_{278} + 3a_{279} + a_{285} + \\
&\quad a_{286} - a_{288} - a_{300} - a_{302} + a_{303} + a_{306} + \\
&\quad a_{309} - a_{312} - a_{314} - a_{319} - a_{322} \\
a_{965} &= \frac{a_{453} + \sqrt{a_{453}^2 - 4x}}{2} \\
x &= a_6 + a_3 - a_{14} - a_7 + a_8 - a_{24} + \\
&\quad a_{25} - a_{26} + a_{27} - a_{41} - 2a_{43} + a_{45} + \\
&\quad a_{47} - a_{48} - a_{50} - a_{51} + a_{73} - a_{77} + \\
&\quad a_{78} - a_{79} - a_{89} + a_{90} - 2a_{91} - a_{96} + \\
&\quad a_{97} - a_{98} - a_{99} + a_{198} - a_{201} + a_{205} - \\
&\quad a_{206} + a_{212} + a_{216} - a_{218} - a_{225} + 2a_{226} - \\
&\quad a_{237} - a_{239} + a_{243} + a_{245} - a_{249} - 2a_{251} + \\
&\quad 2a_{127} + a_{129} - a_{131} - a_{454} + 2a_{457} + a_{458} - \\
&\quad a_{472} + a_{473} + a_{483} + a_{484} + a_{487} + a_{491} + \\
&\quad a_{493} + a_{495} + a_{497} + a_{498} - a_{499} - a_{501} + \\
&\quad a_{504} + a_{505} + a_{507} + a_{510} - 2a_{255} - a_{256} - \\
&\quad a_{258} + a_{259} + a_{263} - a_{265} + a_{266} + a_{268} - \\
&\quad a_{270} + a_{276} + a_{277} + a_{279} + 3a_{280} + a_{286} + \\
&\quad a_{287} - a_{289} - a_{301} - a_{303} + a_{304} + a_{307} + \\
&\quad a_{310} - a_{313} - a_{315} - a_{320} - a_{323} \\
a_{966} &= \frac{a_{454} - \sqrt{a_{454}^2 - 4x}}{2} \\
x &= a_3 + a_4 - a_7 - a_8 + a_9 - a_{25} + \\
&\quad a_{26} - a_{27} + a_{28} - a_{42} - 2a_{44} + a_{46} + \\
&\quad a_{48} - a_{49} - a_{51} - a_{52} + a_{74} - a_{78} + \\
&\quad a_{79} - a_{80} - a_{90} + a_{91} - 2a_{92} - a_{97} + \\
&\quad a_{98} - a_{99} - a_{100} + a_{199} - a_{202} + a_{206} - \\
&\quad a_{207} + a_{213} + a_{217} - a_{219} - a_{226} + 2a_{227} - \\
&\quad a_{238} - a_{240} + a_{244} + a_{246} - a_{250} - 2a_{252} + \\
&\quad 2a_{128} + a_{130} - a_{132} - a_{455} + 2a_{458} + a_{459} - \\
&\quad a_{473} + a_{474} + a_{484} + a_{485} + a_{488} + a_{492} + \\
&\quad a_{494} + a_{496} + a_{498} + a_{499} - a_{500} - a_{502} + \\
&\quad a_{505} + a_{506} + a_{508} + a_{255} - 2a_{256} - a_{257} -
\end{aligned}
$$

$$
\begin{aligned}
& a_{259} + a_{260} + a_{264} - a_{266} + a_{267} + a_{269} - \\
& a_{271} + a_{277} + a_{278} + a_{280} + 3a_{281} + a_{287} + \\
& a_{288} - a_{290} - a_{302} - a_{304} + a_{305} + a_{308} + \\
& a_{311} - a_{314} - a_{316} - a_{321} - a_{324}
\end{aligned}
$$

$$
a_{967} = \frac{a_{455} + \sqrt{a_{455}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_4 + a_5 - a_8 - a_9 + a_{10} - a_{26} + \\
& a_{27} - a_{28} + a_{29} - a_{43} - 2a_{45} + a_{47} + \\
& a_{49} - a_{50} - a_{52} - a_{53} + a_{75} - a_{79} + \\
& a_{80} - a_{81} - a_{91} + a_{92} - 2a_{93} - a_{98} + \\
& a_{99} - a_{100} - a_{101} + a_{200} - a_{203} + a_{207} - \\
& a_{208} + a_{214} + a_{218} - a_{220} - a_{227} + 2a_{228} - \\
& a_{239} - a_{241} + a_{245} + a_{247} - a_{251} - 2a_{253} + \\
& 2a_{129} + a_{131} - a_{133} - a_{456} + 2a_{459} + a_{460} - \\
& a_{474} + a_{475} + a_{485} + a_{486} + a_{489} + a_{493} + \\
& a_{495} + a_{497} + a_{499} + a_{500} - a_{501} - a_{503} + \\
& a_{506} + a_{507} + a_{509} + a_{256} - 2a_{257} - a_{258} - \\
& a_{260} + a_{261} + a_{265} - a_{267} + a_{268} + a_{270} - \\
& a_{272} + a_{278} + a_{279} + a_{281} + 3a_{282} + a_{288} + \\
& a_{289} - a_{291} - a_{303} - a_{305} + a_{306} + a_{309} + \\
& a_{312} - a_{315} - a_{317} - a_{322} - a_{325}
\end{aligned}
$$

$$
a_{968} = \frac{a_{456} + \sqrt{a_{456}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_5 + a_6 - a_9 - a_{10} + a_{11} - a_{27} + \\
& a_{28} - a_{29} + a_{30} - a_{44} - 2a_{46} + a_{48} + \\
& a_{50} - a_{51} - a_{53} - a_{54} + a_{76} - a_{80} + \\
& a_{81} - a_{82} - a_{92} + a_{93} - 2a_{94} - a_{99} + \\
& a_{100} - a_{101} - a_{102} + a_{201} - a_{204} + a_{208} - \\
& a_{209} + a_{215} + a_{219} - a_{221} - a_{228} + 2a_{229} - \\
& a_{240} - a_{242} + a_{246} + a_{248} - a_{252} - 2a_{254} + \\
& 2a_{130} + a_{132} - a_{134} - a_{457} + 2a_{460} + a_{461} - \\
& a_{475} + a_{476} + a_{486} + a_{487} + a_{490} + a_{494} + \\
& a_{496} + a_{498} + a_{500} + a_{501} - a_{502} - a_{504} + \\
& a_{507} + a_{508} + a_{510} + a_{257} - 2a_{258} - a_{259} - \\
& a_{261} + a_{262} + a_{266} - a_{268} + a_{269} + a_{271} - \\
& a_{273} + a_{279} + a_{280} + a_{282} + 3a_{283} + a_{289} + \\
& a_{290} - a_{292} - a_{304} - a_{306} + a_{307} + a_{310} + \\
& a_{313} - a_{316} - a_{318} - a_{323} - a_{326}
\end{aligned}
$$

$$
a_{969} = \frac{a_{457} - \sqrt{a_{457}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_6 + a_3 - a_{10} - a_{11} + a_{12} - a_{28} + \\
& a_{29} - a_{30} + a_{15} - a_{45} - 2a_{47} + a_{49} + \\
& a_{51} - a_{52} - a_{54} - a_{55} + a_{77} - a_{81} + \\
& a_{82} - a_{83} - a_{93} + a_{94} - 2a_{95} - a_{100} + \\
& a_{101} - a_{102} - a_{103} + a_{202} - a_{205} + a_{209} - \\
& a_{210} + a_{216} + a_{220} - a_{222} - a_{229} + 2a_{230} - \\
& a_{241} - a_{243} + a_{247} + a_{249} - a_{253} - 2a_{127} + \\
& 2a_{131} + a_{133} - a_{135} - a_{458} + 2a_{461} + a_{462} - \\
& a_{476} + a_{477} + a_{487} + a_{488} + a_{491} + a_{495} + \\
& a_{497} + a_{499} + a_{501} + a_{502} - a_{503} - a_{505} + \\
& a_{508} + a_{509} + a_{255} + a_{258} - 2a_{259} - a_{260} - \\
& a_{262} + a_{263} + a_{267} - a_{269} + a_{270} + a_{272} - \\
& a_{274} + a_{280} + a_{281} + a_{283} + 3a_{284} + a_{290} + \\
& a_{291} - a_{293} - a_{305} - a_{307} + a_{308} + a_{311} + \\
& a_{314} - a_{317} - a_{319} - a_{324} - a_{327}
\end{aligned}
$$

$$
a_{970} = \frac{a_{458} + \sqrt{a_{458}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_3 + a_4 - a_{11} - a_{12} + a_{13} - a_{29} + \\
& a_{30} - a_{15} + a_{16} - a_{46} - 2a_{48} + a_{50} + \\
& a_{52} - a_{53} - a_{55} - a_{56} + a_{78} - a_{82} + \\
& a_{83} - a_{84} - a_{94} + a_{95} - 2a_{96} - a_{101} + \\
& a_{102} - a_{103} - a_{104} + a_{203} - a_{206} + a_{210} - \\
& a_{211} + a_{217} + a_{221} - a_{223} - a_{230} + 2a_{231} - \\
& a_{242} - a_{244} + a_{248} + a_{250} - a_{254} - 2a_{128} + \\
& 2a_{132} + a_{134} - a_{136} - a_{459} + 2a_{462} + a_{463} - \\
& a_{477} + a_{478} + a_{488} + a_{489} + a_{492} + a_{496} + \\
& a_{498} + a_{500} + a_{502} + a_{503} - a_{504} - a_{506} + \\
& a_{509} + a_{510} + a_{256} + a_{259} - 2a_{260} - a_{261} - \\
& a_{263} + a_{264} + a_{268} - a_{270} + a_{271} + a_{273} - \\
& a_{275} + a_{281} + a_{282} + a_{284} + 3a_{285} + a_{291} + \\
& a_{292} - a_{294} - a_{306} - a_{308} + a_{309} + a_{312} + \\
& a_{315} - a_{318} - a_{320} - a_{325} - a_{328}
\end{aligned}
$$

$$
a_{971} = \frac{a_{459} + \sqrt{a_{459}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_4 + a_5 - a_{12} - a_{13} + a_{14} - a_{30} + \\
& a_{15} - a_{16} + a_{17} - a_{47} - 2a_{49} + a_{51} + \\
& a_{53} - a_{54} - a_{56} - a_{57} + a_{79} - a_{83} + \\
& a_{84} - a_{85} - a_{95} + a_{96} - 2a_{97} - a_{102} + \\
& a_{103} - a_{104} - a_{105} + a_{204} - a_{207} + a_{211} - \\
& a_{212} + a_{218} + a_{222} - a_{224} - a_{231} + 2a_{232} - \\
& a_{243} - a_{245} + a_{249} + a_{251} - a_{127} - 2a_{129} + \\
& 2a_{133} + a_{135} - a_{137} - a_{460} + 2a_{463} + a_{464} - \\
& a_{478} + a_{479} + a_{489} + a_{490} + a_{493} + a_{497} + \\
& a_{499} + a_{501} + a_{503} + a_{504} - a_{505} - a_{507} + \\
& a_{510} + a_{255} + a_{257} + a_{260} - 2a_{261} - a_{262} - \\
& a_{264} + a_{265} + a_{269} - a_{271} + a_{272} + a_{274} - \\
& a_{276} + a_{282} + a_{283} + a_{285} + 3a_{286} + a_{292} + \\
& a_{293} - a_{295} - a_{307} - a_{309} + a_{310} + a_{313} + \\
& a_{316} - a_{319} - a_{321} - a_{326} - a_{329}
\end{aligned}
$$

$$
a_{972} = \frac{a_{460} - \sqrt{a_{460}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_5 + a_6 - a_{13} - a_{14} + a_7 - a_{15} + \\
& a_{16} - a_{17} + a_{18} - a_{48} - 2a_{50} + a_{52} + \\
& a_{54} - a_{55} - a_{57} - a_{58} + a_{80} - a_{84} + \\
& a_{85} - a_{86} - a_{96} + a_{97} - 2a_{98} - a_{103} + \\
& a_{104} - a_{105} - a_{106} + a_{205} - a_{208} + a_{212} - \\
& a_{213} + a_{219} + a_{223} - a_{225} - a_{232} + 2a_{233} -
\end{aligned}
$$

$$
\begin{aligned}
& a_{244} - a_{246} + a_{250} + a_{252} - a_{128} - 2a_{130} + \\
& 2a_{134} + a_{136} - a_{138} - a_{461} + 2a_{464} + a_{465} - \\
& a_{479} + a_{480} + a_{490} + a_{491} + a_{494} + a_{498} + \\
& a_{500} + a_{502} + a_{504} + a_{505} - a_{506} - a_{508} + \\
& a_{255} + a_{256} + a_{258} + a_{261} - 2a_{262} - a_{263} - \\
& a_{265} + a_{266} + a_{270} - a_{272} + a_{273} + a_{275} - \\
& a_{277} + a_{283} + a_{284} + a_{286} + 3a_{287} + a_{293} + \\
& a_{294} - a_{296} - a_{308} - a_{310} + a_{311} + a_{314} + \\
& a_{317} - a_{320} - a_{322} - a_{327} - a_{330}
\end{aligned}
$$

$$
a_{973} = \frac{a_{461} - \sqrt{a_{461}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_6 + a_3 - a_{14} - a_7 + a_8 - a_{16} + \\
& a_{17} - a_{18} + a_{19} - a_{49} - 2a_{51} + a_{53} + \\
& a_{55} - a_{56} - a_{58} - a_{59} + a_{81} - a_{85} + \\
& a_{86} - a_{87} - a_{97} + a_{98} - 2a_{99} - a_{104} + \\
& a_{105} - a_{106} - a_{107} + a_{206} - a_{209} + a_{213} - \\
& a_{214} + a_{220} + a_{224} - a_{226} - a_{233} + 2a_{234} - \\
& a_{245} - a_{247} + a_{251} + a_{253} - a_{129} - 2a_{131} + \\
& 2a_{135} + a_{137} - a_{139} - a_{462} + 2a_{465} + a_{466} - \\
& a_{480} + a_{481} + a_{491} + a_{492} + a_{495} + a_{499} + \\
& a_{501} + a_{503} + a_{505} + a_{506} - a_{507} - a_{509} + \\
& a_{256} + a_{257} + a_{259} + a_{262} - 2a_{263} - a_{264} - \\
& a_{266} + a_{267} + a_{271} - a_{273} + a_{274} + a_{276} - \\
& a_{278} + a_{284} + a_{285} + a_{287} + 3a_{288} + a_{294} + \\
& a_{295} - a_{297} - a_{309} - a_{311} + a_{312} + a_{315} + \\
& a_{318} - a_{321} - a_{323} - a_{328} - a_{331}
\end{aligned}
$$

$$
a_{974} = \frac{a_{462} + \sqrt{a_{462}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_3 + a_4 - a_7 - a_8 + a_9 - a_{17} + \\
& a_{18} - a_{19} + a_{20} - a_{50} - 2a_{52} + a_{54} + \\
& a_{56} - a_{57} - a_{59} - a_{60} + a_{82} - a_{86} + \\
& a_{87} - a_{88} - a_{98} + a_{99} - 2a_{100} - a_{105} + \\
& a_{106} - a_{107} - a_{108} + a_{207} - a_{210} + a_{214} - \\
& a_{215} + a_{221} + a_{225} - a_{227} - a_{234} + 2a_{235} - \\
& a_{246} - a_{248} + a_{252} + a_{254} - a_{130} - 2a_{132} + \\
& 2a_{136} + a_{138} - a_{140} - a_{463} + 2a_{466} + a_{467} - \\
& a_{481} + a_{482} + a_{492} + a_{493} + a_{496} + a_{500} + \\
& a_{502} + a_{504} + a_{506} + a_{507} - a_{508} - a_{510} + \\
& a_{257} + a_{258} + a_{260} + a_{263} - 2a_{264} - a_{265} - \\
& a_{267} + a_{268} + a_{272} - a_{274} + a_{275} + a_{277} - \\
& a_{279} + a_{285} + a_{286} + a_{288} + 3a_{289} + a_{295} + \\
& a_{296} - a_{298} - a_{310} - a_{312} + a_{313} + a_{316} + \\
& a_{319} - a_{322} - a_{324} - a_{329} - a_{332}
\end{aligned}
$$

$$
a_{975} = \frac{a_{463} - \sqrt{a_{463}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_4 + a_5 - a_8 - a_9 + a_{10} - a_{18} + \\
& a_{19} - a_{20} + a_{21} - a_{51} - 2a_{53} + a_{55} + \\
& a_{57} - a_{58} - a_{60} - a_{61} + a_{83} - a_{87} + \\
& a_{88} - a_{89} - a_{99} + a_{100} - 2a_{101} - a_{106} + \\
& a_{107} - a_{108} - a_{109} + a_{208} - a_{211} + a_{215} - \\
& a_{216} + a_{222} + a_{226} - a_{228} - a_{235} + 2a_{236} - \\
& a_{247} - a_{249} + a_{253} + a_{127} - a_{131} - 2a_{133} + \\
& 2a_{137} + a_{139} - a_{141} - a_{464} + 2a_{467} + a_{468} - \\
& a_{482} + a_{483} + a_{493} + a_{494} + a_{497} + a_{501} + \\
& a_{503} + a_{505} + a_{507} + a_{508} - a_{509} - a_{255} + \\
& a_{258} + a_{259} + a_{261} + a_{264} - 2a_{265} - a_{266} - \\
& a_{268} + a_{269} + a_{273} - a_{275} + a_{276} + a_{278} - \\
& a_{280} + a_{286} + a_{287} + a_{289} + 3a_{290} + a_{296} + \\
& a_{297} - a_{299} - a_{311} - a_{313} + a_{314} + a_{317} + \\
& a_{320} - a_{323} - a_{325} - a_{330} - a_{333}
\end{aligned}
$$

$$
a_{976} = \frac{a_{464} - \sqrt{a_{464}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_5 + a_6 - a_9 - a_{10} + a_{11} - a_{19} + \\
& a_{20} - a_{21} + a_{22} - a_{52} - 2a_{54} + a_{56} + \\
& a_{58} - a_{59} - a_{61} - a_{62} + a_{84} - a_{88} + \\
& a_{89} - a_{90} - a_{100} + a_{101} - 2a_{102} - a_{107} + \\
& a_{108} - a_{109} - a_{110} + a_{209} - a_{212} + a_{216} - \\
& a_{217} + a_{223} + a_{227} - a_{229} - a_{236} + 2a_{237} - \\
& a_{248} - a_{250} + a_{254} + a_{128} - a_{132} - 2a_{134} + \\
& 2a_{138} + a_{140} - a_{142} - a_{465} + 2a_{468} + a_{469} - \\
& a_{483} + a_{484} + a_{494} + a_{495} + a_{498} + a_{502} + \\
& a_{504} + a_{506} + a_{508} + a_{509} - a_{510} - a_{256} + \\
& a_{259} + a_{260} + a_{262} + a_{265} - 2a_{266} - a_{267} - \\
& a_{269} + a_{270} + a_{274} - a_{276} + a_{277} + a_{279} - \\
& a_{281} + a_{287} + a_{288} + a_{290} + 3a_{291} + a_{297} + \\
& a_{298} - a_{300} - a_{312} - a_{314} + a_{315} + a_{318} + \\
& a_{321} - a_{324} - a_{326} - a_{331} - a_{334}
\end{aligned}
$$

$$
a_{977} = \frac{a_{465} + \sqrt{a_{465}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_6 + a_3 - a_{10} - a_{11} + a_{12} - a_{20} + \\
& a_{21} - a_{22} + a_{23} - a_{53} - 2a_{55} + a_{57} + \\
& a_{59} - a_{60} - a_{62} - a_{31} + a_{85} - a_{89} + \\
& a_{90} - a_{91} - a_{101} + a_{102} - 2a_{103} - a_{108} + \\
& a_{109} - a_{110} - a_{111} + a_{210} - a_{213} + a_{217} - \\
& a_{218} + a_{224} + a_{228} - a_{230} - a_{237} + 2a_{238} - \\
& a_{249} - a_{251} + a_{127} + a_{129} - a_{133} - 2a_{135} + \\
& 2a_{139} + a_{141} - a_{143} - a_{466} + 2a_{469} + a_{470} - \\
& a_{484} + a_{485} + a_{495} + a_{496} + a_{499} + a_{503} + \\
& a_{505} + a_{507} + a_{509} + a_{510} - a_{255} - a_{257} + \\
& a_{260} + a_{261} + a_{263} + a_{266} - 2a_{267} - a_{268} - \\
& a_{270} + a_{271} + a_{275} - a_{277} + a_{278} + a_{280} - \\
& a_{282} + a_{288} + a_{289} + a_{291} + 3a_{292} + a_{298} + \\
& a_{299} - a_{301} - a_{313} - a_{315} + a_{316} + a_{319} + \\
& a_{322} - a_{325} - a_{327} - a_{332} - a_{335}
\end{aligned}
$$

$$
a_{978} = \frac{a_{466} + \sqrt{a_{466}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_3 + a_4 - a_{11} - a_{12} + a_{13} - a_{21} + \\
& a_{22} - a_{23} + a_{24} - a_{54} - 2a_{56} + a_{58} +
\end{aligned}
$$

$$
\begin{aligned}
& a_{60} - a_{61} - a_{31} - a_{32} + a_{86} - a_{90} + \\
& a_{91} - a_{92} - a_{102} + a_{103} - 2a_{104} - a_{109} + \\
& a_{110} - a_{111} - a_{112} + a_{211} - a_{214} + a_{218} - \\
& a_{219} + a_{225} + a_{229} - a_{231} - a_{238} + 2a_{239} - \\
& a_{250} - a_{252} + a_{128} + a_{130} - a_{134} - 2a_{136} + \\
& 2a_{140} + a_{142} - a_{144} - a_{467} + 2a_{470} + a_{471} - \\
& a_{485} + a_{486} + a_{496} + a_{497} + a_{500} + a_{504} + \\
& a_{506} + a_{508} + a_{510} + a_{255} - a_{256} - a_{258} + \\
& a_{261} + a_{262} + a_{264} + a_{267} - 2a_{268} - a_{269} - \\
& a_{271} + a_{272} + a_{276} - a_{278} + a_{279} + a_{281} - \\
& a_{283} + a_{289} + a_{290} + a_{292} + 3a_{293} + a_{299} + \\
& a_{300} - a_{302} - a_{314} - a_{316} + a_{317} + a_{320} + \\
& a_{323} - a_{326} - a_{328} - a_{333} - a_{336}
\end{aligned}
$$

$$
\begin{aligned}
a_{979} &= \frac{a_{467} - \sqrt{a_{467}^2 - 4x}}{2} \\
x &= a_4 + a_5 - a_{12} - a_{13} + a_{14} - a_{22} + \\
& a_{23} - a_{24} + a_{25} - a_{55} - 2a_{57} + a_{59} + \\
& a_{61} - a_{62} - a_{32} - a_{33} + a_{87} - a_{91} + \\
& a_{92} - a_{93} - a_{103} + a_{104} - 2a_{105} - a_{110} + \\
& a_{111} - a_{112} - a_{113} + a_{212} - a_{215} + a_{219} - \\
& a_{220} + a_{226} + a_{230} - a_{232} - a_{239} + 2a_{240} - \\
& a_{251} - a_{253} + a_{129} + a_{131} - a_{135} - 2a_{137} + \\
& 2a_{141} + a_{143} - a_{145} - a_{468} + 2a_{471} + a_{472} - \\
& a_{486} + a_{487} + a_{497} + a_{498} + a_{501} + a_{505} + \\
& a_{507} + a_{509} + a_{255} + a_{256} - a_{257} - a_{259} + \\
& a_{262} + a_{263} + a_{265} + a_{268} - 2a_{269} - a_{270} - \\
& a_{272} + a_{273} + a_{277} - a_{279} + a_{280} + a_{282} - \\
& a_{284} + a_{290} + a_{291} + a_{293} + 3a_{294} + a_{300} + \\
& a_{301} - a_{303} - a_{315} - a_{317} + a_{318} + a_{321} + \\
& a_{324} - a_{327} - a_{329} - a_{334} - a_{337}
\end{aligned}
$$

$$
\begin{aligned}
a_{980} &= \frac{a_{468} + \sqrt{a_{468}^2 - 4x}}{2} \\
x &= a_5 + a_6 - a_{13} - a_{14} + a_7 - a_{23} + \\
& a_{24} - a_{25} + a_{26} - a_{56} - 2a_{58} + a_{60} + \\
& a_{62} - a_{31} - a_{33} - a_{34} + a_{88} - a_{92} + \\
& a_{93} - a_{94} - a_{104} + a_{105} - 2a_{106} - a_{111} + \\
& a_{112} - a_{113} - a_{114} + a_{213} - a_{216} + a_{220} - \\
& a_{221} + a_{227} + a_{231} - a_{233} - a_{240} + 2a_{241} - \\
& a_{252} - a_{254} + a_{130} + a_{132} - a_{136} - 2a_{138} + \\
& 2a_{142} + a_{144} - a_{146} - a_{469} + 2a_{472} + a_{473} - \\
& a_{487} + a_{488} + a_{498} + a_{499} + a_{502} + a_{506} + \\
& a_{508} + a_{510} + a_{256} + a_{257} - a_{258} - a_{260} + \\
& a_{263} + a_{264} + a_{266} + a_{269} - 2a_{270} - a_{271} - \\
& a_{273} + a_{274} + a_{278} - a_{280} + a_{281} + a_{283} - \\
& a_{285} + a_{291} + a_{292} + a_{294} + 3a_{295} + a_{301} + \\
& a_{302} - a_{304} - a_{316} - a_{318} + a_{319} + a_{322} + \\
& a_{325} - a_{328} - a_{330} - a_{335} - a_{338}
\end{aligned}
$$

$$
\begin{aligned}
a_{981} &= \frac{a_{469} - \sqrt{a_{469}^2 - 4x}}{2} \\
x &= a_6 + a_3 - a_{14} - a_7 + a_8 - a_{24} + \\
& a_{25} - a_{26} + a_{27} - a_{57} - 2a_{59} + a_{61} + \\
& a_{31} - a_{32} - a_{34} - a_{35} + a_{89} - a_{93} + \\
& a_{94} - a_{95} - a_{105} + a_{106} - 2a_{107} - a_{112} + \\
& a_{113} - a_{114} - a_{115} + a_{214} - a_{217} + a_{221} - \\
& a_{222} + a_{228} + a_{232} - a_{234} - a_{241} + 2a_{242} - \\
& a_{253} - a_{127} + a_{131} + a_{133} - a_{137} - 2a_{139} + \\
& 2a_{143} + a_{145} - a_{147} - a_{470} + 2a_{473} + a_{474} - \\
& a_{488} + a_{489} + a_{499} + a_{500} + a_{503} + a_{507} + \\
& a_{509} + a_{255} + a_{257} + a_{258} - a_{259} - a_{261} + \\
& a_{264} + a_{265} + a_{267} + a_{270} - 2a_{271} - a_{272} - \\
& a_{274} + a_{275} + a_{279} - a_{281} + a_{282} + a_{284} - \\
& a_{286} + a_{292} + a_{293} + a_{295} + 3a_{296} + a_{302} + \\
& a_{303} - a_{305} - a_{317} - a_{319} + a_{320} + a_{323} + \\
& a_{326} - a_{329} - a_{331} - a_{336} - a_{339}
\end{aligned}
$$

$$
\begin{aligned}
a_{982} &= \frac{a_{470} + \sqrt{a_{470}^2 - 4x}}{2} \\
x &= a_3 + a_4 - a_7 - a_8 + a_9 - a_{25} + \\
& a_{26} - a_{27} + a_{28} - a_{58} - 2a_{60} + a_{62} + \\
& a_{32} - a_{33} - a_{35} - a_{36} + a_{90} - a_{94} + \\
& a_{95} - a_{96} - a_{106} + a_{107} - 2a_{108} - a_{113} + \\
& a_{114} - a_{115} - a_{116} + a_{215} - a_{218} + a_{222} - \\
& a_{223} + a_{229} + a_{233} - a_{235} - a_{242} + 2a_{243} - \\
& a_{254} - a_{128} + a_{132} + a_{134} - a_{138} - 2a_{140} + \\
& 2a_{144} + a_{146} - a_{148} - a_{471} + 2a_{474} + a_{475} - \\
& a_{489} + a_{490} + a_{500} + a_{501} + a_{504} + a_{508} + \\
& a_{510} + a_{256} + a_{258} + a_{259} - a_{260} - a_{262} + \\
& a_{265} + a_{266} + a_{268} + a_{271} - 2a_{272} - a_{273} - \\
& a_{275} + a_{276} + a_{280} - a_{282} + a_{283} + a_{285} - \\
& a_{287} + a_{293} + a_{294} + a_{296} + 3a_{297} + a_{303} + \\
& a_{304} - a_{306} - a_{318} - a_{320} + a_{321} + a_{324} + \\
& a_{327} - a_{330} - a_{332} - a_{337} - a_{340}
\end{aligned}
$$

$$
\begin{aligned}
a_{983} &= \frac{a_{471} - \sqrt{a_{471}^2 - 4x}}{2} \\
x &= a_4 + a_5 - a_8 - a_9 + a_{10} - a_{26} + \\
& a_{27} - a_{28} + a_{29} - a_{59} - 2a_{61} + a_{31} + \\
& a_{33} - a_{34} - a_{36} - a_{37} + a_{91} - a_{95} + \\
& a_{96} - a_{97} - a_{107} + a_{108} - 2a_{109} - a_{114} + \\
& a_{115} - a_{116} - a_{117} + a_{216} - a_{219} + a_{223} - \\
& a_{224} + a_{230} + a_{234} - a_{236} - a_{243} + 2a_{244} - \\
& a_{127} - a_{129} + a_{133} + a_{135} - a_{139} - 2a_{141} + \\
& 2a_{145} + a_{147} - a_{149} - a_{472} + 2a_{475} + a_{476} - \\
& a_{490} + a_{491} + a_{501} + a_{502} + a_{505} + a_{509} + \\
& a_{255} + a_{257} + a_{259} + a_{260} - a_{261} - a_{263} + \\
& a_{266} + a_{267} + a_{269} + a_{272} - 2a_{273} - a_{274} - \\
& a_{276} + a_{277} + a_{281} - a_{283} + a_{284} + a_{286} - \\
& a_{288} + a_{294} + a_{295} + a_{297} + 3a_{298} + a_{304} +
\end{aligned}
$$

$$
\begin{aligned}
& a_{305} - a_{307} - a_{319} - a_{321} + a_{322} + a_{325} + \\
& a_{328} - a_{331} - a_{333} - a_{338} - a_{341} \\
a_{984} &= \frac{a_{472} + \sqrt{a_{472}^2 - 4x}}{2} \\
x &= a_5 + a_6 - a_9 - a_{10} + a_{11} - a_{27} + \\
& a_{28} - a_{29} + a_{30} - a_{60} - 2a_{62} + a_{32} + \\
& a_{34} - a_{35} - a_{37} - a_{38} + a_{92} - a_{96} + \\
& a_{97} - a_{98} - a_{108} + a_{109} - 2a_{110} - a_{115} + \\
& a_{116} - a_{117} - a_{118} + a_{217} - a_{220} + a_{224} - \\
& a_{225} + a_{231} + a_{235} - a_{237} - a_{244} + 2a_{245} - \\
& a_{128} - a_{130} + a_{134} + a_{136} - a_{140} - 2a_{142} + \\
& 2a_{146} + a_{148} - a_{150} - a_{473} + 2a_{476} + a_{477} - \\
& a_{491} + a_{492} + a_{502} + a_{503} + a_{506} + a_{510} + \\
& a_{256} + a_{258} + a_{260} + a_{261} - a_{262} - a_{264} + \\
& a_{267} + a_{268} + a_{270} + a_{273} - 2a_{274} - a_{275} - \\
& a_{277} + a_{278} + a_{282} - a_{284} + a_{285} + a_{287} - \\
& a_{289} + a_{295} + a_{296} + a_{298} + 3a_{299} + a_{305} + \\
& a_{306} - a_{308} - a_{320} - a_{322} + a_{323} + a_{326} + \\
& a_{329} - a_{332} - a_{334} - a_{339} - a_{342} \\
a_{985} &= \frac{a_{473} + \sqrt{a_{473}^2 - 4x}}{2} \\
x &= a_6 + a_3 - a_{10} - a_{11} + a_{12} - a_{28} + \\
& a_{29} - a_{30} + a_{15} - a_{61} - 2a_{31} + a_{33} + \\
& a_{35} - a_{36} - a_{38} - a_{39} + a_{93} - a_{97} + \\
& a_{98} - a_{99} - a_{109} + a_{110} - 2a_{111} - a_{116} + \\
& a_{117} - a_{118} - a_{119} + a_{218} - a_{221} + a_{225} - \\
& a_{226} + a_{232} + a_{236} - a_{238} - a_{245} + 2a_{246} - \\
& a_{129} - a_{131} + a_{135} + a_{137} - a_{141} - 2a_{143} + \\
& 2a_{147} + a_{149} - a_{151} - a_{474} + 2a_{477} + a_{478} - \\
& a_{492} + a_{493} + a_{503} + a_{504} + a_{507} + a_{255} + \\
& a_{257} + a_{259} + a_{261} + a_{262} - a_{263} - a_{265} + \\
& a_{268} + a_{269} + a_{271} + a_{274} - 2a_{275} - a_{276} - \\
& a_{278} + a_{279} + a_{283} - a_{285} + a_{286} + a_{288} - \\
& a_{290} + a_{296} + a_{297} + a_{299} + 3a_{300} + a_{306} + \\
& a_{307} - a_{309} - a_{321} - a_{323} + a_{324} + a_{327} + \\
& a_{330} - a_{333} - a_{335} - a_{340} - a_{343} \\
a_{986} &= \frac{a_{474} - \sqrt{a_{474}^2 - 4x}}{2} \\
x &= a_3 + a_4 - a_{11} - a_{12} + a_{13} - a_{29} + \\
& a_{30} - a_{15} + a_{16} - a_{62} - 2a_{32} + a_{34} + \\
& a_{36} - a_{37} - a_{39} - a_{40} + a_{94} - a_{98} + \\
& a_{99} - a_{100} - a_{110} + a_{111} - 2a_{112} - a_{117} + \\
& a_{118} - a_{119} - a_{120} + a_{219} - a_{222} + a_{226} - \\
& a_{227} + a_{233} + a_{237} - a_{239} - a_{246} + 2a_{247} - \\
& a_{130} - a_{132} + a_{136} + a_{138} - a_{142} - 2a_{144} + \\
& 2a_{148} + a_{150} - a_{152} - a_{475} + 2a_{478} + a_{479} - \\
& a_{493} + a_{494} + a_{504} + a_{505} + a_{508} + a_{256} + \\
& a_{258} + a_{260} + a_{262} + a_{263} - a_{264} - a_{266} + \\
& a_{269} + a_{270} + a_{272} + a_{275} - 2a_{276} - a_{277} - \\
& a_{279} + a_{280} + a_{284} - a_{286} + a_{287} + a_{289} - \\
& a_{291} + a_{297} + a_{298} + a_{300} + 3a_{301} + a_{307} + \\
& a_{308} - a_{310} - a_{322} - a_{324} + a_{325} + a_{328} + \\
& a_{331} - a_{334} - a_{336} - a_{341} - a_{344} \\
a_{987} &= \frac{a_{475} - \sqrt{a_{475}^2 - 4x}}{2} \\
x &= a_4 + a_5 - a_{12} - a_{13} + a_{14} - a_{30} + \\
& a_{15} - a_{16} + a_{17} - a_{31} - 2a_{33} + a_{35} + \\
& a_{37} - a_{38} - a_{40} - a_{41} + a_{95} - a_{99} + \\
& a_{100} - a_{101} - a_{111} + a_{112} - 2a_{113} - a_{118} + \\
& a_{119} - a_{120} - a_{121} + a_{220} - a_{223} + a_{227} - \\
& a_{228} + a_{234} + a_{238} - a_{240} - a_{247} + 2a_{248} - \\
& a_{131} - a_{133} + a_{137} + a_{139} - a_{143} - 2a_{145} + \\
& 2a_{149} + a_{151} - a_{153} - a_{476} + 2a_{479} + a_{480} - \\
& a_{494} + a_{495} + a_{505} + a_{506} + a_{509} + a_{257} + \\
& a_{259} + a_{261} + a_{263} + a_{264} - a_{265} - a_{267} + \\
& a_{270} + a_{271} + a_{273} + a_{276} - 2a_{277} - a_{278} - \\
& a_{280} + a_{281} + a_{285} - a_{287} + a_{288} + a_{290} - \\
& a_{292} + a_{298} + a_{299} + a_{301} + 3a_{302} + a_{308} + \\
& a_{309} - a_{311} - a_{323} - a_{325} + a_{326} + a_{329} + \\
& a_{332} - a_{335} - a_{337} - a_{342} - a_{345} \\
a_{988} &= \frac{a_{476} - \sqrt{a_{476}^2 - 4x}}{2} \\
x &= a_5 + a_6 - a_{13} - a_{14} + a_7 - a_{15} + \\
& a_{16} - a_{17} + a_{18} - a_{32} - 2a_{34} + a_{36} + \\
& a_{38} - a_{39} - a_{41} - a_{42} + a_{96} - a_{100} + \\
& a_{101} - a_{102} - a_{112} + a_{113} - 2a_{114} - a_{119} + \\
& a_{120} - a_{121} - a_{122} + a_{221} - a_{224} + a_{228} - \\
& a_{229} + a_{235} + a_{239} - a_{241} - a_{248} + 2a_{249} - \\
& a_{132} - a_{134} + a_{138} + a_{140} - a_{144} - 2a_{146} + \\
& 2a_{150} + a_{152} - a_{154} - a_{477} + 2a_{480} + a_{481} - \\
& a_{495} + a_{496} + a_{506} + a_{507} + a_{510} + a_{258} + \\
& a_{260} + a_{262} + a_{264} + a_{265} - a_{266} - a_{268} + \\
& a_{271} + a_{272} + a_{274} + a_{277} - 2a_{278} - a_{279} - \\
& a_{281} + a_{282} + a_{286} - a_{288} + a_{289} + a_{291} - \\
& a_{293} + a_{299} + a_{300} + a_{302} + 3a_{303} + a_{309} + \\
& a_{310} - a_{312} - a_{324} - a_{326} + a_{327} + a_{330} + \\
& a_{333} - a_{336} - a_{338} - a_{343} - a_{346} \\
a_{989} &= \frac{a_{477} - \sqrt{a_{477}^2 - 4x}}{2} \\
x &= a_6 + a_3 - a_{14} - a_7 + a_8 - a_{16} + \\
& a_{17} - a_{18} + a_{19} - a_{33} - 2a_{35} + a_{37} + \\
& a_{39} - a_{40} - a_{42} - a_{43} + a_{97} - a_{101} + \\
& a_{102} - a_{103} - a_{113} + a_{114} - 2a_{115} - a_{120} + \\
& a_{121} - a_{122} - a_{123} + a_{222} - a_{225} + a_{229} - \\
& a_{230} + a_{236} + a_{240} - a_{242} - a_{249} + 2a_{250} - \\
& a_{133} - a_{135} + a_{139} + a_{141} - a_{145} - 2a_{147} + \\
& 2a_{151} + a_{153} - a_{155} - a_{478} + 2a_{481} + a_{482} - \\
& a_{496} + a_{497} + a_{507} + a_{508} + a_{255} + a_{259} +
\end{aligned}
$$

$$
\begin{aligned}
& a_{261} + a_{263} + a_{265} + a_{266} - a_{267} - a_{269} + \\
& a_{272} + a_{273} + a_{275} + a_{278} - 2a_{279} - a_{280} - \\
& a_{282} + a_{283} + a_{287} - a_{289} + a_{290} + a_{292} - \\
& a_{294} + a_{300} + a_{301} + a_{303} + 3a_{304} + a_{310} + \\
& a_{311} - a_{313} - a_{325} - a_{327} + a_{328} + a_{331} + \\
& a_{334} - a_{337} - a_{339} - a_{344} - a_{347}
\end{aligned}
$$

$$
\begin{aligned}
a_{990} &= \frac{a_{478} + \sqrt{a_{478}^2 - 4x}}{2} \\
x &= a_3 + a_4 - a_7 - a_8 + a_9 - a_{17} + \\
& a_{18} - a_{19} + a_{20} - a_{34} - 2a_{36} + a_{38} + \\
& a_{40} - a_{41} - a_{43} - a_{44} + a_{98} - a_{102} + \\
& a_{103} - a_{104} - a_{114} + a_{115} - 2a_{116} - a_{121} + \\
& a_{122} - a_{123} - a_{124} + a_{223} - a_{226} + a_{230} - \\
& a_{231} + a_{237} + a_{241} - a_{243} - a_{250} + 2a_{251} - \\
& a_{134} - a_{136} + a_{140} + a_{142} - a_{146} - 2a_{148} + \\
& 2a_{152} + a_{154} - a_{156} - a_{479} + 2a_{482} + a_{483} - \\
& a_{497} + a_{498} + a_{508} + a_{509} + a_{256} + a_{260} + \\
& a_{262} + a_{264} + a_{266} + a_{267} - a_{268} - a_{270} + \\
& a_{273} + a_{274} + a_{276} + a_{279} - 2a_{280} - a_{281} - \\
& a_{283} + a_{284} + a_{288} - a_{290} + a_{291} + a_{293} - \\
& a_{295} + a_{301} + a_{302} + a_{304} + 3a_{305} + a_{311} + \\
& a_{312} - a_{314} - a_{326} - a_{328} + a_{329} + a_{332} + \\
& a_{335} - a_{338} - a_{340} - a_{345} - a_{348} \\
a_{991} &= \frac{a_{479} - \sqrt{a_{479}^2 - 4x}}{2} \\
x &= a_4 + a_5 - a_8 - a_9 + a_{10} - a_{18} + \\
& a_{19} - a_{20} + a_{21} - a_{35} - 2a_{37} + a_{39} + \\
& a_{41} - a_{42} - a_{44} - a_{45} + a_{99} - a_{103} + \\
& a_{104} - a_{105} - a_{115} + a_{116} - 2a_{117} - a_{122} + \\
& a_{123} - a_{124} - a_{125} + a_{224} - a_{227} + a_{231} - \\
& a_{232} + a_{238} + a_{242} - a_{244} - a_{251} + 2a_{252} - \\
& a_{135} - a_{137} + a_{141} + a_{143} - a_{147} - 2a_{149} + \\
& 2a_{153} + a_{155} - a_{157} - a_{480} + 2a_{483} + a_{484} - \\
& a_{498} + a_{499} + a_{509} + a_{510} + a_{257} + a_{261} + \\
& a_{263} + a_{265} + a_{267} + a_{268} - a_{269} - a_{271} + \\
& a_{274} + a_{275} + a_{277} + a_{280} - 2a_{281} - a_{282} - \\
& a_{284} + a_{285} + a_{289} - a_{291} + a_{292} + a_{294} - \\
& a_{296} + a_{302} + a_{303} + a_{305} + 3a_{306} + a_{312} + \\
& a_{313} - a_{315} - a_{327} - a_{329} + a_{330} + a_{333} + \\
& a_{336} - a_{339} - a_{341} - a_{346} - a_{349} \\
a_{992} &= \frac{a_{480} + \sqrt{a_{480}^2 - 4x}}{2} \\
x &= a_5 + a_6 - a_9 - a_{10} + a_{11} - a_{19} + \\
& a_{20} - a_{21} + a_{22} - a_{36} - 2a_{38} + a_{40} + \\
& a_{42} - a_{43} - a_{45} - a_{46} + a_{100} - a_{104} + \\
& a_{105} - a_{106} - a_{116} + a_{117} - 2a_{118} - a_{123} + \\
& a_{124} - a_{125} - a_{126} + a_{225} - a_{228} + a_{232} - \\
& a_{233} + a_{239} + a_{243} - a_{245} - a_{252} + 2a_{253} - \\
& a_{136} - a_{138} + a_{142} + a_{144} - a_{148} - 2a_{150} + \\
& 2a_{154} + a_{156} - a_{158} - a_{481} + 2a_{484} + a_{485} - \\
& a_{499} + a_{500} + a_{510} + a_{255} + a_{258} + a_{262} + \\
& a_{264} + a_{266} + a_{268} + a_{269} - a_{270} - a_{272} + \\
& a_{275} + a_{276} + a_{278} + a_{281} - 2a_{282} - a_{283} - \\
& a_{285} + a_{286} + a_{290} - a_{292} + a_{293} + a_{295} - \\
& a_{297} + a_{303} + a_{304} + a_{306} + 3a_{307} + a_{313} + \\
& a_{314} - a_{316} - a_{328} - a_{330} + a_{331} + a_{334} + \\
& a_{337} - a_{340} - a_{342} - a_{347} - a_{350} \\
a_{993} &= \frac{a_{481} + \sqrt{a_{481}^2 - 4x}}{2} \\
x &= a_6 + a_3 - a_{10} - a_{11} + a_{12} - a_{20} + \\
& a_{21} - a_{22} + a_{23} - a_{37} - 2a_{39} + a_{41} + \\
& a_{43} - a_{44} - a_{46} - a_{47} + a_{101} - a_{105} + \\
& a_{106} - a_{107} - a_{117} + a_{118} - 2a_{119} - a_{124} + \\
& a_{125} - a_{126} - a_{63} + a_{226} - a_{229} + a_{233} - \\
& a_{234} + a_{240} + a_{244} - a_{246} - a_{253} + 2a_{254} - \\
& a_{137} - a_{139} + a_{143} + a_{145} - a_{149} - 2a_{151} + \\
& 2a_{155} + a_{157} - a_{159} - a_{482} + 2a_{485} + a_{486} - \\
& a_{500} + a_{501} + a_{255} + a_{256} + a_{259} + a_{263} + \\
& a_{265} + a_{267} + a_{269} + a_{270} - a_{271} - a_{273} + \\
& a_{276} + a_{277} + a_{279} + a_{282} - 2a_{283} - a_{284} - \\
& a_{286} + a_{287} + a_{291} - a_{293} + a_{294} + a_{296} - \\
& a_{298} + a_{304} + a_{305} + a_{307} + 3a_{308} + a_{314} + \\
& a_{315} - a_{317} - a_{329} - a_{331} + a_{332} + a_{335} + \\
& a_{338} - a_{341} - a_{343} - a_{348} - a_{351} \\
a_{994} &= \frac{a_{482} + \sqrt{a_{482}^2 - 4x}}{2} \\
x &= a_3 + a_4 - a_{11} - a_{12} + a_{13} - a_{21} + \\
& a_{22} - a_{23} + a_{24} - a_{38} - 2a_{40} + a_{42} + \\
& a_{44} - a_{45} - a_{47} - a_{48} + a_{102} - a_{106} + \\
& a_{107} - a_{108} - a_{118} + a_{119} - 2a_{120} - a_{125} + \\
& a_{126} - a_{63} - a_{64} + a_{227} - a_{230} + a_{234} - \\
& a_{235} + a_{241} + a_{245} - a_{247} - a_{254} + 2a_{127} - \\
& a_{138} - a_{140} + a_{144} + a_{146} - a_{150} - 2a_{152} + \\
& 2a_{156} + a_{158} - a_{160} - a_{483} + 2a_{486} + a_{487} - \\
& a_{501} + a_{502} + a_{256} + a_{257} + a_{260} + a_{264} + \\
& a_{266} + a_{268} + a_{270} + a_{271} - a_{272} - a_{274} + \\
& a_{277} + a_{278} + a_{280} + a_{283} - 2a_{284} - a_{285} - \\
& a_{287} + a_{288} + a_{292} - a_{294} + a_{295} + a_{297} - \\
& a_{299} + a_{305} + a_{306} + a_{308} + 3a_{309} + a_{315} + \\
& a_{316} - a_{318} - a_{330} - a_{332} + a_{333} + a_{336} + \\
& a_{339} - a_{342} - a_{344} - a_{349} - a_{352} \\
a_{995} &= \frac{a_{483} + \sqrt{a_{483}^2 - 4x}}{2} \\
x &= a_4 + a_5 - a_{12} - a_{13} + a_{14} - a_{22} + \\
& a_{23} - a_{24} + a_{25} - a_{39} - 2a_{41} + a_{43} + \\
& a_{45} - a_{46} - a_{48} - a_{49} + a_{103} - a_{107} + \\
& a_{108} - a_{109} - a_{119} + a_{120} - 2a_{121} - a_{126} +
\end{aligned}
$$

$$
\begin{aligned}
& a_{63} - a_{64} - a_{65} + a_{228} - a_{231} + a_{235} - \\
& a_{236} + a_{242} + a_{246} - a_{248} - a_{127} + 2a_{128} - \\
& a_{139} - a_{141} + a_{145} + a_{147} - a_{151} - 2a_{153} + \\
& 2a_{157} + a_{159} - a_{161} - a_{484} + 2a_{487} + a_{488} - \\
& a_{502} + a_{503} + a_{257} + a_{258} + a_{261} + a_{265} + \\
& a_{267} + a_{269} + a_{271} + a_{272} - a_{273} - a_{275} + \\
& a_{278} + a_{279} + a_{281} + a_{284} - 2a_{285} - a_{286} - \\
& a_{288} + a_{289} + a_{293} - a_{295} + a_{296} + a_{298} - \\
& a_{300} + a_{306} + a_{307} + a_{309} + 3a_{310} + a_{316} + \\
& a_{317} - a_{319} - a_{331} - a_{333} + a_{334} + a_{337} + \\
& a_{340} - a_{343} - a_{345} - a_{350} - a_{353}
\end{aligned}
$$

$$
a_{996} = \frac{a_{484} - \sqrt{a_{484}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_5 + a_6 - a_{13} - a_{14} + a_7 - a_{23} + \\
& a_{24} - a_{25} + a_{26} - a_{40} - 2a_{42} + a_{44} + \\
& a_{46} - a_{47} - a_{49} - a_{50} + a_{104} - a_{108} + \\
& a_{109} - a_{110} - a_{120} + a_{121} - 2a_{122} - a_{63} + \\
& a_{64} - a_{65} - a_{66} + a_{229} - a_{232} + a_{236} - \\
& a_{237} + a_{243} + a_{247} - a_{249} - a_{128} + 2a_{129} - \\
& a_{140} - a_{142} + a_{146} + a_{148} - a_{152} - 2a_{154} + \\
& 2a_{158} + a_{160} - a_{162} - a_{485} + 2a_{488} + a_{489} - \\
& a_{503} + a_{504} + a_{258} + a_{259} + a_{262} + a_{266} + \\
& a_{268} + a_{270} + a_{272} + a_{273} - a_{274} - a_{276} + \\
& a_{279} + a_{280} + a_{282} + a_{285} - 2a_{286} - a_{287} - \\
& a_{289} + a_{290} + a_{294} - a_{296} + a_{297} + a_{299} - \\
& a_{301} + a_{307} + a_{308} + a_{310} + 3a_{311} + a_{317} + \\
& a_{318} - a_{320} - a_{332} - a_{334} + a_{335} + a_{338} + \\
& a_{341} - a_{344} - a_{346} - a_{351} - a_{354}
\end{aligned}
$$

$$
a_{997} = \frac{a_{485} + \sqrt{a_{485}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_6 + a_3 - a_{14} - a_7 + a_8 - a_{24} + \\
& a_{25} - a_{26} + a_{27} - a_{41} - 2a_{43} + a_{45} + \\
& a_{47} - a_{48} - a_{50} - a_{51} + a_{105} - a_{109} + \\
& a_{110} - a_{111} - a_{121} + a_{122} - 2a_{123} - a_{64} + \\
& a_{65} - a_{66} - a_{67} + a_{230} - a_{233} + a_{237} - \\
& a_{238} + a_{244} + a_{248} - a_{250} - a_{129} + 2a_{130} - \\
& a_{141} - a_{143} + a_{147} + a_{149} - a_{153} - 2a_{155} + \\
& 2a_{159} + a_{161} - a_{163} - a_{486} + 2a_{489} + a_{490} - \\
& a_{504} + a_{505} + a_{259} + a_{260} + a_{263} + a_{267} + \\
& a_{269} + a_{271} + a_{273} + a_{274} - a_{275} - a_{277} + \\
& a_{280} + a_{281} + a_{283} + a_{286} - 2a_{287} - a_{288} - \\
& a_{290} + a_{291} + a_{295} - a_{297} + a_{298} + a_{300} - \\
& a_{302} + a_{308} + a_{309} + a_{311} + 3a_{312} + a_{318} + \\
& a_{319} - a_{321} - a_{333} - a_{335} + a_{336} + a_{339} + \\
& a_{342} - a_{345} - a_{347} - a_{352} - a_{355}
\end{aligned}
$$

$$
a_{998} = \frac{a_{486} - \sqrt{a_{486}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_3 + a_4 - a_7 - a_8 + a_9 - a_{25} + \\
& a_{26} - a_{27} + a_{28} - a_{42} - 2a_{44} + a_{46} + \\
& a_{48} - a_{49} - a_{51} - a_{52} + a_{106} - a_{110} + \\
& a_{111} - a_{112} - a_{122} + a_{123} - 2a_{124} - a_{65} + \\
& a_{66} - a_{67} - a_{68} + a_{231} - a_{234} + a_{238} - \\
& a_{239} + a_{245} + a_{249} - a_{251} - a_{130} + 2a_{131} - \\
& a_{142} - a_{144} + a_{148} + a_{150} - a_{154} - 2a_{156} + \\
& 2a_{160} + a_{162} - a_{164} - a_{487} + 2a_{490} + a_{491} - \\
& a_{505} + a_{506} + a_{260} + a_{261} + a_{264} + a_{268} + \\
& a_{270} + a_{272} + a_{274} + a_{275} - a_{276} - a_{278} + \\
& a_{281} + a_{282} + a_{284} + a_{287} - 2a_{288} - a_{289} - \\
& a_{291} + a_{292} + a_{296} - a_{298} + a_{299} + a_{301} - \\
& a_{303} + a_{309} + a_{310} + a_{312} + 3a_{313} + a_{319} + \\
& a_{320} - a_{322} - a_{334} - a_{336} + a_{337} + a_{340} + \\
& a_{343} - a_{346} - a_{348} - a_{353} - a_{356}
\end{aligned}
$$

$$
a_{999} = \frac{a_{487} + \sqrt{a_{487}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_4 + a_5 - a_8 - a_9 + a_{10} - a_{26} + \\
& a_{27} - a_{28} + a_{29} - a_{43} - 2a_{45} + a_{47} + \\
& a_{49} - a_{50} - a_{52} - a_{53} + a_{107} - a_{111} + \\
& a_{112} - a_{113} - a_{123} + a_{124} - 2a_{125} - a_{66} + \\
& a_{67} - a_{68} - a_{69} + a_{232} - a_{235} + a_{239} - \\
& a_{240} + a_{246} + a_{250} - a_{252} - a_{131} + 2a_{132} - \\
& a_{143} - a_{145} + a_{149} + a_{151} - a_{155} - 2a_{157} + \\
& 2a_{161} + a_{163} - a_{165} - a_{488} + 2a_{491} + a_{492} - \\
& a_{506} + a_{507} + a_{261} + a_{262} + a_{265} + a_{269} + \\
& a_{271} + a_{273} + a_{275} + a_{276} - a_{277} - a_{279} + \\
& a_{282} + a_{283} + a_{285} + a_{288} - 2a_{289} - a_{290} - \\
& a_{292} + a_{293} + a_{297} - a_{299} + a_{300} + a_{302} - \\
& a_{304} + a_{310} + a_{311} + a_{313} + 3a_{314} + a_{320} + \\
& a_{321} - a_{323} - a_{335} - a_{337} + a_{338} + a_{341} + \\
& a_{344} - a_{347} - a_{349} - a_{354} - a_{357}
\end{aligned}
$$

$$
a_{1000} = \frac{a_{488} - \sqrt{a_{488}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_5 + a_6 - a_9 - a_{10} + a_{11} - a_{27} + \\
& a_{28} - a_{29} + a_{30} - a_{44} - 2a_{46} + a_{48} + \\
& a_{50} - a_{51} - a_{53} - a_{54} + a_{108} - a_{112} + \\
& a_{113} - a_{114} - a_{124} + a_{125} - 2a_{126} - a_{67} + \\
& a_{68} - a_{69} - a_{70} + a_{233} - a_{236} + a_{240} - \\
& a_{241} + a_{247} + a_{251} - a_{253} - a_{132} + 2a_{133} - \\
& a_{144} - a_{146} + a_{150} + a_{152} - a_{156} - 2a_{158} + \\
& 2a_{162} + a_{164} - a_{166} - a_{489} + 2a_{492} + a_{493} - \\
& a_{507} + a_{508} + a_{262} + a_{263} + a_{266} + a_{270} + \\
& a_{272} + a_{274} + a_{276} + a_{277} - a_{278} - a_{280} + \\
& a_{283} + a_{284} + a_{286} + a_{289} - 2a_{290} - a_{291} - \\
& a_{293} + a_{294} + a_{298} - a_{300} + a_{301} + a_{303} - \\
& a_{305} + a_{311} + a_{312} + a_{314} + 3a_{315} + a_{321} + \\
& a_{322} - a_{324} - a_{336} - a_{338} + a_{339} + a_{342} + \\
& a_{345} - a_{348} - a_{350} - a_{355} - a_{358}
\end{aligned}
$$

$$
\begin{aligned}
a_{1001} &= \frac{a_{489}-\sqrt{a_{489}^2-4x}}{2}\\
x &= a_6+a_3-a_{10}-a_{11}+a_{12}-a_{28}+\\
&\quad a_{29}-a_{30}+a_{15}-a_{45}-2a_{47}+a_{49}+\\
&\quad a_{51}-a_{52}-a_{54}-a_{55}+a_{109}-a_{113}+\\
&\quad a_{114}-a_{115}-a_{125}+a_{126}-2a_{63}-a_{68}+\\
&\quad a_{69}-a_{70}-a_{71}+a_{234}-a_{237}+a_{241}-\\
&\quad a_{242}+a_{248}+a_{252}-a_{254}-a_{133}+2a_{134}-\\
&\quad a_{145}-a_{147}+a_{151}+a_{153}-a_{157}-2a_{159}+\\
&\quad 2a_{163}+a_{165}-a_{167}-a_{490}+2a_{493}+a_{494}-\\
&\quad a_{508}+a_{509}+a_{263}+a_{264}+a_{267}+a_{271}+\\
&\quad a_{273}+a_{275}+a_{277}+a_{278}-a_{279}-a_{281}+\\
&\quad a_{284}+a_{285}+a_{287}+a_{290}-2a_{291}-a_{292}-\\
&\quad a_{294}+a_{295}+a_{299}-a_{301}+a_{302}+a_{304}-\\
&\quad a_{306}+a_{312}+a_{313}+a_{315}+3a_{316}+a_{322}+\\
&\quad a_{323}-a_{325}-a_{337}-a_{339}+a_{340}+a_{343}+\\
&\quad a_{346}-a_{349}-a_{351}-a_{356}-a_{359}\\
a_{1002} &= \frac{a_{490}-\sqrt{a_{490}^2-4x}}{2}\\
x &= a_3+a_4-a_{11}-a_{12}+a_{13}-a_{29}+\\
&\quad a_{30}-a_{15}+a_{16}-a_{46}-2a_{48}+a_{50}+\\
&\quad a_{52}-a_{53}-a_{55}-a_{56}+a_{110}-a_{114}+\\
&\quad a_{115}-a_{116}-a_{126}+a_{63}-2a_{64}-a_{69}+\\
&\quad a_{70}-a_{71}-a_{72}+a_{235}-a_{238}+a_{242}-\\
&\quad a_{243}+a_{249}+a_{253}-a_{127}-a_{134}+2a_{135}-\\
&\quad a_{146}-a_{148}+a_{152}+a_{154}-a_{158}-2a_{160}+\\
&\quad 2a_{164}+a_{166}-a_{168}-a_{491}+2a_{494}+a_{495}-\\
&\quad a_{509}+a_{510}+a_{264}+a_{265}+a_{268}+a_{272}+\\
&\quad a_{274}+a_{276}+a_{278}+a_{279}-a_{280}-a_{282}+\\
&\quad a_{285}+a_{286}+a_{288}+a_{291}-2a_{292}-a_{293}-\\
&\quad a_{295}+a_{296}+a_{300}-a_{302}+a_{303}+a_{305}-\\
&\quad a_{307}+a_{313}+a_{314}+a_{316}+3a_{317}+a_{323}+\\
&\quad a_{324}-a_{326}-a_{338}-a_{340}+a_{341}+a_{344}+\\
&\quad a_{347}-a_{350}-a_{352}-a_{357}-a_{360}\\
a_{1003} &= \frac{a_{491}-\sqrt{a_{491}^2-4x}}{2}\\
x &= a_4+a_5-a_{12}-a_{13}+a_{14}-a_{30}+\\
&\quad a_{15}-a_{16}+a_{17}-a_{47}-2a_{49}+a_{51}+\\
&\quad a_{53}-a_{54}-a_{56}-a_{57}+a_{111}-a_{115}+\\
&\quad a_{116}-a_{117}-a_{63}+a_{64}-2a_{65}-a_{70}+\\
&\quad a_{71}-a_{72}-a_{73}+a_{236}-a_{239}+a_{243}-\\
&\quad a_{244}+a_{250}+a_{254}-a_{128}-a_{135}+2a_{136}-\\
&\quad a_{147}-a_{149}+a_{153}+a_{155}-a_{159}-2a_{161}+\\
&\quad 2a_{165}+a_{167}-a_{169}-a_{492}+2a_{495}+a_{496}-\\
&\quad a_{510}+a_{255}+a_{265}+a_{266}+a_{269}+a_{273}+\\
&\quad a_{275}+a_{277}+a_{279}+a_{280}-a_{281}-a_{283}+\\
&\quad a_{286}+a_{287}+a_{289}+a_{292}-2a_{293}-a_{294}-\\
&\quad a_{296}+a_{297}+a_{301}-a_{303}+a_{304}+a_{306}-\\
&\quad a_{308}+a_{314}+a_{315}+a_{317}+3a_{318}+a_{324}+\\
&\quad a_{325}-a_{327}-a_{339}-a_{341}+a_{342}+a_{345}+\\
&\quad a_{348}-a_{351}-a_{353}-a_{358}-a_{361}\\
a_{1004} &= \frac{a_{492}-\sqrt{a_{492}^2-4x}}{2}\\
x &= a_5+a_6-a_{13}-a_{14}+a_7-a_{15}+\\
&\quad a_{16}-a_{17}+a_{18}-a_{48}-2a_{50}+a_{52}+\\
&\quad a_{54}-a_{55}-a_{57}-a_{58}+a_{112}-a_{116}+\\
&\quad a_{117}-a_{118}-a_{64}+a_{65}-2a_{66}-a_{71}+\\
&\quad a_{72}-a_{73}-a_{74}+a_{237}-a_{240}+a_{244}-\\
&\quad a_{245}+a_{251}+a_{127}-a_{129}-a_{136}+2a_{137}-\\
&\quad a_{148}-a_{150}+a_{154}+a_{156}-a_{160}-2a_{162}+\\
&\quad 2a_{166}+a_{168}-a_{170}-a_{493}+2a_{496}+a_{497}-\\
&\quad a_{255}+a_{256}+a_{266}+a_{267}+a_{270}+a_{274}+\\
&\quad a_{276}+a_{278}+a_{280}+a_{281}-a_{282}-a_{284}+\\
&\quad a_{287}+a_{288}+a_{290}+a_{293}-2a_{294}-a_{295}-\\
&\quad a_{297}+a_{298}+a_{302}-a_{304}+a_{305}+a_{307}-\\
&\quad a_{309}+a_{315}+a_{316}+a_{318}+3a_{319}+a_{325}+\\
&\quad a_{326}-a_{328}-a_{340}-a_{342}+a_{343}+a_{346}+\\
&\quad a_{349}-a_{352}-a_{354}-a_{359}-a_{362}\\
a_{1005} &= \frac{a_{493}+\sqrt{a_{493}^2-4x}}{2}\\
x &= a_6+a_3-a_{14}-a_7+a_8-a_{16}+\\
&\quad a_{17}-a_{18}+a_{19}-a_{49}-2a_{51}+a_{53}+\\
&\quad a_{55}-a_{56}-a_{58}-a_{59}+a_{113}-a_{117}+\\
&\quad a_{118}-a_{119}-a_{65}+a_{66}-2a_{67}-a_{72}+\\
&\quad a_{73}-a_{74}-a_{75}+a_{238}-a_{241}+a_{245}-\\
&\quad a_{246}+a_{252}+a_{128}-a_{130}-a_{137}+2a_{138}-\\
&\quad a_{149}-a_{151}+a_{155}+a_{157}-a_{161}-2a_{163}+\\
&\quad 2a_{167}+a_{169}-a_{171}-a_{494}+2a_{497}+a_{498}-\\
&\quad a_{256}+a_{257}+a_{267}+a_{268}+a_{271}+a_{275}+\\
&\quad a_{277}+a_{279}+a_{281}+a_{282}-a_{283}-a_{285}+\\
&\quad a_{288}+a_{289}+a_{291}+a_{294}-2a_{295}-a_{296}-\\
&\quad a_{298}+a_{299}+a_{303}-a_{305}+a_{306}+a_{308}-\\
&\quad a_{310}+a_{316}+a_{317}+a_{319}+3a_{320}+a_{326}+\\
&\quad a_{327}-a_{329}-a_{341}-a_{343}+a_{344}+a_{347}+\\
&\quad a_{350}-a_{353}-a_{355}-a_{360}-a_{363}\\
a_{1006} &= \frac{a_{494}-\sqrt{a_{494}^2-4x}}{2}\\
x &= a_3+a_4-a_7-a_8+a_9-a_{17}+\\
&\quad a_{18}-a_{19}+a_{20}-a_{50}-2a_{52}+a_{54}+\\
&\quad a_{56}-a_{57}-a_{59}-a_{60}+a_{114}-a_{118}+\\
&\quad a_{119}-a_{120}-a_{66}+a_{67}-2a_{68}-a_{73}+\\
&\quad a_{74}-a_{75}-a_{76}+a_{239}-a_{242}+a_{246}-\\
&\quad a_{247}+a_{253}+a_{129}-a_{131}-a_{138}+2a_{139}-\\
&\quad a_{150}-a_{152}+a_{156}+a_{158}-a_{162}-2a_{164}+\\
&\quad 2a_{168}+a_{170}-a_{172}-a_{495}+2a_{498}+a_{499}-\\
&\quad a_{257}+a_{258}+a_{268}+a_{269}+a_{272}+a_{276}+\\
&\quad a_{278}+a_{280}+a_{282}+a_{283}-a_{284}-a_{286}+\\
&\quad a_{289}+a_{290}+a_{292}+a_{295}-2a_{296}-a_{297}-
\end{aligned}
$$

$$
\begin{aligned}
& a_{299} + a_{300} + a_{304} - a_{306} + a_{307} + a_{309} - \\
& a_{311} + a_{317} + a_{318} + a_{320} + 3a_{321} + a_{327} + \\
& a_{328} - a_{330} - a_{342} - a_{344} + a_{345} + a_{348} + \\
& a_{351} - a_{354} - a_{356} - a_{361} - a_{364}
\end{aligned}
$$

$$
a_{1007} = \frac{a_{495} - \sqrt{a_{495}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_4 + a_5 - a_8 - a_9 + a_{10} - a_{18} + \\
& a_{19} - a_{20} + a_{21} - a_{51} - 2a_{53} + a_{55} + \\
& a_{57} - a_{58} - a_{60} - a_{61} + a_{115} - a_{119} + \\
& a_{120} - a_{121} - a_{67} + a_{68} - 2a_{69} - a_{74} + \\
& a_{75} - a_{76} - a_{77} + a_{240} - a_{243} + a_{247} - \\
& a_{248} + a_{254} + a_{130} - a_{132} - a_{139} + 2a_{140} - \\
& a_{151} - a_{153} + a_{157} + a_{159} - a_{163} - 2a_{165} + \\
& 2a_{169} + a_{171} - a_{173} - a_{496} + 2a_{499} + a_{500} - \\
& a_{258} + a_{259} + a_{269} + a_{270} + a_{273} + a_{277} + \\
& a_{279} + a_{281} + a_{283} + a_{284} - a_{285} - a_{287} + \\
& a_{290} + a_{291} + a_{293} + a_{296} - 2a_{297} - a_{298} - \\
& a_{300} + a_{301} + a_{305} - a_{307} + a_{308} + a_{310} - \\
& a_{312} + a_{318} + a_{319} + a_{321} + 3a_{322} + a_{328} + \\
& a_{329} - a_{331} - a_{343} - a_{345} + a_{346} + a_{349} + \\
& a_{352} - a_{355} - a_{357} - a_{362} - a_{365}
\end{aligned}
$$

$$
a_{1008} = \frac{a_{496} - \sqrt{a_{496}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_5 + a_6 - a_9 - a_{10} + a_{11} - a_{19} + \\
& a_{20} - a_{21} + a_{22} - a_{52} - 2a_{54} + a_{56} + \\
& a_{58} - a_{59} - a_{61} - a_{62} + a_{116} - a_{120} + \\
& a_{121} - a_{122} - a_{68} + a_{69} - 2a_{70} - a_{75} + \\
& a_{76} - a_{77} - a_{78} + a_{241} - a_{244} + a_{248} - \\
& a_{249} + a_{127} + a_{131} - a_{133} - a_{140} + 2a_{141} - \\
& a_{152} - a_{154} + a_{158} + a_{160} - a_{164} - 2a_{166} + \\
& 2a_{170} + a_{172} - a_{174} - a_{497} + 2a_{500} + a_{501} - \\
& a_{259} + a_{260} + a_{270} + a_{271} + a_{274} + a_{278} + \\
& a_{280} + a_{282} + a_{284} + a_{285} - a_{286} - a_{288} + \\
& a_{291} + a_{292} + a_{294} + a_{297} - 2a_{298} - a_{299} - \\
& a_{301} + a_{302} + a_{306} - a_{308} + a_{309} + a_{311} - \\
& a_{313} + a_{319} + a_{320} + a_{322} + 3a_{323} + a_{329} + \\
& a_{330} - a_{332} - a_{344} - a_{346} + a_{347} + a_{350} + \\
& a_{353} - a_{356} - a_{358} - a_{363} - a_{366}
\end{aligned}
$$

$$
a_{1009} = \frac{a_{497} + \sqrt{a_{497}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_6 + a_3 - a_{10} - a_{11} + a_{12} - a_{20} + \\
& a_{21} - a_{22} + a_{23} - a_{53} - 2a_{55} + a_{57} + \\
& a_{59} - a_{60} - a_{62} - a_{31} + a_{117} - a_{121} + \\
& a_{122} - a_{123} - a_{69} + a_{70} - 2a_{71} - a_{76} + \\
& a_{77} - a_{78} - a_{79} + a_{242} - a_{245} + a_{249} - \\
& a_{250} + a_{128} + a_{132} - a_{134} - a_{141} + 2a_{142} - \\
& a_{153} - a_{155} + a_{159} + a_{161} - a_{165} - 2a_{167} + \\
& 2a_{171} + a_{173} - a_{175} - a_{498} + 2a_{501} + a_{502} - \\
& a_{260} + a_{261} + a_{271} + a_{272} + a_{275} + a_{279} + \\
& a_{281} + a_{283} + a_{285} + a_{286} - a_{287} - a_{289} + \\
& a_{292} + a_{293} + a_{295} + a_{298} - 2a_{299} - a_{300} - \\
& a_{302} + a_{303} + a_{307} - a_{309} + a_{310} + a_{312} - \\
& a_{314} + a_{320} + a_{321} + a_{323} + 3a_{324} + a_{330} + \\
& a_{331} - a_{333} - a_{345} - a_{347} + a_{348} + a_{351} + \\
& a_{354} - a_{357} - a_{359} - a_{364} - a_{367}
\end{aligned}
$$

$$
a_{1010} = \frac{a_{498} - \sqrt{a_{498}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_3 + a_4 - a_{11} - a_{12} + a_{13} - a_{21} + \\
& a_{22} - a_{23} + a_{24} - a_{54} - 2a_{56} + a_{58} + \\
& a_{60} - a_{61} - a_{31} - a_{32} + a_{118} - a_{122} + \\
& a_{123} - a_{124} - a_{70} + a_{71} - 2a_{72} - a_{77} + \\
& a_{78} - a_{79} - a_{80} + a_{243} - a_{246} + a_{250} - \\
& a_{251} + a_{129} + a_{133} - a_{135} - a_{142} + 2a_{143} - \\
& a_{154} - a_{156} + a_{160} + a_{162} - a_{166} - 2a_{168} + \\
& 2a_{172} + a_{174} - a_{176} - a_{499} + 2a_{502} + a_{503} - \\
& a_{261} + a_{262} + a_{272} + a_{273} + a_{276} + a_{280} + \\
& a_{282} + a_{284} + a_{286} + a_{287} - a_{288} - a_{290} + \\
& a_{293} + a_{294} + a_{296} + a_{299} - 2a_{300} - a_{301} - \\
& a_{303} + a_{304} + a_{308} - a_{310} + a_{311} + a_{313} - \\
& a_{315} + a_{321} + a_{322} + a_{324} + 3a_{325} + a_{331} + \\
& a_{332} - a_{334} - a_{346} - a_{348} + a_{349} + a_{352} + \\
& a_{355} - a_{358} - a_{360} - a_{365} - a_{368}
\end{aligned}
$$

$$
a_{1011} = \frac{a_{499} - \sqrt{a_{499}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_4 + a_5 - a_{12} - a_{13} + a_{14} - a_{22} + \\
& a_{23} - a_{24} + a_{25} - a_{55} - 2a_{57} + a_{59} + \\
& a_{61} - a_{62} - a_{32} - a_{33} + a_{119} - a_{123} + \\
& a_{124} - a_{125} - a_{71} + a_{72} - 2a_{73} - a_{78} + \\
& a_{79} - a_{80} - a_{81} + a_{244} - a_{247} + a_{251} - \\
& a_{252} + a_{130} + a_{134} - a_{136} - a_{143} + 2a_{144} - \\
& a_{155} - a_{157} + a_{161} + a_{163} - a_{167} - 2a_{169} + \\
& 2a_{173} + a_{175} - a_{177} - a_{500} + 2a_{503} + a_{504} - \\
& a_{262} + a_{263} + a_{273} + a_{274} + a_{277} + a_{281} + \\
& a_{283} + a_{285} + a_{287} + a_{288} - a_{289} - a_{291} + \\
& a_{294} + a_{295} + a_{297} + a_{300} - 2a_{301} - a_{302} - \\
& a_{304} + a_{305} + a_{309} - a_{311} + a_{312} + a_{314} - \\
& a_{316} + a_{322} + a_{323} + a_{325} + 3a_{326} + a_{332} + \\
& a_{333} - a_{335} - a_{347} - a_{349} + a_{350} + a_{353} + \\
& a_{356} - a_{359} - a_{361} - a_{366} - a_{369}
\end{aligned}
$$

$$
a_{1012} = \frac{a_{500} + \sqrt{a_{500}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_5 + a_6 - a_{13} - a_{14} + a_7 - a_{23} + \\
& a_{24} - a_{25} + a_{26} - a_{56} - 2a_{58} + a_{60} + \\
& a_{62} - a_{31} - a_{33} - a_{34} + a_{120} - a_{124} + \\
& a_{125} - a_{126} - a_{72} + a_{73} - 2a_{74} - a_{79} + \\
& a_{80} - a_{81} - a_{82} + a_{245} - a_{248} + a_{252} - \\
& a_{253} + a_{131} + a_{135} - a_{137} - a_{144} + 2a_{145} -
\end{aligned}
$$

$$
\begin{aligned}
& a_{156} - a_{158} + a_{162} + a_{164} - a_{168} - 2a_{170} + \\
& 2a_{174} + a_{176} - a_{178} - a_{501} + 2a_{504} + a_{505} - \\
& a_{263} + a_{264} + a_{274} + a_{275} + a_{278} + a_{282} + \\
& a_{284} + a_{286} + a_{288} + a_{289} - a_{290} - a_{292} + \\
& a_{295} + a_{296} + a_{298} + a_{301} - 2a_{302} - a_{303} - \\
& a_{305} + a_{306} + a_{310} - a_{312} + a_{313} + a_{315} - \\
& a_{317} + a_{323} + a_{324} + a_{326} + 3a_{327} + a_{333} + \\
& a_{334} - a_{336} - a_{348} - a_{350} + a_{351} + a_{354} + \\
& a_{357} - a_{360} - a_{362} - a_{367} - a_{370}
\end{aligned}
$$

$$
a_{1013} = \frac{a_{501} + \sqrt{a_{501}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_6 + a_3 - a_{14} - a_7 + a_8 - a_{24} + \\
& a_{25} - a_{26} + a_{27} - a_{57} - 2a_{59} + a_{61} + \\
& a_{31} - a_{32} - a_{34} - a_{35} + a_{121} - a_{125} + \\
& a_{126} - a_{63} - a_{73} + a_{74} - 2a_{75} - a_{80} + \\
& a_{81} - a_{82} - a_{83} + a_{246} - a_{249} + a_{253} - \\
& a_{254} + a_{132} + a_{136} - a_{138} - a_{145} + 2a_{146} - \\
& a_{157} - a_{159} + a_{163} + a_{165} - a_{169} - 2a_{171} + \\
& 2a_{175} + a_{177} - a_{179} - a_{502} + 2a_{505} + a_{506} - \\
& a_{264} + a_{265} + a_{275} + a_{276} + a_{279} + a_{283} + \\
& a_{285} + a_{287} + a_{289} + a_{290} - a_{291} - a_{293} + \\
& a_{296} + a_{297} + a_{299} + a_{302} - 2a_{303} - a_{304} - \\
& a_{306} + a_{307} + a_{311} - a_{313} + a_{314} + a_{316} - \\
& a_{318} + a_{324} + a_{325} + a_{327} + 3a_{328} + a_{334} + \\
& a_{335} - a_{337} - a_{349} - a_{351} + a_{352} + a_{355} + \\
& a_{358} - a_{361} - a_{363} - a_{368} - a_{371}
\end{aligned}
$$

$$
a_{1014} = \frac{a_{502} + \sqrt{a_{502}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_3 + a_4 - a_7 - a_8 + a_9 - a_{25} + \\
& a_{26} - a_{27} + a_{28} - a_{58} - 2a_{60} + a_{62} + \\
& a_{32} - a_{33} - a_{35} - a_{36} + a_{122} - a_{126} + \\
& a_{63} - a_{64} - a_{74} + a_{75} - 2a_{76} - a_{81} + \\
& a_{82} - a_{83} - a_{84} + a_{247} - a_{250} + a_{254} - \\
& a_{127} + a_{133} + a_{137} - a_{139} - a_{146} + 2a_{147} - \\
& a_{158} - a_{160} + a_{164} + a_{166} - a_{170} - 2a_{172} + \\
& 2a_{176} + a_{178} - a_{180} - a_{503} + 2a_{506} + a_{507} - \\
& a_{265} + a_{266} + a_{276} + a_{277} + a_{280} + a_{284} + \\
& a_{286} + a_{288} + a_{290} + a_{291} - a_{292} - a_{294} + \\
& a_{297} + a_{298} + a_{300} + a_{303} - 2a_{304} - a_{305} - \\
& a_{307} + a_{308} + a_{312} - a_{314} + a_{315} + a_{317} - \\
& a_{319} + a_{325} + a_{326} + a_{328} + 3a_{329} + a_{335} + \\
& a_{336} - a_{338} - a_{350} - a_{352} + a_{353} + a_{356} + \\
& a_{359} - a_{362} - a_{364} - a_{369} - a_{372}
\end{aligned}
$$

$$
a_{1015} = \frac{a_{503} + \sqrt{a_{503}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_4 + a_5 - a_8 - a_9 + a_{10} - a_{26} + \\
& a_{27} - a_{28} + a_{29} - a_{59} - 2a_{61} + a_{31} + \\
& a_{33} - a_{34} - a_{36} - a_{37} + a_{123} - a_{63} + \\
& a_{64} - a_{65} - a_{75} + a_{76} - 2a_{77} - a_{82} + \\
& a_{83} - a_{84} - a_{85} + a_{248} - a_{251} + a_{127} - \\
& a_{128} + a_{134} + a_{138} - a_{140} - a_{147} + 2a_{148} - \\
& a_{159} - a_{161} + a_{165} + a_{167} - a_{171} - 2a_{173} + \\
& 2a_{177} + a_{179} - a_{181} - a_{504} + 2a_{507} + a_{508} - \\
& a_{266} + a_{267} + a_{277} + a_{278} + a_{281} + a_{285} + \\
& a_{287} + a_{289} + a_{291} + a_{292} - a_{293} - a_{295} + \\
& a_{298} + a_{299} + a_{301} + a_{304} - 2a_{305} - a_{306} - \\
& a_{308} + a_{309} + a_{313} - a_{315} + a_{316} + a_{318} - \\
& a_{320} + a_{326} + a_{327} + a_{329} + 3a_{330} + a_{336} + \\
& a_{337} - a_{339} - a_{351} - a_{353} + a_{354} + a_{357} + \\
& a_{360} - a_{363} - a_{365} - a_{370} - a_{373}
\end{aligned}
$$

$$
a_{1016} = \frac{a_{504} + \sqrt{a_{504}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_5 + a_6 - a_9 - a_{10} + a_{11} - a_{27} + \\
& a_{28} - a_{29} + a_{30} - a_{60} - 2a_{62} + a_{32} + \\
& a_{34} - a_{35} - a_{37} - a_{38} + a_{124} - a_{64} + \\
& a_{65} - a_{66} - a_{76} + a_{77} - 2a_{78} - a_{83} + \\
& a_{84} - a_{85} - a_{86} + a_{249} - a_{252} + a_{128} - \\
& a_{129} + a_{135} + a_{139} - a_{141} - a_{148} + 2a_{149} - \\
& a_{160} - a_{162} + a_{166} + a_{168} - a_{172} - 2a_{174} + \\
& 2a_{178} + a_{180} - a_{182} - a_{505} + 2a_{508} + a_{509} - \\
& a_{267} + a_{268} + a_{278} + a_{279} + a_{282} + a_{286} + \\
& a_{288} + a_{290} + a_{292} + a_{293} - a_{294} - a_{296} + \\
& a_{299} + a_{300} + a_{302} + a_{305} - 2a_{306} - a_{307} - \\
& a_{309} + a_{310} + a_{314} - a_{316} + a_{317} + a_{319} - \\
& a_{321} + a_{327} + a_{328} + a_{330} + 3a_{331} + a_{337} + \\
& a_{338} - a_{340} - a_{352} - a_{354} + a_{355} + a_{358} + \\
& a_{361} - a_{364} - a_{366} - a_{371} - a_{374}
\end{aligned}
$$

$$
a_{1017} = \frac{a_{505} + \sqrt{a_{505}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_6 + a_3 - a_{10} - a_{11} + a_{12} - a_{28} + \\
& a_{29} - a_{30} + a_{15} - a_{61} - 2a_{31} + a_{33} + \\
& a_{35} - a_{36} - a_{38} - a_{39} + a_{125} - a_{65} + \\
& a_{66} - a_{67} - a_{77} + a_{78} - 2a_{79} - a_{84} + \\
& a_{85} - a_{86} - a_{87} + a_{250} - a_{253} + a_{129} - \\
& a_{130} + a_{136} + a_{140} - a_{142} - a_{149} + 2a_{150} - \\
& a_{161} - a_{163} + a_{167} + a_{169} - a_{173} - 2a_{175} + \\
& 2a_{179} + a_{181} - a_{183} - a_{506} + 2a_{509} + a_{510} - \\
& a_{268} + a_{269} + a_{279} + a_{280} + a_{283} + a_{287} + \\
& a_{289} + a_{291} + a_{293} + a_{294} - a_{295} - a_{297} + \\
& a_{300} + a_{301} + a_{303} + a_{306} - 2a_{307} - a_{308} - \\
& a_{310} + a_{311} + a_{315} - a_{317} + a_{318} + a_{320} - \\
& a_{322} + a_{328} + a_{329} + a_{331} + 3a_{332} + a_{338} + \\
& a_{339} - a_{341} - a_{353} - a_{355} + a_{356} + a_{359} + \\
& a_{362} - a_{365} - a_{367} - a_{372} - a_{375}
\end{aligned}
$$

$$
a_{1018} = \frac{a_{506} + \sqrt{a_{506}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & a_3 + a_4 - a_{11} - a_{12} + a_{13} - a_{29} + \\
& a_{30} - a_{15} + a_{16} - a_{62} - 2a_{32} + a_{34} +
\end{aligned}
$$

$$
\begin{aligned}
& a_{36} - a_{37} - a_{39} - a_{40} + a_{126} - a_{66} + \\
& a_{67} - a_{68} - a_{78} + a_{79} - 2a_{80} - a_{85} + \\
& a_{86} - a_{87} - a_{88} + a_{251} - a_{254} + a_{130} - \\
& a_{131} + a_{137} + a_{141} - a_{143} - a_{150} + 2a_{151} - \\
& a_{162} - a_{164} + a_{168} + a_{170} - a_{174} - 2a_{176} + \\
& 2a_{180} + a_{182} - a_{184} - a_{507} + 2a_{510} + a_{255} - \\
& a_{269} + a_{270} + a_{280} + a_{281} + a_{284} + a_{288} + \\
& a_{290} + a_{292} + a_{294} + a_{295} - a_{296} - a_{298} + \\
& a_{301} + a_{302} + a_{304} + a_{307} - 2a_{308} - a_{309} - \\
& a_{311} + a_{312} + a_{316} - a_{318} + a_{319} + a_{321} - \\
& a_{323} + a_{329} + a_{330} + a_{332} + 3a_{333} + a_{339} + \\
& a_{340} - a_{342} - a_{354} - a_{356} + a_{357} + a_{360} + \\
& a_{363} - a_{366} - a_{368} - a_{373} - a_{376}
\end{aligned}
$$

$$
\begin{aligned}
a_{1019} &= \frac{a_{507} + \sqrt{a_{507}^2 - 4x}}{2} \\
x &= a_4 + a_5 - a_{12} - a_{13} + a_{14} - a_{30} + \\
& a_{15} - a_{16} + a_{17} - a_{31} - 2a_{33} + a_{35} + \\
& a_{37} - a_{38} - a_{40} - a_{41} + a_{63} - a_{67} + \\
& a_{68} - a_{69} - a_{79} + a_{80} - 2a_{81} - a_{86} + \\
& a_{87} - a_{88} - a_{89} + a_{252} - a_{127} + a_{131} - \\
& a_{132} + a_{138} + a_{142} - a_{144} - a_{151} + 2a_{152} - \\
& a_{163} - a_{165} + a_{169} + a_{171} - a_{175} - 2a_{177} + \\
& 2a_{181} + a_{183} - a_{185} - a_{508} + 2a_{255} + a_{256} - \\
& a_{270} + a_{271} + a_{281} + a_{282} + a_{285} + a_{289} + \\
& a_{291} + a_{293} + a_{295} + a_{296} - a_{297} - a_{299} + \\
& a_{302} + a_{303} + a_{305} + a_{308} - 2a_{309} - a_{310} - \\
& a_{312} + a_{313} + a_{317} - a_{319} + a_{320} + a_{322} - \\
& a_{324} + a_{330} + a_{331} + a_{333} + 3a_{334} + a_{340} + \\
& a_{341} - a_{343} - a_{355} - a_{357} + a_{358} + a_{361} + \\
& a_{364} - a_{367} - a_{369} - a_{374} - a_{377}
\end{aligned}
$$

$$
\begin{aligned}
a_{1020} &= \frac{a_{508} - \sqrt{a_{508}^2 - 4x}}{2} \\
x &= a_5 + a_6 - a_{13} - a_{14} + a_7 - a_{15} + \\
& a_{16} - a_{17} + a_{18} - a_{32} - 2a_{34} + a_{36} + \\
& a_{38} - a_{39} - a_{41} - a_{42} + a_{64} - a_{68} + \\
& a_{69} - a_{70} - a_{80} + a_{81} - 2a_{82} - a_{87} + \\
& a_{88} - a_{89} - a_{90} + a_{253} - a_{128} + a_{132} - \\
& a_{133} + a_{139} + a_{143} - a_{145} - a_{152} + 2a_{153} - \\
& a_{164} - a_{166} + a_{170} + a_{172} - a_{176} - 2a_{178} + \\
& 2a_{182} + a_{184} - a_{186} - a_{509} + 2a_{256} + a_{257} - \\
& a_{271} + a_{272} + a_{282} + a_{283} + a_{286} + a_{290} + \\
& a_{292} + a_{294} + a_{296} + a_{297} - a_{298} - a_{300} + \\
& a_{303} + a_{304} + a_{306} + a_{309} - 2a_{310} - a_{311} - \\
& a_{313} + a_{314} + a_{318} - a_{320} + a_{321} + a_{323} - \\
& a_{325} + a_{331} + a_{332} + a_{334} + 3a_{335} + a_{341} + \\
& a_{342} - a_{344} - a_{356} - a_{358} + a_{359} + a_{362} + \\
& a_{365} - a_{368} - a_{370} - a_{375} - a_{378}
\end{aligned}
$$

$$
\begin{aligned}
a_{1021} &= \frac{a_{509} - \sqrt{a_{509}^2 - 4x}}{2} \\
x &= a_6 + a_3 - a_{14} - a_7 + a_8 - a_{16} + \\
& a_{17} - a_{18} + a_{19} - a_{33} - 2a_{35} + a_{37} + \\
& a_{39} - a_{40} - a_{42} - a_{43} + a_{65} - a_{69} + \\
& a_{70} - a_{71} - a_{81} + a_{82} - 2a_{83} - a_{88} + \\
& a_{89} - a_{90} - a_{91} + a_{254} - a_{129} + a_{133} - \\
& a_{134} + a_{140} + a_{144} - a_{146} - a_{153} + 2a_{154} - \\
& a_{165} - a_{167} + a_{171} + a_{173} - a_{177} - 2a_{179} + \\
& 2a_{183} + a_{185} - a_{187} - a_{510} + 2a_{257} + a_{258} - \\
& a_{272} + a_{273} + a_{283} + a_{284} + a_{287} + a_{291} + \\
& a_{293} + a_{295} + a_{297} + a_{298} - a_{299} - a_{301} + \\
& a_{304} + a_{305} + a_{307} + a_{310} - 2a_{311} - a_{312} - \\
& a_{314} + a_{315} + a_{319} - a_{321} + a_{322} + a_{324} - \\
& a_{326} + a_{332} + a_{333} + a_{335} + 3a_{336} + a_{342} + \\
& a_{343} - a_{345} - a_{357} - a_{359} + a_{360} + a_{363} + \\
& a_{366} - a_{369} - a_{371} - a_{376} - a_{379}
\end{aligned}
$$

$$
\begin{aligned}
a_{1022} &= \frac{a_{510} - \sqrt{a_{510}^2 - 4x}}{2} \\
x &= 2a_{65} + a_{79} - 2a_{129} + a_{132} - a_{143} + a_{173} - \\
& a_{260} + a_{267} + a_{273} + a_{276} + a_{279} - 2a_{321} - \\
& a_{335} + a_{347} + a_{377} - a_{523} - a_{529} - a_{532} - \\
& a_{535} + a_{551} - a_{557} + a_{559} + 2a_{578} + a_{591} + \\
& 2a_{596} + 2a_{598} + a_{602} - a_{603} + a_{616} + a_{619} + \\
& a_{624} - a_{633} - a_{644} + 2a_{645} + a_{685} - 2a_{705} - \\
& a_{719} + a_{721} + a_{736} + a_{743}
\end{aligned}
$$

$$
\begin{aligned}
a_{1023} &= \frac{a_{511} + \sqrt{a_{511}^2 - 4x}}{2} \\
x &= 2a_{66} + a_{80} - 2a_{130} + a_{133} - a_{144} + a_{174} - \\
& a_{261} + a_{268} + a_{274} + a_{277} + a_{280} - 2a_{322} - \\
& a_{336} + a_{348} + a_{378} - a_{524} - a_{530} - a_{533} - \\
& a_{536} + a_{552} - a_{558} + a_{560} + 2a_{579} + a_{592} + \\
& 2a_{597} + 2a_{599} + a_{603} - a_{604} + a_{617} + a_{620} + \\
& a_{625} - a_{634} - a_{645} + 2a_{646} + a_{686} - 2a_{706} - \\
& a_{720} + a_{722} + a_{737} + a_{744}
\end{aligned}
$$

$$
\begin{aligned}
a_{1024} &= \frac{a_{512} + \sqrt{a_{512}^2 - 4x}}{2} \\
x &= 2a_{67} + a_{81} - 2a_{131} + a_{134} - a_{145} + a_{175} - \\
& a_{262} + a_{269} + a_{275} + a_{278} + a_{281} - 2a_{323} - \\
& a_{337} + a_{349} + a_{379} - a_{525} - a_{531} - a_{534} - \\
& a_{537} + a_{553} - a_{559} + a_{561} + 2a_{580} + a_{593} + \\
& 2a_{598} + 2a_{600} + a_{604} - a_{605} + a_{618} + a_{621} + \\
& a_{626} - a_{635} - a_{646} + 2a_{647} + a_{687} - 2a_{707} - \\
& a_{721} + a_{723} + a_{738} + a_{745}
\end{aligned}
$$

$$
\begin{aligned}
a_{1025} &= \frac{a_{513} + \sqrt{a_{513}^2 - 4x}}{2} \\
x &= 2a_{68} + a_{82} - 2a_{132} + a_{135} - a_{146} + a_{176} - \\
& a_{263} + a_{270} + a_{276} + a_{279} + a_{282} - 2a_{324} - \\
& a_{338} + a_{350} + a_{380} - a_{526} - a_{532} - a_{535} - \\
& a_{538} + a_{554} - a_{560} + a_{562} + 2a_{581} + a_{594} +
\end{aligned}
$$

$$
\begin{aligned}
& 2a_{599} + 2a_{601} + a_{605} - a_{606} + a_{619} + a_{622} + \\
& a_{627} - a_{636} - a_{647} + 2a_{648} + a_{688} - 2a_{708} - \\
& a_{722} + a_{724} + a_{739} + a_{746} \\
a_{1026} &= \frac{a_{514} + \sqrt{a_{514}^2 - 4x}}{2} \\
x &= 2a_{69} + a_{83} - 2a_{133} + a_{136} - a_{147} + a_{177} - \\
& a_{264} + a_{271} + a_{277} + a_{280} + a_{283} - 2a_{325} - \\
& a_{339} + a_{351} + a_{381} - a_{527} - a_{533} - a_{536} - \\
& a_{539} + a_{555} - a_{561} + a_{563} + 2a_{582} + a_{595} + \\
& 2a_{600} + 2a_{602} + a_{606} - a_{607} + a_{620} + a_{623} + \\
& a_{628} - a_{637} - a_{648} + 2a_{649} + a_{689} - 2a_{709} - \\
& a_{723} + a_{725} + a_{740} + a_{747} \\
a_{1027} &= \frac{a_{515} + \sqrt{a_{515}^2 - 4x}}{2} \\
x &= 2a_{70} + a_{84} - 2a_{134} + a_{137} - a_{148} + a_{178} - \\
& a_{265} + a_{272} + a_{278} + a_{281} + a_{284} - 2a_{326} - \\
& a_{340} + a_{352} + a_{382} - a_{528} - a_{534} - a_{537} - \\
& a_{540} + a_{556} - a_{562} + a_{564} + 2a_{583} + a_{596} + \\
& 2a_{601} + 2a_{603} + a_{607} - a_{608} + a_{621} + a_{624} + \\
& a_{629} - a_{638} - a_{649} + 2a_{650} + a_{690} - 2a_{710} - \\
& a_{724} + a_{726} + a_{741} + a_{748} \\
a_{1028} &= \frac{a_{516} + \sqrt{a_{516}^2 - 4x}}{2} \\
x &= 2a_{71} + a_{85} - 2a_{135} + a_{138} - a_{149} + a_{179} - \\
& a_{266} + a_{273} + a_{279} + a_{282} + a_{285} - 2a_{327} - \\
& a_{341} + a_{353} + a_{383} - a_{529} - a_{535} - a_{538} - \\
& a_{541} + a_{557} - a_{563} + a_{565} + 2a_{584} + a_{597} + \\
& 2a_{602} + 2a_{604} + a_{608} - a_{609} + a_{622} + a_{625} + \\
& a_{630} - a_{639} - a_{650} + 2a_{651} + a_{691} - 2a_{711} - \\
& a_{725} + a_{727} + a_{742} + a_{749} \\
a_{1029} &= \frac{a_{517} + \sqrt{a_{517}^2 - 4x}}{2} \\
x &= 2a_{72} + a_{86} - 2a_{136} + a_{139} - a_{150} + a_{180} - \\
& a_{267} + a_{274} + a_{280} + a_{283} + a_{286} - 2a_{328} - \\
& a_{342} + a_{354} + a_{384} - a_{530} - a_{536} - a_{539} - \\
& a_{542} + a_{558} - a_{564} + a_{566} + 2a_{585} + a_{598} + \\
& 2a_{603} + 2a_{605} + a_{609} - a_{610} + a_{623} + a_{626} + \\
& a_{631} - a_{640} - a_{651} + 2a_{652} + a_{692} - 2a_{712} - \\
& a_{726} + a_{728} + a_{743} + a_{750}
\end{aligned}
$$

$$
\begin{aligned}
a_{1030} &= \frac{a_{518} + \sqrt{a_{518}^2 - 4x}}{2} \\
x &= 2a_{76} + a_{90} - 2a_{140} + a_{143} - a_{154} + a_{184} - \\
& a_{271} + a_{278} + a_{284} + a_{287} + a_{290} - 2a_{332} - \\
& a_{346} + a_{358} + a_{388} - a_{534} - a_{540} - a_{543} - \\
& a_{546} + a_{562} - a_{568} + a_{570} + 2a_{589} + a_{602} + \\
& 2a_{607} + 2a_{609} + a_{613} - a_{614} + a_{627} + a_{630} + \\
& a_{635} - a_{644} - a_{655} + 2a_{656} + a_{696} - 2a_{716} - \\
& a_{730} + a_{732} + a_{747} + a_{754}
\end{aligned}
$$

$$
\begin{aligned}
a_{1034} &= \frac{a_{522} + \sqrt{a_{522}^2 - 4x}}{2} \\
x &= 2a_{77} + a_{91} - 2a_{141} + a_{144} - a_{155} + a_{185} - \\
& a_{272} + a_{279} + a_{285} + a_{288} + a_{291} - 2a_{333} - \\
& a_{347} + a_{359} + a_{389} - a_{535} - a_{541} - a_{544} - \\
& a_{547} + a_{563} - a_{569} + a_{571} + 2a_{590} + a_{603} + \\
& 2a_{608} + 2a_{610} + a_{614} - a_{615} + a_{628} + a_{631} + \\
& a_{636} - a_{645} - a_{656} + 2a_{657} + a_{697} - 2a_{717} - \\
& a_{731} + a_{733} + a_{748} + a_{755} \\
a_{1035} &= \frac{a_{523} + \sqrt{a_{523}^2 - 4x}}{2} \\
x &= 2a_{78} + a_{92} - 2a_{142} + a_{145} - a_{156} + a_{186} - \\
& a_{273} + a_{280} + a_{286} + a_{289} + a_{292} - 2a_{334} - \\
& a_{348} + a_{360} + a_{390} - a_{536} - a_{542} - a_{545} - \\
& a_{548} + a_{564} - a_{570} + a_{572} + 2a_{591} + a_{604} + \\
& 2a_{609} + 2a_{611} + a_{615} - a_{616} + a_{629} + a_{632} + \\
& a_{637} - a_{646} - a_{657} + 2a_{658} + a_{698} - 2a_{718} - \\
& a_{732} + a_{734} + a_{749} + a_{756} \\
a_{1036} &= \frac{a_{524} - \sqrt{a_{524}^2 - 4x}}{2} \\
x &= 2a_{81} + a_{95} - 2a_{145} + a_{148} - a_{159} + a_{189} - \\
& a_{276} + a_{283} + a_{289} + a_{292} + a_{295} - 2a_{337} - \\
& a_{351} + a_{363} + a_{393} - a_{539} - a_{545} - a_{548} - \\
& a_{551} + a_{567} - a_{573} + a_{575} + 2a_{594} + a_{607} + \\
& 2a_{612} + 2a_{614} + a_{618} - a_{619} + a_{632} + a_{635} + \\
& a_{640} - a_{649} - a_{660} + 2a_{661} + a_{701} - 2a_{721} - \\
& a_{735} + a_{737} + a_{752} + a_{759} \\
a_{1039} &= \frac{a_{527} + \sqrt{a_{527}^2 - 4x}}{2} \\
x &= 2a_{82} + a_{96} - 2a_{146} + a_{149} - a_{160} + a_{190} - \\
& a_{277} + a_{284} + a_{290} + a_{293} + a_{296} - 2a_{338} - \\
& a_{352} + a_{364} + a_{394} - a_{540} - a_{546} - a_{549} - \\
& a_{552} + a_{568} - a_{574} + a_{576} + 2a_{595} + a_{608} + \\
& 2a_{613} + 2a_{615} + a_{619} - a_{620} + a_{633} + a_{636} + \\
& a_{641} - a_{650} - a_{661} + 2a_{662} + a_{702} - 2a_{722} - \\
& a_{736} + a_{738} + a_{753} + a_{760} \\
a_{1040} &= \frac{a_{528} + \sqrt{a_{528}^2 - 4x}}{2} \\
x &= 2a_{83} + a_{97} - 2a_{147} + a_{150} - a_{161} + a_{191} - \\
& a_{278} + a_{285} + a_{291} + a_{294} + a_{297} - 2a_{339} - \\
& a_{353} + a_{365} + a_{395} - a_{541} - a_{547} - a_{550} - \\
& a_{553} + a_{569} - a_{575} + a_{577} + 2a_{596} + a_{609} + \\
& 2a_{614} + 2a_{616} + a_{620} - a_{621} + a_{634} + a_{637} + \\
& a_{642} - a_{651} - a_{662} + 2a_{663} + a_{703} - 2a_{723} - \\
& a_{737} + a_{739} + a_{754} + a_{761} \\
a_{1041} &= \frac{a_{529} - \sqrt{a_{529}^2 - 4x}}{2} \\
x &= 2a_{84} + a_{98} - 2a_{148} + a_{151} - a_{162} + a_{192} - \\
& a_{279} + a_{286} + a_{292} + a_{295} + a_{298} - 2a_{340} - \\
& a_{354} + a_{366} + a_{396} - a_{542} - a_{548} - a_{551} -
\end{aligned}
$$

$$
\begin{aligned}
& a_{554} + a_{570} - a_{576} + a_{578} + 2a_{597} + a_{610} + \\
& 2a_{615} + 2a_{617} + a_{621} - a_{622} + a_{635} + a_{638} + \\
& a_{643} - a_{652} - a_{663} + 2a_{664} + a_{704} - 2a_{724} - \\
& a_{738} + a_{740} + a_{755} + a_{762} \\
a_{1042} &= \frac{a_{530} - \sqrt{a_{530}^2 - 4x}}{2} \\
x &= 2a_{85} + a_{99} - 2a_{149} + a_{152} - a_{163} + a_{193} - \\
& a_{280} + a_{287} + a_{293} + a_{296} + a_{299} - 2a_{341} - \\
& a_{355} + a_{367} + a_{397} - a_{543} - a_{549} - a_{552} - \\
& a_{555} + a_{571} - a_{577} + a_{579} + 2a_{598} + a_{611} + \\
& 2a_{616} + 2a_{618} + a_{622} - a_{623} + a_{636} + a_{639} + \\
& a_{644} - a_{653} - a_{664} + 2a_{665} + a_{705} - 2a_{725} - \\
& a_{739} + a_{741} + a_{756} + a_{763} \\
a_{1043} &= \frac{a_{531} - \sqrt{a_{531}^2 - 4x}}{2} \\
x &= 2a_{86} + a_{100} - 2a_{150} + a_{153} - a_{164} + a_{194} - \\
& a_{281} + a_{288} + a_{294} + a_{297} + a_{300} - 2a_{342} - \\
& a_{356} + a_{368} + a_{398} - a_{544} - a_{550} - a_{553} - \\
& a_{556} + a_{572} - a_{578} + a_{580} + 2a_{599} + a_{612} + \\
& 2a_{617} + 2a_{619} + a_{623} - a_{624} + a_{637} + a_{640} + \\
& a_{645} - a_{654} - a_{665} + 2a_{666} + a_{706} - 2a_{726} - \\
& a_{740} + a_{742} + a_{757} + a_{764} \\
a_{1044} &= \frac{a_{532} + \sqrt{a_{532}^2 - 4x}}{2} \\
x &= 2a_{87} + a_{101} - 2a_{151} + a_{154} - a_{165} + a_{195} - \\
& a_{282} + a_{289} + a_{295} + a_{298} + a_{301} - 2a_{343} - \\
& a_{357} + a_{369} + a_{399} - a_{545} - a_{551} - a_{554} - \\
& a_{557} + a_{573} - a_{579} + a_{581} + 2a_{600} + a_{613} + \\
& 2a_{618} + 2a_{620} + a_{624} - a_{625} + a_{638} + a_{641} + \\
& a_{646} - a_{655} - a_{666} + 2a_{667} + a_{707} - 2a_{727} - \\
& a_{741} + a_{743} + a_{758} + a_{765}
\end{aligned}
$$

$$
\begin{aligned}
a_{1045} &= \frac{a_{533} - \sqrt{a_{533}^2 - 4x}}{2} \\
x &= 2a_{88} + a_{102} - 2a_{152} + a_{155} - a_{166} + a_{196} - \\
& a_{283} + a_{290} + a_{296} + a_{299} + a_{302} - 2a_{344} - \\
& a_{358} + a_{370} + a_{400} - a_{546} - a_{552} - a_{555} - \\
& a_{558} + a_{574} - a_{580} + a_{582} + 2a_{601} + a_{614} + \\
& 2a_{619} + 2a_{621} + a_{625} - a_{626} + a_{639} + a_{642} + \\
& a_{647} - a_{656} - a_{667} + 2a_{668} + a_{708} - 2a_{728} - \\
& a_{742} + a_{744} + a_{759} + a_{766} \\
a_{1046} &= \frac{a_{534} + \sqrt{a_{534}^2 - 4x}}{2} \\
x &= 2a_{89} + a_{103} - 2a_{153} + a_{156} - a_{167} + a_{197} - \\
& a_{284} + a_{291} + a_{297} + a_{300} + a_{303} - 2a_{345} - \\
& a_{359} + a_{371} + a_{401} - a_{547} - a_{553} - a_{556} - \\
& a_{559} + a_{575} - a_{581} + a_{583} + 2a_{602} + a_{615} + \\
& 2a_{620} + 2a_{622} + a_{626} - a_{627} + a_{640} + a_{643} + \\
& a_{648} - a_{657} - a_{668} + 2a_{669} + a_{709} - 2a_{729} - \\
& a_{743} + a_{745} + a_{760} + a_{767}
\end{aligned}
$$

$$
\begin{aligned}
a_{1047} &= \frac{a_{535} + \sqrt{a_{535}^2 - 4x}}{2} \\
x &= 2a_{90} + a_{104} - 2a_{154} + a_{157} - a_{168} + a_{198} - \\
& a_{285} + a_{292} + a_{298} + a_{301} + a_{304} - 2a_{346} - \\
& a_{360} + a_{372} + a_{402} - a_{548} - a_{554} - a_{557} - \\
& a_{560} + a_{576} - a_{582} + a_{584} + 2a_{603} + a_{616} + \\
& 2a_{621} + 2a_{623} + a_{627} - a_{628} + a_{641} + a_{644} + \\
& a_{649} - a_{658} - a_{669} + 2a_{670} + a_{710} - 2a_{730} - \\
& a_{744} + a_{746} + a_{761} + a_{768} \\
a_{1048} &= \frac{a_{536} + \sqrt{a_{536}^2 - 4x}}{2} \\
x &= 2a_{91} + a_{105} - 2a_{155} + a_{158} - a_{169} + a_{199} - \\
& a_{286} + a_{293} + a_{299} + a_{302} + a_{305} - 2a_{347} - \\
& a_{361} + a_{373} + a_{403} - a_{549} - a_{555} - a_{558} - \\
& a_{561} + a_{577} - a_{583} + a_{585} + 2a_{604} + a_{617} + \\
& 2a_{622} + 2a_{624} + a_{628} - a_{629} + a_{642} + a_{645} + \\
& a_{650} - a_{659} - a_{670} + 2a_{671} + a_{711} - 2a_{731} - \\
& a_{745} + a_{747} + a_{762} + a_{769} \\
a_{1049} &= \frac{a_{537} - \sqrt{a_{537}^2 - 4x}}{2} \\
x &= 2a_{92} + a_{106} - 2a_{156} + a_{159} - a_{170} + a_{200} - \\
& a_{287} + a_{294} + a_{300} + a_{303} + a_{306} - 2a_{348} - \\
& a_{362} + a_{374} + a_{404} - a_{550} - a_{556} - a_{559} - \\
& a_{562} + a_{578} - a_{584} + a_{586} + 2a_{605} + a_{618} + \\
& 2a_{623} + 2a_{625} + a_{629} - a_{630} + a_{643} + a_{646} + \\
& a_{651} - a_{660} - a_{671} + 2a_{672} + a_{712} - 2a_{732} - \\
& a_{746} + a_{748} + a_{763} + a_{770} \\
a_{1050} &= \frac{a_{538} - \sqrt{a_{538}^2 - 4x}}{2} \\
x &= 2a_{93} + a_{107} - 2a_{157} + a_{160} - a_{171} + a_{201} - \\
& a_{288} + a_{295} + a_{301} + a_{304} + a_{307} - 2a_{349} - \\
& a_{363} + a_{375} + a_{405} - a_{551} - a_{557} - a_{560} - \\
& a_{563} + a_{579} - a_{585} + a_{587} + 2a_{606} + a_{619} + \\
& 2a_{624} + 2a_{626} + a_{630} - a_{631} + a_{644} + a_{647} + \\
& a_{652} - a_{661} - a_{672} + 2a_{673} + a_{713} - 2a_{733} - \\
& a_{747} + a_{749} + a_{764} + a_{771} \\
a_{1051} &= \frac{a_{539} + \sqrt{a_{539}^2 - 4x}}{2} \\
x &= 2a_{94} + a_{108} - 2a_{158} + a_{161} - a_{172} + a_{202} - \\
& a_{289} + a_{296} + a_{302} + a_{305} + a_{308} - 2a_{350} - \\
& a_{364} + a_{376} + a_{406} - a_{552} - a_{558} - a_{561} - \\
& a_{564} + a_{580} - a_{586} + a_{588} + 2a_{607} + a_{620} + \\
& 2a_{625} + 2a_{627} + a_{631} - a_{632} + a_{645} + a_{648} + \\
& a_{653} - a_{662} - a_{673} + 2a_{674} + a_{714} - 2a_{734} - \\
& a_{748} + a_{750} + a_{765} + a_{772} \\
a_{1052} &= \frac{a_{540} - \sqrt{a_{540}^2 - 4x}}{2} \\
x &= 2a_{95} + a_{109} - 2a_{159} + a_{162} - a_{173} + a_{203} - \\
& a_{290} + a_{297} + a_{303} + a_{306} + a_{309} - 2a_{351} - \\
& a_{365} + a_{377} + a_{407} - a_{553} - a_{559} - a_{562} -
\end{aligned}
$$

$$
\begin{aligned}
& a_{565} + a_{581} - a_{587} + a_{589} + 2a_{608} + a_{621} + \\
& 2a_{626} + 2a_{628} + a_{632} - a_{633} + a_{646} + a_{649} + \\
& a_{654} - a_{663} - a_{674} + 2a_{675} + a_{715} - 2a_{735} - \\
& a_{749} + a_{751} + a_{766} + a_{773}
\end{aligned}
$$

$$
a_{1053} = \frac{a_{541} + \sqrt{a_{541}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & 2a_{100} + a_{114} - 2a_{164} + a_{167} - a_{178} + a_{208} - \\
& a_{295} + a_{302} + a_{308} + a_{311} + a_{314} - 2a_{356} - \\
& a_{370} + a_{382} + a_{412} - a_{558} - a_{564} - a_{567} - \\
& a_{570} + a_{586} - a_{592} + a_{594} + 2a_{613} + a_{626} + \\
& 2a_{631} + 2a_{633} + a_{637} - a_{638} + a_{651} + a_{654} + \\
& a_{659} - a_{668} - a_{679} + 2a_{680} + a_{720} - 2a_{740} - \\
& a_{754} + a_{756} + a_{771} + a_{778}
\end{aligned}
$$

$$
a_{1058} = \frac{a_{546} - \sqrt{a_{546}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & 2a_{101} + a_{115} - 2a_{165} + a_{168} - a_{179} + a_{209} - \\
& a_{296} + a_{303} + a_{309} + a_{312} + a_{315} - 2a_{357} - \\
& a_{371} + a_{383} + a_{413} - a_{559} - a_{565} - a_{568} - \\
& a_{571} + a_{587} - a_{593} + a_{595} + 2a_{614} + a_{627} + \\
& 2a_{632} + 2a_{634} + a_{638} - a_{639} + a_{652} + a_{655} + \\
& a_{660} - a_{669} - a_{680} + 2a_{681} + a_{721} - 2a_{741} - \\
& a_{755} + a_{757} + a_{772} + a_{779}
\end{aligned}
$$

$$
a_{1059} = \frac{a_{547} + \sqrt{a_{547}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & 2a_{102} + a_{116} - 2a_{166} + a_{169} - a_{180} + a_{210} - \\
& a_{297} + a_{304} + a_{310} + a_{313} + a_{316} - 2a_{358} - \\
& a_{372} + a_{384} + a_{414} - a_{560} - a_{566} - a_{569} - \\
& a_{572} + a_{588} - a_{594} + a_{596} + 2a_{615} + a_{628} + \\
& 2a_{633} + 2a_{635} + a_{639} - a_{640} + a_{653} + a_{656} + \\
& a_{661} - a_{670} - a_{681} + 2a_{682} + a_{722} - 2a_{742} - \\
& a_{756} + a_{758} + a_{773} + a_{780}
\end{aligned}
$$

$$
a_{1060} = \frac{a_{548} - \sqrt{a_{548}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & 2a_{103} + a_{117} - 2a_{167} + a_{170} - a_{181} + a_{211} - \\
& a_{298} + a_{305} + a_{311} + a_{314} + a_{317} - 2a_{359} - \\
& a_{373} + a_{385} + a_{415} - a_{561} - a_{567} - a_{570} - \\
& a_{573} + a_{589} - a_{595} + a_{597} + 2a_{616} + a_{629} + \\
& 2a_{634} + 2a_{636} + a_{640} - a_{641} + a_{654} + a_{657} + \\
& a_{662} - a_{671} - a_{682} + 2a_{683} + a_{723} - 2a_{743} - \\
& a_{757} + a_{759} + a_{774} + a_{781}
\end{aligned}
$$

$$
a_{1061} = \frac{a_{549} - \sqrt{a_{549}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & 2a_{105} + a_{119} - 2a_{169} + a_{172} - a_{183} + a_{213} - \\
& a_{300} + a_{307} + a_{313} + a_{316} + a_{319} - 2a_{361} - \\
& a_{375} + a_{387} + a_{417} - a_{563} - a_{569} - a_{572} - \\
& a_{575} + a_{591} - a_{597} + a_{599} + 2a_{618} + a_{631} + \\
& 2a_{636} + 2a_{638} + a_{642} - a_{643} + a_{656} + a_{659} + \\
& a_{664} - a_{673} - a_{684} + 2a_{685} + a_{725} - 2a_{745} - \\
& a_{759} + a_{761} + a_{776} + a_{783}
\end{aligned}
$$

$$
a_{1063} = \frac{a_{551} - \sqrt{a_{551}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & 2a_{106} + a_{120} - 2a_{170} + a_{173} - a_{184} + a_{214} - \\
& a_{301} + a_{308} + a_{314} + a_{317} + a_{320} - 2a_{362} - \\
& a_{376} + a_{388} + a_{418} - a_{564} - a_{570} - a_{573} - \\
& a_{576} + a_{592} - a_{598} + a_{600} + 2a_{619} + a_{632} + \\
& 2a_{637} + 2a_{639} + a_{643} - a_{644} + a_{657} + a_{660} + \\
& a_{665} - a_{674} - a_{685} + 2a_{686} + a_{726} - 2a_{746} - \\
& a_{760} + a_{762} + a_{777} + a_{784}
\end{aligned}
$$

$$
a_{1064} = \frac{a_{552} - \sqrt{a_{552}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & 2a_{107} + a_{121} - 2a_{171} + a_{174} - a_{185} + a_{215} - \\
& a_{302} + a_{309} + a_{315} + a_{318} + a_{321} - 2a_{363} - \\
& a_{377} + a_{389} + a_{419} - a_{565} - a_{571} - a_{574} - \\
& a_{577} + a_{593} - a_{599} + a_{601} + 2a_{620} + a_{633} + \\
& 2a_{638} + 2a_{640} + a_{644} - a_{645} + a_{658} + a_{661} + \\
& a_{666} - a_{675} - a_{686} + 2a_{687} + a_{727} - 2a_{747} - \\
& a_{761} + a_{763} + a_{778} + a_{785}
\end{aligned}
$$

$$
a_{1065} = \frac{a_{553} - \sqrt{a_{553}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & 2a_{108} + a_{122} - 2a_{172} + a_{175} - a_{186} + a_{216} - \\
& a_{303} + a_{310} + a_{316} + a_{319} + a_{322} - 2a_{364} - \\
& a_{378} + a_{390} + a_{420} - a_{566} - a_{572} - a_{575} - \\
& a_{578} + a_{594} - a_{600} + a_{602} + 2a_{621} + a_{634} + \\
& 2a_{639} + 2a_{641} + a_{645} - a_{646} + a_{659} + a_{662} + \\
& a_{667} - a_{676} - a_{687} + 2a_{688} + a_{728} - 2a_{748} - \\
& a_{762} + a_{764} + a_{779} + a_{786}
\end{aligned}
$$

$$
a_{1066} = \frac{a_{554} + \sqrt{a_{554}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & 2a_{109} + a_{123} - 2a_{173} + a_{176} - a_{187} + a_{217} - \\
& a_{304} + a_{311} + a_{317} + a_{320} + a_{323} - 2a_{365} - \\
& a_{379} + a_{391} + a_{421} - a_{567} - a_{573} - a_{576} - \\
& a_{579} + a_{595} - a_{601} + a_{603} + 2a_{622} + a_{635} + \\
& 2a_{640} + 2a_{642} + a_{646} - a_{647} + a_{660} + a_{663} + \\
& a_{668} - a_{677} - a_{688} + 2a_{689} + a_{729} - 2a_{749} - \\
& a_{763} + a_{765} + a_{780} + a_{787}
\end{aligned}
$$

$$
a_{1067} = \frac{a_{555} + \sqrt{a_{555}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & 2a_{112} + a_{126} - 2a_{176} + a_{179} - a_{190} + a_{220} - \\
& a_{307} + a_{314} + a_{320} + a_{323} + a_{326} - 2a_{368} - \\
& a_{382} + a_{394} + a_{424} - a_{570} - a_{576} - a_{579} - \\
& a_{582} + a_{598} - a_{604} + a_{606} + 2a_{625} + a_{638} + \\
& 2a_{643} + 2a_{645} + a_{649} - a_{650} + a_{663} + a_{666} + \\
& a_{671} - a_{680} - a_{691} + 2a_{692} + a_{732} - 2a_{752} - \\
& a_{766} + a_{768} + a_{783} + a_{790}
\end{aligned}
$$

$$
a_{1070} = \frac{a_{558} - \sqrt{a_{558}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & 2a_{116} + a_{66} - 2a_{180} + a_{183} - a_{194} + a_{224} - \\
& a_{311} + a_{318} + a_{324} + a_{327} + a_{330} - 2a_{372} - \\
& a_{386} + a_{398} + a_{428} - a_{574} - a_{580} - a_{583} -
\end{aligned}
$$

$$
\begin{aligned}
& a_{586} + a_{602} - a_{608} + a_{610} + 2a_{629} + a_{642} + \\
& 2a_{647} + 2a_{649} + a_{653} - a_{654} + a_{667} + a_{670} + \\
& a_{675} - a_{684} - a_{695} + 2a_{696} + a_{736} - 2a_{756} - \\
& a_{770} + a_{772} + a_{787} + a_{794}
\end{aligned}
$$

$$
a_{1074} = \frac{a_{562} - \sqrt{a_{562}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_{117} + a_{67} - 2a_{181} + a_{184} - a_{195} + a_{225} - \\
& a_{312} + a_{319} + a_{325} + a_{328} + a_{331} - 2a_{373} - \\
& a_{387} + a_{399} + a_{429} - a_{575} - a_{581} - a_{584} - \\
& a_{587} + a_{603} - a_{609} + a_{611} + 2a_{630} + a_{643} + \\
& 2a_{648} + 2a_{650} + a_{654} - a_{655} + a_{668} + a_{671} + \\
& a_{676} - a_{685} - a_{696} + 2a_{697} + a_{737} - 2a_{757} - \\
& a_{771} + a_{773} + a_{788} + a_{795}
\end{aligned}
$$

$$
a_{1075} = \frac{a_{563} + \sqrt{a_{563}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_{118} + a_{68} - 2a_{182} + a_{185} - a_{196} + a_{226} - \\
& a_{313} + a_{320} + a_{326} + a_{329} + a_{332} - 2a_{374} - \\
& a_{388} + a_{400} + a_{430} - a_{576} - a_{582} - a_{585} - \\
& a_{588} + a_{604} - a_{610} + a_{612} + 2a_{631} + a_{644} + \\
& 2a_{649} + 2a_{651} + a_{655} - a_{656} + a_{669} + a_{672} + \\
& a_{677} - a_{686} - a_{697} + 2a_{698} + a_{738} - 2a_{758} - \\
& a_{772} + a_{774} + a_{789} + a_{796}
\end{aligned}
$$

$$
a_{1076} = \frac{a_{564} + \sqrt{a_{564}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_{119} + a_{69} - 2a_{183} + a_{186} - a_{197} + a_{227} - \\
& a_{314} + a_{321} + a_{327} + a_{330} + a_{333} - 2a_{375} - \\
& a_{389} + a_{401} + a_{431} - a_{577} - a_{583} - a_{586} - \\
& a_{589} + a_{605} - a_{611} + a_{613} + 2a_{632} + a_{645} + \\
& 2a_{650} + 2a_{652} + a_{656} - a_{657} + a_{670} + a_{673} + \\
& a_{678} - a_{687} - a_{698} + 2a_{699} + a_{739} - 2a_{759} - \\
& a_{773} + a_{775} + a_{790} + a_{797}
\end{aligned}
$$

$$
a_{1077} = \frac{a_{565} + \sqrt{a_{565}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_{120} + a_{70} - 2a_{184} + a_{187} - a_{198} + a_{228} - \\
& a_{315} + a_{322} + a_{328} + a_{331} + a_{334} - 2a_{376} - \\
& a_{390} + a_{402} + a_{432} - a_{578} - a_{584} - a_{587} - \\
& a_{590} + a_{606} - a_{612} + a_{614} + 2a_{633} + a_{646} + \\
& 2a_{651} + 2a_{653} + a_{657} - a_{658} + a_{671} + a_{674} + \\
& a_{679} - a_{688} - a_{699} + 2a_{700} + a_{740} - 2a_{760} - \\
& a_{774} + a_{776} + a_{791} + a_{798}
\end{aligned}
$$

$$
a_{1078} = \frac{a_{566} + \sqrt{a_{566}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_{121} + a_{71} - 2a_{185} + a_{188} - a_{199} + a_{229} - \\
& a_{316} + a_{323} + a_{329} + a_{332} + a_{335} - 2a_{377} - \\
& a_{391} + a_{403} + a_{433} - a_{579} - a_{585} - a_{588} - \\
& a_{591} + a_{607} - a_{613} + a_{615} + 2a_{634} + a_{647} + \\
& 2a_{652} + 2a_{654} + a_{658} - a_{659} + a_{672} + a_{675} + \\
& a_{680} - a_{689} - a_{700} + 2a_{701} + a_{741} - 2a_{761} - \\
& a_{775} + a_{777} + a_{792} + a_{799}
\end{aligned}
$$

$$
a_{1079} = \frac{a_{567} - \sqrt{a_{567}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_{122} + a_{72} - 2a_{186} + a_{189} - a_{200} + a_{230} - \\
& a_{317} + a_{324} + a_{330} + a_{333} + a_{336} - 2a_{378} - \\
& a_{392} + a_{404} + a_{434} - a_{580} - a_{586} - a_{589} - \\
& a_{592} + a_{608} - a_{614} + a_{616} + 2a_{635} + a_{648} + \\
& 2a_{653} + 2a_{655} + a_{659} - a_{660} + a_{673} + a_{676} + \\
& a_{681} - a_{690} - a_{701} + 2a_{702} + a_{742} - 2a_{762} - \\
& a_{776} + a_{778} + a_{793} + a_{800}
\end{aligned}
$$

$$
a_{1080} = \frac{a_{568} - \sqrt{a_{568}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_{123} + a_{73} - 2a_{187} + a_{190} - a_{201} + a_{231} - \\
& a_{318} + a_{325} + a_{331} + a_{334} + a_{337} - 2a_{379} - \\
& a_{393} + a_{405} + a_{435} - a_{581} - a_{587} - a_{590} - \\
& a_{593} + a_{609} - a_{615} + a_{617} + 2a_{636} + a_{649} + \\
& 2a_{654} + 2a_{656} + a_{660} - a_{661} + a_{674} + a_{677} + \\
& a_{682} - a_{691} - a_{702} + 2a_{703} + a_{743} - 2a_{763} - \\
& a_{777} + a_{779} + a_{794} + a_{801}
\end{aligned}
$$

$$
a_{1081} = \frac{a_{569} - \sqrt{a_{569}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_{124} + a_{74} - 2a_{188} + a_{191} - a_{202} + a_{232} - \\
& a_{319} + a_{326} + a_{332} + a_{335} + a_{338} - 2a_{380} - \\
& a_{394} + a_{406} + a_{436} - a_{582} - a_{588} - a_{591} - \\
& a_{594} + a_{610} - a_{616} + a_{618} + 2a_{637} + a_{650} + \\
& 2a_{655} + 2a_{657} + a_{661} - a_{662} + a_{675} + a_{678} + \\
& a_{683} - a_{692} - a_{703} + 2a_{704} + a_{744} - 2a_{764} - \\
& a_{778} + a_{780} + a_{795} + a_{802}
\end{aligned}
$$

$$
a_{1082} = \frac{a_{570} - \sqrt{a_{570}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_{125} + a_{75} - 2a_{189} + a_{192} - a_{203} + a_{233} - \\
& a_{320} + a_{327} + a_{333} + a_{336} + a_{339} - 2a_{381} - \\
& a_{395} + a_{407} + a_{437} - a_{583} - a_{589} - a_{592} - \\
& a_{595} + a_{611} - a_{617} + a_{619} + 2a_{638} + a_{651} + \\
& 2a_{656} + 2a_{658} + a_{662} - a_{663} + a_{676} + a_{679} + \\
& a_{684} - a_{693} - a_{704} + 2a_{705} + a_{745} - 2a_{765} - \\
& a_{779} + a_{781} + a_{796} + a_{803}
\end{aligned}
$$

$$
a_{1083} = \frac{a_{571} + \sqrt{a_{571}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_{126} + a_{76} - 2a_{190} + a_{193} - a_{204} + a_{234} - \\
& a_{321} + a_{328} + a_{334} + a_{337} + a_{340} - 2a_{382} - \\
& a_{396} + a_{408} + a_{438} - a_{584} - a_{590} - a_{593} - \\
& a_{596} + a_{612} - a_{618} + a_{620} + 2a_{639} + a_{652} + \\
& 2a_{657} + 2a_{659} + a_{663} - a_{664} + a_{677} + a_{680} + \\
& a_{685} - a_{694} - a_{705} + 2a_{706} + a_{746} - 2a_{766} - \\
& a_{780} + a_{782} + a_{797} + a_{804}
\end{aligned}
$$

$$
a_{1084} = \frac{a_{572} + \sqrt{a_{572}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_{63} + a_{77} - 2a_{191} + a_{194} - a_{205} + a_{235} - \\
& a_{322} + a_{329} + a_{335} + a_{338} + a_{341} - 2a_{383} - \\
& a_{397} + a_{409} + a_{439} - a_{585} - a_{591} - a_{594} -
\end{aligned}
$$

$$
\begin{aligned}
& a_{597} + a_{613} - a_{619} + a_{621} + 2a_{640} + a_{653} + \\
& 2a_{658} + 2a_{660} + a_{664} - a_{665} + a_{678} + a_{681} + \\
& a_{686} - a_{695} - a_{706} + 2a_{707} + a_{747} - 2a_{767} - \\
& a_{781} + a_{783} + a_{798} + a_{805}
\end{aligned}
$$

$$
\begin{aligned}
a_{1085} &= \frac{a_{573} - \sqrt{a_{573}^2 - 4x}}{2} \\
x &= 2a_{64} + a_{78} - 2a_{192} + a_{195} - a_{206} + a_{236} - \\
& a_{323} + a_{330} + a_{336} + a_{339} + a_{342} - 2a_{384} - \\
& a_{398} + a_{410} + a_{440} - a_{586} - a_{592} - a_{595} - \\
& a_{598} + a_{614} - a_{620} + a_{622} + 2a_{641} + a_{654} + \\
& 2a_{659} + 2a_{661} + a_{665} - a_{666} + a_{679} + a_{682} + \\
& a_{687} - a_{696} - a_{707} + 2a_{708} + a_{748} - 2a_{768} - \\
& a_{782} + a_{784} + a_{799} + a_{806} \\
a_{1086} &= \frac{a_{574} - \sqrt{a_{574}^2 - 4x}}{2} \\
x &= 2a_{65} + a_{79} - 2a_{193} + a_{196} - a_{207} + a_{237} - \\
& a_{324} + a_{331} + a_{337} + a_{340} + a_{343} - 2a_{385} - \\
& a_{399} + a_{411} + a_{441} - a_{587} - a_{593} - a_{596} - \\
& a_{599} + a_{615} - a_{621} + a_{623} + 2a_{642} + a_{655} + \\
& 2a_{660} + 2a_{662} + a_{666} - a_{667} + a_{680} + a_{683} + \\
& a_{688} - a_{697} - a_{708} + 2a_{709} + a_{749} - 2a_{769} - \\
& a_{783} + a_{785} + a_{800} + a_{807} \\
a_{1087} &= \frac{a_{575} - \sqrt{a_{575}^2 - 4x}}{2} \\
x &= 2a_{66} + a_{80} - 2a_{194} + a_{197} - a_{208} + a_{238} - \\
& a_{325} + a_{332} + a_{338} + a_{341} + a_{344} - 2a_{386} - \\
& a_{400} + a_{412} + a_{442} - a_{588} - a_{594} - a_{597} - \\
& a_{600} + a_{616} - a_{622} + a_{624} + 2a_{643} + a_{656} + \\
& 2a_{661} + 2a_{663} + a_{667} - a_{668} + a_{681} + a_{684} + \\
& a_{689} - a_{698} - a_{709} + 2a_{710} + a_{750} - 2a_{770} - \\
& a_{784} + a_{786} + a_{801} + a_{808} \\
a_{1088} &= \frac{a_{576} + \sqrt{a_{576}^2 - 4x}}{2} \\
x &= 2a_{67} + a_{81} - 2a_{195} + a_{198} - a_{209} + a_{239} - \\
& a_{326} + a_{333} + a_{339} + a_{342} + a_{345} - 2a_{387} - \\
& a_{401} + a_{413} + a_{443} - a_{589} - a_{595} - a_{598} - \\
& a_{601} + a_{617} - a_{623} + a_{625} + 2a_{644} + a_{657} + \\
& 2a_{662} + 2a_{664} + a_{668} - a_{669} + a_{682} + a_{685} + \\
& a_{690} - a_{699} - a_{710} + 2a_{711} + a_{751} - 2a_{771} - \\
& a_{785} + a_{787} + a_{802} + a_{809} \\
a_{1089} &= \frac{a_{577} + \sqrt{a_{577}^2 - 4x}}{2} \\
x &= 2a_{68} + a_{82} - 2a_{196} + a_{199} - a_{210} + a_{240} - \\
& a_{327} + a_{334} + a_{340} + a_{343} + a_{346} - 2a_{388} - \\
& a_{402} + a_{414} + a_{444} - a_{590} - a_{596} - a_{599} - \\
& a_{602} + a_{618} - a_{624} + a_{626} + 2a_{645} + a_{658} + \\
& 2a_{663} + 2a_{665} + a_{669} - a_{670} + a_{683} + a_{686} + \\
& a_{691} - a_{700} - a_{711} + 2a_{712} + a_{752} - 2a_{772} - \\
& a_{786} + a_{788} + a_{803} + a_{810}
\end{aligned}
$$

$$
\begin{aligned}
a_{1090} &= \frac{a_{578} + \sqrt{a_{578}^2 - 4x}}{2} \\
x &= 2a_{69} + a_{83} - 2a_{197} + a_{200} - a_{211} + a_{241} - \\
& a_{328} + a_{335} + a_{341} + a_{344} + a_{347} - 2a_{389} - \\
& a_{403} + a_{415} + a_{445} - a_{591} - a_{597} - a_{600} - \\
& a_{603} + a_{619} - a_{625} + a_{627} + 2a_{646} + a_{659} + \\
& 2a_{664} + 2a_{666} + a_{670} - a_{671} + a_{684} + a_{687} + \\
& a_{692} - a_{701} - a_{712} + 2a_{713} + a_{753} - 2a_{773} - \\
& a_{787} + a_{789} + a_{804} + a_{811} \\
a_{1091} &= \frac{a_{579} - \sqrt{a_{579}^2 - 4x}}{2} \\
x &= 2a_{70} + a_{84} - 2a_{198} + a_{201} - a_{212} + a_{242} - \\
& a_{329} + a_{336} + a_{342} + a_{345} + a_{348} - 2a_{390} - \\
& a_{404} + a_{416} + a_{446} - a_{592} - a_{598} - a_{601} - \\
& a_{604} + a_{620} - a_{626} + a_{628} + 2a_{647} + a_{660} + \\
& 2a_{665} + 2a_{667} + a_{671} - a_{672} + a_{685} + a_{688} + \\
& a_{693} - a_{702} - a_{713} + 2a_{714} + a_{754} - 2a_{774} - \\
& a_{788} + a_{790} + a_{805} + a_{812} \\
a_{1092} &= \frac{a_{580} + \sqrt{a_{580}^2 - 4x}}{2} \\
x &= 2a_{73} + a_{87} - 2a_{201} + a_{204} - a_{215} + a_{245} - \\
& a_{332} + a_{339} + a_{345} + a_{348} + a_{351} - 2a_{393} - \\
& a_{407} + a_{419} + a_{449} - a_{595} - a_{601} - a_{604} - \\
& a_{607} + a_{623} - a_{629} + a_{631} + 2a_{650} + a_{663} + \\
& 2a_{668} + 2a_{670} + a_{674} - a_{675} + a_{688} + a_{691} + \\
& a_{696} - a_{705} - a_{716} + 2a_{717} + a_{757} - 2a_{777} - \\
& a_{791} + a_{793} + a_{808} + a_{815} \\
a_{1095} &= \frac{a_{583} + \sqrt{a_{583}^2 - 4x}}{2} \\
x &= 2a_{74} + a_{88} - 2a_{202} + a_{205} - a_{216} + a_{246} - \\
& a_{333} + a_{340} + a_{346} + a_{349} + a_{352} - 2a_{394} - \\
& a_{408} + a_{420} + a_{450} - a_{596} - a_{602} - a_{605} - \\
& a_{608} + a_{624} - a_{630} + a_{632} + 2a_{651} + a_{664} + \\
& 2a_{669} + 2a_{671} + a_{675} - a_{676} + a_{689} + a_{692} + \\
& a_{697} - a_{706} - a_{717} + 2a_{718} + a_{758} - 2a_{778} - \\
& a_{792} + a_{794} + a_{809} + a_{816} \\
a_{1096} &= \frac{a_{584} - \sqrt{a_{584}^2 - 4x}}{2} \\
x &= 2a_{75} + a_{89} - 2a_{203} + a_{206} - a_{217} + a_{247} - \\
& a_{334} + a_{341} + a_{347} + a_{350} + a_{353} - 2a_{395} - \\
& a_{409} + a_{421} + a_{451} - a_{597} - a_{603} - a_{606} - \\
& a_{609} + a_{625} - a_{631} + a_{633} + 2a_{652} + a_{665} + \\
& 2a_{670} + 2a_{672} + a_{676} - a_{677} + a_{690} + a_{693} + \\
& a_{698} - a_{707} - a_{718} + 2a_{719} + a_{759} - 2a_{779} - \\
& a_{793} + a_{795} + a_{810} + a_{817}
\end{aligned}
$$

$$
\begin{aligned}
a_{1097} &= \frac{a_{585} - \sqrt{a_{585}^2 - 4x}}{2} \\
x &= 2a_{76} + a_{90} - 2a_{204} + a_{207} - a_{218} + a_{248} - \\
& a_{335} + a_{342} + a_{348} + a_{351} + a_{354} - 2a_{396} -
\end{aligned}
$$

$$
\begin{aligned}
& a_{410} + a_{422} + a_{452} - a_{598} - a_{604} - a_{607} - \\
& a_{610} + a_{626} - a_{632} + a_{634} + 2a_{653} + a_{666} + \\
& 2a_{671} + 2a_{673} + a_{677} - a_{678} + a_{691} + a_{694} + \\
& a_{699} - a_{708} - a_{719} + 2a_{720} + a_{760} - 2a_{780} - \\
& a_{794} + a_{796} + a_{811} + a_{818} \\
a_{1098} &= \frac{a_{586} + \sqrt{a_{586}^2 - 4x}}{2} \\
x &= 2a_{77} + a_{91} - 2a_{205} + a_{208} - a_{219} + a_{249} - \\
& a_{336} + a_{343} + a_{349} + a_{352} + a_{355} - 2a_{397} - \\
& a_{411} + a_{423} + a_{453} - a_{599} - a_{605} - a_{608} - \\
& a_{611} + a_{627} - a_{633} + a_{635} + 2a_{654} + a_{667} + \\
& 2a_{672} + 2a_{674} + a_{678} - a_{679} + a_{692} + a_{695} + \\
& a_{700} - a_{709} - a_{720} + 2a_{721} + a_{761} - 2a_{781} - \\
& a_{795} + a_{797} + a_{812} + a_{819} \\
a_{1099} &= \frac{a_{587} + \sqrt{a_{587}^2 - 4x}}{2} \\
x &= 2a_{78} + a_{92} - 2a_{206} + a_{209} - a_{220} + a_{250} - \\
& a_{337} + a_{344} + a_{350} + a_{353} + a_{356} - 2a_{398} - \\
& a_{412} + a_{424} + a_{454} - a_{600} - a_{606} - a_{609} - \\
& a_{612} + a_{628} - a_{634} + a_{636} + 2a_{655} + a_{668} + \\
& 2a_{673} + 2a_{675} + a_{679} - a_{680} + a_{693} + a_{696} + \\
& a_{701} - a_{710} - a_{721} + 2a_{722} + a_{762} - 2a_{782} - \\
& a_{796} + a_{798} + a_{813} + a_{820} \\
a_{1100} &= \frac{a_{588} + \sqrt{a_{588}^2 - 4x}}{2} \\
x &= 2a_{79} + a_{93} - 2a_{207} + a_{210} - a_{221} + a_{251} - \\
& a_{338} + a_{345} + a_{351} + a_{354} + a_{357} - 2a_{399} - \\
& a_{413} + a_{425} + a_{455} - a_{601} - a_{607} - a_{610} - \\
& a_{613} + a_{629} - a_{635} + a_{637} + 2a_{656} + a_{669} + \\
& 2a_{674} + 2a_{676} + a_{680} - a_{681} + a_{694} + a_{697} + \\
& a_{702} - a_{711} - a_{722} + 2a_{723} + a_{763} - 2a_{783} - \\
& a_{797} + a_{799} + a_{814} + a_{821} \\
a_{1101} &= \frac{a_{589} + \sqrt{a_{589}^2 - 4x}}{2} \\
x &= 2a_{80} + a_{94} - 2a_{208} + a_{211} - a_{222} + a_{252} - \\
& a_{339} + a_{346} + a_{352} + a_{355} + a_{358} - 2a_{400} - \\
& a_{414} + a_{426} + a_{456} - a_{602} - a_{608} - a_{611} - \\
& a_{614} + a_{630} - a_{636} + a_{638} + 2a_{657} + a_{670} + \\
& 2a_{675} + 2a_{677} + a_{681} - a_{682} + a_{695} + a_{698} + \\
& a_{703} - a_{712} - a_{723} + 2a_{724} + a_{764} - 2a_{784} - \\
& a_{798} + a_{800} + a_{815} + a_{822} \\
a_{1102} &= \frac{a_{590} + \sqrt{a_{590}^2 - 4x}}{2} \\
x &= 2a_{81} + a_{95} - 2a_{209} + a_{212} - a_{223} + a_{253} - \\
& a_{340} + a_{347} + a_{353} + a_{356} + a_{359} - 2a_{401} - \\
& a_{415} + a_{427} + a_{457} - a_{603} - a_{609} - a_{612} - \\
& a_{615} + a_{631} - a_{637} + a_{639} + 2a_{658} + a_{671} + \\
& 2a_{676} + 2a_{678} + a_{682} - a_{683} + a_{696} + a_{699} + \\
& a_{704} - a_{713} - a_{724} + 2a_{725} + a_{765} - 2a_{785} - \\
& a_{799} + a_{801} + a_{816} + a_{823}
\end{aligned}
$$

$$
\begin{aligned}
a_{1103} &= \frac{a_{591} - \sqrt{a_{591}^2 - 4x}}{2} \\
x &= 2a_{82} + a_{96} - 2a_{210} + a_{213} - a_{224} + a_{254} - \\
& a_{341} + a_{348} + a_{354} + a_{357} + a_{360} - 2a_{402} - \\
& a_{416} + a_{428} + a_{458} - a_{604} - a_{610} - a_{613} - \\
& a_{616} + a_{632} - a_{638} + a_{640} + 2a_{659} + a_{672} + \\
& 2a_{677} + 2a_{679} + a_{683} - a_{684} + a_{697} + a_{700} + \\
& a_{705} - a_{714} - a_{725} + 2a_{726} + a_{766} - 2a_{786} - \\
& a_{800} + a_{802} + a_{817} + a_{824} \\
a_{1104} &= \frac{a_{592} - \sqrt{a_{592}^2 - 4x}}{2} \\
x &= 2a_{83} + a_{97} - 2a_{211} + a_{214} - a_{225} + a_{127} - \\
& a_{342} + a_{349} + a_{355} + a_{358} + a_{361} - 2a_{403} - \\
& a_{417} + a_{429} + a_{459} - a_{605} - a_{611} - a_{614} - \\
& a_{617} + a_{633} - a_{639} + a_{641} + 2a_{660} + a_{673} + \\
& 2a_{678} + 2a_{680} + a_{684} - a_{685} + a_{698} + a_{701} + \\
& a_{706} - a_{715} - a_{726} + 2a_{727} + a_{767} - 2a_{787} - \\
& a_{801} + a_{803} + a_{818} + a_{825} \\
a_{1105} &= \frac{a_{593} + \sqrt{a_{593}^2 - 4x}}{2} \\
x &= 2a_{84} + a_{98} - 2a_{212} + a_{215} - a_{226} + a_{128} - \\
& a_{343} + a_{350} + a_{356} + a_{359} + a_{362} - 2a_{404} - \\
& a_{418} + a_{430} + a_{460} - a_{606} - a_{612} - a_{615} - \\
& a_{618} + a_{634} - a_{640} + a_{642} + 2a_{661} + a_{674} + \\
& 2a_{679} + 2a_{681} + a_{685} - a_{686} + a_{699} + a_{702} + \\
& a_{707} - a_{716} - a_{727} + 2a_{728} + a_{768} - 2a_{788} - \\
& a_{802} + a_{804} + a_{819} + a_{826} \\
a_{1106} &= \frac{a_{594} - \sqrt{a_{594}^2 - 4x}}{2} \\
x &= 2a_{85} + a_{99} - 2a_{213} + a_{216} - a_{227} + a_{129} - \\
& a_{344} + a_{351} + a_{357} + a_{360} + a_{363} - 2a_{405} - \\
& a_{419} + a_{431} + a_{461} - a_{607} - a_{613} - a_{616} - \\
& a_{619} + a_{635} - a_{641} + a_{643} + 2a_{662} + a_{675} + \\
& 2a_{680} + 2a_{682} + a_{686} - a_{687} + a_{700} + a_{703} + \\
& a_{708} - a_{717} - a_{728} + 2a_{729} + a_{769} - 2a_{789} - \\
& a_{803} + a_{805} + a_{820} + a_{827} \\
a_{1107} &= \frac{a_{595} - \sqrt{a_{595}^2 - 4x}}{2} \\
x &= 2a_{86} + a_{100} - 2a_{214} + a_{217} - a_{228} + a_{130} - \\
& a_{345} + a_{352} + a_{358} + a_{361} + a_{364} - 2a_{406} - \\
& a_{420} + a_{432} + a_{462} - a_{608} - a_{614} - a_{617} - \\
& a_{620} + a_{636} - a_{642} + a_{644} + 2a_{663} + a_{676} + \\
& 2a_{681} + 2a_{683} + a_{687} - a_{688} + a_{701} + a_{704} + \\
& a_{709} - a_{718} - a_{729} + 2a_{730} + a_{770} - 2a_{790} - \\
& a_{804} + a_{806} + a_{821} + a_{828} \\
a_{1108} &= \frac{a_{596} - \sqrt{a_{596}^2 - 4x}}{2} \\
x &= 2a_{87} + a_{101} - 2a_{215} + a_{218} - a_{229} + a_{131} - \\
& a_{346} + a_{353} + a_{359} + a_{362} + a_{365} - 2a_{407} -
\end{aligned}
$$

$$
\begin{aligned}
& a_{421} + a_{433} + a_{463} - a_{609} - a_{615} - a_{618} - \\
& a_{621} + a_{637} - a_{643} + a_{645} + 2a_{664} + a_{677} + \\
& 2a_{682} + 2a_{684} + a_{688} - a_{689} + a_{702} + a_{705} + \\
& a_{710} - a_{719} - a_{730} + 2a_{731} + a_{771} - 2a_{791} - \\
& a_{805} + a_{807} + a_{822} + a_{829}
\end{aligned}
$$

$$
a_{1109} = \frac{a_{597} - \sqrt{a_{597}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_{88} + a_{102} - 2a_{216} + a_{219} - a_{230} + a_{132} - \\
& a_{347} + a_{354} + a_{360} + a_{363} + a_{366} - 2a_{408} - \\
& a_{422} + a_{434} + a_{464} - a_{610} - a_{616} - a_{619} - \\
& a_{622} + a_{638} - a_{644} + a_{646} + 2a_{665} + a_{678} + \\
& 2a_{683} + 2a_{685} + a_{689} - a_{690} + a_{703} + a_{706} + \\
& a_{711} - a_{720} - a_{731} + 2a_{732} + a_{772} - 2a_{792} - \\
& a_{806} + a_{808} + a_{823} + a_{830}
\end{aligned}
$$

$$
a_{1110} = \frac{a_{598} - \sqrt{a_{598}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_{89} + a_{103} - 2a_{217} + a_{220} - a_{231} + a_{133} - \\
& a_{348} + a_{355} + a_{361} + a_{364} + a_{367} - 2a_{409} - \\
& a_{423} + a_{435} + a_{465} - a_{611} - a_{617} - a_{620} - \\
& a_{623} + a_{639} - a_{645} + a_{647} + 2a_{666} + a_{679} + \\
& 2a_{684} + 2a_{686} + a_{690} - a_{691} + a_{704} + a_{707} + \\
& a_{712} - a_{721} - a_{732} + 2a_{733} + a_{773} - 2a_{793} - \\
& a_{807} + a_{809} + a_{824} + a_{831}
\end{aligned}
$$

$$
a_{1111} = \frac{a_{599} - \sqrt{a_{599}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_{90} + a_{104} - 2a_{218} + a_{221} - a_{232} + a_{134} - \\
& a_{349} + a_{356} + a_{362} + a_{365} + a_{368} - 2a_{410} - \\
& a_{424} + a_{436} + a_{466} - a_{612} - a_{618} - a_{621} - \\
& a_{624} + a_{640} - a_{646} + a_{648} + 2a_{667} + a_{680} + \\
& 2a_{685} + 2a_{687} + a_{691} - a_{692} + a_{705} + a_{708} + \\
& a_{713} - a_{722} - a_{733} + 2a_{734} + a_{774} - 2a_{794} - \\
& a_{808} + a_{810} + a_{825} + a_{832}
\end{aligned}
$$

$$
a_{1112} = \frac{a_{600} - \sqrt{a_{600}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_{91} + a_{105} - 2a_{219} + a_{222} - a_{233} + a_{135} - \\
& a_{350} + a_{357} + a_{363} + a_{366} + a_{369} - 2a_{411} - \\
& a_{425} + a_{437} + a_{467} - a_{613} - a_{619} - a_{622} - \\
& a_{625} + a_{641} - a_{647} + a_{649} + 2a_{668} + a_{681} + \\
& 2a_{686} + 2a_{688} + a_{692} - a_{693} + a_{706} + a_{709} + \\
& a_{714} - a_{723} - a_{734} + 2a_{735} + a_{775} - 2a_{795} - \\
& a_{809} + a_{811} + a_{826} + a_{833}
\end{aligned}
$$

$$
a_{1113} = \frac{a_{601} + \sqrt{a_{601}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_{92} + a_{106} - 2a_{220} + a_{223} - a_{234} + a_{136} - \\
& a_{351} + a_{358} + a_{364} + a_{367} + a_{370} - 2a_{412} - \\
& a_{426} + a_{438} + a_{468} - a_{614} - a_{620} - a_{623} - \\
& a_{626} + a_{642} - a_{648} + a_{650} + 2a_{669} + a_{682} + \\
& 2a_{687} + 2a_{689} + a_{693} - a_{694} + a_{707} + a_{710} + \\
& a_{715} - a_{724} - a_{735} + 2a_{736} + a_{776} - 2a_{796} - \\
& a_{810} + a_{812} + a_{827} + a_{834}
\end{aligned}
$$

$$
a_{1114} = \frac{a_{602} - \sqrt{a_{602}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_{93} + a_{107} - 2a_{221} + a_{224} - a_{235} + a_{137} - \\
& a_{352} + a_{359} + a_{365} + a_{368} + a_{371} - 2a_{413} - \\
& a_{427} + a_{439} + a_{469} - a_{615} - a_{621} - a_{624} - \\
& a_{627} + a_{643} - a_{649} + a_{651} + 2a_{670} + a_{683} + \\
& 2a_{688} + 2a_{690} + a_{694} - a_{695} + a_{708} + a_{711} + \\
& a_{716} - a_{725} - a_{736} + 2a_{737} + a_{777} - 2a_{797} - \\
& a_{811} + a_{813} + a_{828} + a_{835}
\end{aligned}
$$

$$
a_{1115} = \frac{a_{603} + \sqrt{a_{603}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_{94} + a_{108} - 2a_{222} + a_{225} - a_{236} + a_{138} - \\
& a_{353} + a_{360} + a_{366} + a_{369} + a_{372} - 2a_{414} - \\
& a_{428} + a_{440} + a_{470} - a_{616} - a_{622} - a_{625} - \\
& a_{628} + a_{644} - a_{650} + a_{652} + 2a_{671} + a_{684} + \\
& 2a_{689} + 2a_{691} + a_{695} - a_{696} + a_{709} + a_{712} + \\
& a_{717} - a_{726} - a_{737} + 2a_{738} + a_{778} - 2a_{798} - \\
& a_{812} + a_{814} + a_{829} + a_{836}
\end{aligned}
$$

$$
a_{1116} = \frac{a_{604} + \sqrt{a_{604}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_{95} + a_{109} - 2a_{223} + a_{226} - a_{237} + a_{139} - \\
& a_{354} + a_{361} + a_{367} + a_{370} + a_{373} - 2a_{415} - \\
& a_{429} + a_{441} + a_{471} - a_{617} - a_{623} - a_{626} - \\
& a_{629} + a_{645} - a_{651} + a_{653} + 2a_{672} + a_{685} + \\
& 2a_{690} + 2a_{692} + a_{696} - a_{697} + a_{710} + a_{713} + \\
& a_{718} - a_{727} - a_{738} + 2a_{739} + a_{779} - 2a_{799} - \\
& a_{813} + a_{815} + a_{830} + a_{837}
\end{aligned}
$$

$$
a_{1117} = \frac{a_{605} + \sqrt{a_{605}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_{96} + a_{110} - 2a_{224} + a_{227} - a_{238} + a_{140} - \\
& a_{355} + a_{362} + a_{368} + a_{371} + a_{374} - 2a_{416} - \\
& a_{430} + a_{442} + a_{472} - a_{618} - a_{624} - a_{627} - \\
& a_{630} + a_{646} - a_{652} + a_{654} + 2a_{673} + a_{686} + \\
& 2a_{691} + 2a_{693} + a_{697} - a_{698} + a_{711} + a_{714} + \\
& a_{719} - a_{728} - a_{739} + 2a_{740} + a_{780} - 2a_{800} - \\
& a_{814} + a_{816} + a_{831} + a_{838}
\end{aligned}
$$

$$
a_{1118} = \frac{a_{606} - \sqrt{a_{606}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_{97} + a_{111} - 2a_{225} + a_{228} - a_{239} + a_{141} - \\
& a_{356} + a_{363} + a_{369} + a_{372} + a_{375} - 2a_{417} - \\
& a_{431} + a_{443} + a_{473} - a_{619} - a_{625} - a_{628} - \\
& a_{631} + a_{647} - a_{653} + a_{655} + 2a_{674} + a_{687} + \\
& 2a_{692} + 2a_{694} + a_{698} - a_{699} + a_{712} + a_{715} + \\
& a_{720} - a_{729} - a_{740} + 2a_{741} + a_{781} - 2a_{801} - \\
& a_{815} + a_{817} + a_{832} + a_{839}
\end{aligned}
$$

$$
a_{1119} = \frac{a_{607} - \sqrt{a_{607}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = \; & 2a_{98} + a_{112} - 2a_{226} + a_{229} - a_{240} + a_{142} - \\
& a_{357} + a_{364} + a_{370} + a_{373} + a_{376} - 2a_{418} -
\end{aligned}
$$

$$
\begin{aligned}
& a_{432} + a_{444} + a_{474} - a_{620} - a_{626} - a_{629} - \\
& a_{632} + a_{648} - a_{654} + a_{656} + 2a_{675} + a_{688} + \\
& 2a_{693} + 2a_{695} + a_{699} - a_{700} + a_{713} + a_{716} + \\
& a_{721} - a_{730} - a_{741} + 2a_{742} + a_{782} - 2a_{802} - \\
& a_{816} + a_{818} + a_{833} + a_{840} \\
a_{1120} &= \frac{a_{608} + \sqrt{a_{608}^2 - 4x}}{2} \\
x &= 2a_{99} + a_{113} - 2a_{227} + a_{230} - a_{241} + a_{143} - \\
& a_{358} + a_{365} + a_{371} + a_{374} + a_{377} - 2a_{419} - \\
& a_{433} + a_{445} + a_{475} - a_{621} - a_{627} - a_{630} - \\
& a_{633} + a_{649} - a_{655} + a_{657} + 2a_{676} + a_{689} + \\
& 2a_{694} + 2a_{696} + a_{700} - a_{701} + a_{714} + a_{717} + \\
& a_{722} - a_{731} - a_{742} + 2a_{743} + a_{783} - 2a_{803} - \\
& a_{817} + a_{819} + a_{834} + a_{841} \\
a_{1121} &= \frac{a_{609} - \sqrt{a_{609}^2 - 4x}}{2} \\
x &= 2a_{100} + a_{114} - 2a_{228} + a_{231} - a_{242} + a_{144} - \\
& a_{359} + a_{366} + a_{372} + a_{375} + a_{378} - 2a_{420} - \\
& a_{434} + a_{446} + a_{476} - a_{622} - a_{628} - a_{631} - \\
& a_{634} + a_{650} - a_{656} + a_{658} + 2a_{677} + a_{690} + \\
& 2a_{695} + 2a_{697} + a_{701} - a_{702} + a_{715} + a_{718} + \\
& a_{723} - a_{732} - a_{743} + 2a_{744} + a_{784} - 2a_{804} - \\
& a_{818} + a_{820} + a_{835} + a_{842} \\
a_{1122} &= \frac{a_{610} - \sqrt{a_{610}^2 - 4x}}{2} \\
x &= 2a_{104} + a_{118} - 2a_{232} + a_{235} - a_{246} + a_{148} - \\
& a_{363} + a_{370} + a_{376} + a_{379} + a_{382} - 2a_{424} - \\
& a_{438} + a_{450} + a_{480} - a_{626} - a_{632} - a_{635} - \\
& a_{638} + a_{654} - a_{660} + a_{662} + 2a_{681} + a_{694} + \\
& 2a_{699} + 2a_{701} + a_{705} - a_{706} + a_{719} + a_{722} + \\
& a_{727} - a_{736} - a_{747} + 2a_{748} + a_{788} - 2a_{808} - \\
& a_{822} + a_{824} + a_{839} + a_{846} \\
a_{1126} &= \frac{a_{614} + \sqrt{a_{614}^2 - 4x}}{2} \\
x &= 2a_{105} + a_{119} - 2a_{233} + a_{236} - a_{247} + a_{149} - \\
& a_{364} + a_{371} + a_{377} + a_{380} + a_{383} - 2a_{425} - \\
& a_{439} + a_{451} + a_{481} - a_{627} - a_{633} - a_{636} - \\
& a_{639} + a_{655} - a_{661} + a_{663} + 2a_{682} + a_{695} + \\
& 2a_{700} + 2a_{702} + a_{706} - a_{707} + a_{720} + a_{723} + \\
& a_{728} - a_{737} - a_{748} + 2a_{749} + a_{789} - 2a_{809} - \\
& a_{823} + a_{825} + a_{840} + a_{847} \\
a_{1127} &= \frac{a_{615} - \sqrt{a_{615}^2 - 4x}}{2} \\
x &= 2a_{106} + a_{120} - 2a_{234} + a_{237} - a_{248} + a_{150} - \\
& a_{365} + a_{372} + a_{378} + a_{381} + a_{384} - 2a_{426} - \\
& a_{440} + a_{452} + a_{482} - a_{628} - a_{634} - a_{637} - \\
& a_{640} + a_{656} - a_{662} + a_{664} + 2a_{683} + a_{696} + \\
& 2a_{701} + 2a_{703} + a_{707} - a_{708} + a_{721} + a_{724} + \\
& a_{729} - a_{738} - a_{749} + 2a_{750} + a_{790} - 2a_{810} - \\
& a_{824} + a_{826} + a_{841} + a_{848}
\end{aligned}
$$

$$
\begin{aligned}
a_{1128} &= \frac{a_{616} + \sqrt{a_{616}^2 - 4x}}{2} \\
x &= 2a_{109} + a_{123} - 2a_{237} + a_{240} - a_{251} + a_{153} - \\
& a_{368} + a_{375} + a_{381} + a_{384} + a_{387} - 2a_{429} - \\
& a_{443} + a_{455} + a_{485} - a_{631} - a_{637} - a_{640} - \\
& a_{643} + a_{659} - a_{665} + a_{667} + 2a_{686} + a_{699} + \\
& 2a_{704} + 2a_{706} + a_{710} - a_{711} + a_{724} + a_{727} + \\
& a_{732} - a_{741} - a_{752} + 2a_{753} + a_{793} - 2a_{813} - \\
& a_{827} + a_{829} + a_{844} + a_{851} \\
a_{1131} &= \frac{a_{619} + \sqrt{a_{619}^2 - 4x}}{2} \\
x &= 2a_{110} + a_{124} - 2a_{238} + a_{241} - a_{252} + a_{154} - \\
& a_{369} + a_{376} + a_{382} + a_{385} + a_{388} - 2a_{430} - \\
& a_{444} + a_{456} + a_{486} - a_{632} - a_{638} - a_{641} - \\
& a_{644} + a_{660} - a_{666} + a_{668} + 2a_{687} + a_{700} + \\
& 2a_{705} + 2a_{707} + a_{711} - a_{712} + a_{725} + a_{728} + \\
& a_{733} - a_{742} - a_{753} + 2a_{754} + a_{794} - 2a_{814} - \\
& a_{828} + a_{830} + a_{845} + a_{852} \\
a_{1132} &= \frac{a_{620} - \sqrt{a_{620}^2 - 4x}}{2} \\
x &= 2a_{111} + a_{125} - 2a_{239} + a_{242} - a_{253} + a_{155} - \\
& a_{370} + a_{377} + a_{383} + a_{386} + a_{389} - 2a_{431} - \\
& a_{445} + a_{457} + a_{487} - a_{633} - a_{639} - a_{642} - \\
& a_{645} + a_{661} - a_{667} + a_{669} + 2a_{688} + a_{701} + \\
& 2a_{706} + 2a_{708} + a_{712} - a_{713} + a_{726} + a_{729} + \\
& a_{734} - a_{743} - a_{754} + 2a_{755} + a_{795} - 2a_{815} - \\
& a_{829} + a_{831} + a_{846} + a_{853} \\
a_{1133} &= \frac{a_{621} - \sqrt{a_{621}^2 - 4x}}{2} \\
x &= 2a_{112} + a_{126} - 2a_{240} + a_{243} - a_{254} + a_{156} - \\
& a_{371} + a_{378} + a_{384} + a_{387} + a_{390} - 2a_{432} - \\
& a_{446} + a_{458} + a_{488} - a_{634} - a_{640} - a_{643} - \\
& a_{646} + a_{662} - a_{668} + a_{670} + 2a_{689} + a_{702} + \\
& 2a_{707} + 2a_{709} + a_{713} - a_{714} + a_{727} + a_{730} + \\
& a_{735} - a_{744} - a_{755} + 2a_{756} + a_{796} - 2a_{816} - \\
& a_{830} + a_{832} + a_{847} + a_{854} \\
a_{1134} &= \frac{a_{622} + \sqrt{a_{622}^2 - 4x}}{2} \\
x &= 2a_{113} + a_{63} - 2a_{241} + a_{244} - a_{127} + a_{157} - \\
& a_{372} + a_{379} + a_{385} + a_{388} + a_{391} - 2a_{433} - \\
& a_{447} + a_{459} + a_{489} - a_{635} - a_{641} - a_{644} - \\
& a_{647} + a_{663} - a_{669} + a_{671} + 2a_{690} + a_{703} + \\
& 2a_{708} + 2a_{710} + a_{714} - a_{715} + a_{728} + a_{731} + \\
& a_{736} - a_{745} - a_{756} + 2a_{757} + a_{797} - 2a_{817} - \\
& a_{831} + a_{833} + a_{848} + a_{855} \\
a_{1135} &= \frac{a_{623} + \sqrt{a_{623}^2 - 4x}}{2} \\
x &= 2a_{114} + a_{64} - 2a_{242} + a_{245} - a_{128} + a_{158} - \\
& a_{373} + a_{380} + a_{386} + a_{389} + a_{392} - 2a_{434} -
\end{aligned}
$$

$$
\begin{aligned}
& a_{448} + a_{460} + a_{490} - a_{636} - a_{642} - a_{645} - \\
& a_{648} + a_{664} - a_{670} + a_{672} + 2a_{691} + a_{704} + \\
& 2a_{709} + 2a_{711} + a_{715} - a_{716} + a_{729} + a_{732} + \\
& a_{737} - a_{746} - a_{757} + 2a_{758} + a_{798} - 2a_{818} - \\
& a_{832} + a_{834} + a_{849} + a_{856} \\
a_{1136} &= \frac{a_{624} - \sqrt{a_{624}^2 - 4x}}{2} \\
x &= 2a_{115} + a_{65} - 2a_{243} + a_{246} - a_{129} + a_{159} - \\
& a_{374} + a_{381} + a_{387} + a_{390} + a_{393} - 2a_{435} - \\
& a_{449} + a_{461} + a_{491} - a_{637} - a_{643} - a_{646} - \\
& a_{649} + a_{665} - a_{671} + a_{673} + 2a_{692} + a_{705} + \\
& 2a_{710} + 2a_{712} + a_{716} - a_{717} + a_{730} + a_{733} + \\
& a_{738} - a_{747} - a_{758} + 2a_{759} + a_{799} - 2a_{819} - \\
& a_{833} + a_{835} + a_{850} + a_{857} \\
a_{1137} &= \frac{a_{625} - \sqrt{a_{625}^2 - 4x}}{2} \\
x &= 2a_{116} + a_{66} - 2a_{244} + a_{247} - a_{130} + a_{160} - \\
& a_{375} + a_{382} + a_{388} + a_{391} + a_{394} - 2a_{436} - \\
& a_{450} + a_{462} + a_{492} - a_{638} - a_{644} - a_{647} - \\
& a_{650} + a_{666} - a_{672} + a_{674} + 2a_{693} + a_{706} + \\
& 2a_{711} + 2a_{713} + a_{717} - a_{718} + a_{731} + a_{734} + \\
& a_{739} - a_{748} - a_{759} + 2a_{760} + a_{800} - 2a_{820} - \\
& a_{834} + a_{836} + a_{851} + a_{858} \\
a_{1138} &= \frac{a_{626} + \sqrt{a_{626}^2 - 4x}}{2} \\
x &= 2a_{117} + a_{67} - 2a_{245} + a_{248} - a_{131} + a_{161} - \\
& a_{376} + a_{383} + a_{389} + a_{392} + a_{395} - 2a_{437} - \\
& a_{451} + a_{463} + a_{493} - a_{639} - a_{645} - a_{648} - \\
& a_{651} + a_{667} - a_{673} + a_{675} + 2a_{694} + a_{707} + \\
& 2a_{712} + 2a_{714} + a_{718} - a_{719} + a_{732} + a_{735} + \\
& a_{740} - a_{749} - a_{760} + 2a_{761} + a_{801} - 2a_{821} - \\
& a_{835} + a_{837} + a_{852} + a_{859} \\
a_{1139} &= \frac{a_{627} - \sqrt{a_{627}^2 - 4x}}{2} \\
x &= 2a_{118} + a_{68} - 2a_{246} + a_{249} - a_{132} + a_{162} - \\
& a_{377} + a_{384} + a_{390} + a_{393} + a_{396} - 2a_{438} - \\
& a_{452} + a_{464} + a_{494} - a_{640} - a_{646} - a_{649} - \\
& a_{652} + a_{668} - a_{674} + a_{676} + 2a_{695} + a_{708} + \\
& 2a_{713} + 2a_{715} + a_{719} - a_{720} + a_{733} + a_{736} + \\
& a_{741} - a_{750} - a_{761} + 2a_{762} + a_{802} - 2a_{822} - \\
& a_{836} + a_{838} + a_{853} + a_{860} \\
a_{1140} &= \frac{a_{628} - \sqrt{a_{628}^2 - 4x}}{2} \\
x &= 2a_{119} + a_{69} - 2a_{247} + a_{250} - a_{133} + a_{163} - \\
& a_{378} + a_{385} + a_{391} + a_{394} + a_{397} - 2a_{439} - \\
& a_{453} + a_{465} + a_{495} - a_{641} - a_{647} - a_{650} - \\
& a_{653} + a_{669} - a_{675} + a_{677} + 2a_{696} + a_{709} + \\
& 2a_{714} + 2a_{716} + a_{720} - a_{721} + a_{734} + a_{737} + \\
& a_{742} - a_{751} - a_{762} + 2a_{763} + a_{803} - 2a_{823} - \\
& a_{837} + a_{839} + a_{854} + a_{861}
\end{aligned}
$$

$$
\begin{aligned}
a_{1141} &= \frac{a_{629} - \sqrt{a_{629}^2 - 4x}}{2} \\
x &= 2a_{120} + a_{70} - 2a_{248} + a_{251} - a_{134} + a_{164} - \\
& a_{379} + a_{386} + a_{392} + a_{395} + a_{398} - 2a_{440} - \\
& a_{454} + a_{466} + a_{496} - a_{642} - a_{648} - a_{651} - \\
& a_{654} + a_{670} - a_{676} + a_{678} + 2a_{697} + a_{710} + \\
& 2a_{715} + 2a_{717} + a_{721} - a_{722} + a_{735} + a_{738} + \\
& a_{743} - a_{752} - a_{763} + 2a_{764} + a_{804} - 2a_{824} - \\
& a_{838} + a_{840} + a_{855} + a_{862} \\
a_{1142} &= \frac{a_{630} + \sqrt{a_{630}^2 - 4x}}{2} \\
x &= 2a_{121} + a_{71} - 2a_{249} + a_{252} - a_{135} + a_{165} - \\
& a_{380} + a_{387} + a_{393} + a_{396} + a_{399} - 2a_{441} - \\
& a_{455} + a_{467} + a_{497} - a_{643} - a_{649} - a_{652} - \\
& a_{655} + a_{671} - a_{677} + a_{679} + 2a_{698} + a_{711} + \\
& 2a_{716} + 2a_{718} + a_{722} - a_{723} + a_{736} + a_{739} + \\
& a_{744} - a_{753} - a_{764} + 2a_{765} + a_{805} - 2a_{825} - \\
& a_{839} + a_{841} + a_{856} + a_{863} \\
a_{1143} &= \frac{a_{631} + \sqrt{a_{631}^2 - 4x}}{2} \\
x &= 2a_{124} + a_{74} - 2a_{252} + a_{127} - a_{138} + a_{168} - \\
& a_{383} + a_{390} + a_{396} + a_{399} + a_{402} - 2a_{444} - \\
& a_{458} + a_{470} + a_{500} - a_{646} - a_{652} - a_{655} - \\
& a_{658} + a_{674} - a_{680} + a_{682} + 2a_{701} + a_{714} + \\
& 2a_{719} + 2a_{721} + a_{725} - a_{726} + a_{739} + a_{742} + \\
& a_{747} - a_{756} - a_{767} + 2a_{768} + a_{808} - 2a_{828} - \\
& a_{842} + a_{844} + a_{859} + a_{866} \\
a_{1146} &= \frac{a_{634} + \sqrt{a_{634}^2 - 4x}}{2} \\
x &= 2a_{125} + a_{75} - 2a_{253} + a_{128} - a_{139} + a_{169} - \\
& a_{384} + a_{391} + a_{397} + a_{400} + a_{403} - 2a_{445} - \\
& a_{459} + a_{471} + a_{501} - a_{647} - a_{653} - a_{656} - \\
& a_{659} + a_{675} - a_{681} + a_{683} + 2a_{702} + a_{715} + \\
& 2a_{720} + 2a_{722} + a_{726} - a_{727} + a_{740} + a_{743} + \\
& a_{748} - a_{757} - a_{768} + 2a_{769} + a_{809} - 2a_{829} - \\
& a_{843} + a_{845} + a_{860} + a_{867} \\
a_{1147} &= \frac{a_{635} + \sqrt{a_{635}^2 - 4x}}{2} \\
x &= 2a_{126} + a_{76} - 2a_{254} + a_{129} - a_{140} + a_{170} - \\
& a_{385} + a_{392} + a_{398} + a_{401} + a_{404} - 2a_{446} - \\
& a_{460} + a_{472} + a_{502} - a_{648} - a_{654} - a_{657} - \\
& a_{660} + a_{676} - a_{682} + a_{684} + 2a_{703} + a_{716} + \\
& 2a_{721} + 2a_{723} + a_{727} - a_{728} + a_{741} + a_{744} + \\
& a_{749} - a_{758} - a_{769} + 2a_{770} + a_{810} - 2a_{830} - \\
& a_{844} + a_{846} + a_{861} + a_{868} \\
a_{1148} &= \frac{a_{636} - \sqrt{a_{636}^2 - 4x}}{2} \\
x &= 2a_{64} + a_{78} - 2a_{128} + a_{131} - a_{142} + a_{172} - \\
& a_{387} + a_{394} + a_{400} + a_{403} + a_{406} - 2a_{448} -
\end{aligned}
$$

$$
\begin{aligned}
& a_{462} + a_{474} + a_{504} - a_{650} - a_{656} - a_{659} - \\
& a_{662} + a_{678} - a_{684} + a_{686} + 2a_{705} + a_{718} + \\
& 2a_{723} + 2a_{725} + a_{729} - a_{730} + a_{743} + a_{746} + \\
& a_{751} - a_{760} - a_{771} + 2a_{772} + a_{812} - 2a_{832} - \\
& a_{846} + a_{848} + a_{863} + a_{870}
\end{aligned}
$$

$$
a_{1150} = \frac{a_{638} - \sqrt{a_{638}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & 2a_{65} + a_{79} - 2a_{129} + a_{132} - a_{143} + a_{173} - \\
& a_{388} + a_{395} + a_{401} + a_{404} + a_{407} - 2a_{449} - \\
& a_{463} + a_{475} + a_{505} - a_{651} - a_{657} - a_{660} - \\
& a_{663} + a_{679} - a_{685} + a_{687} + 2a_{706} + a_{719} + \\
& 2a_{724} + 2a_{726} + a_{730} - a_{731} + a_{744} + a_{747} + \\
& a_{752} - a_{761} - a_{772} + 2a_{773} + a_{813} - 2a_{833} - \\
& a_{847} + a_{849} + a_{864} + a_{871}
\end{aligned}
$$

$$
a_{1151} = \frac{a_{639} - \sqrt{a_{639}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & 2a_{66} + a_{80} - 2a_{130} + a_{133} - a_{144} + a_{174} - \\
& a_{389} + a_{396} + a_{402} + a_{405} + a_{408} - 2a_{450} - \\
& a_{464} + a_{476} + a_{506} - a_{652} - a_{658} - a_{661} - \\
& a_{664} + a_{680} - a_{686} + a_{688} + 2a_{707} + a_{720} + \\
& 2a_{725} + 2a_{727} + a_{731} - a_{732} + a_{745} + a_{748} + \\
& a_{753} - a_{762} - a_{773} + 2a_{774} + a_{814} - 2a_{834} - \\
& a_{848} + a_{850} + a_{865} + a_{872}
\end{aligned}
$$

$$
a_{1152} = \frac{a_{640} - \sqrt{a_{640}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & 2a_{67} + a_{81} - 2a_{131} + a_{134} - a_{145} + a_{175} - \\
& a_{390} + a_{397} + a_{403} + a_{406} + a_{409} - 2a_{451} - \\
& a_{465} + a_{477} + a_{507} - a_{653} - a_{659} - a_{662} - \\
& a_{665} + a_{681} - a_{687} + a_{689} + 2a_{708} + a_{721} + \\
& 2a_{726} + 2a_{728} + a_{732} - a_{733} + a_{746} + a_{749} + \\
& a_{754} - a_{763} - a_{774} + 2a_{775} + a_{815} - 2a_{835} - \\
& a_{849} + a_{851} + a_{866} + a_{873}
\end{aligned}
$$

$$
a_{1153} = \frac{a_{641} + \sqrt{a_{641}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & 2a_{68} + a_{82} - 2a_{132} + a_{135} - a_{146} + a_{176} - \\
& a_{391} + a_{398} + a_{404} + a_{407} + a_{410} - 2a_{452} - \\
& a_{466} + a_{478} + a_{508} - a_{654} - a_{660} - a_{663} - \\
& a_{666} + a_{682} - a_{688} + a_{690} + 2a_{709} + a_{722} + \\
& 2a_{727} + 2a_{729} + a_{733} - a_{734} + a_{747} + a_{750} + \\
& a_{755} - a_{764} - a_{775} + 2a_{776} + a_{816} - 2a_{836} - \\
& a_{850} + a_{852} + a_{867} + a_{874}
\end{aligned}
$$

$$
a_{1154} = \frac{a_{642} + \sqrt{a_{642}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & 2a_{69} + a_{83} - 2a_{133} + a_{136} - a_{147} + a_{177} - \\
& a_{392} + a_{399} + a_{405} + a_{408} + a_{411} - 2a_{453} - \\
& a_{467} + a_{479} + a_{509} - a_{655} - a_{661} - a_{664} - \\
& a_{667} + a_{683} - a_{689} + a_{691} + 2a_{710} + a_{723} + \\
& 2a_{728} + 2a_{730} + a_{734} - a_{735} + a_{748} + a_{751} + \\
& a_{756} - a_{765} - a_{776} + 2a_{777} + a_{817} - 2a_{837} - \\
& a_{851} + a_{853} + a_{868} + a_{875}
\end{aligned}
$$

$$
a_{1155} = \frac{a_{643} - \sqrt{a_{643}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & 2a_{70} + a_{84} - 2a_{134} + a_{137} - a_{148} + a_{178} - \\
& a_{393} + a_{400} + a_{406} + a_{409} + a_{412} - 2a_{454} - \\
& a_{468} + a_{480} + a_{510} - a_{656} - a_{662} - a_{665} - \\
& a_{668} + a_{684} - a_{690} + a_{692} + 2a_{711} + a_{724} + \\
& 2a_{729} + 2a_{731} + a_{735} - a_{736} + a_{749} + a_{752} + \\
& a_{757} - a_{766} - a_{777} + 2a_{778} + a_{818} - 2a_{838} - \\
& a_{852} + a_{854} + a_{869} + a_{876}
\end{aligned}
$$

$$
a_{1156} = \frac{a_{644} - \sqrt{a_{644}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & 2a_{71} + a_{85} - 2a_{135} + a_{138} - a_{149} + a_{179} - \\
& a_{394} + a_{401} + a_{407} + a_{410} + a_{413} - 2a_{455} - \\
& a_{469} + a_{481} + a_{255} - a_{657} - a_{663} - a_{666} - \\
& a_{669} + a_{685} - a_{691} + a_{693} + 2a_{712} + a_{725} + \\
& 2a_{730} + 2a_{732} + a_{736} - a_{737} + a_{750} + a_{753} + \\
& a_{758} - a_{767} - a_{778} + 2a_{779} + a_{819} - 2a_{839} - \\
& a_{853} + a_{855} + a_{870} + a_{877}
\end{aligned}
$$

$$
a_{1157} = \frac{a_{645} + \sqrt{a_{645}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & 2a_{72} + a_{86} - 2a_{136} + a_{139} - a_{150} + a_{180} - \\
& a_{395} + a_{402} + a_{408} + a_{411} + a_{414} - 2a_{456} - \\
& a_{470} + a_{482} + a_{256} - a_{658} - a_{664} - a_{667} - \\
& a_{670} + a_{686} - a_{692} + a_{694} + 2a_{713} + a_{726} + \\
& 2a_{731} + 2a_{733} + a_{737} - a_{738} + a_{751} + a_{754} + \\
& a_{759} - a_{768} - a_{779} + 2a_{780} + a_{820} - 2a_{840} - \\
& a_{854} + a_{856} + a_{871} + a_{878}
\end{aligned}
$$

$$
a_{1158} = \frac{a_{646} + \sqrt{a_{646}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & 2a_{73} + a_{87} - 2a_{137} + a_{140} - a_{151} + a_{181} - \\
& a_{396} + a_{403} + a_{409} + a_{412} + a_{415} - 2a_{457} - \\
& a_{471} + a_{483} + a_{257} - a_{659} - a_{665} - a_{668} - \\
& a_{671} + a_{687} - a_{693} + a_{695} + 2a_{714} + a_{727} + \\
& 2a_{732} + 2a_{734} + a_{738} - a_{739} + a_{752} + a_{755} + \\
& a_{760} - a_{769} - a_{780} + 2a_{781} + a_{821} - 2a_{841} - \\
& a_{855} + a_{857} + a_{872} + a_{879}
\end{aligned}
$$

$$
a_{1159} = \frac{a_{647} - \sqrt{a_{647}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & 2a_{74} + a_{88} - 2a_{138} + a_{141} - a_{152} + a_{182} - \\
& a_{397} + a_{404} + a_{410} + a_{413} + a_{416} - 2a_{458} - \\
& a_{472} + a_{484} + a_{258} - a_{660} - a_{666} - a_{669} - \\
& a_{672} + a_{688} - a_{694} + a_{696} + 2a_{715} + a_{728} + \\
& 2a_{733} + 2a_{735} + a_{739} - a_{740} + a_{753} + a_{756} + \\
& a_{761} - a_{770} - a_{781} + 2a_{782} + a_{822} - 2a_{842} - \\
& a_{856} + a_{858} + a_{873} + a_{880}
\end{aligned}
$$

$$
a_{1160} = \frac{a_{648} + \sqrt{a_{648}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & 2a_{75} + a_{89} - 2a_{139} + a_{142} - a_{153} + a_{183} - \\
& a_{398} + a_{405} + a_{411} + a_{414} + a_{417} - 2a_{459} -
\end{aligned}
$$

$$
\begin{aligned}
& a_{473} + a_{485} + a_{259} - a_{661} - a_{667} - a_{670} - \\
& a_{673} + a_{689} - a_{695} + a_{697} + 2a_{716} + a_{729} + \\
& 2a_{734} + 2a_{736} + a_{740} - a_{741} + a_{754} + a_{757} + \\
& a_{762} - a_{771} - a_{782} + 2a_{783} + a_{823} - 2a_{843} - \\
& a_{857} + a_{859} + a_{874} + a_{881} \\
a_{1161} &= \frac{a_{649} + \sqrt{a_{649}^2 - 4x}}{2} \\
x &= 2a_{79} + a_{93} - 2a_{143} + a_{146} - a_{157} + a_{187} - \\
& a_{402} + a_{409} + a_{415} + a_{418} + a_{421} - 2a_{463} - \\
& a_{477} + a_{489} + a_{263} - a_{665} - a_{671} - a_{674} - \\
& a_{677} + a_{693} - a_{699} + a_{701} + 2a_{720} + a_{733} + \\
& 2a_{738} + 2a_{740} + a_{744} - a_{745} + a_{758} + a_{761} + \\
& a_{766} - a_{775} - a_{786} + 2a_{787} + a_{827} - 2a_{847} - \\
& a_{861} + a_{863} + a_{878} + a_{885} \\
a_{1165} &= \frac{a_{653} - \sqrt{a_{653}^2 - 4x}}{2} \\
x &= 2a_{80} + a_{94} - 2a_{144} + a_{147} - a_{158} + a_{188} - \\
& a_{403} + a_{410} + a_{416} + a_{419} + a_{422} - 2a_{464} - \\
& a_{478} + a_{490} + a_{264} - a_{666} - a_{672} - a_{675} - \\
& a_{678} + a_{694} - a_{700} + a_{702} + 2a_{721} + a_{734} + \\
& 2a_{739} + 2a_{741} + a_{745} - a_{746} + a_{759} + a_{762} + \\
& a_{767} - a_{776} - a_{787} + 2a_{788} + a_{828} - 2a_{848} - \\
& a_{862} + a_{864} + a_{879} + a_{886} \\
a_{1166} &= \frac{a_{654} + \sqrt{a_{654}^2 - 4x}}{2} \\
x &= 2a_{81} + a_{95} - 2a_{145} + a_{148} - a_{159} + a_{189} - \\
& a_{404} + a_{411} + a_{417} + a_{420} + a_{423} - 2a_{465} - \\
& a_{479} + a_{491} + a_{265} - a_{667} - a_{673} - a_{676} - \\
& a_{679} + a_{695} - a_{701} + a_{703} + 2a_{722} + a_{735} + \\
& 2a_{740} + 2a_{742} + a_{746} - a_{747} + a_{760} + a_{763} + \\
& a_{768} - a_{777} - a_{788} + 2a_{789} + a_{829} - 2a_{849} - \\
& a_{863} + a_{865} + a_{880} + a_{887} \\
a_{1167} &= \frac{a_{655} - \sqrt{a_{655}^2 - 4x}}{2} \\
x &= 2a_{82} + a_{96} - 2a_{146} + a_{149} - a_{160} + a_{190} - \\
& a_{405} + a_{412} + a_{418} + a_{421} + a_{424} - 2a_{466} - \\
& a_{480} + a_{492} + a_{266} - a_{668} - a_{674} - a_{677} - \\
& a_{680} + a_{696} - a_{702} + a_{704} + 2a_{723} + a_{736} + \\
& 2a_{741} + 2a_{743} + a_{747} - a_{748} + a_{761} + a_{764} + \\
& a_{769} - a_{778} - a_{789} + 2a_{790} + a_{830} - 2a_{850} - \\
& a_{864} + a_{866} + a_{881} + a_{888}
\end{aligned}
$$

$$
\begin{aligned}
a_{1168} &= \frac{a_{656} - \sqrt{a_{656}^2 - 4x}}{2} \\
x &= 2a_{83} + a_{97} - 2a_{147} + a_{150} - a_{161} + a_{191} - \\
& a_{406} + a_{413} + a_{419} + a_{422} + a_{425} - 2a_{467} - \\
& a_{481} + a_{493} + a_{267} - a_{669} - a_{675} - a_{678} - \\
& a_{681} + a_{697} - a_{703} + a_{705} + 2a_{724} + a_{737} + \\
& 2a_{742} + 2a_{744} + a_{748} - a_{749} + a_{762} + a_{765} + \\
& a_{770} - a_{779} - a_{790} + 2a_{791} + a_{831} - 2a_{851} - \\
& a_{865} + a_{867} + a_{882} + a_{889} \\
a_{1169} &= \frac{a_{657} + \sqrt{a_{657}^2 - 4x}}{2} \\
x &= 2a_{84} + a_{98} - 2a_{148} + a_{151} - a_{162} + a_{192} - \\
& a_{407} + a_{414} + a_{420} + a_{423} + a_{426} - 2a_{468} - \\
& a_{482} + a_{494} + a_{268} - a_{670} - a_{676} - a_{679} - \\
& a_{682} + a_{698} - a_{704} + a_{706} + 2a_{725} + a_{738} + \\
& 2a_{743} + 2a_{745} + a_{749} - a_{750} + a_{763} + a_{766} + \\
& a_{771} - a_{780} - a_{791} + 2a_{792} + a_{832} - 2a_{852} - \\
& a_{866} + a_{868} + a_{883} + a_{890} \\
a_{1170} &= \frac{a_{658} + \sqrt{a_{658}^2 - 4x}}{2} \\
x &= 2a_{85} + a_{99} - 2a_{149} + a_{152} - a_{163} + a_{193} - \\
& a_{408} + a_{415} + a_{421} + a_{424} + a_{427} - 2a_{469} - \\
& a_{483} + a_{495} + a_{269} - a_{671} - a_{677} - a_{680} - \\
& a_{683} + a_{699} - a_{705} + a_{707} + 2a_{726} + a_{739} + \\
& 2a_{744} + 2a_{746} + a_{750} - a_{751} + a_{764} + a_{767} + \\
& a_{772} - a_{781} - a_{792} + 2a_{793} + a_{833} - 2a_{853} - \\
& a_{867} + a_{869} + a_{884} + a_{891} \\
a_{1171} &= \frac{a_{659} + \sqrt{a_{659}^2 - 4x}}{2} \\
x &= 2a_{86} + a_{100} - 2a_{150} + a_{153} - a_{164} + a_{194} - \\
& a_{409} + a_{416} + a_{422} + a_{425} + a_{428} - 2a_{470} - \\
& a_{484} + a_{496} + a_{270} - a_{672} - a_{678} - a_{681} - \\
& a_{684} + a_{700} - a_{706} + a_{708} + 2a_{727} + a_{740} + \\
& 2a_{745} + 2a_{747} + a_{751} - a_{752} + a_{765} + a_{768} + \\
& a_{773} - a_{782} - a_{793} + 2a_{794} + a_{834} - 2a_{854} - \\
& a_{868} + a_{870} + a_{885} + a_{892} \\
a_{1172} &= \frac{a_{660} + \sqrt{a_{660}^2 - 4x}}{2} \\
x &= 2a_{87} + a_{101} - 2a_{151} + a_{154} - a_{165} + a_{195} - \\
& a_{410} + a_{417} + a_{423} + a_{426} + a_{429} - 2a_{471} - \\
& a_{485} + a_{497} + a_{271} - a_{673} - a_{679} - a_{682} - \\
& a_{685} + a_{701} - a_{707} + a_{709} + 2a_{728} + a_{741} + \\
& 2a_{746} + 2a_{748} + a_{752} - a_{753} + a_{766} + a_{769} + \\
& a_{774} - a_{783} - a_{794} + 2a_{795} + a_{835} - 2a_{855} - \\
& a_{869} + a_{871} + a_{886} + a_{893} \\
a_{1173} &= \frac{a_{661} + \sqrt{a_{661}^2 - 4x}}{2} \\
x &= 2a_{88} + a_{102} - 2a_{152} + a_{155} - a_{166} + a_{196} - \\
& a_{411} + a_{418} + a_{424} + a_{427} + a_{430} - 2a_{472} - \\
& a_{486} + a_{498} + a_{272} - a_{674} - a_{680} - a_{683} - \\
& a_{686} + a_{702} - a_{708} + a_{710} + 2a_{729} + a_{742} + \\
& 2a_{747} + 2a_{749} + a_{753} - a_{754} + a_{767} + a_{770} + \\
& a_{775} - a_{784} - a_{795} + 2a_{796} + a_{836} - 2a_{856} - \\
& a_{870} + a_{872} + a_{887} + a_{894} \\
a_{1174} &= \frac{a_{662} + \sqrt{a_{662}^2 - 4x}}{2} \\
x &= 2a_{89} + a_{103} - 2a_{153} + a_{156} - a_{167} + a_{197} - \\
& a_{412} + a_{419} + a_{425} + a_{428} + a_{431} - 2a_{473} -
\end{aligned}
$$

$$
\begin{aligned}
& a_{487} + a_{499} + a_{273} - a_{675} - a_{681} - a_{684} - \\
& a_{687} + a_{703} - a_{709} + a_{711} + 2a_{730} + a_{743} + \\
& 2a_{748} + 2a_{750} + a_{754} - a_{755} + a_{768} + a_{771} + \\
& a_{776} - a_{785} - a_{796} + 2a_{797} + a_{837} - 2a_{857} - \\
& a_{871} + a_{873} + a_{888} + a_{895} \\
a_{1175} &= \frac{a_{663} - \sqrt{a_{663}^2 - 4x}}{2} \\
x &= 2a_{90} + a_{104} - 2a_{154} + a_{157} - a_{168} + a_{198} - \\
& a_{413} + a_{420} + a_{426} + a_{429} + a_{432} - 2a_{474} - \\
& a_{488} + a_{500} + a_{274} - a_{676} - a_{682} - a_{685} - \\
& a_{688} + a_{704} - a_{710} + a_{712} + 2a_{731} + a_{744} + \\
& 2a_{749} + 2a_{751} + a_{755} - a_{756} + a_{769} + a_{772} + \\
& a_{777} - a_{786} - a_{797} + 2a_{798} + a_{838} - 2a_{858} - \\
& a_{872} + a_{874} + a_{889} + a_{896} \\
a_{1176} &= \frac{a_{664} + \sqrt{a_{664}^2 - 4x}}{2} \\
x &= 2a_{91} + a_{105} - 2a_{155} + a_{158} - a_{169} + a_{199} - \\
& a_{414} + a_{421} + a_{427} + a_{430} + a_{433} - 2a_{475} - \\
& a_{489} + a_{501} + a_{275} - a_{677} - a_{683} - a_{686} - \\
& a_{689} + a_{705} - a_{711} + a_{713} + 2a_{732} + a_{745} + \\
& 2a_{750} + 2a_{752} + a_{756} - a_{757} + a_{770} + a_{773} + \\
& a_{778} - a_{787} - a_{798} + 2a_{799} + a_{839} - 2a_{859} - \\
& a_{873} + a_{875} + a_{890} + a_{897} \\
a_{1177} &= \frac{a_{665} + \sqrt{a_{665}^2 - 4x}}{2} \\
x &= 2a_{92} + a_{106} - 2a_{156} + a_{159} - a_{170} + a_{200} - \\
& a_{415} + a_{422} + a_{428} + a_{431} + a_{434} - 2a_{476} - \\
& a_{490} + a_{502} + a_{276} - a_{678} - a_{684} - a_{687} - \\
& a_{690} + a_{706} - a_{712} + a_{714} + 2a_{733} + a_{746} + \\
& 2a_{751} + 2a_{753} + a_{757} - a_{758} + a_{771} + a_{774} + \\
& a_{779} - a_{788} - a_{799} + 2a_{800} + a_{840} - 2a_{860} - \\
& a_{874} + a_{876} + a_{891} + a_{898}
\end{aligned}
$$

$$
\begin{aligned}
a_{1178} &= \frac{a_{666} + \sqrt{a_{666}^2 - 4x}}{2} \\
x &= 2a_{93} + a_{107} - 2a_{157} + a_{160} - a_{171} + a_{201} - \\
& a_{416} + a_{423} + a_{429} + a_{432} + a_{435} - 2a_{477} - \\
& a_{491} + a_{503} + a_{277} - a_{679} - a_{685} - a_{688} - \\
& a_{691} + a_{707} - a_{713} + a_{715} + 2a_{734} + a_{747} + \\
& 2a_{752} + 2a_{754} + a_{758} - a_{759} + a_{772} + a_{775} + \\
& a_{780} - a_{789} - a_{800} + 2a_{801} + a_{841} - 2a_{861} - \\
& a_{875} + a_{877} + a_{892} + a_{899} \\
a_{1179} &= \frac{a_{667} + \sqrt{a_{667}^2 - 4x}}{2} \\
x &= 2a_{94} + a_{108} - 2a_{158} + a_{161} - a_{172} + a_{202} - \\
& a_{417} + a_{424} + a_{430} + a_{433} + a_{436} - 2a_{478} - \\
& a_{492} + a_{504} + a_{278} - a_{680} - a_{686} - a_{689} - \\
& a_{692} + a_{708} - a_{714} + a_{716} + 2a_{735} + a_{748} + \\
& 2a_{753} + 2a_{755} + a_{759} - a_{760} + a_{773} + a_{776} + \\
& a_{781} - a_{790} - a_{801} + 2a_{802} + a_{842} - 2a_{862} - \\
& a_{876} + a_{878} + a_{893} + a_{900} \\
a_{1180} &= \frac{a_{668} - \sqrt{a_{668}^2 - 4x}}{2} \\
x &= 2a_{96} + a_{110} - 2a_{160} + a_{163} - a_{174} + a_{204} - \\
& a_{419} + a_{426} + a_{432} + a_{435} + a_{438} - 2a_{480} - \\
& a_{494} + a_{506} + a_{280} - a_{682} - a_{688} - a_{691} - \\
& a_{694} + a_{710} - a_{716} + a_{718} + 2a_{737} + a_{750} + \\
& 2a_{755} + 2a_{757} + a_{761} - a_{762} + a_{775} + a_{778} + \\
& a_{783} - a_{792} - a_{803} + 2a_{804} + a_{844} - 2a_{864} - \\
& a_{878} + a_{880} + a_{895} + a_{902} \\
a_{1182} &= \frac{a_{670} - \sqrt{a_{670}^2 - 4x}}{2} \\
x &= 2a_{97} + a_{111} - 2a_{161} + a_{164} - a_{175} + a_{205} - \\
& a_{420} + a_{427} + a_{433} + a_{436} + a_{439} - 2a_{481} - \\
& a_{495} + a_{507} + a_{281} - a_{683} - a_{689} - a_{692} - \\
& a_{695} + a_{711} - a_{717} + a_{719} + 2a_{738} + a_{751} + \\
& 2a_{756} + 2a_{758} + a_{762} - a_{763} + a_{776} + a_{779} + \\
& a_{784} - a_{793} - a_{804} + 2a_{805} + a_{845} - 2a_{865} - \\
& a_{879} + a_{881} + a_{896} + a_{903} \\
a_{1183} &= \frac{a_{671} + \sqrt{a_{671}^2 - 4x}}{2} \\
x &= 2a_{98} + a_{112} - 2a_{162} + a_{165} - a_{176} + a_{206} - \\
& a_{421} + a_{428} + a_{434} + a_{437} + a_{440} - 2a_{482} - \\
& a_{496} + a_{508} + a_{282} - a_{684} - a_{690} - a_{693} - \\
& a_{696} + a_{712} - a_{718} + a_{720} + 2a_{739} + a_{752} + \\
& 2a_{757} + 2a_{759} + a_{763} - a_{764} + a_{777} + a_{780} + \\
& a_{785} - a_{794} - a_{805} + 2a_{806} + a_{846} - 2a_{866} - \\
& a_{880} + a_{882} + a_{897} + a_{904} \\
a_{1184} &= \frac{a_{672} - \sqrt{a_{672}^2 - 4x}}{2} \\
x &= 2a_{99} + a_{113} - 2a_{163} + a_{166} - a_{177} + a_{207} - \\
& a_{422} + a_{429} + a_{435} + a_{438} + a_{441} - 2a_{483} - \\
& a_{497} + a_{509} + a_{283} - a_{685} - a_{691} - a_{694} - \\
& a_{697} + a_{713} - a_{719} + a_{721} + 2a_{740} + a_{753} + \\
& 2a_{758} + 2a_{760} + a_{764} - a_{765} + a_{778} + a_{781} + \\
& a_{786} - a_{795} - a_{806} + 2a_{807} + a_{847} - 2a_{867} - \\
& a_{881} + a_{883} + a_{898} + a_{905} \\
a_{1185} &= \frac{a_{673} + \sqrt{a_{673}^2 - 4x}}{2} \\
x &= 2a_{101} + a_{115} - 2a_{165} + a_{168} - a_{179} + a_{209} - \\
& a_{424} + a_{431} + a_{437} + a_{440} + a_{443} - 2a_{485} - \\
& a_{499} + a_{255} + a_{285} - a_{687} - a_{693} - a_{696} - \\
& a_{699} + a_{715} - a_{721} + a_{723} + 2a_{742} + a_{755} + \\
& 2a_{760} + 2a_{762} + a_{766} - a_{767} + a_{780} + a_{783} + \\
& a_{788} - a_{797} - a_{808} + 2a_{809} + a_{849} - 2a_{869} - \\
& a_{883} + a_{885} + a_{900} + a_{907} \\
a_{1187} &= \frac{a_{675} + \sqrt{a_{675}^2 - 4x}}{2} \\
x &= 2a_{102} + a_{116} - 2a_{166} + a_{169} - a_{180} + a_{210} - \\
& a_{425} + a_{432} + a_{438} + a_{441} + a_{444} - 2a_{486} -
\end{aligned}
$$

$$
\begin{aligned}
& a_{500} + a_{256} + a_{286} - a_{688} - a_{694} - a_{697} - \\
& a_{700} + a_{716} - a_{722} + a_{724} + 2a_{743} + a_{756} + \\
& 2a_{761} + 2a_{763} + a_{767} - a_{768} + a_{781} + a_{784} + \\
& a_{789} - a_{798} - a_{809} + 2a_{810} + a_{850} - 2a_{870} - \\
& a_{884} + a_{886} + a_{901} + a_{908} \\
a_{1188} &= \frac{a_{676} + \sqrt{a_{676}^2 - 4x}}{2} \\
x &= 2a_{103} + a_{117} - 2a_{167} + a_{170} - a_{181} + a_{211} - \\
& a_{426} + a_{433} + a_{439} + a_{442} + a_{445} - 2a_{487} - \\
& a_{501} + a_{257} + a_{287} - a_{689} - a_{695} - a_{698} - \\
& a_{701} + a_{717} - a_{723} + a_{725} + 2a_{744} + a_{757} + \\
& 2a_{762} + 2a_{764} + a_{768} - a_{769} + a_{782} + a_{785} + \\
& a_{790} - a_{799} - a_{810} + 2a_{811} + a_{851} - 2a_{871} - \\
& a_{885} + a_{887} + a_{902} + a_{909} \\
a_{1189} &= \frac{a_{677} - \sqrt{a_{677}^2 - 4x}}{2} \\
x &= 2a_{104} + a_{118} - 2a_{168} + a_{171} - a_{182} + a_{212} - \\
& a_{427} + a_{434} + a_{440} + a_{443} + a_{446} - 2a_{488} - \\
& a_{502} + a_{258} + a_{288} - a_{690} - a_{696} - a_{699} - \\
& a_{702} + a_{718} - a_{724} + a_{726} + 2a_{745} + a_{758} + \\
& 2a_{763} + 2a_{765} + a_{769} - a_{770} + a_{783} + a_{786} + \\
& a_{791} - a_{800} - a_{811} + 2a_{812} + a_{852} - 2a_{872} - \\
& a_{886} + a_{888} + a_{903} + a_{910}
\end{aligned}
$$

$$
\begin{aligned}
a_{1190} &= \frac{a_{678} + \sqrt{a_{678}^2 - 4x}}{2} \\
x &= 2a_{105} + a_{119} - 2a_{169} + a_{172} - a_{183} + a_{213} - \\
& a_{428} + a_{435} + a_{441} + a_{444} + a_{447} - 2a_{489} - \\
& a_{503} + a_{259} + a_{289} - a_{691} - a_{697} - a_{700} - \\
& a_{703} + a_{719} - a_{725} + a_{727} + 2a_{746} + a_{759} + \\
& 2a_{764} + 2a_{766} + a_{770} - a_{771} + a_{784} + a_{787} + \\
& a_{792} - a_{801} - a_{812} + 2a_{813} + a_{853} - 2a_{873} - \\
& a_{887} + a_{889} + a_{904} + a_{911} \\
a_{1191} &= \frac{a_{679} + \sqrt{a_{679}^2 - 4x}}{2} \\
x &= 2a_{106} + a_{120} - 2a_{170} + a_{173} - a_{184} + a_{214} - \\
& a_{429} + a_{436} + a_{442} + a_{445} + a_{448} - 2a_{490} - \\
& a_{504} + a_{260} + a_{290} - a_{692} - a_{698} - a_{701} - \\
& a_{704} + a_{720} - a_{726} + a_{728} + 2a_{747} + a_{760} + \\
& 2a_{765} + 2a_{767} + a_{771} - a_{772} + a_{785} + a_{788} + \\
& a_{793} - a_{802} - a_{813} + 2a_{814} + a_{854} - 2a_{874} - \\
& a_{888} + a_{890} + a_{905} + a_{912} \\
a_{1192} &= \frac{a_{680} - \sqrt{a_{680}^2 - 4x}}{2} \\
x &= 2a_{107} + a_{121} - 2a_{171} + a_{174} - a_{185} + a_{215} - \\
& a_{430} + a_{437} + a_{443} + a_{446} + a_{449} - 2a_{491} - \\
& a_{505} + a_{261} + a_{291} - a_{693} - a_{699} - a_{702} - \\
& a_{705} + a_{721} - a_{727} + a_{729} + 2a_{748} + a_{761} + \\
& 2a_{766} + 2a_{768} + a_{772} - a_{773} + a_{786} + a_{789} + \\
& a_{794} - a_{803} - a_{814} + 2a_{815} + a_{855} - 2a_{875} - \\
& a_{889} + a_{891} + a_{906} + a_{913} \\
a_{1193} &= \frac{a_{681} - \sqrt{a_{681}^2 - 4x}}{2} \\
x &= 2a_{108} + a_{122} - 2a_{172} + a_{175} - a_{186} + a_{216} - \\
& a_{431} + a_{438} + a_{444} + a_{447} + a_{450} - 2a_{492} - \\
& a_{506} + a_{262} + a_{292} - a_{694} - a_{700} - a_{703} - \\
& a_{706} + a_{722} - a_{728} + a_{730} + 2a_{749} + a_{762} + \\
& 2a_{767} + 2a_{769} + a_{773} - a_{774} + a_{787} + a_{790} + \\
& a_{795} - a_{804} - a_{815} + 2a_{816} + a_{856} - 2a_{876} - \\
& a_{890} + a_{892} + a_{907} + a_{914} \\
a_{1194} &= \frac{a_{682} + \sqrt{a_{682}^2 - 4x}}{2} \\
x &= 2a_{109} + a_{123} - 2a_{173} + a_{176} - a_{187} + a_{217} - \\
& a_{432} + a_{439} + a_{445} + a_{448} + a_{451} - 2a_{493} - \\
& a_{507} + a_{263} + a_{293} - a_{695} - a_{701} - a_{704} - \\
& a_{707} + a_{723} - a_{729} + a_{731} + 2a_{750} + a_{763} + \\
& 2a_{768} + 2a_{770} + a_{774} - a_{775} + a_{788} + a_{791} + \\
& a_{796} - a_{805} - a_{816} + 2a_{817} + a_{857} - 2a_{877} - \\
& a_{891} + a_{893} + a_{908} + a_{915} \\
a_{1195} &= \frac{a_{683} - \sqrt{a_{683}^2 - 4x}}{2} \\
x &= 2a_{110} + a_{124} - 2a_{174} + a_{177} - a_{188} + a_{218} - \\
& a_{433} + a_{440} + a_{446} + a_{449} + a_{452} - 2a_{494} - \\
& a_{508} + a_{264} + a_{294} - a_{696} - a_{702} - a_{705} - \\
& a_{708} + a_{724} - a_{730} + a_{732} + 2a_{751} + a_{764} + \\
& 2a_{769} + 2a_{771} + a_{775} - a_{776} + a_{789} + a_{792} + \\
& a_{797} - a_{806} - a_{817} + 2a_{818} + a_{858} - 2a_{878} - \\
& a_{892} + a_{894} + a_{909} + a_{916} \\
a_{1196} &= \frac{a_{684} - \sqrt{a_{684}^2 - 4x}}{2} \\
x &= 2a_{111} + a_{125} - 2a_{175} + a_{178} - a_{189} + a_{219} - \\
& a_{434} + a_{441} + a_{447} + a_{450} + a_{453} - 2a_{495} - \\
& a_{509} + a_{265} + a_{295} - a_{697} - a_{703} - a_{706} - \\
& a_{709} + a_{725} - a_{731} + a_{733} + 2a_{752} + a_{765} + \\
& 2a_{770} + 2a_{772} + a_{776} - a_{777} + a_{790} + a_{793} + \\
& a_{798} - a_{807} - a_{818} + 2a_{819} + a_{859} - 2a_{879} - \\
& a_{893} + a_{895} + a_{910} + a_{917} \\
a_{1197} &= \frac{a_{685} + \sqrt{a_{685}^2 - 4x}}{2} \\
x &= 2a_{112} + a_{126} - 2a_{176} + a_{179} - a_{190} + a_{220} - \\
& a_{435} + a_{442} + a_{448} + a_{451} + a_{454} - 2a_{496} - \\
& a_{510} + a_{266} + a_{296} - a_{698} - a_{704} - a_{707} - \\
& a_{710} + a_{726} - a_{732} + a_{734} + 2a_{753} + a_{766} + \\
& 2a_{771} + 2a_{773} + a_{777} - a_{778} + a_{791} + a_{794} + \\
& a_{799} - a_{808} - a_{819} + 2a_{820} + a_{860} - 2a_{880} - \\
& a_{894} + a_{896} + a_{911} + a_{918} \\
a_{1198} &= \frac{a_{686} + \sqrt{a_{686}^2 - 4x}}{2} \\
x &= 2a_{113} + a_{63} - 2a_{177} + a_{180} - a_{191} + a_{221} - \\
& a_{436} + a_{443} + a_{449} + a_{452} + a_{455} - 2a_{497} -
\end{aligned}
$$

$$
\begin{aligned}
& a_{255} + a_{267} + a_{297} - a_{699} - a_{705} - a_{708} - \\
& a_{711} + a_{727} - a_{733} + a_{735} + 2a_{754} + a_{767} + \\
& 2a_{772} + 2a_{774} + a_{778} - a_{779} + a_{792} + a_{795} + \\
& a_{800} - a_{809} - a_{820} + 2a_{821} + a_{861} - 2a_{881} - \\
& a_{895} + a_{897} + a_{912} + a_{919} \\
a_{1199} &= \frac{a_{687} + \sqrt{a_{687}^2 - 4x}}{2} \\
x &= 2a_{114} + a_{64} - 2a_{178} + a_{181} - a_{192} + a_{222} - \\
& a_{437} + a_{444} + a_{450} + a_{453} + a_{456} - 2a_{498} - \\
& a_{256} + a_{268} + a_{298} - a_{700} - a_{706} - a_{709} - \\
& a_{712} + a_{728} - a_{734} + a_{736} + 2a_{755} + a_{768} + \\
& 2a_{773} + 2a_{775} + a_{779} - a_{780} + a_{793} + a_{796} + \\
& a_{801} - a_{810} - a_{821} + 2a_{822} + a_{862} - 2a_{882} - \\
& a_{896} + a_{898} + a_{913} + a_{920}
\end{aligned}
$$

$$
\begin{aligned}
a_{1200} &= \frac{a_{688} + \sqrt{a_{688}^2 - 4x}}{2} \\
x &= 2a_{115} + a_{65} - 2a_{179} + a_{182} - a_{193} + a_{223} - \\
& a_{438} + a_{445} + a_{451} + a_{454} + a_{457} - 2a_{499} - \\
& a_{257} + a_{269} + a_{299} - a_{701} - a_{707} - a_{710} - \\
& a_{713} + a_{729} - a_{735} + a_{737} + 2a_{756} + a_{769} + \\
& 2a_{774} + 2a_{776} + a_{780} - a_{781} + a_{794} + a_{797} + \\
& a_{802} - a_{811} - a_{822} + 2a_{823} + a_{863} - 2a_{883} - \\
& a_{897} + a_{899} + a_{914} + a_{921} \\
a_{1201} &= \frac{a_{689} - \sqrt{a_{689}^2 - 4x}}{2} \\
x &= 2a_{116} + a_{66} - 2a_{180} + a_{183} - a_{194} + a_{224} - \\
& a_{439} + a_{446} + a_{452} + a_{455} + a_{458} - 2a_{500} - \\
& a_{258} + a_{270} + a_{300} - a_{702} - a_{708} - a_{711} - \\
& a_{714} + a_{730} - a_{736} + a_{738} + 2a_{757} + a_{770} + \\
& 2a_{775} + 2a_{777} + a_{781} - a_{782} + a_{795} + a_{798} + \\
& a_{803} - a_{812} - a_{823} + 2a_{824} + a_{864} - 2a_{884} - \\
& a_{898} + a_{900} + a_{915} + a_{922} \\
a_{1202} &= \frac{a_{690} + \sqrt{a_{690}^2 - 4x}}{2} \\
x &= 2a_{117} + a_{67} - 2a_{181} + a_{184} - a_{195} + a_{225} - \\
& a_{440} + a_{447} + a_{453} + a_{456} + a_{459} - 2a_{501} - \\
& a_{259} + a_{271} + a_{301} - a_{703} - a_{709} - a_{712} - \\
& a_{715} + a_{731} - a_{737} + a_{739} + 2a_{758} + a_{771} + \\
& 2a_{776} + 2a_{778} + a_{782} - a_{783} + a_{796} + a_{799} + \\
& a_{804} - a_{813} - a_{824} + 2a_{825} + a_{865} - 2a_{885} - \\
& a_{899} + a_{901} + a_{916} + a_{923} \\
a_{1203} &= \frac{a_{691} - \sqrt{a_{691}^2 - 4x}}{2} \\
x &= 2a_{118} + a_{68} - 2a_{182} + a_{185} - a_{196} + a_{226} - \\
& a_{441} + a_{448} + a_{454} + a_{457} + a_{460} - 2a_{502} - \\
& a_{260} + a_{272} + a_{302} - a_{704} - a_{710} - a_{713} - \\
& a_{716} + a_{732} - a_{738} + a_{740} + 2a_{759} + a_{772} + \\
& 2a_{777} + 2a_{779} + a_{783} - a_{784} + a_{797} + a_{800} + \\
& a_{805} - a_{814} - a_{825} + 2a_{826} + a_{866} - 2a_{886} - \\
& a_{900} + a_{902} + a_{917} + a_{924} \\
a_{1204} &= \frac{a_{692} + \sqrt{a_{692}^2 - 4x}}{2} \\
x &= 2a_{119} + a_{69} - 2a_{183} + a_{186} - a_{197} + a_{227} - \\
& a_{442} + a_{449} + a_{455} + a_{458} + a_{461} - 2a_{503} - \\
& a_{261} + a_{273} + a_{303} - a_{705} - a_{711} - a_{714} - \\
& a_{717} + a_{733} - a_{739} + a_{741} + 2a_{760} + a_{773} + \\
& 2a_{778} + 2a_{780} + a_{784} - a_{785} + a_{798} + a_{801} + \\
& a_{806} - a_{815} - a_{826} + 2a_{827} + a_{867} - 2a_{887} - \\
& a_{901} + a_{903} + a_{918} + a_{925} \\
a_{1205} &= \frac{a_{693} - \sqrt{a_{693}^2 - 4x}}{2} \\
x &= 2a_{120} + a_{70} - 2a_{184} + a_{187} - a_{198} + a_{228} - \\
& a_{443} + a_{450} + a_{456} + a_{459} + a_{462} - 2a_{504} - \\
& a_{262} + a_{274} + a_{304} - a_{706} - a_{712} - a_{715} - \\
& a_{718} + a_{734} - a_{740} + a_{742} + 2a_{761} + a_{774} + \\
& 2a_{779} + 2a_{781} + a_{785} - a_{786} + a_{799} + a_{802} + \\
& a_{807} - a_{816} - a_{827} + 2a_{828} + a_{868} - 2a_{888} - \\
& a_{902} + a_{904} + a_{919} + a_{926} \\
a_{1206} &= \frac{a_{694} + \sqrt{a_{694}^2 - 4x}}{2} \\
x &= 2a_{121} + a_{71} - 2a_{185} + a_{188} - a_{199} + a_{229} - \\
& a_{444} + a_{451} + a_{457} + a_{460} + a_{463} - 2a_{505} - \\
& a_{263} + a_{275} + a_{305} - a_{707} - a_{713} - a_{716} - \\
& a_{719} + a_{735} - a_{741} + a_{743} + 2a_{762} + a_{775} + \\
& 2a_{780} + 2a_{782} + a_{786} - a_{787} + a_{800} + a_{803} + \\
& a_{808} - a_{817} - a_{828} + 2a_{829} + a_{869} - 2a_{889} - \\
& a_{903} + a_{905} + a_{920} + a_{927} \\
a_{1207} &= \frac{a_{695} + \sqrt{a_{695}^2 - 4x}}{2} \\
x &= 2a_{122} + a_{72} - 2a_{186} + a_{189} - a_{200} + a_{230} - \\
& a_{445} + a_{452} + a_{458} + a_{461} + a_{464} - 2a_{506} - \\
& a_{264} + a_{276} + a_{306} - a_{708} - a_{714} - a_{717} - \\
& a_{720} + a_{736} - a_{742} + a_{744} + 2a_{763} + a_{776} + \\
& 2a_{781} + 2a_{783} + a_{787} - a_{788} + a_{801} + a_{804} + \\
& a_{809} - a_{818} - a_{829} + 2a_{830} + a_{870} - 2a_{890} - \\
& a_{904} + a_{906} + a_{921} + a_{928} \\
a_{1208} &= \frac{a_{696} + \sqrt{a_{696}^2 - 4x}}{2} \\
x &= 2a_{123} + a_{73} - 2a_{187} + a_{190} - a_{201} + a_{231} - \\
& a_{446} + a_{453} + a_{459} + a_{462} + a_{465} - 2a_{507} - \\
& a_{265} + a_{277} + a_{307} - a_{709} - a_{715} - a_{718} - \\
& a_{721} + a_{737} - a_{743} + a_{745} + 2a_{764} + a_{777} + \\
& 2a_{782} + 2a_{784} + a_{788} - a_{789} + a_{802} + a_{805} + \\
& a_{810} - a_{819} - a_{830} + 2a_{831} + a_{871} - 2a_{891} - \\
& a_{905} + a_{907} + a_{922} + a_{929} \\
a_{1209} &= \frac{a_{697} - \sqrt{a_{697}^2 - 4x}}{2} \\
x &= 2a_{124} + a_{74} - 2a_{188} + a_{191} - a_{202} + a_{232} - \\
& a_{447} + a_{454} + a_{460} + a_{463} + a_{466} - 2a_{508} -
\end{aligned}
$$

$$
\begin{aligned}
& a_{266} + a_{278} + a_{308} - a_{710} - a_{716} - a_{719} - \\
& a_{722} + a_{738} - a_{744} + a_{746} + 2a_{765} + a_{778} + \\
& 2a_{783} + 2a_{785} + a_{789} - a_{790} + a_{803} + a_{806} + \\
& a_{811} - a_{820} - a_{831} + 2a_{832} + a_{872} - 2a_{892} - \\
& a_{906} + a_{908} + a_{923} + a_{930}
\end{aligned}
$$

$$
\begin{aligned}
a_{1210} &= \frac{a_{698} - \sqrt{a_{698}^2 - 4x}}{2} \\
x &= 2a_{125} + a_{75} - 2a_{189} + a_{192} - a_{203} + a_{233} - \\
& a_{448} + a_{455} + a_{461} + a_{464} + a_{467} - 2a_{509} - \\
& a_{267} + a_{279} + a_{309} - a_{711} - a_{717} - a_{720} - \\
& a_{723} + a_{739} - a_{745} + a_{747} + 2a_{766} + a_{779} + \\
& 2a_{784} + 2a_{786} + a_{790} - a_{791} + a_{804} + a_{807} + \\
& a_{812} - a_{821} - a_{832} + 2a_{833} + a_{873} - 2a_{893} - \\
& a_{907} + a_{909} + a_{924} + a_{931} \\
a_{1211} &= \frac{a_{699} - \sqrt{a_{699}^2 - 4x}}{2} \\
x &= 2a_{126} + a_{76} - 2a_{190} + a_{193} - a_{204} + a_{234} - \\
& a_{449} + a_{456} + a_{462} + a_{465} + a_{468} - 2a_{510} - \\
& a_{268} + a_{280} + a_{310} - a_{712} - a_{718} - a_{721} - \\
& a_{724} + a_{740} - a_{746} + a_{748} + 2a_{767} + a_{780} + \\
& 2a_{785} + 2a_{787} + a_{791} - a_{792} + a_{805} + a_{808} + \\
& a_{813} - a_{822} - a_{833} + 2a_{834} + a_{874} - 2a_{894} - \\
& a_{908} + a_{910} + a_{925} + a_{932} \\
a_{1212} &= \frac{a_{700} + \sqrt{a_{700}^2 - 4x}}{2} \\
x &= 2a_{63} + a_{77} - 2a_{191} + a_{194} - a_{205} + a_{235} - \\
& a_{450} + a_{457} + a_{463} + a_{466} + a_{469} - 2a_{255} - \\
& a_{269} + a_{281} + a_{311} - a_{713} - a_{719} - a_{722} - \\
& a_{725} + a_{741} - a_{747} + a_{749} + 2a_{768} + a_{781} + \\
& 2a_{786} + 2a_{788} + a_{792} - a_{793} + a_{806} + a_{809} + \\
& a_{814} - a_{823} - a_{834} + 2a_{835} + a_{875} - 2a_{895} - \\
& a_{909} + a_{911} + a_{926} + a_{933} \\
a_{1213} &= \frac{a_{701} - \sqrt{a_{701}^2 - 4x}}{2} \\
x &= 2a_{64} + a_{78} - 2a_{192} + a_{195} - a_{206} + a_{236} - \\
& a_{451} + a_{458} + a_{464} + a_{467} + a_{470} - 2a_{256} - \\
& a_{270} + a_{282} + a_{312} - a_{714} - a_{720} - a_{723} - \\
& a_{726} + a_{742} - a_{748} + a_{750} + 2a_{769} + a_{782} + \\
& 2a_{787} + 2a_{789} + a_{793} - a_{794} + a_{807} + a_{810} + \\
& a_{815} - a_{824} - a_{835} + 2a_{836} + a_{876} - 2a_{896} - \\
& a_{910} + a_{912} + a_{927} + a_{934} \\
a_{1214} &= \frac{a_{702} + \sqrt{a_{702}^2 - 4x}}{2} \\
x &= 2a_{65} + a_{79} - 2a_{193} + a_{196} - a_{207} + a_{237} - \\
& a_{452} + a_{459} + a_{465} + a_{468} + a_{471} - 2a_{257} - \\
& a_{271} + a_{283} + a_{313} - a_{715} - a_{721} - a_{724} - \\
& a_{727} + a_{743} - a_{749} + a_{751} + 2a_{770} + a_{783} + \\
& 2a_{788} + 2a_{790} + a_{794} - a_{795} + a_{808} + a_{811} + \\
& a_{816} - a_{825} - a_{836} + 2a_{837} + a_{877} - 2a_{897} - \\
& a_{911} + a_{913} + a_{928} + a_{935} \\
a_{1215} &= \frac{a_{703} - \sqrt{a_{703}^2 - 4x}}{2} \\
x &= 2a_{66} + a_{80} - 2a_{194} + a_{197} - a_{208} + a_{238} - \\
& a_{453} + a_{460} + a_{466} + a_{469} + a_{472} - 2a_{258} - \\
& a_{272} + a_{284} + a_{314} - a_{716} - a_{722} - a_{725} - \\
& a_{728} + a_{744} - a_{750} + a_{752} + 2a_{771} + a_{784} + \\
& 2a_{789} + 2a_{791} + a_{795} - a_{796} + a_{809} + a_{812} + \\
& a_{817} - a_{826} - a_{837} + 2a_{838} + a_{878} - 2a_{898} - \\
& a_{912} + a_{914} + a_{929} + a_{936} \\
a_{1216} &= \frac{a_{704} + \sqrt{a_{704}^2 - 4x}}{2} \\
x &= 2a_{67} + a_{81} - 2a_{195} + a_{198} - a_{209} + a_{239} - \\
& a_{454} + a_{461} + a_{467} + a_{470} + a_{473} - 2a_{259} - \\
& a_{273} + a_{285} + a_{315} - a_{717} - a_{723} - a_{726} - \\
& a_{729} + a_{745} - a_{751} + a_{753} + 2a_{772} + a_{785} + \\
& 2a_{790} + 2a_{792} + a_{796} - a_{797} + a_{810} + a_{813} + \\
& a_{818} - a_{827} - a_{838} + 2a_{839} + a_{879} - 2a_{899} - \\
& a_{913} + a_{915} + a_{930} + a_{937} \\
a_{1217} &= \frac{a_{705} - \sqrt{a_{705}^2 - 4x}}{2} \\
x &= 2a_{69} + a_{83} - 2a_{197} + a_{200} - a_{211} + a_{241} - \\
& a_{456} + a_{463} + a_{469} + a_{472} + a_{475} - 2a_{261} - \\
& a_{275} + a_{287} + a_{317} - a_{719} - a_{725} - a_{728} - \\
& a_{731} + a_{747} - a_{753} + a_{755} + 2a_{774} + a_{787} + \\
& 2a_{792} + 2a_{794} + a_{798} - a_{799} + a_{812} + a_{815} + \\
& a_{820} - a_{829} - a_{840} + 2a_{841} + a_{881} - 2a_{901} - \\
& a_{915} + a_{917} + a_{932} + a_{939} \\
a_{1219} &= \frac{a_{707} - \sqrt{a_{707}^2 - 4x}}{2} \\
x &= 2a_{70} + a_{84} - 2a_{198} + a_{201} - a_{212} + a_{242} - \\
& a_{457} + a_{464} + a_{470} + a_{473} + a_{476} - 2a_{262} - \\
& a_{276} + a_{288} + a_{318} - a_{720} - a_{726} - a_{729} - \\
& a_{732} + a_{748} - a_{754} + a_{756} + 2a_{775} + a_{788} + \\
& 2a_{793} + 2a_{795} + a_{799} - a_{800} + a_{813} + a_{816} + \\
& a_{821} - a_{830} - a_{841} + 2a_{842} + a_{882} - 2a_{902} - \\
& a_{916} + a_{918} + a_{933} + a_{940} \\
a_{1220} &= \frac{a_{708} + \sqrt{a_{708}^2 - 4x}}{2} \\
x &= 2a_{71} + a_{85} - 2a_{199} + a_{202} - a_{213} + a_{243} - \\
& a_{458} + a_{465} + a_{471} + a_{474} + a_{477} - 2a_{263} - \\
& a_{277} + a_{289} + a_{319} - a_{721} - a_{727} - a_{730} - \\
& a_{733} + a_{749} - a_{755} + a_{757} + 2a_{776} + a_{789} + \\
& 2a_{794} + 2a_{796} + a_{800} - a_{801} + a_{814} + a_{817} + \\
& a_{822} - a_{831} - a_{842} + 2a_{843} + a_{883} - 2a_{903} - \\
& a_{917} + a_{919} + a_{934} + a_{941} \\
a_{1221} &= \frac{a_{709} - \sqrt{a_{709}^2 - 4x}}{2} \\
x &= 2a_{73} + a_{87} - 2a_{201} + a_{204} - a_{215} + a_{245} -
\end{aligned}
$$

$$
\begin{aligned}
& a_{460} + a_{467} + a_{473} + a_{476} + a_{479} - 2a_{265} - \\
& a_{279} + a_{291} + a_{321} - a_{723} - a_{729} - a_{732} - \\
& a_{735} + a_{751} - a_{757} + a_{759} + 2a_{778} + a_{791} + \\
& 2a_{796} + 2a_{798} + a_{802} - a_{803} + a_{816} + a_{819} + \\
& a_{824} - a_{833} - a_{844} + 2a_{845} + a_{885} - 2a_{905} - \\
& a_{919} + a_{921} + a_{936} + a_{943} \\
a_{1223} &= \frac{a_{711} + \sqrt{a_{711}^2 - 4x}}{2} \\
x &= 2a_{74} + a_{88} - 2a_{202} + a_{205} - a_{216} + a_{246} - \\
& a_{461} + a_{468} + a_{474} + a_{477} + a_{480} - 2a_{266} - \\
& a_{280} + a_{292} + a_{322} - a_{724} - a_{730} - a_{733} - \\
& a_{736} + a_{752} - a_{758} + a_{760} + 2a_{779} + a_{792} + \\
& 2a_{797} + 2a_{799} + a_{803} - a_{804} + a_{817} + a_{820} + \\
& a_{825} - a_{834} - a_{845} + 2a_{846} + a_{886} - 2a_{906} - \\
& a_{920} + a_{922} + a_{937} + a_{944} \\
a_{1224} &= \frac{a_{712} + \sqrt{a_{712}^2 - 4x}}{2} \\
x &= 2a_{75} + a_{89} - 2a_{203} + a_{206} - a_{217} + a_{247} - \\
& a_{462} + a_{469} + a_{475} + a_{478} + a_{481} - 2a_{267} - \\
& a_{281} + a_{293} + a_{323} - a_{725} - a_{731} - a_{734} - \\
& a_{737} + a_{753} - a_{759} + a_{761} + 2a_{780} + a_{793} + \\
& 2a_{798} + 2a_{800} + a_{804} - a_{805} + a_{818} + a_{821} + \\
& a_{826} - a_{835} - a_{846} + 2a_{847} + a_{887} - 2a_{907} - \\
& a_{921} + a_{923} + a_{938} + a_{945} \\
a_{1225} &= \frac{a_{713} - \sqrt{a_{713}^2 - 4x}}{2} \\
x &= 2a_{76} + a_{90} - 2a_{204} + a_{207} - a_{218} + a_{248} - \\
& a_{463} + a_{470} + a_{476} + a_{479} + a_{482} - 2a_{268} - \\
& a_{282} + a_{294} + a_{324} - a_{726} - a_{732} - a_{735} - \\
& a_{738} + a_{754} - a_{760} + a_{762} + 2a_{781} + a_{794} + \\
& 2a_{799} + 2a_{801} + a_{805} - a_{806} + a_{819} + a_{822} + \\
& a_{827} - a_{836} - a_{847} + 2a_{848} + a_{888} - 2a_{908} - \\
& a_{922} + a_{924} + a_{939} + a_{946} \\
a_{1226} &= \frac{a_{714} - \sqrt{a_{714}^2 - 4x}}{2} \\
x &= 2a_{77} + a_{91} - 2a_{205} + a_{208} - a_{219} + a_{249} - \\
& a_{464} + a_{471} + a_{477} + a_{480} + a_{483} - 2a_{269} - \\
& a_{283} + a_{295} + a_{325} - a_{727} - a_{733} - a_{736} - \\
& a_{739} + a_{755} - a_{761} + a_{763} + 2a_{782} + a_{795} + \\
& 2a_{800} + 2a_{802} + a_{806} - a_{807} + a_{820} + a_{823} + \\
& a_{828} - a_{837} - a_{848} + 2a_{849} + a_{889} - 2a_{909} - \\
& a_{923} + a_{925} + a_{940} + a_{947} \\
a_{1227} &= \frac{a_{715} - \sqrt{a_{715}^2 - 4x}}{2} \\
x &= 2a_{78} + a_{92} - 2a_{206} + a_{209} - a_{220} + a_{250} - \\
& a_{465} + a_{472} + a_{478} + a_{481} + a_{484} - 2a_{270} - \\
& a_{284} + a_{296} + a_{326} - a_{728} - a_{734} - a_{737} - \\
& a_{740} + a_{756} - a_{762} + a_{764} + 2a_{783} + a_{796} + \\
& 2a_{801} + 2a_{803} + a_{807} - a_{808} + a_{821} + a_{824} + \\
& a_{829} - a_{838} - a_{849} + 2a_{850} + a_{890} - 2a_{910} - \\
& a_{924} + a_{926} + a_{941} + a_{948} \\
a_{1228} &= \frac{a_{716} + \sqrt{a_{716}^2 - 4x}}{2} \\
x &= 2a_{79} + a_{93} - 2a_{207} + a_{210} - a_{221} + a_{251} - \\
& a_{466} + a_{473} + a_{479} + a_{482} + a_{485} - 2a_{271} - \\
& a_{285} + a_{297} + a_{327} - a_{729} - a_{735} - a_{738} - \\
& a_{741} + a_{757} - a_{763} + a_{765} + 2a_{784} + a_{797} + \\
& 2a_{802} + 2a_{804} + a_{808} - a_{809} + a_{822} + a_{825} + \\
& a_{830} - a_{839} - a_{850} + 2a_{851} + a_{891} - 2a_{911} - \\
& a_{925} + a_{927} + a_{942} + a_{949} \\
a_{1229} &= \frac{a_{717} - \sqrt{a_{717}^2 - 4x}}{2} \\
x &= 2a_{80} + a_{94} - 2a_{208} + a_{211} - a_{222} + a_{252} - \\
& a_{467} + a_{474} + a_{480} + a_{483} + a_{486} - 2a_{272} - \\
& a_{286} + a_{298} + a_{328} - a_{730} - a_{736} - a_{739} - \\
& a_{742} + a_{758} - a_{764} + a_{766} + 2a_{785} + a_{798} + \\
& 2a_{803} + 2a_{805} + a_{809} - a_{810} + a_{823} + a_{826} + \\
& a_{831} - a_{840} - a_{851} + 2a_{852} + a_{892} - 2a_{912} - \\
& a_{926} + a_{928} + a_{943} + a_{950} \\
a_{1230} &= \frac{a_{718} - \sqrt{a_{718}^2 - 4x}}{2} \\
x &= 2a_{81} + a_{95} - 2a_{209} + a_{212} - a_{223} + a_{253} - \\
& a_{468} + a_{475} + a_{481} + a_{484} + a_{487} - 2a_{273} - \\
& a_{287} + a_{299} + a_{329} - a_{731} - a_{737} - a_{740} - \\
& a_{743} + a_{759} - a_{765} + a_{767} + 2a_{786} + a_{799} + \\
& 2a_{804} + 2a_{806} + a_{810} - a_{811} + a_{824} + a_{827} + \\
& a_{832} - a_{841} - a_{852} + 2a_{853} + a_{893} - 2a_{913} - \\
& a_{927} + a_{929} + a_{944} + a_{951} \\
a_{1231} &= \frac{a_{719} + \sqrt{a_{719}^2 - 4x}}{2} \\
x &= 2a_{82} + a_{96} - 2a_{210} + a_{213} - a_{224} + a_{254} - \\
& a_{469} + a_{476} + a_{482} + a_{485} + a_{488} - 2a_{274} - \\
& a_{288} + a_{300} + a_{330} - a_{732} - a_{738} - a_{741} - \\
& a_{744} + a_{760} - a_{766} + a_{768} + 2a_{787} + a_{800} + \\
& 2a_{805} + 2a_{807} + a_{811} - a_{812} + a_{825} + a_{828} + \\
& a_{833} - a_{842} - a_{853} + 2a_{854} + a_{894} - 2a_{914} - \\
& a_{928} + a_{930} + a_{945} + a_{952} \\
a_{1232} &= \frac{a_{720} + \sqrt{a_{720}^2 - 4x}}{2} \\
x &= 2a_{83} + a_{97} - 2a_{211} + a_{214} - a_{225} + a_{127} - \\
& a_{470} + a_{477} + a_{483} + a_{486} + a_{489} - 2a_{275} - \\
& a_{289} + a_{301} + a_{331} - a_{733} - a_{739} - a_{742} - \\
& a_{745} + a_{761} - a_{767} + a_{769} + 2a_{788} + a_{801} + \\
& 2a_{806} + 2a_{808} + a_{812} - a_{813} + a_{826} + a_{829} + \\
& a_{834} - a_{843} - a_{854} + 2a_{855} + a_{895} - 2a_{915} - \\
& a_{929} + a_{931} + a_{946} + a_{953} \\
a_{1233} &= \frac{a_{721} + \sqrt{a_{721}^2 - 4x}}{2} \\
x &= 2a_{84} + a_{98} - 2a_{212} + a_{215} - a_{226} + a_{128} -
\end{aligned}
$$

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\begin{aligned}
& a_{471} + a_{478} + a_{484} + a_{487} + a_{490} - 2a_{276} - \\
& a_{290} + a_{302} + a_{332} - a_{734} - a_{740} - a_{743} - \\
& a_{746} + a_{762} - a_{768} + a_{770} + 2a_{789} + a_{802} + \\
& 2a_{807} + 2a_{809} + a_{813} - a_{814} + a_{827} + a_{830} + \\
& a_{835} - a_{844} - a_{855} + 2a_{856} + a_{896} - 2a_{916} - \\
& a_{930} + a_{932} + a_{947} + a_{954} \\
a_{1234} &= \frac{a_{722} - \sqrt{a_{722}^2 - 4x}}{2} \\
x &= 2a_{85} + a_{99} - 2a_{213} + a_{216} - a_{227} + a_{129} - \\
& a_{472} + a_{479} + a_{485} + a_{488} + a_{491} - 2a_{277} - \\
& a_{291} + a_{303} + a_{333} - a_{735} - a_{741} - a_{744} - \\
& a_{747} + a_{763} - a_{769} + a_{771} + 2a_{790} + a_{803} + \\
& 2a_{808} + 2a_{810} + a_{814} - a_{815} + a_{828} + a_{831} + \\
& a_{836} - a_{845} - a_{856} + 2a_{857} + a_{897} - 2a_{917} - \\
& a_{931} + a_{933} + a_{948} + a_{955} \\
a_{1235} &= \frac{a_{723} - \sqrt{a_{723}^2 - 4x}}{2} \\
x &= 2a_{88} + a_{102} - 2a_{216} + a_{219} - a_{230} + a_{132} - \\
& a_{475} + a_{482} + a_{488} + a_{491} + a_{494} - 2a_{280} - \\
& a_{294} + a_{306} + a_{336} - a_{738} - a_{744} - a_{747} - \\
& a_{750} + a_{766} - a_{772} + a_{774} + 2a_{793} + a_{806} + \\
& 2a_{811} + 2a_{813} + a_{817} - a_{818} + a_{831} + a_{834} + \\
& a_{839} - a_{848} - a_{859} + 2a_{860} + a_{900} - 2a_{920} - \\
& a_{934} + a_{936} + a_{951} + a_{958} \\
a_{1238} &= \frac{a_{726} + \sqrt{a_{726}^2 - 4x}}{2} \\
x &= 2a_{89} + a_{103} - 2a_{217} + a_{220} - a_{231} + a_{133} - \\
& a_{476} + a_{483} + a_{489} + a_{492} + a_{495} - 2a_{281} - \\
& a_{295} + a_{307} + a_{337} - a_{739} - a_{745} - a_{748} - \\
& a_{751} + a_{767} - a_{773} + a_{775} + 2a_{794} + a_{807} + \\
& 2a_{812} + 2a_{814} + a_{818} - a_{819} + a_{832} + a_{835} + \\
& a_{840} - a_{849} - a_{860} + 2a_{861} + a_{901} - 2a_{921} - \\
& a_{935} + a_{937} + a_{952} + a_{959} \\
a_{1239} &= \frac{a_{727} - \sqrt{a_{727}^2 - 4x}}{2} \\
x &= 2a_{90} + a_{104} - 2a_{218} + a_{221} - a_{232} + a_{134} - \\
& a_{477} + a_{484} + a_{490} + a_{493} + a_{496} - 2a_{282} - \\
& a_{296} + a_{308} + a_{338} - a_{740} - a_{746} - a_{749} - \\
& a_{752} + a_{768} - a_{774} + a_{776} + 2a_{795} + a_{808} + \\
& 2a_{813} + 2a_{815} + a_{819} - a_{820} + a_{833} + a_{836} + \\
& a_{841} - a_{850} - a_{861} + 2a_{862} + a_{902} - 2a_{922} - \\
& a_{936} + a_{938} + a_{953} + a_{960} \\
a_{1240} &= \frac{a_{728} + \sqrt{a_{728}^2 - 4x}}{2} \\
x &= 2a_{91} + a_{105} - 2a_{219} + a_{222} - a_{233} + a_{135} - \\
& a_{478} + a_{485} + a_{491} + a_{494} + a_{497} - 2a_{283} - \\
& a_{297} + a_{309} + a_{339} - a_{741} - a_{747} - a_{750} - \\
& a_{753} + a_{769} - a_{775} + a_{777} + 2a_{796} + a_{809} + \\
& 2a_{814} + 2a_{816} + a_{820} - a_{821} + a_{834} + a_{837} + \\
& a_{842} - a_{851} - a_{862} + 2a_{863} + a_{903} - 2a_{923} - \\
& a_{937} + a_{939} + a_{954} + a_{961} \\
a_{1241} &= \frac{a_{729} - \sqrt{a_{729}^2 - 4x}}{2} \\
x &= 2a_{92} + a_{106} - 2a_{220} + a_{223} - a_{234} + a_{136} - \\
& a_{479} + a_{486} + a_{492} + a_{495} + a_{498} - 2a_{284} - \\
& a_{298} + a_{310} + a_{340} - a_{742} - a_{748} - a_{751} - \\
& a_{754} + a_{770} - a_{776} + a_{778} + 2a_{797} + a_{810} + \\
& 2a_{815} + 2a_{817} + a_{821} - a_{822} + a_{835} + a_{838} + \\
& a_{843} - a_{852} - a_{863} + 2a_{864} + a_{904} - 2a_{924} - \\
& a_{938} + a_{940} + a_{955} + a_{962} \\
a_{1242} &= \frac{a_{730} + \sqrt{a_{730}^2 - 4x}}{2} \\
x &= 2a_{93} + a_{107} - 2a_{221} + a_{224} - a_{235} + a_{137} - \\
& a_{480} + a_{487} + a_{493} + a_{496} + a_{499} - 2a_{285} - \\
& a_{299} + a_{311} + a_{341} - a_{743} - a_{749} - a_{752} - \\
& a_{755} + a_{771} - a_{777} + a_{779} + 2a_{798} + a_{811} + \\
& 2a_{816} + 2a_{818} + a_{822} - a_{823} + a_{836} + a_{839} + \\
& a_{844} - a_{853} - a_{864} + 2a_{865} + a_{905} - 2a_{925} - \\
& a_{939} + a_{941} + a_{956} + a_{963} \\
a_{1243} &= \frac{a_{731} + \sqrt{a_{731}^2 - 4x}}{2} \\
x &= 2a_{94} + a_{108} - 2a_{222} + a_{225} - a_{236} + a_{138} - \\
& a_{481} + a_{488} + a_{494} + a_{497} + a_{500} - 2a_{286} - \\
& a_{300} + a_{312} + a_{342} - a_{744} - a_{750} - a_{753} - \\
& a_{756} + a_{772} - a_{778} + a_{780} + 2a_{799} + a_{812} + \\
& 2a_{817} + 2a_{819} + a_{823} - a_{824} + a_{837} + a_{840} + \\
& a_{845} - a_{854} - a_{865} + 2a_{866} + a_{906} - 2a_{926} - \\
& a_{940} + a_{942} + a_{957} + a_{964} \\
a_{1244} &= \frac{a_{732} - \sqrt{a_{732}^2 - 4x}}{2} \\
x &= 2a_{95} + a_{109} - 2a_{223} + a_{226} - a_{237} + a_{139} - \\
& a_{482} + a_{489} + a_{495} + a_{498} + a_{501} - 2a_{287} - \\
& a_{301} + a_{313} + a_{343} - a_{745} - a_{751} - a_{754} - \\
& a_{757} + a_{773} - a_{779} + a_{781} + 2a_{800} + a_{813} + \\
& 2a_{818} + 2a_{820} + a_{824} - a_{825} + a_{838} + a_{841} + \\
& a_{846} - a_{855} - a_{866} + 2a_{867} + a_{907} - 2a_{927} - \\
& a_{941} + a_{943} + a_{958} + a_{965} \\
a_{1245} &= \frac{a_{733} - \sqrt{a_{733}^2 - 4x}}{2} \\
x &= 2a_{96} + a_{110} - 2a_{224} + a_{227} - a_{238} + a_{140} - \\
& a_{483} + a_{490} + a_{496} + a_{499} + a_{502} - 2a_{288} - \\
& a_{302} + a_{314} + a_{344} - a_{746} - a_{752} - a_{755} - \\
& a_{758} + a_{774} - a_{780} + a_{782} + 2a_{801} + a_{814} + \\
& 2a_{819} + 2a_{821} + a_{825} - a_{826} + a_{839} + a_{842} + \\
& a_{847} - a_{856} - a_{867} + 2a_{868} + a_{908} - 2a_{928} - \\
& a_{942} + a_{944} + a_{959} + a_{966} \\
a_{1246} &= \frac{a_{734} + \sqrt{a_{734}^2 - 4x}}{2} \\
x &= 2a_{97} + a_{111} - 2a_{225} + a_{228} - a_{239} + a_{141} -
\end{aligned}
$$

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\begin{aligned}
& a_{484} + a_{491} + a_{497} + a_{500} + a_{503} - 2a_{289} - \\
& a_{303} + a_{315} + a_{345} - a_{747} - a_{753} - a_{756} - \\
& a_{759} + a_{775} - a_{781} + a_{783} + 2a_{802} + a_{815} + \\
& 2a_{820} + 2a_{822} + a_{826} - a_{827} + a_{840} + a_{843} + \\
& a_{848} - a_{857} - a_{868} + 2a_{869} + a_{909} - 2a_{929} - \\
& a_{943} + a_{945} + a_{960} + a_{967} \\
a_{1247} &= \frac{a_{735} + \sqrt{a_{735}^2 - 4x}}{2} \\
x &= 2a_{99} + a_{113} - 2a_{227} + a_{230} - a_{241} + a_{143} - \\
& a_{486} + a_{493} + a_{499} + a_{502} + a_{505} - 2a_{291} - \\
& a_{305} + a_{317} + a_{347} - a_{749} - a_{755} - a_{758} - \\
& a_{761} + a_{777} - a_{783} + a_{785} + 2a_{804} + a_{817} + \\
& 2a_{822} + 2a_{824} + a_{828} - a_{829} + a_{842} + a_{845} + \\
& a_{850} - a_{859} - a_{870} + 2a_{871} + a_{911} - 2a_{931} - \\
& a_{945} + a_{947} + a_{962} + a_{969} \\
a_{1249} &= \frac{a_{737} - \sqrt{a_{737}^2 - 4x}}{2} \\
x &= 2a_{100} + a_{114} - 2a_{228} + a_{231} - a_{242} + a_{144} - \\
& a_{487} + a_{494} + a_{500} + a_{503} + a_{506} - 2a_{292} - \\
& a_{306} + a_{318} + a_{348} - a_{750} - a_{756} - a_{759} - \\
& a_{762} + a_{778} - a_{784} + a_{786} + 2a_{805} + a_{818} + \\
& 2a_{823} + 2a_{825} + a_{829} - a_{830} + a_{843} + a_{846} + \\
& a_{851} - a_{860} - a_{871} + 2a_{872} + a_{912} - 2a_{932} - \\
& a_{946} + a_{948} + a_{963} + a_{970} \\
a_{1250} &= \frac{a_{738} - \sqrt{a_{738}^2 - 4x}}{2} \\
x &= 2a_{101} + a_{115} - 2a_{229} + a_{232} - a_{243} + a_{145} - \\
& a_{488} + a_{495} + a_{501} + a_{504} + a_{507} - 2a_{293} - \\
& a_{307} + a_{319} + a_{349} - a_{751} - a_{757} - a_{760} - \\
& a_{763} + a_{779} - a_{785} + a_{787} + 2a_{806} + a_{819} + \\
& 2a_{824} + 2a_{826} + a_{830} - a_{831} + a_{844} + a_{847} + \\
& a_{852} - a_{861} - a_{872} + 2a_{873} + a_{913} - 2a_{933} - \\
& a_{947} + a_{949} + a_{964} + a_{971} \\
a_{1251} &= \frac{a_{739} - \sqrt{a_{739}^2 - 4x}}{2} \\
x &= 2a_{102} + a_{116} - 2a_{230} + a_{233} - a_{244} + a_{146} - \\
& a_{489} + a_{496} + a_{502} + a_{505} + a_{508} - 2a_{294} - \\
& a_{308} + a_{320} + a_{350} - a_{752} - a_{758} - a_{761} - \\
& a_{764} + a_{780} - a_{786} + a_{788} + 2a_{807} + a_{820} + \\
& 2a_{825} + 2a_{827} + a_{831} - a_{832} + a_{845} + a_{848} + \\
& a_{853} - a_{862} - a_{873} + 2a_{874} + a_{914} - 2a_{934} - \\
& a_{948} + a_{950} + a_{965} + a_{972} \\
a_{1252} &= \frac{a_{740} + \sqrt{a_{740}^2 - 4x}}{2} \\
x &= 2a_{103} + a_{117} - 2a_{231} + a_{234} - a_{245} + a_{147} - \\
& a_{490} + a_{497} + a_{503} + a_{506} + a_{509} - 2a_{295} - \\
& a_{309} + a_{321} + a_{351} - a_{753} - a_{759} - a_{762} - \\
& a_{765} + a_{781} - a_{787} + a_{789} + 2a_{808} + a_{821} + \\
& 2a_{826} + 2a_{828} + a_{832} - a_{833} + a_{846} + a_{849} + \\
& a_{854} - a_{863} - a_{874} + 2a_{875} + a_{915} - 2a_{935} - \\
& a_{949} + a_{951} + a_{966} + a_{973} \\
a_{1253} &= \frac{a_{741} + \sqrt{a_{741}^2 - 4x}}{2} \\
x &= 2a_{106} + a_{120} - 2a_{234} + a_{237} - a_{248} + a_{150} - \\
& a_{493} + a_{500} + a_{506} + a_{509} + a_{256} - 2a_{298} - \\
& a_{312} + a_{324} + a_{354} - a_{756} - a_{762} - a_{765} - \\
& a_{768} + a_{784} - a_{790} + a_{792} + 2a_{811} + a_{824} + \\
& 2a_{829} + 2a_{831} + a_{835} - a_{836} + a_{849} + a_{852} + \\
& a_{857} - a_{866} - a_{877} + 2a_{878} + a_{918} - 2a_{938} - \\
& a_{952} + a_{954} + a_{969} + a_{976} \\
a_{1256} &= \frac{a_{744} - \sqrt{a_{744}^2 - 4x}}{2} \\
x &= 2a_{107} + a_{121} - 2a_{235} + a_{238} - a_{249} + a_{151} - \\
& a_{494} + a_{501} + a_{507} + a_{510} + a_{257} - 2a_{299} - \\
& a_{313} + a_{325} + a_{355} - a_{757} - a_{763} - a_{766} - \\
& a_{769} + a_{785} - a_{791} + a_{793} + 2a_{812} + a_{825} + \\
& 2a_{830} + 2a_{832} + a_{836} - a_{837} + a_{850} + a_{853} + \\
& a_{858} - a_{867} - a_{878} + 2a_{879} + a_{919} - 2a_{939} - \\
& a_{953} + a_{955} + a_{970} + a_{977} \\
a_{1257} &= \frac{a_{745} - \sqrt{a_{745}^2 - 4x}}{2} \\
x &= 2a_{108} + a_{122} - 2a_{236} + a_{239} - a_{250} + a_{152} - \\
& a_{495} + a_{502} + a_{508} + a_{255} + a_{258} - 2a_{300} - \\
& a_{314} + a_{326} + a_{356} - a_{758} - a_{764} - a_{767} - \\
& a_{770} + a_{786} - a_{792} + a_{794} + 2a_{813} + a_{826} + \\
& 2a_{831} + 2a_{833} + a_{837} - a_{838} + a_{851} + a_{854} + \\
& a_{859} - a_{868} - a_{879} + 2a_{880} + a_{920} - 2a_{940} - \\
& a_{954} + a_{956} + a_{971} + a_{978} \\
a_{1258} &= \frac{a_{746} + \sqrt{a_{746}^2 - 4x}}{2} \\
x &= 2a_{109} + a_{123} - 2a_{237} + a_{240} - a_{251} + a_{153} - \\
& a_{496} + a_{503} + a_{509} + a_{256} + a_{259} - 2a_{301} - \\
& a_{315} + a_{327} + a_{357} - a_{759} - a_{765} - a_{768} - \\
& a_{771} + a_{787} - a_{793} + a_{795} + 2a_{814} + a_{827} + \\
& 2a_{832} + 2a_{834} + a_{838} - a_{839} + a_{852} + a_{855} + \\
& a_{860} - a_{869} - a_{880} + 2a_{881} + a_{921} - 2a_{941} - \\
& a_{955} + a_{957} + a_{972} + a_{979} \\
a_{1259} &= \frac{a_{747} - \sqrt{a_{747}^2 - 4x}}{2} \\
x &= 2a_{110} + a_{124} - 2a_{238} + a_{241} - a_{252} + a_{154} - \\
& a_{497} + a_{504} + a_{510} + a_{257} + a_{260} - 2a_{302} - \\
& a_{316} + a_{328} + a_{358} - a_{760} - a_{766} - a_{769} - \\
& a_{772} + a_{788} - a_{794} + a_{796} + 2a_{815} + a_{828} + \\
& 2a_{833} + 2a_{835} + a_{839} - a_{840} + a_{853} + a_{856} + \\
& a_{861} - a_{870} - a_{881} + 2a_{882} + a_{922} - 2a_{942} - \\
& a_{956} + a_{958} + a_{973} + a_{980} \\
a_{1260} &= \frac{a_{748} + \sqrt{a_{748}^2 - 4x}}{2} \\
x &= 2a_{111} + a_{125} - 2a_{239} + a_{242} - a_{253} + a_{155} -
\end{aligned}
$$

$$
\begin{aligned}
& a_{498} + a_{505} + a_{255} + a_{258} + a_{261} - 2a_{303} - \\
& a_{317} + a_{329} + a_{359} - a_{761} - a_{767} - a_{770} - \\
& a_{773} + a_{789} - a_{795} + a_{797} + 2a_{816} + a_{829} + \\
& 2a_{834} + 2a_{836} + a_{840} - a_{841} + a_{854} + a_{857} + \\
& a_{862} - a_{871} - a_{882} + 2a_{883} + a_{923} - 2a_{943} - \\
& a_{957} + a_{959} + a_{974} + a_{981}
\end{aligned}
$$

$$
a_{1261} = \frac{a_{749} - \sqrt{a_{749}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & 2a_{112} + a_{126} - 2a_{240} + a_{243} - a_{254} + a_{156} - \\
& a_{499} + a_{506} + a_{256} + a_{259} + a_{262} - 2a_{304} - \\
& a_{318} + a_{330} + a_{360} - a_{762} - a_{768} - a_{771} - \\
& a_{774} + a_{790} - a_{796} + a_{798} + 2a_{817} + a_{830} + \\
& 2a_{835} + 2a_{837} + a_{841} - a_{842} + a_{855} + a_{858} + \\
& a_{863} - a_{872} - a_{883} + 2a_{884} + a_{924} - 2a_{944} - \\
& a_{958} + a_{960} + a_{975} + a_{982}
\end{aligned}
$$

$$
a_{1262} = \frac{a_{750} + \sqrt{a_{750}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & 2a_{113} + a_{63} - 2a_{241} + a_{244} - a_{127} + a_{157} - \\
& a_{500} + a_{507} + a_{257} + a_{260} + a_{263} - 2a_{305} - \\
& a_{319} + a_{331} + a_{361} - a_{763} - a_{769} - a_{772} - \\
& a_{775} + a_{791} - a_{797} + a_{799} + 2a_{818} + a_{831} + \\
& 2a_{836} + 2a_{838} + a_{842} - a_{843} + a_{856} + a_{859} + \\
& a_{864} - a_{873} - a_{884} + 2a_{885} + a_{925} - 2a_{945} - \\
& a_{959} + a_{961} + a_{976} + a_{983}
\end{aligned}
$$

$$
a_{1263} = \frac{a_{751} + \sqrt{a_{751}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & 2a_{114} + a_{64} - 2a_{242} + a_{245} - a_{128} + a_{158} - \\
& a_{501} + a_{508} + a_{258} + a_{261} + a_{264} - 2a_{306} - \\
& a_{320} + a_{332} + a_{362} - a_{764} - a_{770} - a_{773} - \\
& a_{776} + a_{792} - a_{798} + a_{800} + 2a_{819} + a_{832} + \\
& 2a_{837} + 2a_{839} + a_{843} - a_{844} + a_{857} + a_{860} + \\
& a_{865} - a_{874} - a_{885} + 2a_{886} + a_{926} - 2a_{946} - \\
& a_{960} + a_{962} + a_{977} + a_{984}
\end{aligned}
$$

$$
a_{1264} = \frac{a_{752} + \sqrt{a_{752}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & 2a_{115} + a_{65} - 2a_{243} + a_{246} - a_{129} + a_{159} - \\
& a_{502} + a_{509} + a_{259} + a_{262} + a_{265} - 2a_{307} - \\
& a_{321} + a_{333} + a_{363} - a_{765} - a_{771} - a_{774} - \\
& a_{777} + a_{793} - a_{799} + a_{801} + 2a_{820} + a_{833} + \\
& 2a_{838} + 2a_{840} + a_{844} - a_{845} + a_{858} + a_{861} + \\
& a_{866} - a_{875} - a_{886} + 2a_{887} + a_{927} - 2a_{947} - \\
& a_{961} + a_{963} + a_{978} + a_{985}
\end{aligned}
$$

$$
a_{1265} = \frac{a_{753} + \sqrt{a_{753}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & 2a_{116} + a_{66} - 2a_{244} + a_{247} - a_{130} + a_{160} - \\
& a_{503} + a_{510} + a_{260} + a_{263} + a_{266} - 2a_{308} - \\
& a_{322} + a_{334} + a_{364} - a_{766} - a_{772} - a_{775} - \\
& a_{778} + a_{794} - a_{800} + a_{802} + 2a_{821} + a_{834} + \\
& 2a_{839} + 2a_{841} + a_{845} - a_{846} + a_{859} + a_{862} + \\
& a_{867} - a_{876} - a_{887} + 2a_{888} + a_{928} - 2a_{948} - \\
& a_{962} + a_{964} + a_{979} + a_{986}
\end{aligned}
$$

$$
a_{1266} = \frac{a_{754} - \sqrt{a_{754}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & 2a_{117} + a_{67} - 2a_{245} + a_{248} - a_{131} + a_{161} - \\
& a_{504} + a_{255} + a_{261} + a_{264} + a_{267} - 2a_{309} - \\
& a_{323} + a_{335} + a_{365} - a_{767} - a_{773} - a_{776} - \\
& a_{779} + a_{795} - a_{801} + a_{803} + 2a_{822} + a_{835} + \\
& 2a_{840} + 2a_{842} + a_{846} - a_{847} + a_{860} + a_{863} + \\
& a_{868} - a_{877} - a_{888} + 2a_{889} + a_{929} - 2a_{949} - \\
& a_{963} + a_{965} + a_{980} + a_{987}
\end{aligned}
$$

$$
a_{1267} = \frac{a_{755} - \sqrt{a_{755}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & 2a_{118} + a_{68} - 2a_{246} + a_{249} - a_{132} + a_{162} - \\
& a_{505} + a_{256} + a_{262} + a_{265} + a_{268} - 2a_{310} - \\
& a_{324} + a_{336} + a_{366} - a_{768} - a_{774} - a_{777} - \\
& a_{780} + a_{796} - a_{802} + a_{804} + 2a_{823} + a_{836} + \\
& 2a_{841} + 2a_{843} + a_{847} - a_{848} + a_{861} + a_{864} + \\
& a_{869} - a_{878} - a_{889} + 2a_{890} + a_{930} - 2a_{950} - \\
& a_{964} + a_{966} + a_{981} + a_{988}
\end{aligned}
$$

$$
a_{1268} = \frac{a_{756} + \sqrt{a_{756}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & 2a_{119} + a_{69} - 2a_{247} + a_{250} - a_{133} + a_{163} - \\
& a_{506} + a_{257} + a_{263} + a_{266} + a_{269} - 2a_{311} - \\
& a_{325} + a_{337} + a_{367} - a_{769} - a_{775} - a_{778} - \\
& a_{781} + a_{797} - a_{803} + a_{805} + 2a_{824} + a_{837} + \\
& 2a_{842} + 2a_{844} + a_{848} - a_{849} + a_{862} + a_{865} + \\
& a_{870} - a_{879} - a_{890} + 2a_{891} + a_{931} - 2a_{951} - \\
& a_{965} + a_{967} + a_{982} + a_{989}
\end{aligned}
$$

$$
a_{1269} = \frac{a_{757} - \sqrt{a_{757}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & 2a_{120} + a_{70} - 2a_{248} + a_{251} - a_{134} + a_{164} - \\
& a_{507} + a_{258} + a_{264} + a_{267} + a_{270} - 2a_{312} - \\
& a_{326} + a_{338} + a_{368} - a_{770} - a_{776} - a_{779} - \\
& a_{782} + a_{798} - a_{804} + a_{806} + 2a_{825} + a_{838} + \\
& 2a_{843} + 2a_{845} + a_{849} - a_{850} + a_{863} + a_{866} + \\
& a_{871} - a_{880} - a_{891} + 2a_{892} + a_{932} - 2a_{952} - \\
& a_{966} + a_{968} + a_{983} + a_{990}
\end{aligned}
$$

$$
a_{1270} = \frac{a_{758} - \sqrt{a_{758}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & 2a_{121} + a_{71} - 2a_{249} + a_{252} - a_{135} + a_{165} - \\
& a_{508} + a_{259} + a_{265} + a_{268} + a_{271} - 2a_{313} - \\
& a_{327} + a_{339} + a_{369} - a_{771} - a_{777} - a_{780} - \\
& a_{783} + a_{799} - a_{805} + a_{807} + 2a_{826} + a_{839} + \\
& 2a_{844} + 2a_{846} + a_{850} - a_{851} + a_{864} + a_{867} + \\
& a_{872} - a_{881} - a_{892} + 2a_{893} + a_{933} - 2a_{953} - \\
& a_{967} + a_{969} + a_{984} + a_{991}
\end{aligned}
$$

$$
a_{1271} = \frac{a_{759} - \sqrt{a_{759}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & 2a_{122} + a_{72} - 2a_{250} + a_{253} - a_{136} + a_{166} -
\end{aligned}
$$

$$
\begin{aligned}
& a_{509} + a_{260} + a_{266} + a_{269} + a_{272} - 2a_{314} - \\
& a_{328} + a_{340} + a_{370} - a_{772} - a_{778} - a_{781} - \\
& a_{784} + a_{800} - a_{806} + a_{808} + 2a_{827} + a_{840} + \\
& 2a_{845} + 2a_{847} + a_{851} - a_{852} + a_{865} + a_{868} + \\
& a_{873} - a_{882} - a_{893} + 2a_{894} + a_{934} - 2a_{954} - \\
& a_{968} + a_{970} + a_{985} + a_{992}
\end{aligned}
$$

$$
a_{1272} = \frac{a_{760} - \sqrt{a_{760}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & 2a_{123} + a_{73} - 2a_{251} + a_{254} - a_{137} + a_{167} - \\
& a_{510} + a_{261} + a_{267} + a_{270} + a_{273} - 2a_{315} - \\
& a_{329} + a_{341} + a_{371} - a_{773} - a_{779} - a_{782} - \\
& a_{785} + a_{801} - a_{807} + a_{809} + 2a_{828} + a_{841} + \\
& 2a_{846} + 2a_{848} + a_{852} - a_{853} + a_{866} + a_{869} + \\
& a_{874} - a_{883} - a_{894} + 2a_{895} + a_{935} - 2a_{955} - \\
& a_{969} + a_{971} + a_{986} + a_{993}
\end{aligned}
$$

$$
a_{1273} = \frac{a_{761} - \sqrt{a_{761}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & 2a_{124} + a_{74} - 2a_{252} + a_{127} - a_{138} + a_{168} - \\
& a_{255} + a_{262} + a_{268} + a_{271} + a_{274} - 2a_{316} - \\
& a_{330} + a_{342} + a_{372} - a_{774} - a_{780} - a_{783} - \\
& a_{786} + a_{802} - a_{808} + a_{810} + 2a_{829} + a_{842} + \\
& 2a_{847} + 2a_{849} + a_{853} - a_{854} + a_{867} + a_{870} + \\
& a_{875} - a_{884} - a_{895} + 2a_{896} + a_{936} - 2a_{956} - \\
& a_{970} + a_{972} + a_{987} + a_{994}
\end{aligned}
$$

$$
a_{1274} = \frac{a_{762} - \sqrt{a_{762}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & 2a_{125} + a_{75} - 2a_{253} + a_{128} - a_{139} + a_{169} - \\
& a_{256} + a_{263} + a_{269} + a_{272} + a_{275} - 2a_{317} - \\
& a_{331} + a_{343} + a_{373} - a_{775} - a_{781} - a_{784} - \\
& a_{787} + a_{803} - a_{809} + a_{811} + 2a_{830} + a_{843} + \\
& 2a_{848} + 2a_{850} + a_{854} - a_{855} + a_{868} + a_{871} + \\
& a_{876} - a_{885} - a_{896} + 2a_{897} + a_{937} - 2a_{957} - \\
& a_{971} + a_{973} + a_{988} + a_{995}
\end{aligned}
$$

$$
a_{1275} = \frac{a_{763} - \sqrt{a_{763}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & 2a_{126} + a_{76} - 2a_{254} + a_{129} - a_{140} + a_{170} - \\
& a_{257} + a_{264} + a_{270} + a_{273} + a_{276} - 2a_{318} - \\
& a_{332} + a_{344} + a_{374} - a_{776} - a_{782} - a_{785} - \\
& a_{788} + a_{804} - a_{810} + a_{812} + 2a_{831} + a_{844} + \\
& 2a_{849} + 2a_{851} + a_{855} - a_{856} + a_{869} + a_{872} + \\
& a_{877} - a_{886} - a_{897} + 2a_{898} + a_{938} - 2a_{958} - \\
& a_{972} + a_{974} + a_{989} + a_{996}
\end{aligned}
$$

$$
a_{1276} = \frac{a_{764} + \sqrt{a_{764}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & 2a_{63} + a_{77} - 2a_{127} + a_{130} - a_{141} + a_{171} - \\
& a_{258} + a_{265} + a_{271} + a_{274} + a_{277} - 2a_{319} - \\
& a_{333} + a_{345} + a_{375} - a_{777} - a_{783} - a_{786} - \\
& a_{789} + a_{805} - a_{811} + a_{813} + 2a_{832} + a_{845} + \\
& 2a_{850} + 2a_{852} + a_{856} - a_{857} + a_{870} + a_{873} + \\
& a_{878} - a_{887} - a_{898} + 2a_{899} + a_{939} - 2a_{959} - \\
& a_{973} + a_{975} + a_{990} + a_{997}
\end{aligned}
$$

$$
a_{1277} = \frac{a_{765} - \sqrt{a_{765}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & 2a_{65} + a_{79} - 2a_{129} + a_{132} - a_{143} + a_{173} - \\
& a_{260} + a_{267} + a_{273} + a_{276} + a_{279} - 2a_{321} - \\
& a_{335} + a_{347} + a_{377} - a_{779} - a_{785} - a_{788} - \\
& a_{791} + a_{807} - a_{813} + a_{815} + 2a_{834} + a_{847} + \\
& 2a_{852} + 2a_{854} + a_{858} - a_{859} + a_{872} + a_{875} + \\
& a_{880} - a_{889} - a_{900} + 2a_{901} + a_{941} - 2a_{961} - \\
& a_{975} + a_{977} + a_{992} + a_{999}
\end{aligned}
$$

$$
a_{1279} = \frac{a_{767} + \sqrt{a_{767}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & 2a_{66} + a_{80} - 2a_{130} + a_{133} - a_{144} + a_{174} - \\
& a_{261} + a_{268} + a_{274} + a_{277} + a_{280} - 2a_{322} - \\
& a_{336} + a_{348} + a_{378} - a_{780} - a_{786} - a_{789} - \\
& a_{792} + a_{808} - a_{814} + a_{816} + 2a_{835} + a_{848} + \\
& 2a_{853} + 2a_{855} + a_{859} - a_{860} + a_{873} + a_{876} + \\
& a_{881} - a_{890} - a_{901} + 2a_{902} + a_{942} - 2a_{962} - \\
& a_{976} + a_{978} + a_{993} + a_{1000}
\end{aligned}
$$

$$
a_{1280} = \frac{a_{768} - \sqrt{a_{768}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & 2a_{67} + a_{81} - 2a_{131} + a_{134} - a_{145} + a_{175} - \\
& a_{262} + a_{269} + a_{275} + a_{278} + a_{281} - 2a_{323} - \\
& a_{337} + a_{349} + a_{379} - a_{781} - a_{787} - a_{790} - \\
& a_{793} + a_{809} - a_{815} + a_{817} + 2a_{836} + a_{849} + \\
& 2a_{854} + 2a_{856} + a_{860} - a_{861} + a_{874} + a_{877} + \\
& a_{882} - a_{891} - a_{902} + 2a_{903} + a_{943} - 2a_{963} - \\
& a_{977} + a_{979} + a_{994} + a_{1001}
\end{aligned}
$$

$$
a_{1281} = \frac{a_{769} + \sqrt{a_{769}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & 2a_{68} + a_{82} - 2a_{132} + a_{135} - a_{146} + a_{176} - \\
& a_{263} + a_{270} + a_{276} + a_{279} + a_{282} - 2a_{324} - \\
& a_{338} + a_{350} + a_{380} - a_{782} - a_{788} - a_{791} - \\
& a_{794} + a_{810} - a_{816} + a_{818} + 2a_{837} + a_{850} + \\
& 2a_{855} + 2a_{857} + a_{861} - a_{862} + a_{875} + a_{878} + \\
& a_{883} - a_{892} - a_{903} + 2a_{904} + a_{944} - 2a_{964} - \\
& a_{978} + a_{980} + a_{995} + a_{1002}
\end{aligned}
$$

$$
a_{1282} = \frac{a_{770} + \sqrt{a_{770}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & 2a_{69} + a_{83} - 2a_{133} + a_{136} - a_{147} + a_{177} - \\
& a_{264} + a_{271} + a_{277} + a_{280} + a_{283} - 2a_{325} - \\
& a_{339} + a_{351} + a_{381} - a_{783} - a_{789} - a_{792} - \\
& a_{795} + a_{811} - a_{817} + a_{819} + 2a_{838} + a_{851} + \\
& 2a_{856} + 2a_{858} + a_{862} - a_{863} + a_{876} + a_{879} + \\
& a_{884} - a_{893} - a_{904} + 2a_{905} + a_{945} - 2a_{965} - \\
& a_{979} + a_{981} + a_{996} + a_{1003}
\end{aligned}
$$

$$
a_{1283} = \frac{a_{771} - \sqrt{a_{771}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & 2a_{70} + a_{84} - 2a_{134} + a_{137} - a_{148} + a_{178} -
\end{aligned}
$$

$$
\begin{aligned}
& a_{265} + a_{272} + a_{278} + a_{281} + a_{284} - 2a_{326} - \\
& a_{340} + a_{352} + a_{382} - a_{784} - a_{790} - a_{793} - \\
& a_{796} + a_{812} - a_{818} + a_{820} + 2a_{839} + a_{852} + \\
& 2a_{857} + 2a_{859} + a_{863} - a_{864} + a_{877} + a_{880} + \\
& a_{885} - a_{894} - a_{905} + 2a_{906} + a_{946} - 2a_{966} - \\
& a_{980} + a_{982} + a_{997} + a_{1004} \\
a_{1284} &= \frac{a_{772} + \sqrt{a_{772}^2 - 4x}}{2} \\
x &= 2a_{71} + a_{85} - 2a_{135} + a_{138} - a_{149} + a_{179} - \\
& a_{266} + a_{273} + a_{279} + a_{282} + a_{285} - 2a_{327} - \\
& a_{341} + a_{353} + a_{383} - a_{785} - a_{791} - a_{794} - \\
& a_{797} + a_{813} - a_{819} + a_{821} + 2a_{840} + a_{853} + \\
& 2a_{858} + 2a_{860} + a_{864} - a_{865} + a_{878} + a_{881} + \\
& a_{886} - a_{895} - a_{906} + 2a_{907} + a_{947} - 2a_{967} - \\
& a_{981} + a_{983} + a_{998} + a_{1005} \\
a_{1285} &= \frac{a_{773} - \sqrt{a_{773}^2 - 4x}}{2} \\
x &= 2a_{72} + a_{86} - 2a_{136} + a_{139} - a_{150} + a_{180} - \\
& a_{267} + a_{274} + a_{280} + a_{283} + a_{286} - 2a_{328} - \\
& a_{342} + a_{354} + a_{384} - a_{786} - a_{792} - a_{795} - \\
& a_{798} + a_{814} - a_{820} + a_{822} + 2a_{841} + a_{854} + \\
& 2a_{859} + 2a_{861} + a_{865} - a_{866} + a_{879} + a_{882} + \\
& a_{887} - a_{896} - a_{907} + 2a_{908} + a_{948} - 2a_{968} - \\
& a_{982} + a_{984} + a_{999} + a_{1006} \\
a_{1286} &= \frac{a_{774} - \sqrt{a_{774}^2 - 4x}}{2} \\
x &= 2a_{73} + a_{87} - 2a_{137} + a_{140} - a_{151} + a_{181} - \\
& a_{268} + a_{275} + a_{281} + a_{284} + a_{287} - 2a_{329} - \\
& a_{343} + a_{355} + a_{385} - a_{787} - a_{793} - a_{796} - \\
& a_{799} + a_{815} - a_{821} + a_{823} + 2a_{842} + a_{855} + \\
& 2a_{860} + 2a_{862} + a_{866} - a_{867} + a_{880} + a_{883} + \\
& a_{888} - a_{897} - a_{908} + 2a_{909} + a_{949} - 2a_{969} - \\
& a_{983} + a_{985} + a_{1000} + a_{1007} \\
a_{1287} &= \frac{a_{775} + \sqrt{a_{775}^2 - 4x}}{2} \\
x &= 2a_{74} + a_{88} - 2a_{138} + a_{141} - a_{152} + a_{182} - \\
& a_{269} + a_{276} + a_{282} + a_{285} + a_{288} - 2a_{330} - \\
& a_{344} + a_{356} + a_{386} - a_{788} - a_{794} - a_{797} - \\
& a_{800} + a_{816} - a_{822} + a_{824} + 2a_{843} + a_{856} + \\
& 2a_{861} + 2a_{863} + a_{867} - a_{868} + a_{881} + a_{884} + \\
& a_{889} - a_{898} - a_{909} + 2a_{910} + a_{950} - 2a_{970} - \\
& a_{984} + a_{986} + a_{1001} + a_{1008} \\
a_{1288} &= \frac{a_{776} - \sqrt{a_{776}^2 - 4x}}{2} \\
x &= 2a_{75} + a_{89} - 2a_{139} + a_{142} - a_{153} + a_{183} - \\
& a_{270} + a_{277} + a_{283} + a_{286} + a_{289} - 2a_{331} - \\
& a_{345} + a_{357} + a_{387} - a_{789} - a_{795} - a_{798} - \\
& a_{801} + a_{817} - a_{823} + a_{825} + 2a_{844} + a_{857} + \\
& 2a_{862} + 2a_{864} + a_{868} - a_{869} + a_{882} + a_{885} + \\
& a_{890} - a_{899} - a_{910} + 2a_{911} + a_{951} - 2a_{971} - \\
& a_{985} + a_{987} + a_{1002} + a_{1009} \\
a_{1289} &= \frac{a_{777} - \sqrt{a_{777}^2 - 4x}}{2} \\
x &= 2a_{76} + a_{90} - 2a_{140} + a_{143} - a_{154} + a_{184} - \\
& a_{271} + a_{278} + a_{284} + a_{287} + a_{290} - 2a_{332} - \\
& a_{346} + a_{358} + a_{388} - a_{790} - a_{796} - a_{799} - \\
& a_{802} + a_{818} - a_{824} + a_{826} + 2a_{845} + a_{858} + \\
& 2a_{863} + 2a_{865} + a_{869} - a_{870} + a_{883} + a_{886} + \\
& a_{891} - a_{900} - a_{911} + 2a_{912} + a_{952} - 2a_{972} - \\
& a_{986} + a_{988} + a_{1003} + a_{1010} \\
a_{1290} &= \frac{a_{778} + \sqrt{a_{778}^2 - 4x}}{2} \\
x &= 2a_{77} + a_{91} - 2a_{141} + a_{144} - a_{155} + a_{185} - \\
& a_{272} + a_{279} + a_{285} + a_{288} + a_{291} - 2a_{333} - \\
& a_{347} + a_{359} + a_{389} - a_{791} - a_{797} - a_{800} - \\
& a_{803} + a_{819} - a_{825} + a_{827} + 2a_{846} + a_{859} + \\
& 2a_{864} + 2a_{866} + a_{870} - a_{871} + a_{884} + a_{887} + \\
& a_{892} - a_{901} - a_{912} + 2a_{913} + a_{953} - 2a_{973} - \\
& a_{987} + a_{989} + a_{1004} + a_{1011} \\
a_{1291} &= \frac{a_{779} + \sqrt{a_{779}^2 - 4x}}{2} \\
x &= 2a_{78} + a_{92} - 2a_{142} + a_{145} - a_{156} + a_{186} - \\
& a_{273} + a_{280} + a_{286} + a_{289} + a_{292} - 2a_{334} - \\
& a_{348} + a_{360} + a_{390} - a_{792} - a_{798} - a_{801} - \\
& a_{804} + a_{820} - a_{826} + a_{828} + 2a_{847} + a_{860} + \\
& 2a_{865} + 2a_{867} + a_{871} - a_{872} + a_{885} + a_{888} + \\
& a_{893} - a_{902} - a_{913} + 2a_{914} + a_{954} - 2a_{974} - \\
& a_{988} + a_{990} + a_{1005} + a_{1012} \\
a_{1292} &= \frac{a_{780} - \sqrt{a_{780}^2 - 4x}}{2} \\
x &= 2a_{79} + a_{93} - 2a_{143} + a_{146} - a_{157} + a_{187} - \\
& a_{274} + a_{281} + a_{287} + a_{290} + a_{293} - 2a_{335} - \\
& a_{349} + a_{361} + a_{391} - a_{793} - a_{799} - a_{802} - \\
& a_{805} + a_{821} - a_{827} + a_{829} + 2a_{848} + a_{861} + \\
& 2a_{866} + 2a_{868} + a_{872} - a_{873} + a_{886} + a_{889} + \\
& a_{894} - a_{903} - a_{914} + 2a_{915} + a_{955} - 2a_{975} - \\
& a_{989} + a_{991} + a_{1006} + a_{1013} \\
a_{1293} &= \frac{a_{781} - \sqrt{a_{781}^2 - 4x}}{2} \\
x &= 2a_{80} + a_{94} - 2a_{144} + a_{147} - a_{158} + a_{188} - \\
& a_{275} + a_{282} + a_{288} + a_{291} + a_{294} - 2a_{336} - \\
& a_{350} + a_{362} + a_{392} - a_{794} - a_{800} - a_{803} - \\
& a_{806} + a_{822} - a_{828} + a_{830} + 2a_{849} + a_{862} + \\
& 2a_{867} + 2a_{869} + a_{873} - a_{874} + a_{887} + a_{890} + \\
& a_{895} - a_{904} - a_{915} + 2a_{916} + a_{956} - 2a_{976} - \\
& a_{990} + a_{992} + a_{1007} + a_{1014} \\
a_{1294} &= \frac{a_{782} + \sqrt{a_{782}^2 - 4x}}{2} \\
x &= 2a_{81} + a_{95} - 2a_{145} + a_{148} - a_{159} + a_{189} -
\end{aligned}
$$

$$
\begin{aligned}
& a_{276} + a_{283} + a_{289} + a_{292} + a_{295} - 2a_{337} - \\
& a_{351} + a_{363} + a_{393} - a_{795} - a_{801} - a_{804} - \\
& a_{807} + a_{823} - a_{829} + a_{831} + 2a_{850} + a_{863} + \\
& 2a_{868} + 2a_{870} + a_{874} - a_{875} + a_{888} + a_{891} + \\
& a_{896} - a_{905} - a_{916} + 2a_{917} + a_{957} - 2a_{977} - \\
& a_{991} + a_{993} + a_{1008} + a_{1015}
\end{aligned}
$$

$$
a_{1295} = \frac{a_{783} - \sqrt{a_{783}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & 2a_{82} + a_{96} - 2a_{146} + a_{149} - a_{160} + a_{190} - \\
& a_{277} + a_{284} + a_{290} + a_{293} + a_{296} - 2a_{338} - \\
& a_{352} + a_{364} + a_{394} - a_{796} - a_{802} - a_{805} - \\
& a_{808} + a_{824} - a_{830} + a_{832} + 2a_{851} + a_{864} + \\
& 2a_{869} + 2a_{871} + a_{875} - a_{876} + a_{889} + a_{892} + \\
& a_{897} - a_{906} - a_{917} + 2a_{918} + a_{958} - 2a_{978} - \\
& a_{992} + a_{994} + a_{1009} + a_{1016}
\end{aligned}
$$

$$
a_{1296} = \frac{a_{784} + \sqrt{a_{784}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & 2a_{83} + a_{97} - 2a_{147} + a_{150} - a_{161} + a_{191} - \\
& a_{278} + a_{285} + a_{291} + a_{294} + a_{297} - 2a_{339} - \\
& a_{353} + a_{365} + a_{395} - a_{797} - a_{803} - a_{806} - \\
& a_{809} + a_{825} - a_{831} + a_{833} + 2a_{852} + a_{865} + \\
& 2a_{870} + 2a_{872} + a_{876} - a_{877} + a_{890} + a_{893} + \\
& a_{898} - a_{907} - a_{918} + 2a_{919} + a_{959} - 2a_{979} - \\
& a_{993} + a_{995} + a_{1010} + a_{1017}
\end{aligned}
$$

$$
a_{1297} = \frac{a_{785} + \sqrt{a_{785}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & 2a_{84} + a_{98} - 2a_{148} + a_{151} - a_{162} + a_{192} - \\
& a_{279} + a_{286} + a_{292} + a_{295} + a_{298} - 2a_{340} - \\
& a_{354} + a_{366} + a_{396} - a_{798} - a_{804} - a_{807} - \\
& a_{810} + a_{826} - a_{832} + a_{834} + 2a_{853} + a_{866} + \\
& 2a_{871} + 2a_{873} + a_{877} - a_{878} + a_{891} + a_{894} + \\
& a_{899} - a_{908} - a_{919} + 2a_{920} + a_{960} - 2a_{980} - \\
& a_{994} + a_{996} + a_{1011} + a_{1018}
\end{aligned}
$$

$$
a_{1298} = \frac{a_{786} + \sqrt{a_{786}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & 2a_{85} + a_{99} - 2a_{149} + a_{152} - a_{163} + a_{193} - \\
& a_{280} + a_{287} + a_{293} + a_{296} + a_{299} - 2a_{341} - \\
& a_{355} + a_{367} + a_{397} - a_{799} - a_{805} - a_{808} - \\
& a_{811} + a_{827} - a_{833} + a_{835} + 2a_{854} + a_{867} + \\
& 2a_{872} + 2a_{874} + a_{878} - a_{879} + a_{892} + a_{895} + \\
& a_{900} - a_{909} - a_{920} + 2a_{921} + a_{961} - 2a_{981} - \\
& a_{995} + a_{997} + a_{1012} + a_{1019}
\end{aligned}
$$

$$
a_{1299} = \frac{a_{787} + \sqrt{a_{787}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & 2a_{86} + a_{100} - 2a_{150} + a_{153} - a_{164} + a_{194} - \\
& a_{281} + a_{288} + a_{294} + a_{297} + a_{300} - 2a_{342} - \\
& a_{356} + a_{368} + a_{398} - a_{800} - a_{806} - a_{809} - \\
& a_{812} + a_{828} - a_{834} + a_{836} + 2a_{855} + a_{868} + \\
& 2a_{873} + 2a_{875} + a_{879} - a_{880} + a_{893} + a_{896} + \\
& a_{901} - a_{910} - a_{921} + 2a_{922} + a_{962} - 2a_{982} - \\
& a_{996} + a_{998} + a_{1013} + a_{1020}
\end{aligned}
$$

$$
a_{1300} = \frac{a_{788} - \sqrt{a_{788}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & 2a_{87} + a_{101} - 2a_{151} + a_{154} - a_{165} + a_{195} - \\
& a_{282} + a_{289} + a_{295} + a_{298} + a_{301} - 2a_{343} - \\
& a_{357} + a_{369} + a_{399} - a_{801} - a_{807} - a_{810} - \\
& a_{813} + a_{829} - a_{835} + a_{837} + 2a_{856} + a_{869} + \\
& 2a_{874} + 2a_{876} + a_{880} - a_{881} + a_{894} + a_{897} + \\
& a_{902} - a_{911} - a_{922} + 2a_{923} + a_{963} - 2a_{983} - \\
& a_{997} + a_{999} + a_{1014} + a_{1021}
\end{aligned}
$$

$$
a_{1301} = \frac{a_{789} - \sqrt{a_{789}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & 2a_{88} + a_{102} - 2a_{152} + a_{155} - a_{166} + a_{196} - \\
& a_{283} + a_{290} + a_{296} + a_{299} + a_{302} - 2a_{344} - \\
& a_{358} + a_{370} + a_{400} - a_{802} - a_{808} - a_{811} - \\
& a_{814} + a_{830} - a_{836} + a_{838} + 2a_{857} + a_{870} + \\
& 2a_{875} + 2a_{877} + a_{881} - a_{882} + a_{895} + a_{898} + \\
& a_{903} - a_{912} - a_{923} + 2a_{924} + a_{964} - 2a_{984} - \\
& a_{998} + a_{1000} + a_{1015} + a_{1022}
\end{aligned}
$$

$$
a_{1302} = \frac{a_{790} + \sqrt{a_{790}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & 2a_{89} + a_{103} - 2a_{153} + a_{156} - a_{167} + a_{197} - \\
& a_{284} + a_{291} + a_{297} + a_{300} + a_{303} - 2a_{345} - \\
& a_{359} + a_{371} + a_{401} - a_{803} - a_{809} - a_{812} - \\
& a_{815} + a_{831} - a_{837} + a_{839} + 2a_{858} + a_{871} + \\
& 2a_{876} + 2a_{878} + a_{882} - a_{883} + a_{896} + a_{899} + \\
& a_{904} - a_{913} - a_{924} + 2a_{925} + a_{965} - 2a_{985} - \\
& a_{999} + a_{1001} + a_{1016} + a_{511}
\end{aligned}
$$

$$
a_{1303} = \frac{a_{791} + \sqrt{a_{791}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & 2a_{90} + a_{104} - 2a_{154} + a_{157} - a_{168} + a_{198} - \\
& a_{285} + a_{292} + a_{298} + a_{301} + a_{304} - 2a_{346} - \\
& a_{360} + a_{372} + a_{402} - a_{804} - a_{810} - a_{813} - \\
& a_{816} + a_{832} - a_{838} + a_{840} + 2a_{859} + a_{872} + \\
& 2a_{877} + 2a_{879} + a_{883} - a_{884} + a_{897} + a_{900} + \\
& a_{905} - a_{914} - a_{925} + 2a_{926} + a_{966} - 2a_{986} - \\
& a_{1000} + a_{1002} + a_{1017} + a_{512}
\end{aligned}
$$

$$
a_{1304} = \frac{a_{792} - \sqrt{a_{792}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & 2a_{91} + a_{105} - 2a_{155} + a_{158} - a_{169} + a_{199} - \\
& a_{286} + a_{293} + a_{299} + a_{302} + a_{305} - 2a_{347} - \\
& a_{361} + a_{373} + a_{403} - a_{805} - a_{811} - a_{814} - \\
& a_{817} + a_{833} - a_{839} + a_{841} + 2a_{860} + a_{873} + \\
& 2a_{878} + 2a_{880} + a_{884} - a_{885} + a_{898} + a_{901} + \\
& a_{906} - a_{915} - a_{926} + 2a_{927} + a_{967} - 2a_{987} - \\
& a_{1001} + a_{1003} + a_{1018} + a_{513}
\end{aligned}
$$

$$
a_{1305} = \frac{a_{793} + \sqrt{a_{793}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & 2a_{92} + a_{106} - 2a_{156} + a_{159} - a_{170} + a_{200} -
\end{aligned}
$$

$$
\begin{aligned}
& a_{287} + a_{294} + a_{300} + a_{303} + a_{306} - 2a_{348} - \\
& a_{362} + a_{374} + a_{404} - a_{806} - a_{812} - a_{815} - \\
& a_{818} + a_{834} - a_{840} + a_{842} + 2a_{861} + a_{874} + \\
& 2a_{879} + 2a_{881} + a_{885} - a_{886} + a_{899} + a_{902} + \\
& a_{907} - a_{916} - a_{927} + 2a_{928} + a_{968} - 2a_{988} - \\
& a_{1002} + a_{1004} + a_{1019} + a_{514} \\
a_{1306} &= \frac{a_{794} + \sqrt{a_{794}^2 - 4x}}{2} \\
x &= 2a_{93} + a_{107} - 2a_{157} + a_{160} - a_{171} + a_{201} - \\
& a_{288} + a_{295} + a_{301} + a_{304} + a_{307} - 2a_{349} - \\
& a_{363} + a_{375} + a_{405} - a_{807} - a_{813} - a_{816} - \\
& a_{819} + a_{835} - a_{841} + a_{843} + 2a_{862} + a_{875} + \\
& 2a_{880} + 2a_{882} + a_{886} - a_{887} + a_{900} + a_{903} + \\
& a_{908} - a_{917} - a_{928} + 2a_{929} + a_{969} - 2a_{989} - \\
& a_{1003} + a_{1005} + a_{1020} + a_{515} \\
a_{1307} &= \frac{a_{795} - \sqrt{a_{795}^2 - 4x}}{2} \\
x &= 2a_{94} + a_{108} - 2a_{158} + a_{161} - a_{172} + a_{202} - \\
& a_{289} + a_{296} + a_{302} + a_{305} + a_{308} - 2a_{350} - \\
& a_{364} + a_{376} + a_{406} - a_{808} - a_{814} - a_{817} - \\
& a_{820} + a_{836} - a_{842} + a_{844} + 2a_{863} + a_{876} + \\
& 2a_{881} + 2a_{883} + a_{887} - a_{888} + a_{901} + a_{904} + \\
& a_{909} - a_{918} - a_{929} + 2a_{930} + a_{970} - 2a_{990} - \\
& a_{1004} + a_{1006} + a_{1021} + a_{516}
\end{aligned}
$$

$$
\begin{aligned}
a_{1308} &= \frac{a_{796} - \sqrt{a_{796}^2 - 4x}}{2} \\
x &= 2a_{95} + a_{109} - 2a_{159} + a_{162} - a_{173} + a_{203} - \\
& a_{290} + a_{297} + a_{303} + a_{306} + a_{309} - 2a_{351} - \\
& a_{365} + a_{377} + a_{407} - a_{809} - a_{815} - a_{818} - \\
& a_{821} + a_{837} - a_{843} + a_{845} + 2a_{864} + a_{877} + \\
& 2a_{882} + 2a_{884} + a_{888} - a_{889} + a_{902} + a_{905} + \\
& a_{910} - a_{919} - a_{930} + 2a_{931} + a_{971} - 2a_{991} - \\
& a_{1005} + a_{1007} + a_{1022} + a_{517} \\
a_{1309} &= \frac{a_{797} + \sqrt{a_{797}^2 - 4x}}{2} \\
x &= 2a_{99} + a_{113} - 2a_{163} + a_{166} - a_{177} + a_{207} - \\
& a_{294} + a_{301} + a_{307} + a_{310} + a_{313} - 2a_{355} - \\
& a_{369} + a_{381} + a_{411} - a_{813} - a_{819} - a_{822} - \\
& a_{825} + a_{841} - a_{847} + a_{849} + 2a_{868} + a_{881} + \\
& 2a_{886} + 2a_{888} + a_{892} - a_{893} + a_{906} + a_{909} + \\
& a_{914} - a_{923} - a_{934} + 2a_{935} + a_{975} - 2a_{995} - \\
& a_{1009} + a_{1011} + a_{514} + a_{521} \\
a_{1313} &= \frac{a_{801} - \sqrt{a_{801}^2 - 4x}}{2} \\
x &= 2a_{100} + a_{114} - 2a_{164} + a_{167} - a_{178} + a_{208} - \\
& a_{295} + a_{302} + a_{308} + a_{311} + a_{314} - 2a_{356} - \\
& a_{370} + a_{382} + a_{412} - a_{814} - a_{820} - a_{823} - \\
& a_{826} + a_{842} - a_{848} + a_{850} + 2a_{869} + a_{882} + \\
& 2a_{887} + 2a_{889} + a_{893} - a_{894} + a_{907} + a_{910} + \\
& a_{915} - a_{924} - a_{935} + 2a_{936} + a_{976} - 2a_{996} - \\
& a_{1010} + a_{1012} + a_{515} + a_{522} \\
a_{1314} &= \frac{a_{802} - \sqrt{a_{802}^2 - 4x}}{2} \\
x &= 2a_{101} + a_{115} - 2a_{165} + a_{168} - a_{179} + a_{209} - \\
& a_{296} + a_{303} + a_{309} + a_{312} + a_{315} - 2a_{357} - \\
& a_{371} + a_{383} + a_{413} - a_{815} - a_{821} - a_{824} - \\
& a_{827} + a_{843} - a_{849} + a_{851} + 2a_{870} + a_{883} + \\
& 2a_{888} + 2a_{890} + a_{894} - a_{895} + a_{908} + a_{911} + \\
& a_{916} - a_{925} - a_{936} + 2a_{937} + a_{977} - 2a_{997} - \\
& a_{1011} + a_{1013} + a_{516} + a_{523} \\
a_{1315} &= \frac{a_{803} + \sqrt{a_{803}^2 - 4x}}{2} \\
x &= 2a_{102} + a_{116} - 2a_{166} + a_{169} - a_{180} + a_{210} - \\
& a_{297} + a_{304} + a_{310} + a_{313} + a_{316} - 2a_{358} - \\
& a_{372} + a_{384} + a_{414} - a_{816} - a_{822} - a_{825} - \\
& a_{828} + a_{844} - a_{850} + a_{852} + 2a_{871} + a_{884} + \\
& 2a_{889} + 2a_{891} + a_{895} - a_{896} + a_{909} + a_{912} + \\
& a_{917} - a_{926} - a_{937} + 2a_{938} + a_{978} - 2a_{998} - \\
& a_{1012} + a_{1014} + a_{517} + a_{524} \\
a_{1316} &= \frac{a_{804} - \sqrt{a_{804}^2 - 4x}}{2} \\
x &= 2a_{104} + a_{118} - 2a_{168} + a_{171} - a_{182} + a_{212} - \\
& a_{299} + a_{306} + a_{312} + a_{315} + a_{318} - 2a_{360} - \\
& a_{374} + a_{386} + a_{416} - a_{818} - a_{824} - a_{827} - \\
& a_{830} + a_{846} - a_{852} + a_{854} + 2a_{873} + a_{886} + \\
& 2a_{891} + 2a_{893} + a_{897} - a_{898} + a_{911} + a_{914} + \\
& a_{919} - a_{928} - a_{939} + 2a_{940} + a_{980} - 2a_{1000} - \\
& a_{1014} + a_{1016} + a_{519} + a_{526} \\
a_{1318} &= \frac{a_{806} - \sqrt{a_{806}^2 - 4x}}{2} \\
x &= 2a_{105} + a_{119} - 2a_{169} + a_{172} - a_{183} + a_{213} - \\
& a_{300} + a_{307} + a_{313} + a_{316} + a_{319} - 2a_{361} - \\
& a_{375} + a_{387} + a_{417} - a_{819} - a_{825} - a_{828} - \\
& a_{831} + a_{847} - a_{853} + a_{855} + 2a_{874} + a_{887} + \\
& 2a_{892} + 2a_{894} + a_{898} - a_{899} + a_{912} + a_{915} + \\
& a_{920} - a_{929} - a_{940} + 2a_{941} + a_{981} - 2a_{1001} - \\
& a_{1015} + a_{1017} + a_{520} + a_{527} \\
a_{1319} &= \frac{a_{807} - \sqrt{a_{807}^2 - 4x}}{2} \\
x &= 2a_{106} + a_{120} - 2a_{170} + a_{173} - a_{184} + a_{214} - \\
& a_{301} + a_{308} + a_{314} + a_{317} + a_{320} - 2a_{362} - \\
& a_{376} + a_{388} + a_{418} - a_{820} - a_{826} - a_{829} - \\
& a_{832} + a_{848} - a_{854} + a_{856} + 2a_{875} + a_{888} + \\
& 2a_{893} + 2a_{895} + a_{899} - a_{900} + a_{913} + a_{916} + \\
& a_{921} - a_{930} - a_{941} + 2a_{942} + a_{982} - 2a_{1002} - \\
& a_{1016} + a_{1018} + a_{521} + a_{528} \\
a_{1320} &= \frac{a_{808} - \sqrt{a_{808}^2 - 4x}}{2} \\
x &= 2a_{107} + a_{121} - 2a_{171} + a_{174} - a_{185} + a_{215} -
\end{aligned}
$$

$$
\begin{aligned}
& a_{302} + a_{309} + a_{315} + a_{318} + a_{321} - 2a_{363} - \\
& a_{377} + a_{389} + a_{419} - a_{821} - a_{827} - a_{830} - \\
& a_{833} + a_{849} - a_{855} + a_{857} + 2a_{876} + a_{889} + \\
& 2a_{894} + 2a_{896} + a_{900} - a_{901} + a_{914} + a_{917} + \\
& a_{922} - a_{931} - a_{942} + 2a_{943} + a_{983} - 2a_{1003} - \\
& a_{1017} + a_{1019} + a_{522} + a_{529}
\end{aligned}
$$

$$
a_{1321} = \frac{a_{809} + \sqrt{a_{809}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & 2a_{108} + a_{122} - 2a_{172} + a_{175} - a_{186} + a_{216} - \\
& a_{303} + a_{310} + a_{316} + a_{319} + a_{322} - 2a_{364} - \\
& a_{378} + a_{390} + a_{420} - a_{822} - a_{828} - a_{831} - \\
& a_{834} + a_{850} - a_{856} + a_{858} + 2a_{877} + a_{890} + \\
& 2a_{895} + 2a_{897} + a_{901} - a_{902} + a_{915} + a_{918} + \\
& a_{923} - a_{932} - a_{943} + 2a_{944} + a_{984} - 2a_{1004} - \\
& a_{1018} + a_{1020} + a_{523} + a_{530}
\end{aligned}
$$

$$
a_{1322} = \frac{a_{810} + \sqrt{a_{810}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & 2a_{109} + a_{123} - 2a_{173} + a_{176} - a_{187} + a_{217} - \\
& a_{304} + a_{311} + a_{317} + a_{320} + a_{323} - 2a_{365} - \\
& a_{379} + a_{391} + a_{421} - a_{823} - a_{829} - a_{832} - \\
& a_{835} + a_{851} - a_{857} + a_{859} + 2a_{878} + a_{891} + \\
& 2a_{896} + 2a_{898} + a_{902} - a_{903} + a_{916} + a_{919} + \\
& a_{924} - a_{933} - a_{944} + 2a_{945} + a_{985} - 2a_{1005} - \\
& a_{1019} + a_{1021} + a_{524} + a_{531}
\end{aligned}
$$

$$
a_{1323} = \frac{a_{811} - \sqrt{a_{811}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & 2a_{110} + a_{124} - 2a_{174} + a_{177} - a_{188} + a_{218} - \\
& a_{305} + a_{312} + a_{318} + a_{321} + a_{324} - 2a_{366} - \\
& a_{380} + a_{392} + a_{422} - a_{824} - a_{830} - a_{833} - \\
& a_{836} + a_{852} - a_{858} + a_{860} + 2a_{879} + a_{892} + \\
& 2a_{897} + 2a_{899} + a_{903} - a_{904} + a_{917} + a_{920} + \\
& a_{925} - a_{934} - a_{945} + 2a_{946} + a_{986} - 2a_{1006} - \\
& a_{1020} + a_{1022} + a_{525} + a_{532}
\end{aligned}
$$

$$
a_{1324} = \frac{a_{812} - \sqrt{a_{812}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & 2a_{111} + a_{125} - 2a_{175} + a_{178} - a_{189} + a_{219} - \\
& a_{306} + a_{313} + a_{319} + a_{322} + a_{325} - 2a_{367} - \\
& a_{381} + a_{393} + a_{423} - a_{825} - a_{831} - a_{834} - \\
& a_{837} + a_{853} - a_{859} + a_{861} + 2a_{880} + a_{893} + \\
& 2a_{898} + 2a_{900} + a_{904} - a_{905} + a_{918} + a_{921} + \\
& a_{926} - a_{935} - a_{946} + 2a_{947} + a_{987} - 2a_{1007} - \\
& a_{1021} + a_{511} + a_{526} + a_{533}
\end{aligned}
$$

$$
a_{1325} = \frac{a_{813} - \sqrt{a_{813}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & 2a_{112} + a_{126} - 2a_{176} + a_{179} - a_{190} + a_{220} - \\
& a_{307} + a_{314} + a_{320} + a_{323} + a_{326} - 2a_{368} - \\
& a_{382} + a_{394} + a_{424} - a_{826} - a_{832} - a_{835} - \\
& a_{838} + a_{854} - a_{860} + a_{862} + 2a_{881} + a_{894} + \\
& 2a_{899} + 2a_{901} + a_{905} - a_{906} + a_{919} + a_{922} + \\
& a_{927} - a_{936} - a_{947} + 2a_{948} + a_{988} - 2a_{1008} - \\
& a_{1022} + a_{512} + a_{527} + a_{534}
\end{aligned}
$$

$$
a_{1326} = \frac{a_{814} + \sqrt{a_{814}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & 2a_{113} + a_{63} - 2a_{177} + a_{180} - a_{191} + a_{221} - \\
& a_{308} + a_{315} + a_{321} + a_{324} + a_{327} - 2a_{369} - \\
& a_{383} + a_{395} + a_{425} - a_{827} - a_{833} - a_{836} - \\
& a_{839} + a_{855} - a_{861} + a_{863} + 2a_{882} + a_{895} + \\
& 2a_{900} + 2a_{902} + a_{906} - a_{907} + a_{920} + a_{923} + \\
& a_{928} - a_{937} - a_{948} + 2a_{949} + a_{989} - 2a_{1009} - \\
& a_{511} + a_{513} + a_{528} + a_{535}
\end{aligned}
$$

$$
a_{1327} = \frac{a_{815} + \sqrt{a_{815}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & 2a_{114} + a_{64} - 2a_{178} + a_{181} - a_{192} + a_{222} - \\
& a_{309} + a_{316} + a_{322} + a_{325} + a_{328} - 2a_{370} - \\
& a_{384} + a_{396} + a_{426} - a_{828} - a_{834} - a_{837} - \\
& a_{840} + a_{856} - a_{862} + a_{864} + 2a_{883} + a_{896} + \\
& 2a_{901} + 2a_{903} + a_{907} - a_{908} + a_{921} + a_{924} + \\
& a_{929} - a_{938} - a_{949} + 2a_{950} + a_{990} - 2a_{1010} - \\
& a_{512} + a_{514} + a_{529} + a_{536}
\end{aligned}
$$

$$
a_{1328} = \frac{a_{816} - \sqrt{a_{816}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & 2a_{115} + a_{65} - 2a_{179} + a_{182} - a_{193} + a_{223} - \\
& a_{310} + a_{317} + a_{323} + a_{326} + a_{329} - 2a_{371} - \\
& a_{385} + a_{397} + a_{427} - a_{829} - a_{835} - a_{838} - \\
& a_{841} + a_{857} - a_{863} + a_{865} + 2a_{884} + a_{897} + \\
& 2a_{902} + 2a_{904} + a_{908} - a_{909} + a_{922} + a_{925} + \\
& a_{930} - a_{939} - a_{950} + 2a_{951} + a_{991} - 2a_{1011} - \\
& a_{513} + a_{515} + a_{530} + a_{537}
\end{aligned}
$$

$$
a_{1329} = \frac{a_{817} + \sqrt{a_{817}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & 2a_{116} + a_{66} - 2a_{180} + a_{183} - a_{194} + a_{224} - \\
& a_{311} + a_{318} + a_{324} + a_{327} + a_{330} - 2a_{372} - \\
& a_{386} + a_{398} + a_{428} - a_{830} - a_{836} - a_{839} - \\
& a_{842} + a_{858} - a_{864} + a_{866} + 2a_{885} + a_{898} + \\
& 2a_{903} + 2a_{905} + a_{909} - a_{910} + a_{923} + a_{926} + \\
& a_{931} - a_{940} - a_{951} + 2a_{952} + a_{992} - 2a_{1012} - \\
& a_{514} + a_{516} + a_{531} + a_{538}
\end{aligned}
$$

$$
a_{1330} = \frac{a_{818} - \sqrt{a_{818}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & 2a_{117} + a_{67} - 2a_{181} + a_{184} - a_{195} + a_{225} - \\
& a_{312} + a_{319} + a_{325} + a_{328} + a_{331} - 2a_{373} - \\
& a_{387} + a_{399} + a_{429} - a_{831} - a_{837} - a_{840} - \\
& a_{843} + a_{859} - a_{865} + a_{867} + 2a_{886} + a_{899} + \\
& 2a_{904} + 2a_{906} + a_{910} - a_{911} + a_{924} + a_{927} + \\
& a_{932} - a_{941} - a_{952} + 2a_{953} + a_{993} - 2a_{1013} - \\
& a_{515} + a_{517} + a_{532} + a_{539}
\end{aligned}
$$

$$
a_{1331} = \frac{a_{819} + \sqrt{a_{819}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x = {} & 2a_{118} + a_{68} - 2a_{182} + a_{185} - a_{196} + a_{226} -
\end{aligned}
$$

$$
\begin{aligned}
& a_{313} + a_{320} + a_{326} + a_{329} + a_{332} - 2a_{374} - \\
& a_{388} + a_{400} + a_{430} - a_{832} - a_{838} - a_{841} - \\
& a_{844} + a_{860} - a_{866} + a_{868} + 2a_{887} + a_{900} + \\
& 2a_{905} + 2a_{907} + a_{911} - a_{912} + a_{925} + a_{928} + \\
& a_{933} - a_{942} - a_{953} + 2a_{954} + a_{994} - 2a_{1014} - \\
& a_{516} + a_{518} + a_{533} + a_{540}
\end{aligned}
$$

$$
\begin{aligned}
a_{1332} &= \frac{a_{820} + \sqrt{a_{820}^2 - 4x}}{2} \\
x &= 2a_{119} + a_{69} - 2a_{183} + a_{186} - a_{197} + a_{227} - \\
& a_{314} + a_{321} + a_{327} + a_{330} + a_{333} - 2a_{375} - \\
& a_{389} + a_{401} + a_{431} - a_{833} - a_{839} - a_{842} - \\
& a_{845} + a_{861} - a_{867} + a_{869} + 2a_{888} + a_{901} + \\
& 2a_{906} + 2a_{908} + a_{912} - a_{913} + a_{926} + a_{929} + \\
& a_{934} - a_{943} - a_{954} + 2a_{955} + a_{995} - 2a_{1015} - \\
& a_{517} + a_{519} + a_{534} + a_{541} \\
a_{1333} &= \frac{a_{821} + \sqrt{a_{821}^2 - 4x}}{2} \\
x &= 2a_{120} + a_{70} - 2a_{184} + a_{187} - a_{198} + a_{228} - \\
& a_{315} + a_{322} + a_{328} + a_{331} + a_{334} - 2a_{376} - \\
& a_{390} + a_{402} + a_{432} - a_{834} - a_{840} - a_{843} - \\
& a_{846} + a_{862} - a_{868} + a_{870} + 2a_{889} + a_{902} + \\
& 2a_{907} + 2a_{909} + a_{913} - a_{914} + a_{927} + a_{930} + \\
& a_{935} - a_{944} - a_{955} + 2a_{956} + a_{996} - 2a_{1016} - \\
& a_{518} + a_{520} + a_{535} + a_{542} \\
a_{1334} &= \frac{a_{822} + \sqrt{a_{822}^2 - 4x}}{2} \\
x &= 2a_{121} + a_{71} - 2a_{185} + a_{188} - a_{199} + a_{229} - \\
& a_{316} + a_{323} + a_{329} + a_{332} + a_{335} - 2a_{377} - \\
& a_{391} + a_{403} + a_{433} - a_{835} - a_{841} - a_{844} - \\
& a_{847} + a_{863} - a_{869} + a_{871} + 2a_{890} + a_{903} + \\
& 2a_{908} + 2a_{910} + a_{914} - a_{915} + a_{928} + a_{931} + \\
& a_{936} - a_{945} - a_{956} + 2a_{957} + a_{997} - 2a_{1017} - \\
& a_{519} + a_{521} + a_{536} + a_{543} \\
a_{1335} &= \frac{a_{823} - \sqrt{a_{823}^2 - 4x}}{2} \\
x &= 2a_{122} + a_{72} - 2a_{186} + a_{189} - a_{200} + a_{230} - \\
& a_{317} + a_{324} + a_{330} + a_{333} + a_{336} - 2a_{378} - \\
& a_{392} + a_{404} + a_{434} - a_{836} - a_{842} - a_{845} - \\
& a_{848} + a_{864} - a_{870} + a_{872} + 2a_{891} + a_{904} + \\
& 2a_{909} + 2a_{911} + a_{915} - a_{916} + a_{929} + a_{932} + \\
& a_{937} - a_{946} - a_{957} + 2a_{958} + a_{998} - 2a_{1018} - \\
& a_{520} + a_{522} + a_{537} + a_{544} \\
a_{1336} &= \frac{a_{824} + \sqrt{a_{824}^2 - 4x}}{2} \\
x &= 2a_{123} + a_{73} - 2a_{187} + a_{190} - a_{201} + a_{231} - \\
& a_{318} + a_{325} + a_{331} + a_{334} + a_{337} - 2a_{379} - \\
& a_{393} + a_{405} + a_{435} - a_{837} - a_{843} - a_{846} - \\
& a_{849} + a_{865} - a_{871} + a_{873} + 2a_{892} + a_{905} + \\
& 2a_{910} + 2a_{912} + a_{916} - a_{917} + a_{930} + a_{933} + \\
& a_{938} - a_{947} - a_{958} + 2a_{959} + a_{999} - 2a_{1019} - \\
& a_{521} + a_{523} + a_{538} + a_{545} \\
a_{1337} &= \frac{a_{825} + \sqrt{a_{825}^2 - 4x}}{2} \\
x &= 2a_{124} + a_{74} - 2a_{188} + a_{191} - a_{202} + a_{232} - \\
& a_{319} + a_{326} + a_{332} + a_{335} + a_{338} - 2a_{380} - \\
& a_{394} + a_{406} + a_{436} - a_{838} - a_{844} - a_{847} - \\
& a_{850} + a_{866} - a_{872} + a_{874} + 2a_{893} + a_{906} + \\
& 2a_{911} + 2a_{913} + a_{917} - a_{918} + a_{931} + a_{934} + \\
& a_{939} - a_{948} - a_{959} + 2a_{960} + a_{1000} - 2a_{1020} - \\
& a_{522} + a_{524} + a_{539} + a_{546} \\
a_{1338} &= \frac{a_{826} - \sqrt{a_{826}^2 - 4x}}{2} \\
x &= 2a_{125} + a_{75} - 2a_{189} + a_{192} - a_{203} + a_{233} - \\
& a_{320} + a_{327} + a_{333} + a_{336} + a_{339} - 2a_{381} - \\
& a_{395} + a_{407} + a_{437} - a_{839} - a_{845} - a_{848} - \\
& a_{851} + a_{867} - a_{873} + a_{875} + 2a_{894} + a_{907} + \\
& 2a_{912} + 2a_{914} + a_{918} - a_{919} + a_{932} + a_{935} + \\
& a_{940} - a_{949} - a_{960} + 2a_{961} + a_{1001} - 2a_{1021} - \\
& a_{523} + a_{525} + a_{540} + a_{547} \\
a_{1339} &= \frac{a_{827} - \sqrt{a_{827}^2 - 4x}}{2} \\
x &= 2a_{63} + a_{77} - 2a_{191} + a_{194} - a_{205} + a_{235} - \\
& a_{322} + a_{329} + a_{335} + a_{338} + a_{341} - 2a_{383} - \\
& a_{397} + a_{409} + a_{439} - a_{841} - a_{847} - a_{850} - \\
& a_{853} + a_{869} - a_{875} + a_{877} + 2a_{896} + a_{909} + \\
& 2a_{914} + 2a_{916} + a_{920} - a_{921} + a_{934} + a_{937} + \\
& a_{942} - a_{951} - a_{962} + 2a_{963} + a_{1003} - 2a_{511} - \\
& a_{525} + a_{527} + a_{542} + a_{549} \\
a_{1341} &= \frac{a_{829} - \sqrt{a_{829}^2 - 4x}}{2} \\
x &= 2a_{64} + a_{78} - 2a_{192} + a_{195} - a_{206} + a_{236} - \\
& a_{323} + a_{330} + a_{336} + a_{339} + a_{342} - 2a_{384} - \\
& a_{398} + a_{410} + a_{440} - a_{842} - a_{848} - a_{851} - \\
& a_{854} + a_{870} - a_{876} + a_{878} + 2a_{897} + a_{910} + \\
& 2a_{915} + 2a_{917} + a_{921} - a_{922} + a_{935} + a_{938} + \\
& a_{943} - a_{952} - a_{963} + 2a_{964} + a_{1004} - 2a_{512} - \\
& a_{526} + a_{528} + a_{543} + a_{550} \\
a_{1342} &= \frac{a_{830} + \sqrt{a_{830}^2 - 4x}}{2} \\
x &= 2a_{66} + a_{80} - 2a_{194} + a_{197} - a_{208} + a_{238} - \\
& a_{325} + a_{332} + a_{338} + a_{341} + a_{344} - 2a_{386} - \\
& a_{400} + a_{412} + a_{442} - a_{844} - a_{850} - a_{853} - \\
& a_{856} + a_{872} - a_{878} + a_{880} + 2a_{899} + a_{912} + \\
& 2a_{917} + 2a_{919} + a_{923} - a_{924} + a_{937} + a_{940} + \\
& a_{945} - a_{954} - a_{965} + 2a_{966} + a_{1006} - 2a_{514} - \\
& a_{528} + a_{530} + a_{545} + a_{552}
\end{aligned}
$$

$$
a_{1344} = \frac{a_{832} - \sqrt{a_{832}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x &= 2a_{67} + a_{81} - 2a_{195} + a_{198} - a_{209} + a_{239} - \\
&\quad a_{326} + a_{333} + a_{339} + a_{342} + a_{345} - 2a_{387} - \\
&\quad a_{401} + a_{413} + a_{443} - a_{845} - a_{851} - a_{854} - \\
&\quad a_{857} + a_{873} - a_{879} + a_{881} + 2a_{900} + a_{913} + \\
&\quad 2a_{918} + 2a_{920} + a_{924} - a_{925} + a_{938} + a_{941} + \\
&\quad a_{946} - a_{955} - a_{966} + 2a_{967} + a_{1007} - 2a_{515} - \\
&\quad a_{529} + a_{531} + a_{546} + a_{553} \\
a_{1345} &= \frac{a_{833} - \sqrt{a_{833}^2 - 4x}}{2} \\
x &= 2a_{68} + a_{82} - 2a_{196} + a_{199} - a_{210} + a_{240} - \\
&\quad a_{327} + a_{334} + a_{340} + a_{343} + a_{346} - 2a_{388} - \\
&\quad a_{402} + a_{414} + a_{444} - a_{846} - a_{852} - a_{855} - \\
&\quad a_{858} + a_{874} - a_{880} + a_{882} + 2a_{901} + a_{914} + \\
&\quad 2a_{919} + 2a_{921} + a_{925} - a_{926} + a_{939} + a_{942} + \\
&\quad a_{947} - a_{956} - a_{967} + 2a_{968} + a_{1008} - 2a_{516} - \\
&\quad a_{530} + a_{532} + a_{547} + a_{554} \\
a_{1346} &= \frac{a_{834} - \sqrt{a_{834}^2 - 4x}}{2} \\
x &= 2a_{70} + a_{84} - 2a_{198} + a_{201} - a_{212} + a_{242} - \\
&\quad a_{329} + a_{336} + a_{342} + a_{345} + a_{348} - 2a_{390} - \\
&\quad a_{404} + a_{416} + a_{446} - a_{848} - a_{854} - a_{857} - \\
&\quad a_{860} + a_{876} - a_{882} + a_{884} + 2a_{903} + a_{916} + \\
&\quad 2a_{921} + 2a_{923} + a_{927} - a_{928} + a_{941} + a_{944} + \\
&\quad a_{949} - a_{958} - a_{969} + 2a_{970} + a_{1010} - 2a_{518} - \\
&\quad a_{532} + a_{534} + a_{549} + a_{556} \\
a_{1348} &= \frac{a_{836} + \sqrt{a_{836}^2 - 4x}}{2} \\
x &= 2a_{71} + a_{85} - 2a_{199} + a_{202} - a_{213} + a_{243} - \\
&\quad a_{330} + a_{337} + a_{343} + a_{346} + a_{349} - 2a_{391} - \\
&\quad a_{405} + a_{417} + a_{447} - a_{849} - a_{855} - a_{858} - \\
&\quad a_{861} + a_{877} - a_{883} + a_{885} + 2a_{904} + a_{917} + \\
&\quad 2a_{922} + 2a_{924} + a_{928} - a_{929} + a_{942} + a_{945} + \\
&\quad a_{950} - a_{959} - a_{970} + 2a_{971} + a_{1011} - 2a_{519} - \\
&\quad a_{533} + a_{535} + a_{550} + a_{557} \\
a_{1349} &= \frac{a_{837} - \sqrt{a_{837}^2 - 4x}}{2} \\
x &= 2a_{72} + a_{86} - 2a_{200} + a_{203} - a_{214} + a_{244} - \\
&\quad a_{331} + a_{338} + a_{344} + a_{347} + a_{350} - 2a_{392} - \\
&\quad a_{406} + a_{418} + a_{448} - a_{850} - a_{856} - a_{859} - \\
&\quad a_{862} + a_{878} - a_{884} + a_{886} + 2a_{905} + a_{918} + \\
&\quad 2a_{923} + 2a_{925} + a_{929} - a_{930} + a_{943} + a_{946} + \\
&\quad a_{951} - a_{960} - a_{971} + 2a_{972} + a_{1012} - 2a_{520} - \\
&\quad a_{534} + a_{536} + a_{551} + a_{558} \\
a_{1350} &= \frac{a_{838} + \sqrt{a_{838}^2 - 4x}}{2} \\
x &= 2a_{73} + a_{87} - 2a_{201} + a_{204} - a_{215} + a_{245} - \\
&\quad a_{332} + a_{339} + a_{345} + a_{348} + a_{351} - 2a_{393} - \\
&\quad a_{407} + a_{419} + a_{449} - a_{851} - a_{857} - a_{860} - \\
&\quad a_{863} + a_{879} - a_{885} + a_{887} + 2a_{906} + a_{919} + \\
&\quad 2a_{924} + 2a_{926} + a_{930} - a_{931} + a_{944} + a_{947} + \\
&\quad a_{952} - a_{961} - a_{972} + 2a_{973} + a_{1013} - 2a_{521} - \\
&\quad a_{535} + a_{537} + a_{552} + a_{559} \\
a_{1351} &= \frac{a_{839} - \sqrt{a_{839}^2 - 4x}}{2} \\
x &= 2a_{74} + a_{88} - 2a_{202} + a_{205} - a_{216} + a_{246} - \\
&\quad a_{333} + a_{340} + a_{346} + a_{349} + a_{352} - 2a_{394} - \\
&\quad a_{408} + a_{420} + a_{450} - a_{852} - a_{858} - a_{861} - \\
&\quad a_{864} + a_{880} - a_{886} + a_{888} + 2a_{907} + a_{920} + \\
&\quad 2a_{925} + 2a_{927} + a_{931} - a_{932} + a_{945} + a_{948} + \\
&\quad a_{953} - a_{962} - a_{973} + 2a_{974} + a_{1014} - 2a_{522} - \\
&\quad a_{536} + a_{538} + a_{553} + a_{560} \\
a_{1352} &= \frac{a_{840} + \sqrt{a_{840}^2 - 4x}}{2} \\
x &= 2a_{75} + a_{89} - 2a_{203} + a_{206} - a_{217} + a_{247} - \\
&\quad a_{334} + a_{341} + a_{347} + a_{350} + a_{353} - 2a_{395} - \\
&\quad a_{409} + a_{421} + a_{451} - a_{853} - a_{859} - a_{862} - \\
&\quad a_{865} + a_{881} - a_{887} + a_{889} + 2a_{908} + a_{921} + \\
&\quad 2a_{926} + 2a_{928} + a_{932} - a_{933} + a_{946} + a_{949} + \\
&\quad a_{954} - a_{963} - a_{974} + 2a_{975} + a_{1015} - 2a_{523} - \\
&\quad a_{537} + a_{539} + a_{554} + a_{561} \\
a_{1353} &= \frac{a_{841} - \sqrt{a_{841}^2 - 4x}}{2} \\
x &= 2a_{76} + a_{90} - 2a_{204} + a_{207} - a_{218} + a_{248} - \\
&\quad a_{335} + a_{342} + a_{348} + a_{351} + a_{354} - 2a_{396} - \\
&\quad a_{410} + a_{422} + a_{452} - a_{854} - a_{860} - a_{863} - \\
&\quad a_{866} + a_{882} - a_{888} + a_{890} + 2a_{909} + a_{922} + \\
&\quad 2a_{927} + 2a_{929} + a_{933} - a_{934} + a_{947} + a_{950} + \\
&\quad a_{955} - a_{964} - a_{975} + 2a_{976} + a_{1016} - 2a_{524} - \\
&\quad a_{538} + a_{540} + a_{555} + a_{562} \\
a_{1354} &= \frac{a_{842} + \sqrt{a_{842}^2 - 4x}}{2} \\
x &= 2a_{77} + a_{91} - 2a_{205} + a_{208} - a_{219} + a_{249} - \\
&\quad a_{336} + a_{343} + a_{349} + a_{352} + a_{355} - 2a_{397} - \\
&\quad a_{411} + a_{423} + a_{453} - a_{855} - a_{861} - a_{864} - \\
&\quad a_{867} + a_{883} - a_{889} + a_{891} + 2a_{910} + a_{923} + \\
&\quad 2a_{928} + 2a_{930} + a_{934} - a_{935} + a_{948} + a_{951} + \\
&\quad a_{956} - a_{965} - a_{976} + 2a_{977} + a_{1017} - 2a_{525} - \\
&\quad a_{539} + a_{541} + a_{556} + a_{563} \\
a_{1355} &= \frac{a_{843} - \sqrt{a_{843}^2 - 4x}}{2} \\
x &= 2a_{78} + a_{92} - 2a_{206} + a_{209} - a_{220} + a_{250} - \\
&\quad a_{337} + a_{344} + a_{350} + a_{353} + a_{356} - 2a_{398} - \\
&\quad a_{412} + a_{424} + a_{454} - a_{856} - a_{862} - a_{865} - \\
&\quad a_{868} + a_{884} - a_{890} + a_{892} + 2a_{911} + a_{924} + \\
&\quad 2a_{929} + 2a_{931} + a_{935} - a_{936} + a_{949} + a_{952} + \\
&\quad a_{957} - a_{966} - a_{977} + 2a_{978} + a_{1018} - 2a_{526} - \\
&\quad a_{540} + a_{542} + a_{557} + a_{564} \\
a_{1356} &= \frac{a_{844} + \sqrt{a_{844}^2 - 4x}}{2}
\end{aligned}
$$

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\begin{aligned}
x &= 2a_{79} + a_{93} - 2a_{207} + a_{210} - a_{221} + a_{251} - \\
&\quad a_{338} + a_{345} + a_{351} + a_{354} + a_{357} - 2a_{399} - \\
&\quad a_{413} + a_{425} + a_{455} - a_{857} - a_{863} - a_{866} - \\
&\quad a_{869} + a_{885} - a_{891} + a_{893} + 2a_{912} + a_{925} + \\
&\quad 2a_{930} + 2a_{932} + a_{936} - a_{937} + a_{950} + a_{953} + \\
&\quad a_{958} - a_{967} - a_{978} + 2a_{979} + a_{1019} - 2a_{527} - \\
&\quad a_{541} + a_{543} + a_{558} + a_{565} \\
a_{1357} &= \frac{a_{845} + \sqrt{a_{845}^2 - 4x}}{2} \\
x &= 2a_{80} + a_{94} - 2a_{208} + a_{211} - a_{222} + a_{252} - \\
&\quad a_{339} + a_{346} + a_{352} + a_{355} + a_{358} - 2a_{400} - \\
&\quad a_{414} + a_{426} + a_{456} - a_{858} - a_{864} - a_{867} - \\
&\quad a_{870} + a_{886} - a_{892} + a_{894} + 2a_{913} + a_{926} + \\
&\quad 2a_{931} + 2a_{933} + a_{937} - a_{938} + a_{951} + a_{954} + \\
&\quad a_{959} - a_{968} - a_{979} + 2a_{980} + a_{1020} - 2a_{528} - \\
&\quad a_{542} + a_{544} + a_{559} + a_{566} \\
a_{1358} &= \frac{a_{846} - \sqrt{a_{846}^2 - 4x}}{2} \\
x &= 2a_{81} + a_{95} - 2a_{209} + a_{212} - a_{223} + a_{253} - \\
&\quad a_{340} + a_{347} + a_{353} + a_{356} + a_{359} - 2a_{401} - \\
&\quad a_{415} + a_{427} + a_{457} - a_{859} - a_{865} - a_{868} - \\
&\quad a_{871} + a_{887} - a_{893} + a_{895} + 2a_{914} + a_{927} + \\
&\quad 2a_{932} + 2a_{934} + a_{938} - a_{939} + a_{952} + a_{955} + \\
&\quad a_{960} - a_{969} - a_{980} + 2a_{981} + a_{1021} - 2a_{529} - \\
&\quad a_{543} + a_{545} + a_{560} + a_{567} \\
a_{1359} &= \frac{a_{847} - \sqrt{a_{847}^2 - 4x}}{2} \\
x &= 2a_{82} + a_{96} - 2a_{210} + a_{213} - a_{224} + a_{254} - \\
&\quad a_{341} + a_{348} + a_{354} + a_{357} + a_{360} - 2a_{402} - \\
&\quad a_{416} + a_{428} + a_{458} - a_{860} - a_{866} - a_{869} - \\
&\quad a_{872} + a_{888} - a_{894} + a_{896} + 2a_{915} + a_{928} + \\
&\quad 2a_{933} + 2a_{935} + a_{939} - a_{940} + a_{953} + a_{956} + \\
&\quad a_{961} - a_{970} - a_{981} + 2a_{982} + a_{1022} - 2a_{530} - \\
&\quad a_{544} + a_{546} + a_{561} + a_{568} \\
a_{1360} &= \frac{a_{848} - \sqrt{a_{848}^2 - 4x}}{2} \\
x &= 2a_{83} + a_{97} - 2a_{211} + a_{214} - a_{225} + a_{127} - \\
&\quad a_{342} + a_{349} + a_{355} + a_{358} + a_{361} - 2a_{403} - \\
&\quad a_{417} + a_{429} + a_{459} - a_{861} - a_{867} - a_{870} - \\
&\quad a_{873} + a_{889} - a_{895} + a_{897} + 2a_{916} + a_{929} + \\
&\quad 2a_{934} + 2a_{936} + a_{940} - a_{941} + a_{954} + a_{957} + \\
&\quad a_{962} - a_{971} - a_{982} + 2a_{983} + a_{511} - 2a_{531} - \\
&\quad a_{545} + a_{547} + a_{562} + a_{569} \\
a_{1361} &= \frac{a_{849} - \sqrt{a_{849}^2 - 4x}}{2} \\
x &= 2a_{84} + a_{98} - 2a_{212} + a_{215} - a_{226} + a_{128} - \\
&\quad a_{343} + a_{350} + a_{356} + a_{359} + a_{362} - 2a_{404} - \\
&\quad a_{418} + a_{430} + a_{460} - a_{862} - a_{868} - a_{871} - \\
&\quad a_{874} + a_{890} - a_{896} + a_{898} + 2a_{917} + a_{930} + \\
&\quad 2a_{935} + 2a_{937} + a_{941} - a_{942} + a_{955} + a_{958} + \\
&\quad a_{963} - a_{972} - a_{983} + 2a_{984} + a_{512} - 2a_{532} - \\
&\quad a_{546} + a_{548} + a_{563} + a_{570} \\
a_{1362} &= \frac{a_{850} - \sqrt{a_{850}^2 - 4x}}{2} \\
x &= 2a_{85} + a_{99} - 2a_{213} + a_{216} - a_{227} + a_{129} - \\
&\quad a_{344} + a_{351} + a_{357} + a_{360} + a_{363} - 2a_{405} - \\
&\quad a_{419} + a_{431} + a_{461} - a_{863} - a_{869} - a_{872} - \\
&\quad a_{875} + a_{891} - a_{897} + a_{899} + 2a_{918} + a_{931} + \\
&\quad 2a_{936} + 2a_{938} + a_{942} - a_{943} + a_{956} + a_{959} + \\
&\quad a_{964} - a_{973} - a_{984} + 2a_{985} + a_{513} - 2a_{533} - \\
&\quad a_{547} + a_{549} + a_{564} + a_{571} \\
a_{1363} &= \frac{a_{851} - \sqrt{a_{851}^2 - 4x}}{2} \\
x &= 2a_{86} + a_{100} - 2a_{214} + a_{217} - a_{228} + a_{130} - \\
&\quad a_{345} + a_{352} + a_{358} + a_{361} + a_{364} - 2a_{406} - \\
&\quad a_{420} + a_{432} + a_{462} - a_{864} - a_{870} - a_{873} - \\
&\quad a_{876} + a_{892} - a_{898} + a_{900} + 2a_{919} + a_{932} + \\
&\quad 2a_{937} + 2a_{939} + a_{943} - a_{944} + a_{957} + a_{960} + \\
&\quad a_{965} - a_{974} - a_{985} + 2a_{986} + a_{514} - 2a_{534} - \\
&\quad a_{548} + a_{550} + a_{565} + a_{572} \\
a_{1364} &= \frac{a_{852} + \sqrt{a_{852}^2 - 4x}}{2} \\
x &= 2a_{87} + a_{101} - 2a_{215} + a_{218} - a_{229} + a_{131} - \\
&\quad a_{346} + a_{353} + a_{359} + a_{362} + a_{365} - 2a_{407} - \\
&\quad a_{421} + a_{433} + a_{463} - a_{865} - a_{871} - a_{874} - \\
&\quad a_{877} + a_{893} - a_{899} + a_{901} + 2a_{920} + a_{933} + \\
&\quad 2a_{938} + 2a_{940} + a_{944} - a_{945} + a_{958} + a_{961} + \\
&\quad a_{966} - a_{975} - a_{986} + 2a_{987} + a_{515} - 2a_{535} - \\
&\quad a_{549} + a_{551} + a_{566} + a_{573} \\
a_{1365} &= \frac{a_{853} - \sqrt{a_{853}^2 - 4x}}{2} \\
x &= 2a_{88} + a_{102} - 2a_{216} + a_{219} - a_{230} + a_{132} - \\
&\quad a_{347} + a_{354} + a_{360} + a_{363} + a_{366} - 2a_{408} - \\
&\quad a_{422} + a_{434} + a_{464} - a_{866} - a_{872} - a_{875} - \\
&\quad a_{878} + a_{894} - a_{900} + a_{902} + 2a_{921} + a_{934} + \\
&\quad 2a_{939} + 2a_{941} + a_{945} - a_{946} + a_{959} + a_{962} + \\
&\quad a_{967} - a_{976} - a_{987} + 2a_{988} + a_{516} - 2a_{536} - \\
&\quad a_{550} + a_{552} + a_{567} + a_{574} \\
a_{1366} &= \frac{a_{854} + \sqrt{a_{854}^2 - 4x}}{2} \\
x &= 2a_{89} + a_{103} - 2a_{217} + a_{220} - a_{231} + a_{133} - \\
&\quad a_{348} + a_{355} + a_{361} + a_{364} + a_{367} - 2a_{409} - \\
&\quad a_{423} + a_{435} + a_{465} - a_{867} - a_{873} - a_{876} - \\
&\quad a_{879} + a_{895} - a_{901} + a_{903} + 2a_{922} + a_{935} + \\
&\quad 2a_{940} + 2a_{942} + a_{946} - a_{947} + a_{960} + a_{963} + \\
&\quad a_{968} - a_{977} - a_{988} + 2a_{989} + a_{517} - 2a_{537} - \\
&\quad a_{551} + a_{553} + a_{568} + a_{575} \\
a_{1367} &= \frac{a_{855} + \sqrt{a_{855}^2 - 4x}}{2}
\end{aligned}
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\begin{aligned}
x &= 2a_{90} + a_{104} - 2a_{218} + a_{221} - a_{232} + a_{134} - \\
&\quad a_{349} + a_{356} + a_{362} + a_{365} + a_{368} - 2a_{410} - \\
&\quad a_{424} + a_{436} + a_{466} - a_{868} - a_{874} - a_{877} - \\
&\quad a_{880} + a_{896} - a_{902} + a_{904} + 2a_{923} + a_{936} + \\
&\quad 2a_{941} + 2a_{943} + a_{947} - a_{948} + a_{961} + a_{964} + \\
&\quad a_{969} - a_{978} - a_{989} + 2a_{990} + a_{518} - 2a_{538} - \\
&\quad a_{552} + a_{554} + a_{569} + a_{576} \\
a_{1368} &= \frac{a_{856} - \sqrt{a_{856}^2 - 4x}}{2} \\
x &= 2a_{91} + a_{105} - 2a_{219} + a_{222} - a_{233} + a_{135} - \\
&\quad a_{350} + a_{357} + a_{363} + a_{366} + a_{369} - 2a_{411} - \\
&\quad a_{425} + a_{437} + a_{467} - a_{869} - a_{875} - a_{878} - \\
&\quad a_{881} + a_{897} - a_{903} + a_{905} + 2a_{924} + a_{937} + \\
&\quad 2a_{942} + 2a_{944} + a_{948} - a_{949} + a_{962} + a_{965} + \\
&\quad a_{970} - a_{979} - a_{990} + 2a_{991} + a_{519} - 2a_{539} - \\
&\quad a_{553} + a_{555} + a_{570} + a_{577} \\
a_{1369} &= \frac{a_{857} - \sqrt{a_{857}^2 - 4x}}{2} \\
x &= 2a_{94} + a_{108} - 2a_{222} + a_{225} - a_{236} + a_{138} - \\
&\quad a_{353} + a_{360} + a_{366} + a_{369} + a_{372} - 2a_{414} - \\
&\quad a_{428} + a_{440} + a_{470} - a_{872} - a_{878} - a_{881} - \\
&\quad a_{884} + a_{900} - a_{906} + a_{908} + 2a_{927} + a_{940} + \\
&\quad 2a_{945} + 2a_{947} + a_{951} - a_{952} + a_{965} + a_{968} + \\
&\quad a_{973} - a_{982} - a_{993} + 2a_{994} + a_{522} - 2a_{542} - \\
&\quad a_{556} + a_{558} + a_{573} + a_{580} \\
a_{1372} &= \frac{a_{860} + \sqrt{a_{860}^2 - 4x}}{2} \\
x &= 2a_{95} + a_{109} - 2a_{223} + a_{226} - a_{237} + a_{139} - \\
&\quad a_{354} + a_{361} + a_{367} + a_{370} + a_{373} - 2a_{415} - \\
&\quad a_{429} + a_{441} + a_{471} - a_{873} - a_{879} - a_{882} - \\
&\quad a_{885} + a_{901} - a_{907} + a_{909} + 2a_{928} + a_{941} + \\
&\quad 2a_{946} + 2a_{948} + a_{952} - a_{953} + a_{966} + a_{969} + \\
&\quad a_{974} - a_{983} - a_{994} + 2a_{995} + a_{523} - 2a_{543} - \\
&\quad a_{557} + a_{559} + a_{574} + a_{581} \\
a_{1373} &= \frac{a_{861} - \sqrt{a_{861}^2 - 4x}}{2} \\
x &= 2a_{96} + a_{110} - 2a_{224} + a_{227} - a_{238} + a_{140} - \\
&\quad a_{355} + a_{362} + a_{368} + a_{371} + a_{374} - 2a_{416} - \\
&\quad a_{430} + a_{442} + a_{472} - a_{874} - a_{880} - a_{883} - \\
&\quad a_{886} + a_{902} - a_{908} + a_{910} + 2a_{929} + a_{942} + \\
&\quad 2a_{947} + 2a_{949} + a_{953} - a_{954} + a_{967} + a_{970} + \\
&\quad a_{975} - a_{984} - a_{995} + 2a_{996} + a_{524} - 2a_{544} - \\
&\quad a_{558} + a_{560} + a_{575} + a_{582} \\
a_{1374} &= \frac{a_{862} + \sqrt{a_{862}^2 - 4x}}{2} \\
x &= 2a_{97} + a_{111} - 2a_{225} + a_{228} - a_{239} + a_{141} - \\
&\quad a_{356} + a_{363} + a_{369} + a_{372} + a_{375} - 2a_{417} - \\
&\quad a_{431} + a_{443} + a_{473} - a_{875} - a_{881} - a_{884} - \\
&\quad a_{887} + a_{903} - a_{909} + a_{911} + 2a_{930} + a_{943} + \\
&\quad 2a_{948} + 2a_{950} + a_{954} - a_{955} + a_{968} + a_{971} + \\
&\quad a_{976} - a_{985} - a_{996} + 2a_{997} + a_{525} - 2a_{545} - \\
&\quad a_{559} + a_{561} + a_{576} + a_{583} \\
a_{1375} &= \frac{a_{863} + \sqrt{a_{863}^2 - 4x}}{2} \\
x &= 2a_{98} + a_{112} - 2a_{226} + a_{229} - a_{240} + a_{142} - \\
&\quad a_{357} + a_{364} + a_{370} + a_{373} + a_{376} - 2a_{418} - \\
&\quad a_{432} + a_{444} + a_{474} - a_{876} - a_{882} - a_{885} - \\
&\quad a_{888} + a_{904} - a_{910} + a_{912} + 2a_{931} + a_{944} + \\
&\quad 2a_{949} + 2a_{951} + a_{955} - a_{956} + a_{969} + a_{972} + \\
&\quad a_{977} - a_{986} - a_{997} + 2a_{998} + a_{526} - 2a_{546} - \\
&\quad a_{560} + a_{562} + a_{577} + a_{584} \\
a_{1376} &= \frac{a_{864} + \sqrt{a_{864}^2 - 4x}}{2} \\
x &= 2a_{99} + a_{113} - 2a_{227} + a_{230} - a_{241} + a_{143} - \\
&\quad a_{358} + a_{365} + a_{371} + a_{374} + a_{377} - 2a_{419} - \\
&\quad a_{433} + a_{445} + a_{475} - a_{877} - a_{883} - a_{886} - \\
&\quad a_{889} + a_{905} - a_{911} + a_{913} + 2a_{932} + a_{945} + \\
&\quad 2a_{950} + 2a_{952} + a_{956} - a_{957} + a_{970} + a_{973} + \\
&\quad a_{978} - a_{987} - a_{998} + 2a_{999} + a_{527} - 2a_{547} - \\
&\quad a_{561} + a_{563} + a_{578} + a_{585} \\
a_{1377} &= \frac{a_{865} - \sqrt{a_{865}^2 - 4x}}{2} \\
x &= 2a_{100} + a_{114} - 2a_{228} + a_{231} - a_{242} + a_{144} - \\
&\quad a_{359} + a_{366} + a_{372} + a_{375} + a_{378} - 2a_{420} - \\
&\quad a_{434} + a_{446} + a_{476} - a_{878} - a_{884} - a_{887} - \\
&\quad a_{890} + a_{906} - a_{912} + a_{914} + 2a_{933} + a_{946} + \\
&\quad 2a_{951} + 2a_{953} + a_{957} - a_{958} + a_{971} + a_{974} + \\
&\quad a_{979} - a_{988} - a_{999} + 2a_{1000} + a_{528} - 2a_{548} - \\
&\quad a_{562} + a_{564} + a_{579} + a_{586} \\
a_{1378} &= \frac{a_{866} + \sqrt{a_{866}^2 - 4x}}{2} \\
x &= 2a_{101} + a_{115} - 2a_{229} + a_{232} - a_{243} + a_{145} - \\
&\quad a_{360} + a_{367} + a_{373} + a_{376} + a_{379} - 2a_{421} - \\
&\quad a_{435} + a_{447} + a_{477} - a_{879} - a_{885} - a_{888} - \\
&\quad a_{891} + a_{907} - a_{913} + a_{915} + 2a_{934} + a_{947} + \\
&\quad 2a_{952} + 2a_{954} + a_{958} - a_{959} + a_{972} + a_{975} + \\
&\quad a_{980} - a_{989} - a_{1000} + 2a_{1001} + a_{529} - 2a_{549} - \\
&\quad a_{563} + a_{565} + a_{580} + a_{587} \\
a_{1379} &= \frac{a_{867} + \sqrt{a_{867}^2 - 4x}}{2} \\
x &= 2a_{102} + a_{116} - 2a_{230} + a_{233} - a_{244} + a_{146} - \\
&\quad a_{361} + a_{368} + a_{374} + a_{377} + a_{380} - 2a_{422} - \\
&\quad a_{436} + a_{448} + a_{478} - a_{880} - a_{886} - a_{889} - \\
&\quad a_{892} + a_{908} - a_{914} + a_{916} + 2a_{935} + a_{948} + \\
&\quad 2a_{953} + 2a_{955} + a_{959} - a_{960} + a_{973} + a_{976} + \\
&\quad a_{981} - a_{990} - a_{1001} + 2a_{1002} + a_{530} - 2a_{550} - \\
&\quad a_{564} + a_{566} + a_{581} + a_{588} \\
a_{1380} &= \frac{a_{868} - \sqrt{a_{868}^2 - 4x}}{2}
\end{aligned}
$$

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\begin{aligned}
x &= 2a_{103} + a_{117} - 2a_{231} + a_{234} - a_{245} + a_{147} - \\
&\quad a_{362} + a_{369} + a_{375} + a_{378} + a_{381} - 2a_{423} - \\
&\quad a_{437} + a_{449} + a_{479} - a_{881} - a_{887} - a_{890} - \\
&\quad a_{893} + a_{909} - a_{915} + a_{917} + 2a_{936} + a_{949} + \\
&\quad 2a_{954} + 2a_{956} + a_{960} - a_{961} + a_{974} + a_{977} + \\
&\quad a_{982} - a_{991} - a_{1002} + 2a_{1003} + a_{531} - 2a_{551} - \\
&\quad a_{565} + a_{567} + a_{582} + a_{589} \\
a_{1381} &= \frac{a_{869} + \sqrt{a_{869}^2 - 4x}}{2} \\
x &= 2a_{104} + a_{118} - 2a_{232} + a_{235} - a_{246} + a_{148} - \\
&\quad a_{363} + a_{370} + a_{376} + a_{379} + a_{382} - 2a_{424} - \\
&\quad a_{438} + a_{450} + a_{480} - a_{882} - a_{888} - a_{891} - \\
&\quad a_{894} + a_{910} - a_{916} + a_{918} + 2a_{937} + a_{950} + \\
&\quad 2a_{955} + 2a_{957} + a_{961} - a_{962} + a_{975} + a_{978} + \\
&\quad a_{983} - a_{992} - a_{1003} + 2a_{1004} + a_{532} - 2a_{552} - \\
&\quad a_{566} + a_{568} + a_{583} + a_{590} \\
a_{1382} &= \frac{a_{870} + \sqrt{a_{870}^2 - 4x}}{2} \\
x &= 2a_{105} + a_{119} - 2a_{233} + a_{236} - a_{247} + a_{149} - \\
&\quad a_{364} + a_{371} + a_{377} + a_{380} + a_{383} - 2a_{425} - \\
&\quad a_{439} + a_{451} + a_{481} - a_{883} - a_{889} - a_{892} - \\
&\quad a_{895} + a_{911} - a_{917} + a_{919} + 2a_{938} + a_{951} + \\
&\quad 2a_{956} + 2a_{958} + a_{962} - a_{963} + a_{976} + a_{979} + \\
&\quad a_{984} - a_{993} - a_{1004} + 2a_{1005} + a_{533} - 2a_{553} - \\
&\quad a_{567} + a_{569} + a_{584} + a_{591} \\
a_{1383} &= \frac{a_{871} - \sqrt{a_{871}^2 - 4x}}{2} \\
x &= 2a_{106} + a_{120} - 2a_{234} + a_{237} - a_{248} + a_{150} - \\
&\quad a_{365} + a_{372} + a_{378} + a_{381} + a_{384} - 2a_{426} - \\
&\quad a_{440} + a_{452} + a_{482} - a_{884} - a_{890} - a_{893} - \\
&\quad a_{896} + a_{912} - a_{918} + a_{920} + 2a_{939} + a_{952} + \\
&\quad 2a_{957} + 2a_{959} + a_{963} - a_{964} + a_{977} + a_{980} + \\
&\quad a_{985} - a_{994} - a_{1005} + 2a_{1006} + a_{534} - 2a_{554} - \\
&\quad a_{568} + a_{570} + a_{585} + a_{592} \\
a_{1384} &= \frac{a_{872} + \sqrt{a_{872}^2 - 4x}}{2} \\
x &= 2a_{107} + a_{121} - 2a_{235} + a_{238} - a_{249} + a_{151} - \\
&\quad a_{366} + a_{373} + a_{379} + a_{382} + a_{385} - 2a_{427} - \\
&\quad a_{441} + a_{453} + a_{483} - a_{885} - a_{891} - a_{894} - \\
&\quad a_{897} + a_{913} - a_{919} + a_{921} + 2a_{940} + a_{953} + \\
&\quad 2a_{958} + 2a_{960} + a_{964} - a_{965} + a_{978} + a_{981} + \\
&\quad a_{986} - a_{995} - a_{1006} + 2a_{1007} + a_{535} - 2a_{555} - \\
&\quad a_{569} + a_{571} + a_{586} + a_{593} \\
a_{1385} &= \frac{a_{873} + \sqrt{a_{873}^2 - 4x}}{2} \\
x &= 2a_{109} + a_{123} - 2a_{237} + a_{240} - a_{251} + a_{153} - \\
&\quad a_{368} + a_{375} + a_{381} + a_{384} + a_{387} - 2a_{429} - \\
&\quad a_{443} + a_{455} + a_{485} - a_{887} - a_{893} - a_{896} - \\
&\quad a_{899} + a_{915} - a_{921} + a_{923} + 2a_{942} + a_{955} + \\
&\quad 2a_{960} + 2a_{962} + a_{966} - a_{967} + a_{980} + a_{983} + \\
&\quad a_{988} - a_{997} - a_{1008} + 2a_{1009} + a_{537} - 2a_{557} - \\
&\quad a_{571} + a_{573} + a_{588} + a_{595} \\
a_{1387} &= \frac{a_{875} - \sqrt{a_{875}^2 - 4x}}{2} \\
x &= 2a_{111} + a_{125} - 2a_{239} + a_{242} - a_{253} + a_{155} - \\
&\quad a_{370} + a_{377} + a_{383} + a_{386} + a_{389} - 2a_{431} - \\
&\quad a_{445} + a_{457} + a_{487} - a_{889} - a_{895} - a_{898} - \\
&\quad a_{901} + a_{917} - a_{923} + a_{925} + 2a_{944} + a_{957} + \\
&\quad 2a_{962} + 2a_{964} + a_{968} - a_{969} + a_{982} + a_{985} + \\
&\quad a_{990} - a_{999} - a_{1010} + 2a_{1011} + a_{539} - 2a_{559} - \\
&\quad a_{573} + a_{575} + a_{590} + a_{597} \\
a_{1389} &= \frac{a_{877} + \sqrt{a_{877}^2 - 4x}}{2} \\
x &= 2a_{112} + a_{126} - 2a_{240} + a_{243} - a_{254} + a_{156} - \\
&\quad a_{371} + a_{378} + a_{384} + a_{387} + a_{390} - 2a_{432} - \\
&\quad a_{446} + a_{458} + a_{488} - a_{890} - a_{896} - a_{899} - \\
&\quad a_{902} + a_{918} - a_{924} + a_{926} + 2a_{945} + a_{958} + \\
&\quad 2a_{963} + 2a_{965} + a_{969} - a_{970} + a_{983} + a_{986} + \\
&\quad a_{991} - a_{1000} - a_{1011} + 2a_{1012} + a_{540} - 2a_{560} - \\
&\quad a_{574} + a_{576} + a_{591} + a_{598} \\
a_{1390} &= \frac{a_{878} - \sqrt{a_{878}^2 - 4x}}{2} \\
x &= 2a_{113} + a_{63} - 2a_{241} + a_{244} - a_{127} + a_{157} - \\
&\quad a_{372} + a_{379} + a_{385} + a_{388} + a_{391} - 2a_{433} - \\
&\quad a_{447} + a_{459} + a_{489} - a_{891} - a_{897} - a_{900} - \\
&\quad a_{903} + a_{919} - a_{925} + a_{927} + 2a_{946} + a_{959} + \\
&\quad 2a_{964} + 2a_{966} + a_{970} - a_{971} + a_{984} + a_{987} + \\
&\quad a_{992} - a_{1001} - a_{1012} + 2a_{1013} + a_{541} - 2a_{561} - \\
&\quad a_{575} + a_{577} + a_{592} + a_{599} \\
a_{1391} &= \frac{a_{879} + \sqrt{a_{879}^2 - 4x}}{2} \\
x &= 2a_{114} + a_{64} - 2a_{242} + a_{245} - a_{128} + a_{158} - \\
&\quad a_{373} + a_{380} + a_{386} + a_{389} + a_{392} - 2a_{434} - \\
&\quad a_{448} + a_{460} + a_{490} - a_{892} - a_{898} - a_{901} - \\
&\quad a_{904} + a_{920} - a_{926} + a_{928} + 2a_{947} + a_{960} + \\
&\quad 2a_{965} + 2a_{967} + a_{971} - a_{972} + a_{985} + a_{988} + \\
&\quad a_{993} - a_{1002} - a_{1013} + 2a_{1014} + a_{542} - 2a_{562} - \\
&\quad a_{576} + a_{578} + a_{593} + a_{600} \\
a_{1392} &= \frac{a_{880} - \sqrt{a_{880}^2 - 4x}}{2} \\
x &= 2a_{115} + a_{65} - 2a_{243} + a_{246} - a_{129} + a_{159} - \\
&\quad a_{374} + a_{381} + a_{387} + a_{390} + a_{393} - 2a_{435} - \\
&\quad a_{449} + a_{461} + a_{491} - a_{893} - a_{899} - a_{902} - \\
&\quad a_{905} + a_{921} - a_{927} + a_{929} + 2a_{948} + a_{961} + \\
&\quad 2a_{966} + 2a_{968} + a_{972} - a_{973} + a_{986} + a_{989} + \\
&\quad a_{994} - a_{1003} - a_{1014} + 2a_{1015} + a_{543} - 2a_{563} - \\
&\quad a_{577} + a_{579} + a_{594} + a_{601} \\
a_{1393} &= \frac{a_{881} + \sqrt{a_{881}^2 - 4x}}{2}
\end{aligned}
$$

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\begin{aligned}
x &= 2a_{116} + a_{66} - 2a_{244} + a_{247} - a_{130} + a_{160} - \\
&\quad a_{375} + a_{382} + a_{388} + a_{391} + a_{394} - 2a_{436} - \\
&\quad a_{450} + a_{462} + a_{492} - a_{894} - a_{900} - a_{903} - \\
&\quad a_{906} + a_{922} - a_{928} + a_{930} + 2a_{949} + a_{962} + \\
&\quad 2a_{967} + 2a_{969} + a_{973} - a_{974} + a_{987} + a_{990} + \\
&\quad a_{995} - a_{1004} - a_{1015} + 2a_{1016} + a_{544} - 2a_{564} - \\
&\quad a_{578} + a_{580} + a_{595} + a_{602} \\
a_{1394} &= \frac{a_{882} + \sqrt{a_{882}^2 - 4x}}{2} \\
x &= 2a_{117} + a_{67} - 2a_{245} + a_{248} - a_{131} + a_{161} - \\
&\quad a_{376} + a_{383} + a_{389} + a_{392} + a_{395} - 2a_{437} - \\
&\quad a_{451} + a_{463} + a_{493} - a_{895} - a_{901} - a_{904} - \\
&\quad a_{907} + a_{923} - a_{929} + a_{931} + 2a_{950} + a_{963} + \\
&\quad 2a_{968} + 2a_{970} + a_{974} - a_{975} + a_{988} + a_{991} + \\
&\quad a_{996} - a_{1005} - a_{1016} + 2a_{1017} + a_{545} - 2a_{565} - \\
&\quad a_{579} + a_{581} + a_{596} + a_{603} \\
a_{1395} &= \frac{a_{883} + \sqrt{a_{883}^2 - 4x}}{2} \\
x &= 2a_{118} + a_{68} - 2a_{246} + a_{249} - a_{132} + a_{162} - \\
&\quad a_{377} + a_{384} + a_{390} + a_{393} + a_{396} - 2a_{438} - \\
&\quad a_{452} + a_{464} + a_{494} - a_{896} - a_{902} - a_{905} - \\
&\quad a_{908} + a_{924} - a_{930} + a_{932} + 2a_{951} + a_{964} + \\
&\quad 2a_{969} + 2a_{971} + a_{975} - a_{976} + a_{989} + a_{992} + \\
&\quad a_{997} - a_{1006} - a_{1017} + 2a_{1018} + a_{546} - 2a_{566} - \\
&\quad a_{580} + a_{582} + a_{597} + a_{604} \\
a_{1396} &= \frac{a_{884} - \sqrt{a_{884}^2 - 4x}}{2} \\
x &= 2a_{119} + a_{69} - 2a_{247} + a_{250} - a_{133} + a_{163} - \\
&\quad a_{378} + a_{385} + a_{391} + a_{394} + a_{397} - 2a_{439} - \\
&\quad a_{453} + a_{465} + a_{495} - a_{897} - a_{903} - a_{906} - \\
&\quad a_{909} + a_{925} - a_{931} + a_{933} + 2a_{952} + a_{965} + \\
&\quad 2a_{970} + 2a_{972} + a_{976} - a_{977} + a_{990} + a_{993} + \\
&\quad a_{998} - a_{1007} - a_{1018} + 2a_{1019} + a_{547} - 2a_{567} - \\
&\quad a_{581} + a_{583} + a_{598} + a_{605} \\
a_{1397} &= \frac{a_{885} + \sqrt{a_{885}^2 - 4x}}{2} \\
x &= 2a_{120} + a_{70} - 2a_{248} + a_{251} - a_{134} + a_{164} - \\
&\quad a_{379} + a_{386} + a_{392} + a_{395} + a_{398} - 2a_{440} - \\
&\quad a_{454} + a_{466} + a_{496} - a_{898} - a_{904} - a_{907} - \\
&\quad a_{910} + a_{926} - a_{932} + a_{934} + 2a_{953} + a_{966} + \\
&\quad 2a_{971} + 2a_{973} + a_{977} - a_{978} + a_{991} + a_{994} + \\
&\quad a_{999} - a_{1008} - a_{1019} + 2a_{1020} + a_{548} - 2a_{568} - \\
&\quad a_{582} + a_{584} + a_{599} + a_{606} \\
a_{1398} &= \frac{a_{886} - \sqrt{a_{886}^2 - 4x}}{2} \\
x &= 2a_{121} + a_{71} - 2a_{249} + a_{252} - a_{135} + a_{165} - \\
&\quad a_{380} + a_{387} + a_{393} + a_{396} + a_{399} - 2a_{441} - \\
&\quad a_{455} + a_{467} + a_{497} - a_{899} - a_{905} - a_{908} - \\
&\quad a_{911} + a_{927} - a_{933} + a_{935} + 2a_{954} + a_{967} + \\
&\quad 2a_{972} + 2a_{974} + a_{978} - a_{979} + a_{992} + a_{995} + \\
&\quad a_{1000} - a_{1009} - a_{1020} + 2a_{1021} + a_{549} - 2a_{569} - \\
&\quad a_{583} + a_{585} + a_{600} + a_{607} \\
a_{1399} &= \frac{a_{887} + \sqrt{a_{887}^2 - 4x}}{2} \\
x &= 2a_{122} + a_{72} - 2a_{250} + a_{253} - a_{136} + a_{166} - \\
&\quad a_{381} + a_{388} + a_{394} + a_{397} + a_{400} - 2a_{442} - \\
&\quad a_{456} + a_{468} + a_{498} - a_{900} - a_{906} - a_{909} - \\
&\quad a_{912} + a_{928} - a_{934} + a_{936} + 2a_{955} + a_{968} + \\
&\quad 2a_{973} + 2a_{975} + a_{979} - a_{980} + a_{993} + a_{996} + \\
&\quad a_{1001} - a_{1010} - a_{1021} + 2a_{1022} + a_{550} - 2a_{570} - \\
&\quad a_{584} + a_{586} + a_{601} + a_{608} \\
a_{1400} &= \frac{a_{888} - \sqrt{a_{888}^2 - 4x}}{2} \\
x &= 2a_{123} + a_{73} - 2a_{251} + a_{254} - a_{137} + a_{167} - \\
&\quad a_{382} + a_{389} + a_{395} + a_{398} + a_{401} - 2a_{443} - \\
&\quad a_{457} + a_{469} + a_{499} - a_{901} - a_{907} - a_{910} - \\
&\quad a_{913} + a_{929} - a_{935} + a_{937} + 2a_{956} + a_{969} + \\
&\quad 2a_{974} + 2a_{976} + a_{980} - a_{981} + a_{994} + a_{997} + \\
&\quad a_{1002} - a_{1011} - a_{1022} + 2a_{511} + a_{551} - 2a_{571} - \\
&\quad a_{585} + a_{587} + a_{602} + a_{609} \\
a_{1401} &= \frac{a_{889} - \sqrt{a_{889}^2 - 4x}}{2} \\
x &= 2a_{63} + a_{77} - 2a_{127} + a_{130} - a_{141} + a_{171} - \\
&\quad a_{386} + a_{393} + a_{399} + a_{402} + a_{405} - 2a_{447} - \\
&\quad a_{461} + a_{473} + a_{503} - a_{905} - a_{911} - a_{914} - \\
&\quad a_{917} + a_{933} - a_{939} + a_{941} + 2a_{960} + a_{973} + \\
&\quad 2a_{978} + 2a_{980} + a_{984} - a_{985} + a_{998} + a_{1001} + \\
&\quad a_{1006} - a_{1015} - a_{514} + 2a_{515} + a_{555} - 2a_{575} - \\
&\quad a_{589} + a_{591} + a_{606} + a_{613} \\
a_{1405} &= \frac{a_{893} + \sqrt{a_{893}^2 - 4x}}{2} \\
x &= 2a_{64} + a_{78} - 2a_{128} + a_{131} - a_{142} + a_{172} - \\
&\quad a_{387} + a_{394} + a_{400} + a_{403} + a_{406} - 2a_{448} - \\
&\quad a_{462} + a_{474} + a_{504} - a_{906} - a_{912} - a_{915} - \\
&\quad a_{918} + a_{934} - a_{940} + a_{942} + 2a_{961} + a_{974} + \\
&\quad 2a_{979} + 2a_{981} + a_{985} - a_{986} + a_{999} + a_{1002} + \\
&\quad a_{1007} - a_{1016} - a_{515} + 2a_{516} + a_{556} - 2a_{576} - \\
&\quad a_{590} + a_{592} + a_{607} + a_{614} \\
a_{1406} &= \frac{a_{894} + \sqrt{a_{894}^2 - 4x}}{2} \\
x &= 2a_{65} + a_{79} - 2a_{129} + a_{132} - a_{143} + a_{173} - \\
&\quad a_{388} + a_{395} + a_{401} + a_{404} + a_{407} - 2a_{449} - \\
&\quad a_{463} + a_{475} + a_{505} - a_{907} - a_{913} - a_{916} - \\
&\quad a_{919} + a_{935} - a_{941} + a_{943} + 2a_{962} + a_{975} + \\
&\quad 2a_{980} + 2a_{982} + a_{986} - a_{987} + a_{1000} + a_{1003} + \\
&\quad a_{1008} - a_{1017} - a_{516} + 2a_{517} + a_{557} - 2a_{577} - \\
&\quad a_{591} + a_{593} + a_{608} + a_{615} \\
a_{1407} &= \frac{a_{895} - \sqrt{a_{895}^2 - 4x}}{2}
\end{aligned}
$$

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\begin{aligned}
x &= 2a_{69} + a_{83} - 2a_{133} + a_{136} - a_{147} + a_{177} - \\
&\quad a_{392} + a_{399} + a_{405} + a_{408} + a_{411} - 2a_{453} - \\
&\quad a_{467} + a_{479} + a_{509} - a_{911} - a_{917} - a_{920} - \\
&\quad a_{923} + a_{939} - a_{945} + a_{947} + 2a_{966} + a_{979} + \\
&\quad 2a_{984} + 2a_{986} + a_{990} - a_{991} + a_{1004} + a_{1007} + \\
&\quad a_{1012} - a_{1021} - a_{520} + 2a_{521} + a_{561} - 2a_{581} - \\
&\quad a_{595} + a_{597} + a_{612} + a_{619} \\
a_{1411} &= \frac{a_{899} + \sqrt{a_{899}^2 - 4x}}{2} \\
x &= 2a_{70} + a_{84} - 2a_{134} + a_{137} - a_{148} + a_{178} - \\
&\quad a_{393} + a_{400} + a_{406} + a_{409} + a_{412} - 2a_{454} - \\
&\quad a_{468} + a_{480} + a_{510} - a_{912} - a_{918} - a_{921} - \\
&\quad a_{924} + a_{940} - a_{946} + a_{948} + 2a_{967} + a_{980} + \\
&\quad 2a_{985} + 2a_{987} + a_{991} - a_{992} + a_{1005} + a_{1008} + \\
&\quad a_{1013} - a_{1022} - a_{521} + 2a_{522} + a_{562} - 2a_{582} - \\
&\quad a_{596} + a_{598} + a_{613} + a_{620} \\
a_{1412} &= \frac{a_{900} - \sqrt{a_{900}^2 - 4x}}{2} \\
x &= 2a_{71} + a_{85} - 2a_{135} + a_{138} - a_{149} + a_{179} - \\
&\quad a_{394} + a_{401} + a_{407} + a_{410} + a_{413} - 2a_{455} - \\
&\quad a_{469} + a_{481} + a_{255} - a_{913} - a_{919} - a_{922} - \\
&\quad a_{925} + a_{941} - a_{947} + a_{949} + 2a_{968} + a_{981} + \\
&\quad 2a_{986} + 2a_{988} + a_{992} - a_{993} + a_{1006} + a_{1009} + \\
&\quad a_{1014} - a_{511} - a_{522} + 2a_{523} + a_{563} - 2a_{583} - \\
&\quad a_{597} + a_{599} + a_{614} + a_{621} \\
a_{1413} &= \frac{a_{901} - \sqrt{a_{901}^2 - 4x}}{2} \\
x &= 2a_{72} + a_{86} - 2a_{136} + a_{139} - a_{150} + a_{180} - \\
&\quad a_{395} + a_{402} + a_{408} + a_{411} + a_{414} - 2a_{456} - \\
&\quad a_{470} + a_{482} + a_{256} - a_{914} - a_{920} - a_{923} - \\
&\quad a_{926} + a_{942} - a_{948} + a_{950} + 2a_{969} + a_{982} + \\
&\quad 2a_{987} + 2a_{989} + a_{993} - a_{994} + a_{1007} + a_{1010} + \\
&\quad a_{1015} - a_{512} - a_{523} + 2a_{524} + a_{564} - 2a_{584} - \\
&\quad a_{598} + a_{600} + a_{615} + a_{622} \\
a_{1414} &= \frac{a_{902} - \sqrt{a_{902}^2 - 4x}}{2} \\
x &= 2a_{73} + a_{87} - 2a_{137} + a_{140} - a_{151} + a_{181} - \\
&\quad a_{396} + a_{403} + a_{409} + a_{412} + a_{415} - 2a_{457} - \\
&\quad a_{471} + a_{483} + a_{257} - a_{915} - a_{921} - a_{924} - \\
&\quad a_{927} + a_{943} - a_{949} + a_{951} + 2a_{970} + a_{983} + \\
&\quad 2a_{988} + 2a_{990} + a_{994} - a_{995} + a_{1008} + a_{1011} + \\
&\quad a_{1016} - a_{513} - a_{524} + 2a_{525} + a_{565} - 2a_{585} - \\
&\quad a_{599} + a_{601} + a_{616} + a_{623}
\end{aligned}
$$

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\begin{aligned}
a_{1415} &= \frac{a_{903} + \sqrt{a_{903}^2 - 4x}}{2} \\
x &= 2a_{74} + a_{88} - 2a_{138} + a_{141} - a_{152} + a_{182} - \\
&\quad a_{397} + a_{404} + a_{410} + a_{413} + a_{416} - 2a_{458} - \\
&\quad a_{472} + a_{484} + a_{258} - a_{916} - a_{922} - a_{925} - \\
&\quad a_{928} + a_{944} - a_{950} + a_{952} + 2a_{971} + a_{984} + \\
&\quad 2a_{989} + 2a_{991} + a_{995} - a_{996} + a_{1009} + a_{1012} + \\
&\quad a_{1017} - a_{514} - a_{525} + 2a_{526} + a_{566} - 2a_{586} - \\
&\quad a_{600} + a_{602} + a_{617} + a_{624} \\
a_{1416} &= \frac{a_{904} - \sqrt{a_{904}^2 - 4x}}{2} \\
x &= 2a_{75} + a_{89} - 2a_{139} + a_{142} - a_{153} + a_{183} - \\
&\quad a_{398} + a_{405} + a_{411} + a_{414} + a_{417} - 2a_{459} - \\
&\quad a_{473} + a_{485} + a_{259} - a_{917} - a_{923} - a_{926} - \\
&\quad a_{929} + a_{945} - a_{951} + a_{953} + 2a_{972} + a_{985} + \\
&\quad 2a_{990} + 2a_{992} + a_{996} - a_{997} + a_{1010} + a_{1013} + \\
&\quad a_{1018} - a_{515} - a_{526} + 2a_{527} + a_{567} - 2a_{587} - \\
&\quad a_{601} + a_{603} + a_{618} + a_{625} \\
a_{1417} &= \frac{a_{905} + \sqrt{a_{905}^2 - 4x}}{2} \\
x &= 2a_{76} + a_{90} - 2a_{140} + a_{143} - a_{154} + a_{184} - \\
&\quad a_{399} + a_{406} + a_{412} + a_{415} + a_{418} - 2a_{460} - \\
&\quad a_{474} + a_{486} + a_{260} - a_{918} - a_{924} - a_{927} - \\
&\quad a_{930} + a_{946} - a_{952} + a_{954} + 2a_{973} + a_{986} + \\
&\quad 2a_{991} + 2a_{993} + a_{997} - a_{998} + a_{1011} + a_{1014} + \\
&\quad a_{1019} - a_{516} - a_{527} + 2a_{528} + a_{568} - 2a_{588} - \\
&\quad a_{602} + a_{604} + a_{619} + a_{626} \\
a_{1418} &= \frac{a_{906} + \sqrt{a_{906}^2 - 4x}}{2} \\
x &= 2a_{77} + a_{91} - 2a_{141} + a_{144} - a_{155} + a_{185} - \\
&\quad a_{400} + a_{407} + a_{413} + a_{416} + a_{419} - 2a_{461} - \\
&\quad a_{475} + a_{487} + a_{261} - a_{919} - a_{925} - a_{928} - \\
&\quad a_{931} + a_{947} - a_{953} + a_{955} + 2a_{974} + a_{987} + \\
&\quad 2a_{992} + 2a_{994} + a_{998} - a_{999} + a_{1012} + a_{1015} + \\
&\quad a_{1020} - a_{517} - a_{528} + 2a_{529} + a_{569} - 2a_{589} - \\
&\quad a_{603} + a_{605} + a_{620} + a_{627} \\
a_{1419} &= \frac{a_{907} - \sqrt{a_{907}^2 - 4x}}{2} \\
x &= 2a_{78} + a_{92} - 2a_{142} + a_{145} - a_{156} + a_{186} - \\
&\quad a_{401} + a_{408} + a_{414} + a_{417} + a_{420} - 2a_{462} - \\
&\quad a_{476} + a_{488} + a_{262} - a_{920} - a_{926} - a_{929} - \\
&\quad a_{932} + a_{948} - a_{954} + a_{956} + 2a_{975} + a_{988} + \\
&\quad 2a_{993} + 2a_{995} + a_{999} - a_{1000} + a_{1013} + a_{1016} + \\
&\quad a_{1021} - a_{518} - a_{529} + 2a_{530} + a_{570} - 2a_{590} - \\
&\quad a_{604} + a_{606} + a_{621} + a_{628} \\
a_{1420} &= \frac{a_{908} + \sqrt{a_{908}^2 - 4x}}{2} \\
x &= 2a_{79} + a_{93} - 2a_{143} + a_{146} - a_{157} + a_{187} - \\
&\quad a_{402} + a_{409} + a_{415} + a_{418} + a_{421} - 2a_{463} - \\
&\quad a_{477} + a_{489} + a_{263} - a_{921} - a_{927} - a_{930} - \\
&\quad a_{933} + a_{949} - a_{955} + a_{957} + 2a_{976} + a_{989} + \\
&\quad 2a_{994} + 2a_{996} + a_{1000} - a_{1001} + a_{1014} + a_{1017} + \\
&\quad a_{1022} - a_{519} - a_{530} + 2a_{531} + a_{571} - 2a_{591} - \\
&\quad a_{605} + a_{607} + a_{622} + a_{629} \\
a_{1421} &= \frac{a_{909} - \sqrt{a_{909}^2 - 4x}}{2}
\end{aligned}
$$

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\begin{aligned}
x &= 2a_{81} + a_{95} - 2a_{145} + a_{148} - a_{159} + a_{189} - \\
&\quad a_{404} + a_{411} + a_{417} + a_{420} + a_{423} - 2a_{465} - \\
&\quad a_{479} + a_{491} + a_{265} - a_{923} - a_{929} - a_{932} - \\
&\quad a_{935} + a_{951} - a_{957} + a_{959} + 2a_{978} + a_{991} + \\
&\quad 2a_{996} + 2a_{998} + a_{1002} - a_{1003} + a_{1016} + a_{1019} + \\
&\quad a_{512} - a_{521} - a_{532} + 2a_{533} + a_{573} - 2a_{593} - \\
&\quad a_{607} + a_{609} + a_{624} + a_{631} \\
a_{1423} &= \frac{a_{911} - \sqrt{a_{911}^2 - 4x}}{2} \\
x &= 2a_{82} + a_{96} - 2a_{146} + a_{149} - a_{160} + a_{190} - \\
&\quad a_{405} + a_{412} + a_{418} + a_{421} + a_{424} - 2a_{466} - \\
&\quad a_{480} + a_{492} + a_{266} - a_{924} - a_{930} - a_{933} - \\
&\quad a_{936} + a_{952} - a_{958} + a_{960} + 2a_{979} + a_{992} + \\
&\quad 2a_{997} + 2a_{999} + a_{1003} - a_{1004} + a_{1017} + a_{1020} + \\
&\quad a_{513} - a_{522} - a_{533} + 2a_{534} + a_{574} - 2a_{594} - \\
&\quad a_{608} + a_{610} + a_{625} + a_{632} \\
a_{1424} &= \frac{a_{912} - \sqrt{a_{912}^2 - 4x}}{2} \\
x &= 2a_{83} + a_{97} - 2a_{147} + a_{150} - a_{161} + a_{191} - \\
&\quad a_{406} + a_{413} + a_{419} + a_{422} + a_{425} - 2a_{467} - \\
&\quad a_{481} + a_{493} + a_{267} - a_{925} - a_{931} - a_{934} - \\
&\quad a_{937} + a_{953} - a_{959} + a_{961} + 2a_{980} + a_{993} + \\
&\quad 2a_{998} + 2a_{1000} + a_{1004} - a_{1005} + a_{1018} + a_{1021} + \\
&\quad a_{514} - a_{523} - a_{534} + 2a_{535} + a_{575} - 2a_{595} - \\
&\quad a_{609} + a_{611} + a_{626} + a_{633} \\
a_{1425} &= \frac{a_{913} - \sqrt{a_{913}^2 - 4x}}{2} \\
x &= 2a_{84} + a_{98} - 2a_{148} + a_{151} - a_{162} + a_{192} - \\
&\quad a_{407} + a_{414} + a_{420} + a_{423} + a_{426} - 2a_{468} - \\
&\quad a_{482} + a_{494} + a_{268} - a_{926} - a_{932} - a_{935} - \\
&\quad a_{938} + a_{954} - a_{960} + a_{962} + 2a_{981} + a_{994} + \\
&\quad 2a_{999} + 2a_{1001} + a_{1005} - a_{1006} + a_{1019} + a_{1022} + \\
&\quad a_{515} - a_{524} - a_{535} + 2a_{536} + a_{576} - 2a_{596} - \\
&\quad a_{610} + a_{612} + a_{627} + a_{634} \\
a_{1426} &= \frac{a_{914} - \sqrt{a_{914}^2 - 4x}}{2} \\
x &= 2a_{85} + a_{99} - 2a_{149} + a_{152} - a_{163} + a_{193} - \\
&\quad a_{408} + a_{415} + a_{421} + a_{424} + a_{427} - 2a_{469} - \\
&\quad a_{483} + a_{495} + a_{269} - a_{927} - a_{933} - a_{936} - \\
&\quad a_{939} + a_{955} - a_{961} + a_{963} + 2a_{982} + a_{995} + \\
&\quad 2a_{1000} + 2a_{1002} + a_{1006} - a_{1007} + a_{1020} + a_{511} + \\
&\quad a_{516} - a_{525} - a_{536} + 2a_{537} + a_{577} - 2a_{597} - \\
&\quad a_{611} + a_{613} + a_{628} + a_{635} \\
a_{1427} &= \frac{a_{915} + \sqrt{a_{915}^2 - 4x}}{2} \\
x &= 2a_{86} + a_{100} - 2a_{150} + a_{153} - a_{164} + a_{194} - \\
&\quad a_{409} + a_{416} + a_{422} + a_{425} + a_{428} - 2a_{470} - \\
&\quad a_{484} + a_{496} + a_{270} - a_{928} - a_{934} - a_{937} - \\
&\quad a_{940} + a_{956} - a_{962} + a_{964} + 2a_{983} + a_{996} + \\
&\quad 2a_{1001} + 2a_{1003} + a_{1007} - a_{1008} + a_{1021} + a_{512} + \\
&\quad a_{517} - a_{526} - a_{537} + 2a_{538} + a_{578} - 2a_{598} - \\
&\quad a_{612} + a_{614} + a_{629} + a_{636} \\
a_{1428} &= \frac{a_{916} + \sqrt{a_{916}^2 - 4x}}{2} \\
x &= 2a_{87} + a_{101} - 2a_{151} + a_{154} - a_{165} + a_{195} - \\
&\quad a_{410} + a_{417} + a_{423} + a_{426} + a_{429} - 2a_{471} - \\
&\quad a_{485} + a_{497} + a_{271} - a_{929} - a_{935} - a_{938} - \\
&\quad a_{941} + a_{957} - a_{963} + a_{965} + 2a_{984} + a_{997} + \\
&\quad 2a_{1002} + 2a_{1004} + a_{1008} - a_{1009} + a_{1022} + a_{513} + \\
&\quad a_{518} - a_{527} - a_{538} + 2a_{539} + a_{579} - 2a_{599} - \\
&\quad a_{613} + a_{615} + a_{630} + a_{637} \\
a_{1429} &= \frac{a_{917} - \sqrt{a_{917}^2 - 4x}}{2} \\
x &= 2a_{89} + a_{103} - 2a_{153} + a_{156} - a_{167} + a_{197} - \\
&\quad a_{412} + a_{419} + a_{425} + a_{428} + a_{431} - 2a_{473} - \\
&\quad a_{487} + a_{499} + a_{273} - a_{931} - a_{937} - a_{940} - \\
&\quad a_{943} + a_{959} - a_{965} + a_{967} + 2a_{986} + a_{999} + \\
&\quad 2a_{1004} + 2a_{1006} + a_{1010} - a_{1011} + a_{512} + a_{515} + \\
&\quad a_{520} - a_{529} - a_{540} + 2a_{541} + a_{581} - 2a_{601} - \\
&\quad a_{615} + a_{617} + a_{632} + a_{639} \\
a_{1431} &= \frac{a_{919} + \sqrt{a_{919}^2 - 4x}}{2} \\
x &= 2a_{92} + a_{106} - 2a_{156} + a_{159} - a_{170} + a_{200} - \\
&\quad a_{415} + a_{422} + a_{428} + a_{431} + a_{434} - 2a_{476} - \\
&\quad a_{490} + a_{502} + a_{276} - a_{934} - a_{940} - a_{943} - \\
&\quad a_{946} + a_{962} - a_{968} + a_{970} + 2a_{989} + a_{1002} + \\
&\quad 2a_{1007} + 2a_{1009} + a_{1013} - a_{1014} + a_{515} + a_{518} + \\
&\quad a_{523} - a_{532} - a_{543} + 2a_{544} + a_{584} - 2a_{604} - \\
&\quad a_{618} + a_{620} + a_{635} + a_{642} \\
a_{1434} &= \frac{a_{922} + \sqrt{a_{922}^2 - 4x}}{2} \\
x &= 2a_{93} + a_{107} - 2a_{157} + a_{160} - a_{171} + a_{201} - \\
&\quad a_{416} + a_{423} + a_{429} + a_{432} + a_{435} - 2a_{477} - \\
&\quad a_{491} + a_{503} + a_{277} - a_{935} - a_{941} - a_{944} - \\
&\quad a_{947} + a_{963} - a_{969} + a_{971} + 2a_{990} + a_{1003} + \\
&\quad 2a_{1008} + 2a_{1010} + a_{1014} - a_{1015} + a_{516} + a_{519} + \\
&\quad a_{524} - a_{533} - a_{544} + 2a_{545} + a_{585} - 2a_{605} - \\
&\quad a_{619} + a_{621} + a_{636} + a_{643} \\
a_{1435} &= \frac{a_{923} + \sqrt{a_{923}^2 - 4x}}{2} \\
x &= 2a_{94} + a_{108} - 2a_{158} + a_{161} - a_{172} + a_{202} - \\
&\quad a_{417} + a_{424} + a_{430} + a_{433} + a_{436} - 2a_{478} - \\
&\quad a_{492} + a_{504} + a_{278} - a_{936} - a_{942} - a_{945} - \\
&\quad a_{948} + a_{964} - a_{970} + a_{972} + 2a_{991} + a_{1004} + \\
&\quad 2a_{1009} + 2a_{1011} + a_{1015} - a_{1016} + a_{517} + a_{520} + \\
&\quad a_{525} - a_{534} - a_{545} + 2a_{546} + a_{586} - 2a_{606} - \\
&\quad a_{620} + a_{622} + a_{637} + a_{644} \\
a_{1436} &= \frac{a_{924} - \sqrt{a_{924}^2 - 4x}}{2}
\end{aligned}
$$

$$
\begin{aligned}
x &= 2a_{95} + a_{109} - 2a_{159} + a_{162} - a_{173} + a_{203} - \\
&\quad a_{418} + a_{425} + a_{431} + a_{434} + a_{437} - 2a_{479} - \\
&\quad a_{493} + a_{505} + a_{279} - a_{937} - a_{943} - a_{946} - \\
&\quad a_{949} + a_{965} - a_{971} + a_{973} + 2a_{992} + a_{1005} + \\
&\quad 2a_{1010} + 2a_{1012} + a_{1016} - a_{1017} + a_{518} + a_{521} + \\
&\quad a_{526} - a_{535} - a_{546} + 2a_{547} + a_{587} - 2a_{607} - \\
&\quad a_{621} + a_{623} + a_{638} + a_{645} \\
a_{1437} &= \frac{a_{925} + \sqrt{a_{925}^2 - 4x}}{2} \\
x &= 2a_{96} + a_{110} - 2a_{160} + a_{163} - a_{174} + a_{204} - \\
&\quad a_{419} + a_{426} + a_{432} + a_{435} + a_{438} - 2a_{480} - \\
&\quad a_{494} + a_{506} + a_{280} - a_{938} - a_{944} - a_{947} - \\
&\quad a_{950} + a_{966} - a_{972} + a_{974} + 2a_{993} + a_{1006} + \\
&\quad 2a_{1011} + 2a_{1013} + a_{1017} - a_{1018} + a_{519} + a_{522} + \\
&\quad a_{527} - a_{536} - a_{547} + 2a_{548} + a_{588} - 2a_{608} - \\
&\quad a_{622} + a_{624} + a_{639} + a_{646} \\
a_{1438} &= \frac{a_{926} - \sqrt{a_{926}^2 - 4x}}{2} \\
x &= 2a_{97} + a_{111} - 2a_{161} + a_{164} - a_{175} + a_{205} - \\
&\quad a_{420} + a_{427} + a_{433} + a_{436} + a_{439} - 2a_{481} - \\
&\quad a_{495} + a_{507} + a_{281} - a_{939} - a_{945} - a_{948} - \\
&\quad a_{951} + a_{967} - a_{973} + a_{975} + 2a_{994} + a_{1007} + \\
&\quad 2a_{1012} + 2a_{1014} + a_{1018} - a_{1019} + a_{520} + a_{523} + \\
&\quad a_{528} - a_{537} - a_{548} + 2a_{549} + a_{589} - 2a_{609} - \\
&\quad a_{623} + a_{625} + a_{640} + a_{647}
\end{aligned}
$$

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\begin{aligned}
a_{1439} &= \frac{a_{927} - \sqrt{a_{927}^2 - 4x}}{2} \\
x &= 2a_{98} + a_{112} - 2a_{162} + a_{165} - a_{176} + a_{206} - \\
&\quad a_{421} + a_{428} + a_{434} + a_{437} + a_{440} - 2a_{482} - \\
&\quad a_{496} + a_{508} + a_{282} - a_{940} - a_{946} - a_{949} - \\
&\quad a_{952} + a_{968} - a_{974} + a_{976} + 2a_{995} + a_{1008} + \\
&\quad 2a_{1013} + 2a_{1015} + a_{1019} - a_{1020} + a_{521} + a_{524} + \\
&\quad a_{529} - a_{538} - a_{549} + 2a_{550} + a_{590} - 2a_{610} - \\
&\quad a_{624} + a_{626} + a_{641} + a_{648} \\
a_{1440} &= \frac{a_{928} + \sqrt{a_{928}^2 - 4x}}{2} \\
x &= 2a_{99} + a_{113} - 2a_{163} + a_{166} - a_{177} + a_{207} - \\
&\quad a_{422} + a_{429} + a_{435} + a_{438} + a_{441} - 2a_{483} - \\
&\quad a_{497} + a_{509} + a_{283} - a_{941} - a_{947} - a_{950} - \\
&\quad a_{953} + a_{969} - a_{975} + a_{977} + 2a_{996} + a_{1009} + \\
&\quad 2a_{1014} + 2a_{1016} + a_{1020} - a_{1021} + a_{522} + a_{525} + \\
&\quad a_{530} - a_{539} - a_{550} + 2a_{551} + a_{591} - 2a_{611} - \\
&\quad a_{625} + a_{627} + a_{642} + a_{649} \\
a_{1441} &= \frac{a_{929} + \sqrt{a_{929}^2 - 4x}}{2} \\
x &= 2a_{100} + a_{114} - 2a_{164} + a_{167} - a_{178} + a_{208} - \\
&\quad a_{423} + a_{430} + a_{436} + a_{439} + a_{442} - 2a_{484} - \\
&\quad a_{498} + a_{510} + a_{284} - a_{942} - a_{948} - a_{951} - \\
&\quad a_{954} + a_{970} - a_{976} + a_{978} + 2a_{997} + a_{1010} + \\
&\quad 2a_{1015} + 2a_{1017} + a_{1021} - a_{1022} + a_{523} + a_{526} + \\
&\quad a_{531} - a_{540} - a_{551} + 2a_{552} + a_{592} - 2a_{612} - \\
&\quad a_{626} + a_{628} + a_{643} + a_{650} \\
a_{1442} &= \frac{a_{930} - \sqrt{a_{930}^2 - 4x}}{2} \\
x &= 2a_{101} + a_{115} - 2a_{165} + a_{168} - a_{179} + a_{209} - \\
&\quad a_{424} + a_{431} + a_{437} + a_{440} + a_{443} - 2a_{485} - \\
&\quad a_{499} + a_{255} + a_{285} - a_{943} - a_{949} - a_{952} - \\
&\quad a_{955} + a_{971} - a_{977} + a_{979} + 2a_{998} + a_{1011} + \\
&\quad 2a_{1016} + 2a_{1018} + a_{1022} - a_{511} + a_{524} + a_{527} + \\
&\quad a_{532} - a_{541} - a_{552} + 2a_{553} + a_{593} - 2a_{613} - \\
&\quad a_{627} + a_{629} + a_{644} + a_{651} \\
a_{1443} &= \frac{a_{931} - \sqrt{a_{931}^2 - 4x}}{2} \\
x &= 2a_{102} + a_{116} - 2a_{166} + a_{169} - a_{180} + a_{210} - \\
&\quad a_{425} + a_{432} + a_{438} + a_{441} + a_{444} - 2a_{486} - \\
&\quad a_{500} + a_{256} + a_{286} - a_{944} - a_{950} - a_{953} - \\
&\quad a_{956} + a_{972} - a_{978} + a_{980} + 2a_{999} + a_{1012} + \\
&\quad 2a_{1017} + 2a_{1019} + a_{511} - a_{512} + a_{525} + a_{528} + \\
&\quad a_{533} - a_{542} - a_{553} + 2a_{554} + a_{594} - 2a_{614} - \\
&\quad a_{628} + a_{630} + a_{645} + a_{652} \\
a_{1444} &= \frac{a_{932} - \sqrt{a_{932}^2 - 4x}}{2} \\
x &= 2a_{103} + a_{117} - 2a_{167} + a_{170} - a_{181} + a_{211} - \\
&\quad a_{426} + a_{433} + a_{439} + a_{442} + a_{445} - 2a_{487} - \\
&\quad a_{501} + a_{257} + a_{287} - a_{945} - a_{951} - a_{954} - \\
&\quad a_{957} + a_{973} - a_{979} + a_{981} + 2a_{1000} + a_{1013} + \\
&\quad 2a_{1018} + 2a_{1020} + a_{512} - a_{513} + a_{526} + a_{529} + \\
&\quad a_{534} - a_{543} - a_{554} + 2a_{555} + a_{595} - 2a_{615} - \\
&\quad a_{629} + a_{631} + a_{646} + a_{653} \\
a_{1445} &= \frac{a_{933} + \sqrt{a_{933}^2 - 4x}}{2} \\
x &= 2a_{104} + a_{118} - 2a_{168} + a_{171} - a_{182} + a_{212} - \\
&\quad a_{427} + a_{434} + a_{440} + a_{443} + a_{446} - 2a_{488} - \\
&\quad a_{502} + a_{258} + a_{288} - a_{946} - a_{952} - a_{955} - \\
&\quad a_{958} + a_{974} - a_{980} + a_{982} + 2a_{1001} + a_{1014} + \\
&\quad 2a_{1019} + 2a_{1021} + a_{513} - a_{514} + a_{527} + a_{530} + \\
&\quad a_{535} - a_{544} - a_{555} + 2a_{556} + a_{596} - 2a_{616} - \\
&\quad a_{630} + a_{632} + a_{647} + a_{654} \\
a_{1446} &= \frac{a_{934} + \sqrt{a_{934}^2 - 4x}}{2} \\
x &= 2a_{105} + a_{119} - 2a_{169} + a_{172} - a_{183} + a_{213} - \\
&\quad a_{428} + a_{435} + a_{441} + a_{444} + a_{447} - 2a_{489} - \\
&\quad a_{503} + a_{259} + a_{289} - a_{947} - a_{953} - a_{956} - \\
&\quad a_{959} + a_{975} - a_{981} + a_{983} + 2a_{1002} + a_{1015} + \\
&\quad 2a_{1020} + 2a_{1022} + a_{514} - a_{515} + a_{528} + a_{531} + \\
&\quad a_{536} - a_{545} - a_{556} + 2a_{557} + a_{597} - 2a_{617} - \\
&\quad a_{631} + a_{633} + a_{648} + a_{655} \\
a_{1447} &= \frac{a_{935} - \sqrt{a_{935}^2 - 4x}}{2}
\end{aligned}
$$

$$
\begin{aligned}
x &= 2a_{106} + a_{120} - 2a_{170} + a_{173} - a_{184} + a_{214} - \\
&\quad a_{429} + a_{436} + a_{442} + a_{445} + a_{448} - 2a_{490} - \\
&\quad a_{504} + a_{260} + a_{290} - a_{948} - a_{954} - a_{957} - \\
&\quad a_{960} + a_{976} - a_{982} + a_{984} + 2a_{1003} + a_{1016} + \\
&\quad 2a_{1021} + 2a_{511} + a_{515} - a_{516} + a_{529} + a_{532} + \\
&\quad a_{537} - a_{546} - a_{557} + 2a_{558} + a_{598} - 2a_{618} - \\
&\quad a_{632} + a_{634} + a_{649} + a_{656} \\
a_{1448} &= \frac{a_{936} + \sqrt{a_{936}^2 - 4x}}{2} \\
x &= 2a_{107} + a_{121} - 2a_{171} + a_{174} - a_{185} + a_{215} - \\
&\quad a_{430} + a_{437} + a_{443} + a_{446} + a_{449} - 2a_{491} - \\
&\quad a_{505} + a_{261} + a_{291} - a_{949} - a_{955} - a_{958} - \\
&\quad a_{961} + a_{977} - a_{983} + a_{985} + 2a_{1004} + a_{1017} + \\
&\quad 2a_{1022} + 2a_{512} + a_{516} - a_{517} + a_{530} + a_{533} + \\
&\quad a_{538} - a_{547} - a_{558} + 2a_{559} + a_{599} - 2a_{619} - \\
&\quad a_{633} + a_{635} + a_{650} + a_{657}
\end{aligned}
$$

$$
\begin{aligned}
a_{1449} &= \frac{a_{937} - \sqrt{a_{937}^2 - 4x}}{2} \\
x &= 2a_{108} + a_{122} - 2a_{172} + a_{175} - a_{186} + a_{216} - \\
&\quad a_{431} + a_{438} + a_{444} + a_{447} + a_{450} - 2a_{492} - \\
&\quad a_{506} + a_{262} + a_{292} - a_{950} - a_{956} - a_{959} - \\
&\quad a_{962} + a_{978} - a_{984} + a_{986} + 2a_{1005} + a_{1018} + \\
&\quad 2a_{511} + 2a_{513} + a_{517} - a_{518} + a_{531} + a_{534} + \\
&\quad a_{539} - a_{548} - a_{559} + 2a_{560} + a_{600} - 2a_{620} - \\
&\quad a_{634} + a_{636} + a_{651} + a_{658} \\
a_{1450} &= \frac{a_{938} - \sqrt{a_{938}^2 - 4x}}{2} \\
x &= 2a_{111} + a_{125} - 2a_{175} + a_{178} - a_{189} + a_{219} - \\
&\quad a_{434} + a_{441} + a_{447} + a_{450} + a_{453} - 2a_{495} - \\
&\quad a_{509} + a_{265} + a_{295} - a_{953} - a_{959} - a_{962} - \\
&\quad a_{965} + a_{981} - a_{987} + a_{989} + 2a_{1008} + a_{1021} + \\
&\quad 2a_{514} + 2a_{516} + a_{520} - a_{521} + a_{534} + a_{537} + \\
&\quad a_{542} - a_{551} - a_{562} + 2a_{563} + a_{603} - 2a_{623} - \\
&\quad a_{637} + a_{639} + a_{654} + a_{661} \\
a_{1453} &= \frac{a_{941} + \sqrt{a_{941}^2 - 4x}}{2} \\
x &= 2a_{112} + a_{126} - 2a_{176} + a_{179} - a_{190} + a_{220} - \\
&\quad a_{435} + a_{442} + a_{448} + a_{451} + a_{454} - 2a_{496} - \\
&\quad a_{510} + a_{266} + a_{296} - a_{954} - a_{960} - a_{963} - \\
&\quad a_{966} + a_{982} - a_{988} + a_{990} + 2a_{1009} + a_{1022} + \\
&\quad 2a_{515} + 2a_{517} + a_{521} - a_{522} + a_{535} + a_{538} + \\
&\quad a_{543} - a_{552} - a_{563} + 2a_{564} + a_{604} - 2a_{624} - \\
&\quad a_{638} + a_{640} + a_{655} + a_{662} \\
a_{1454} &= \frac{a_{942} - \sqrt{a_{942}^2 - 4x}}{2} \\
x &= 2a_{113} + a_{63} - 2a_{177} + a_{180} - a_{191} + a_{221} - \\
&\quad a_{436} + a_{443} + a_{449} + a_{452} + a_{455} - 2a_{497} - \\
&\quad a_{255} + a_{267} + a_{297} - a_{955} - a_{961} - a_{964} - \\
&\quad a_{967} + a_{983} - a_{989} + a_{991} + 2a_{1010} + a_{511} + \\
&\quad 2a_{516} + 2a_{518} + a_{522} - a_{523} + a_{536} + a_{539} + \\
&\quad a_{544} - a_{553} - a_{564} + 2a_{565} + a_{605} - 2a_{625} - \\
&\quad a_{639} + a_{641} + a_{656} + a_{663} \\
a_{1455} &= \frac{a_{943} + \sqrt{a_{943}^2 - 4x}}{2} \\
x &= 2a_{114} + a_{64} - 2a_{178} + a_{181} - a_{192} + a_{222} - \\
&\quad a_{437} + a_{444} + a_{450} + a_{453} + a_{456} - 2a_{498} - \\
&\quad a_{256} + a_{268} + a_{298} - a_{956} - a_{962} - a_{965} - \\
&\quad a_{968} + a_{984} - a_{990} + a_{992} + 2a_{1011} + a_{512} + \\
&\quad 2a_{517} + 2a_{519} + a_{523} - a_{524} + a_{537} + a_{540} + \\
&\quad a_{545} - a_{554} - a_{565} + 2a_{566} + a_{606} - 2a_{626} - \\
&\quad a_{640} + a_{642} + a_{657} + a_{664} \\
a_{1456} &= \frac{a_{944} - \sqrt{a_{944}^2 - 4x}}{2} \\
x &= 2a_{115} + a_{65} - 2a_{179} + a_{182} - a_{193} + a_{223} - \\
&\quad a_{438} + a_{445} + a_{451} + a_{454} + a_{457} - 2a_{499} - \\
&\quad a_{257} + a_{269} + a_{299} - a_{957} - a_{963} - a_{966} - \\
&\quad a_{969} + a_{985} - a_{991} + a_{993} + 2a_{1012} + a_{513} + \\
&\quad 2a_{518} + 2a_{520} + a_{524} - a_{525} + a_{538} + a_{541} + \\
&\quad a_{546} - a_{555} - a_{566} + 2a_{567} + a_{607} - 2a_{627} - \\
&\quad a_{641} + a_{643} + a_{658} + a_{665} \\
a_{1457} &= \frac{a_{945} - \sqrt{a_{945}^2 - 4x}}{2} \\
x &= 2a_{116} + a_{66} - 2a_{180} + a_{183} - a_{194} + a_{224} - \\
&\quad a_{439} + a_{446} + a_{452} + a_{455} + a_{458} - 2a_{500} - \\
&\quad a_{258} + a_{270} + a_{300} - a_{958} - a_{964} - a_{967} - \\
&\quad a_{970} + a_{986} - a_{992} + a_{994} + 2a_{1013} + a_{514} + \\
&\quad 2a_{519} + 2a_{521} + a_{525} - a_{526} + a_{539} + a_{542} + \\
&\quad a_{547} - a_{556} - a_{567} + 2a_{568} + a_{608} - 2a_{628} - \\
&\quad a_{642} + a_{644} + a_{659} + a_{666} \\
a_{1458} &= \frac{a_{946} + \sqrt{a_{946}^2 - 4x}}{2} \\
x &= 2a_{117} + a_{67} - 2a_{181} + a_{184} - a_{195} + a_{225} - \\
&\quad a_{440} + a_{447} + a_{453} + a_{456} + a_{459} - 2a_{501} - \\
&\quad a_{259} + a_{271} + a_{301} - a_{959} - a_{965} - a_{968} - \\
&\quad a_{971} + a_{987} - a_{993} + a_{995} + 2a_{1014} + a_{515} + \\
&\quad 2a_{520} + 2a_{522} + a_{526} - a_{527} + a_{540} + a_{543} + \\
&\quad a_{548} - a_{557} - a_{568} + 2a_{569} + a_{609} - 2a_{629} - \\
&\quad a_{643} + a_{645} + a_{660} + a_{667} \\
a_{1459} &= \frac{a_{947} + \sqrt{a_{947}^2 - 4x}}{2} \\
x &= 2a_{118} + a_{68} - 2a_{182} + a_{185} - a_{196} + a_{226} - \\
&\quad a_{441} + a_{448} + a_{454} + a_{457} + a_{460} - 2a_{502} - \\
&\quad a_{260} + a_{272} + a_{302} - a_{960} - a_{966} - a_{969} - \\
&\quad a_{972} + a_{988} - a_{994} + a_{996} + 2a_{1015} + a_{516} + \\
&\quad 2a_{521} + 2a_{523} + a_{527} - a_{528} + a_{541} + a_{544} + \\
&\quad a_{549} - a_{558} - a_{569} + 2a_{570} + a_{610} - 2a_{630} - \\
&\quad a_{644} + a_{646} + a_{661} + a_{668} \\
a_{1460} &= \frac{a_{948} + \sqrt{a_{948}^2 - 4x}}{2}
\end{aligned}
$$

$$
\begin{aligned}
x &= 2a_{119} + a_{69} - 2a_{183} + a_{186} - a_{197} + a_{227} - \\
&\quad a_{442} + a_{449} + a_{455} + a_{458} + a_{461} - 2a_{503} - \\
&\quad a_{261} + a_{273} + a_{303} - a_{961} - a_{967} - a_{970} - \\
&\quad a_{973} + a_{989} - a_{995} + a_{997} + 2a_{1016} + a_{517} + \\
&\quad 2a_{522} + 2a_{524} + a_{528} - a_{529} + a_{542} + a_{545} + \\
&\quad a_{550} - a_{559} - a_{570} + 2a_{571} + a_{611} - 2a_{631} - \\
&\quad a_{645} + a_{647} + a_{662} + a_{669}
\end{aligned}
$$

$$
a_{1461} = \frac{a_{949} - \sqrt{a_{949}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x &= 2a_{125} + a_{75} - 2a_{189} + a_{192} - a_{203} + a_{233} - \\
&\quad a_{448} + a_{455} + a_{461} + a_{464} + a_{467} - 2a_{509} - \\
&\quad a_{267} + a_{279} + a_{309} - a_{967} - a_{973} - a_{976} - \\
&\quad a_{979} + a_{995} - a_{1001} + a_{1003} + 2a_{1022} + a_{523} + \\
&\quad 2a_{528} + 2a_{530} + a_{534} - a_{535} + a_{548} + a_{551} + \\
&\quad a_{556} - a_{565} - a_{576} + 2a_{577} + a_{617} - 2a_{637} - \\
&\quad a_{651} + a_{653} + a_{668} + a_{675}
\end{aligned}
$$

$$
a_{1467} = \frac{a_{955} - \sqrt{a_{955}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x &= 2a_{126} + a_{76} - 2a_{190} + a_{193} - a_{204} + a_{234} - \\
&\quad a_{449} + a_{456} + a_{462} + a_{465} + a_{468} - 2a_{510} - \\
&\quad a_{268} + a_{280} + a_{310} - a_{968} - a_{974} - a_{977} - \\
&\quad a_{980} + a_{996} - a_{1002} + a_{1004} + 2a_{511} + a_{524} + \\
&\quad 2a_{529} + 2a_{531} + a_{535} - a_{536} + a_{549} + a_{552} + \\
&\quad a_{557} - a_{566} - a_{577} + 2a_{578} + a_{618} - 2a_{638} - \\
&\quad a_{652} + a_{654} + a_{669} + a_{676}
\end{aligned}
$$

$$
a_{1468} = \frac{a_{956} + \sqrt{a_{956}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x &= 2a_{63} + a_{77} - 2a_{191} + a_{194} - a_{205} + a_{235} - \\
&\quad a_{450} + a_{457} + a_{463} + a_{466} + a_{469} - 2a_{255} - \\
&\quad a_{269} + a_{281} + a_{311} - a_{969} - a_{975} - a_{978} - \\
&\quad a_{981} + a_{997} - a_{1003} + a_{1005} + 2a_{512} + a_{525} + \\
&\quad 2a_{530} + 2a_{532} + a_{536} - a_{537} + a_{550} + a_{553} + \\
&\quad a_{558} - a_{567} - a_{578} + 2a_{579} + a_{619} - 2a_{639} - \\
&\quad a_{653} + a_{655} + a_{670} + a_{677}
\end{aligned}
$$

$$
a_{1469} = \frac{a_{957} + \sqrt{a_{957}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x &= 2a_{64} + a_{78} - 2a_{192} + a_{195} - a_{206} + a_{236} - \\
&\quad a_{451} + a_{458} + a_{464} + a_{467} + a_{470} - 2a_{256} - \\
&\quad a_{270} + a_{282} + a_{312} - a_{970} - a_{976} - a_{979} - \\
&\quad a_{982} + a_{998} - a_{1004} + a_{1006} + 2a_{513} + a_{526} + \\
&\quad 2a_{531} + 2a_{533} + a_{537} - a_{538} + a_{551} + a_{554} + \\
&\quad a_{559} - a_{568} - a_{579} + 2a_{580} + a_{620} - 2a_{640} - \\
&\quad a_{654} + a_{656} + a_{671} + a_{678}
\end{aligned}
$$

$$
a_{1470} = \frac{a_{958} + \sqrt{a_{958}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x &= 2a_{65} + a_{79} - 2a_{193} + a_{196} - a_{207} + a_{237} - \\
&\quad a_{452} + a_{459} + a_{465} + a_{468} + a_{471} - 2a_{257} - \\
&\quad a_{271} + a_{283} + a_{313} - a_{971} - a_{977} - a_{980} - \\
&\quad a_{983} + a_{999} - a_{1005} + a_{1007} + 2a_{514} + a_{527} + \\
&\quad 2a_{532} + 2a_{534} + a_{538} - a_{539} + a_{552} + a_{555} + \\
&\quad a_{560} - a_{569} - a_{580} + 2a_{581} + a_{621} - 2a_{641} - \\
&\quad a_{655} + a_{657} + a_{672} + a_{679}
\end{aligned}
$$

$$
a_{1471} = \frac{a_{959} + \sqrt{a_{959}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x &= 2a_{66} + a_{80} - 2a_{194} + a_{197} - a_{208} + a_{238} - \\
&\quad a_{453} + a_{460} + a_{466} + a_{469} + a_{472} - 2a_{258} - \\
&\quad a_{272} + a_{284} + a_{314} - a_{972} - a_{978} - a_{981} - \\
&\quad a_{984} + a_{1000} - a_{1006} + a_{1008} + 2a_{515} + a_{528} + \\
&\quad 2a_{533} + 2a_{535} + a_{539} - a_{540} + a_{553} + a_{556} + \\
&\quad a_{561} - a_{570} - a_{581} + 2a_{582} + a_{622} - 2a_{642} - \\
&\quad a_{656} + a_{658} + a_{673} + a_{680}
\end{aligned}
$$

$$
a_{1472} = \frac{a_{960} - \sqrt{a_{960}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x &= 2a_{67} + a_{81} - 2a_{195} + a_{198} - a_{209} + a_{239} - \\
&\quad a_{454} + a_{461} + a_{467} + a_{470} + a_{473} - 2a_{259} - \\
&\quad a_{273} + a_{285} + a_{315} - a_{973} - a_{979} - a_{982} - \\
&\quad a_{985} + a_{1001} - a_{1007} + a_{1009} + 2a_{516} + a_{529} + \\
&\quad 2a_{534} + 2a_{536} + a_{540} - a_{541} + a_{554} + a_{557} + \\
&\quad a_{562} - a_{571} - a_{582} + 2a_{583} + a_{623} - 2a_{643} - \\
&\quad a_{657} + a_{659} + a_{674} + a_{681}
\end{aligned}
$$

$$
a_{1473} = \frac{a_{961} + \sqrt{a_{961}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x &= 2a_{68} + a_{82} - 2a_{196} + a_{199} - a_{210} + a_{240} - \\
&\quad a_{455} + a_{462} + a_{468} + a_{471} + a_{474} - 2a_{260} - \\
&\quad a_{274} + a_{286} + a_{316} - a_{974} - a_{980} - a_{983} - \\
&\quad a_{986} + a_{1002} - a_{1008} + a_{1010} + 2a_{517} + a_{530} + \\
&\quad 2a_{535} + 2a_{537} + a_{541} - a_{542} + a_{555} + a_{558} + \\
&\quad a_{563} - a_{572} - a_{583} + 2a_{584} + a_{624} - 2a_{644} - \\
&\quad a_{658} + a_{660} + a_{675} + a_{682}
\end{aligned}
$$

$$
a_{1474} = \frac{a_{962} + \sqrt{a_{962}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x &= 2a_{69} + a_{83} - 2a_{197} + a_{200} - a_{211} + a_{241} - \\
&\quad a_{456} + a_{463} + a_{469} + a_{472} + a_{475} - 2a_{261} - \\
&\quad a_{275} + a_{287} + a_{317} - a_{975} - a_{981} - a_{984} - \\
&\quad a_{987} + a_{1003} - a_{1009} + a_{1011} + 2a_{518} + a_{531} + \\
&\quad 2a_{536} + 2a_{538} + a_{542} - a_{543} + a_{556} + a_{559} + \\
&\quad a_{564} - a_{573} - a_{584} + 2a_{585} + a_{625} - 2a_{645} - \\
&\quad a_{659} + a_{661} + a_{676} + a_{683}
\end{aligned}
$$

$$
a_{1475} = \frac{a_{963} - \sqrt{a_{963}^2 - 4x}}{2}
$$

$$
\begin{aligned}
x &= 2a_{70} + a_{84} - 2a_{198} + a_{201} - a_{212} + a_{242} - \\
&\quad a_{457} + a_{464} + a_{470} + a_{473} + a_{476} - 2a_{262} - \\
&\quad a_{276} + a_{288} + a_{318} - a_{976} - a_{982} - a_{985} - \\
&\quad a_{988} + a_{1004} - a_{1010} + a_{1012} + 2a_{519} + a_{532} + \\
&\quad 2a_{537} + 2a_{539} + a_{543} - a_{544} + a_{557} + a_{560} + \\
&\quad a_{565} - a_{574} - a_{585} + 2a_{586} + a_{626} - 2a_{646} - \\
&\quad a_{660} + a_{662} + a_{677} + a_{684}
\end{aligned}
$$

$$
\begin{aligned}
a_{1476} &= \frac{a_{964} - \sqrt{a_{964}^2 - 4x}}{2} \\
x &= 2a_{71} + a_{85} - 2a_{199} + a_{202} - a_{213} + a_{243} - \\
&\quad a_{458} + a_{465} + a_{471} + a_{474} + a_{477} - 2a_{263} - \\
&\quad a_{277} + a_{289} + a_{319} - a_{977} - a_{983} - a_{986} - \\
&\quad a_{989} + a_{1005} - a_{1011} + a_{1013} + 2a_{520} + a_{533} + \\
&\quad 2a_{538} + 2a_{540} + a_{544} - a_{545} + a_{558} + a_{561} + \\
&\quad a_{566} - a_{575} - a_{586} + 2a_{587} + a_{627} - 2a_{647} - \\
&\quad a_{661} + a_{663} + a_{678} + a_{685} \\
a_{1477} &= \frac{a_{965} + \sqrt{a_{965}^2 - 4x}}{2} \\
x &= 2a_{72} + a_{86} - 2a_{200} + a_{203} - a_{214} + a_{244} - \\
&\quad a_{459} + a_{466} + a_{472} + a_{475} + a_{478} - 2a_{264} - \\
&\quad a_{278} + a_{290} + a_{320} - a_{978} - a_{984} - a_{987} - \\
&\quad a_{990} + a_{1006} - a_{1012} + a_{1014} + 2a_{521} + a_{534} + \\
&\quad 2a_{539} + 2a_{541} + a_{545} - a_{546} + a_{559} + a_{562} + \\
&\quad a_{567} - a_{576} - a_{587} + 2a_{588} + a_{628} - 2a_{648} - \\
&\quad a_{662} + a_{664} + a_{679} + a_{686} \\
a_{1478} &= \frac{a_{966} - \sqrt{a_{966}^2 - 4x}}{2} \\
x &= 2a_{73} + a_{87} - 2a_{201} + a_{204} - a_{215} + a_{245} - \\
&\quad a_{460} + a_{467} + a_{473} + a_{476} + a_{479} - 2a_{265} - \\
&\quad a_{279} + a_{291} + a_{321} - a_{979} - a_{985} - a_{988} - \\
&\quad a_{991} + a_{1007} - a_{1013} + a_{1015} + 2a_{522} + a_{535} + \\
&\quad 2a_{540} + 2a_{542} + a_{546} - a_{547} + a_{560} + a_{563} + \\
&\quad a_{568} - a_{577} - a_{588} + 2a_{589} + a_{629} - 2a_{649} - \\
&\quad a_{663} + a_{665} + a_{680} + a_{687} \\
a_{1479} &= \frac{a_{967} - \sqrt{a_{967}^2 - 4x}}{2} \\
x &= 2a_{74} + a_{88} - 2a_{202} + a_{205} - a_{216} + a_{246} - \\
&\quad a_{461} + a_{468} + a_{474} + a_{477} + a_{480} - 2a_{266} - \\
&\quad a_{280} + a_{292} + a_{322} - a_{980} - a_{986} - a_{989} - \\
&\quad a_{992} + a_{1008} - a_{1014} + a_{1016} + 2a_{523} + a_{536} + \\
&\quad 2a_{541} + 2a_{543} + a_{547} - a_{548} + a_{561} + a_{564} + \\
&\quad a_{569} - a_{578} - a_{589} + 2a_{590} + a_{630} - 2a_{650} - \\
&\quad a_{664} + a_{666} + a_{681} + a_{688} \\
a_{1480} &= \frac{a_{968} - \sqrt{a_{968}^2 - 4x}}{2} \\
x &= 2a_{75} + a_{89} - 2a_{203} + a_{206} - a_{217} + a_{247} - \\
&\quad a_{462} + a_{469} + a_{475} + a_{478} + a_{481} - 2a_{267} - \\
&\quad a_{281} + a_{293} + a_{323} - a_{981} - a_{987} - a_{990} - \\
&\quad a_{993} + a_{1009} - a_{1015} + a_{1017} + 2a_{524} + a_{537} + \\
&\quad 2a_{542} + 2a_{544} + a_{548} - a_{549} + a_{562} + a_{565} + \\
&\quad a_{570} - a_{579} - a_{590} + 2a_{591} + a_{631} - 2a_{651} - \\
&\quad a_{665} + a_{667} + a_{682} + a_{689} \\
a_{1481} &= \frac{a_{969} - \sqrt{a_{969}^2 - 4x}}{2} \\
x &= 2a_{76} + a_{90} - 2a_{204} + a_{207} - a_{218} + a_{248} - \\
&\quad a_{463} + a_{470} + a_{476} + a_{479} + a_{482} - 2a_{268} - \\
&\quad a_{282} + a_{294} + a_{324} - a_{982} - a_{988} - a_{991} - \\
&\quad a_{994} + a_{1010} - a_{1016} + a_{1018} + 2a_{525} + a_{538} + \\
&\quad 2a_{543} + 2a_{545} + a_{549} - a_{550} + a_{563} + a_{566} + \\
&\quad a_{571} - a_{580} - a_{591} + 2a_{592} + a_{632} - 2a_{652} - \\
&\quad a_{666} + a_{668} + a_{683} + a_{690} \\
a_{1482} &= \frac{a_{970} - \sqrt{a_{970}^2 - 4x}}{2} \\
x &= 2a_{77} + a_{91} - 2a_{205} + a_{208} - a_{219} + a_{249} - \\
&\quad a_{464} + a_{471} + a_{477} + a_{480} + a_{483} - 2a_{269} - \\
&\quad a_{283} + a_{295} + a_{325} - a_{983} - a_{989} - a_{992} - \\
&\quad a_{995} + a_{1011} - a_{1017} + a_{1019} + 2a_{526} + a_{539} + \\
&\quad 2a_{544} + 2a_{546} + a_{550} - a_{551} + a_{564} + a_{567} + \\
&\quad a_{572} - a_{581} - a_{592} + 2a_{593} + a_{633} - 2a_{653} - \\
&\quad a_{667} + a_{669} + a_{684} + a_{691} \\
a_{1483} &= \frac{a_{971} - \sqrt{a_{971}^2 - 4x}}{2} \\
x &= 2a_{78} + a_{92} - 2a_{206} + a_{209} - a_{220} + a_{250} - \\
&\quad a_{465} + a_{472} + a_{478} + a_{481} + a_{484} - 2a_{270} - \\
&\quad a_{284} + a_{296} + a_{326} - a_{984} - a_{990} - a_{993} - \\
&\quad a_{996} + a_{1012} - a_{1018} + a_{1020} + 2a_{527} + a_{540} + \\
&\quad 2a_{545} + 2a_{547} + a_{551} - a_{552} + a_{565} + a_{568} + \\
&\quad a_{573} - a_{582} - a_{593} + 2a_{594} + a_{634} - 2a_{654} - \\
&\quad a_{668} + a_{670} + a_{685} + a_{692} \\
a_{1484} &= \frac{a_{972} + \sqrt{a_{972}^2 - 4x}}{2} \\
x &= 2a_{79} + a_{93} - 2a_{207} + a_{210} - a_{221} + a_{251} - \\
&\quad a_{466} + a_{473} + a_{479} + a_{482} + a_{485} - 2a_{271} - \\
&\quad a_{285} + a_{297} + a_{327} - a_{985} - a_{991} - a_{994} - \\
&\quad a_{997} + a_{1013} - a_{1019} + a_{1021} + 2a_{528} + a_{541} + \\
&\quad 2a_{546} + 2a_{548} + a_{552} - a_{553} + a_{566} + a_{569} + \\
&\quad a_{574} - a_{583} - a_{594} + 2a_{595} + a_{635} - 2a_{655} - \\
&\quad a_{669} + a_{671} + a_{686} + a_{693} \\
a_{1485} &= \frac{a_{973} + \sqrt{a_{973}^2 - 4x}}{2} \\
x &= 2a_{80} + a_{94} - 2a_{208} + a_{211} - a_{222} + a_{252} - \\
&\quad a_{467} + a_{474} + a_{480} + a_{483} + a_{486} - 2a_{272} - \\
&\quad a_{286} + a_{298} + a_{328} - a_{986} - a_{992} - a_{995} - \\
&\quad a_{998} + a_{1014} - a_{1020} + a_{1022} + 2a_{529} + a_{542} + \\
&\quad 2a_{547} + 2a_{549} + a_{553} - a_{554} + a_{567} + a_{570} + \\
&\quad a_{575} - a_{584} - a_{595} + 2a_{596} + a_{636} - 2a_{656} - \\
&\quad a_{670} + a_{672} + a_{687} + a_{694} \\
a_{1486} &= \frac{a_{974} - \sqrt{a_{974}^2 - 4x}}{2} \\
x &= 2a_{81} + a_{95} - 2a_{209} + a_{212} - a_{223} + a_{253} - \\
&\quad a_{468} + a_{475} + a_{481} + a_{484} + a_{487} - 2a_{273} - \\
&\quad a_{287} + a_{299} + a_{329} - a_{987} - a_{993} - a_{996} - \\
&\quad a_{999} + a_{1015} - a_{1021} + a_{511} + 2a_{530} + a_{543} + \\
&\quad 2a_{548} + 2a_{550} + a_{554} - a_{555} + a_{568} + a_{571} + \\
&\quad a_{576} - a_{585} - a_{596} + 2a_{597} + a_{637} - 2a_{657} - \\
&\quad a_{671} + a_{673} + a_{688} + a_{695}
\end{aligned}
$$

$$
\begin{aligned}
a_{1487} &= \frac{a_{975} - \sqrt{a_{975}^2 - 4x}}{2} \\
x &= 2a_{84} + a_{98} - 2a_{212} + a_{215} - a_{226} + a_{128} - \\
&\quad a_{471} + a_{478} + a_{484} + a_{487} + a_{490} - 2a_{276} - \\
&\quad a_{290} + a_{302} + a_{332} - a_{990} - a_{996} - a_{999} - \\
&\quad a_{1002} + a_{1018} - a_{512} + a_{514} + 2a_{533} + a_{546} + \\
&\quad 2a_{551} + 2a_{553} + a_{557} - a_{558} + a_{571} + a_{574} + \\
&\quad a_{579} - a_{588} - a_{599} + 2a_{600} + a_{640} - 2a_{660} - \\
&\quad a_{674} + a_{676} + a_{691} + a_{698} \\
a_{1490} &= \frac{a_{978} - \sqrt{a_{978}^2 - 4x}}{2} \\
x &= 2a_{85} + a_{99} - 2a_{213} + a_{216} - a_{227} + a_{129} - \\
&\quad a_{472} + a_{479} + a_{485} + a_{488} + a_{491} - 2a_{277} - \\
&\quad a_{291} + a_{303} + a_{333} - a_{991} - a_{997} - a_{1000} - \\
&\quad a_{1003} + a_{1019} - a_{513} + a_{515} + 2a_{534} + a_{547} + \\
&\quad 2a_{552} + 2a_{554} + a_{558} - a_{559} + a_{572} + a_{575} + \\
&\quad a_{580} - a_{589} - a_{600} + 2a_{601} + a_{641} - 2a_{661} - \\
&\quad a_{675} + a_{677} + a_{692} + a_{699} \\
a_{1491} &= \frac{a_{979} - \sqrt{a_{979}^2 - 4x}}{2} \\
x &= 2a_{87} + a_{101} - 2a_{215} + a_{218} - a_{229} + a_{131} - \\
&\quad a_{474} + a_{481} + a_{487} + a_{490} + a_{493} - 2a_{279} - \\
&\quad a_{293} + a_{305} + a_{335} - a_{993} - a_{999} - a_{1002} - \\
&\quad a_{1005} + a_{1021} - a_{515} + a_{517} + 2a_{536} + a_{549} + \\
&\quad 2a_{554} + 2a_{556} + a_{560} - a_{561} + a_{574} + a_{577} + \\
&\quad a_{582} - a_{591} - a_{602} + 2a_{603} + a_{643} - 2a_{663} - \\
&\quad a_{677} + a_{679} + a_{694} + a_{701} \\
a_{1493} &= \frac{a_{981} - \sqrt{a_{981}^2 - 4x}}{2} \\
x &= 2a_{91} + a_{105} - 2a_{219} + a_{222} - a_{233} + a_{135} - \\
&\quad a_{478} + a_{485} + a_{491} + a_{494} + a_{497} - 2a_{283} - \\
&\quad a_{297} + a_{309} + a_{339} - a_{997} - a_{1003} - a_{1006} - \\
&\quad a_{1009} + a_{513} - a_{519} + a_{521} + 2a_{540} + a_{553} + \\
&\quad 2a_{558} + 2a_{560} + a_{564} - a_{565} + a_{578} + a_{581} + \\
&\quad a_{586} - a_{595} - a_{606} + 2a_{607} + a_{647} - 2a_{667} - \\
&\quad a_{681} + a_{683} + a_{698} + a_{705} \\
a_{1497} &= \frac{a_{985} - \sqrt{a_{985}^2 - 4x}}{2} \\
x &= 2a_{92} + a_{106} - 2a_{220} + a_{223} - a_{234} + a_{136} - \\
&\quad a_{479} + a_{486} + a_{492} + a_{495} + a_{498} - 2a_{284} - \\
&\quad a_{298} + a_{310} + a_{340} - a_{998} - a_{1004} - a_{1007} - \\
&\quad a_{1010} + a_{514} - a_{520} + a_{522} + 2a_{541} + a_{554} + \\
&\quad 2a_{559} + 2a_{561} + a_{565} - a_{566} + a_{579} + a_{582} + \\
&\quad a_{587} - a_{596} - a_{607} + 2a_{608} + a_{648} - 2a_{668} - \\
&\quad a_{682} + a_{684} + a_{699} + a_{706} \\
a_{1498} &= \frac{a_{986} + \sqrt{a_{986}^2 - 4x}}{2} \\
x &= 2a_{93} + a_{107} - 2a_{221} + a_{224} - a_{235} + a_{137} - \\
&\quad a_{480} + a_{487} + a_{493} + a_{496} + a_{499} - 2a_{285} - \\
&\quad a_{299} + a_{311} + a_{341} - a_{999} - a_{1005} - a_{1008} - \\
&\quad a_{1011} + a_{515} - a_{521} + a_{523} + 2a_{542} + a_{555} + \\
&\quad 2a_{560} + 2a_{562} + a_{566} - a_{567} + a_{580} + a_{583} + \\
&\quad a_{588} - a_{597} - a_{608} + 2a_{609} + a_{649} - 2a_{669} - \\
&\quad a_{683} + a_{685} + a_{700} + a_{707} \\
a_{1499} &= \frac{a_{987} - \sqrt{a_{987}^2 - 4x}}{2} \\
x &= 2a_{94} + a_{108} - 2a_{222} + a_{225} - a_{236} + a_{138} - \\
&\quad a_{481} + a_{488} + a_{494} + a_{497} + a_{500} - 2a_{286} - \\
&\quad a_{300} + a_{312} + a_{342} - a_{1000} - a_{1006} - a_{1009} - \\
&\quad a_{1012} + a_{516} - a_{522} + a_{524} + 2a_{543} + a_{556} + \\
&\quad 2a_{561} + 2a_{563} + a_{567} - a_{568} + a_{581} + a_{584} + \\
&\quad a_{589} - a_{598} - a_{609} + 2a_{610} + a_{650} - 2a_{670} - \\
&\quad a_{684} + a_{686} + a_{701} + a_{708} \\
a_{1500} &= \frac{a_{988} - \sqrt{a_{988}^2 - 4x}}{2} \\
x &= 2a_{95} + a_{109} - 2a_{223} + a_{226} - a_{237} + a_{139} - \\
&\quad a_{482} + a_{489} + a_{495} + a_{498} + a_{501} - 2a_{287} - \\
&\quad a_{301} + a_{313} + a_{343} - a_{1001} - a_{1007} - a_{1010} - \\
&\quad a_{1013} + a_{517} - a_{523} + a_{525} + 2a_{544} + a_{557} + \\
&\quad 2a_{562} + 2a_{564} + a_{568} - a_{569} + a_{582} + a_{585} + \\
&\quad a_{590} - a_{599} - a_{610} + 2a_{611} + a_{651} - 2a_{671} - \\
&\quad a_{685} + a_{687} + a_{702} + a_{709} \\
a_{1501} &= \frac{a_{989} + \sqrt{a_{989}^2 - 4x}}{2} \\
x &= 2a_{96} + a_{110} - 2a_{224} + a_{227} - a_{238} + a_{140} - \\
&\quad a_{483} + a_{490} + a_{496} + a_{499} + a_{502} - 2a_{288} - \\
&\quad a_{302} + a_{314} + a_{344} - a_{1002} - a_{1008} - a_{1011} - \\
&\quad a_{1014} + a_{518} - a_{524} + a_{526} + 2a_{545} + a_{558} + \\
&\quad 2a_{563} + 2a_{565} + a_{569} - a_{570} + a_{583} + a_{586} + \\
&\quad a_{591} - a_{600} - a_{611} + 2a_{612} + a_{652} - 2a_{672} - \\
&\quad a_{686} + a_{688} + a_{703} + a_{710} \\
a_{1502} &= \frac{a_{990} + \sqrt{a_{990}^2 - 4x}}{2} \\
x &= 2a_{97} + a_{111} - 2a_{225} + a_{228} - a_{239} + a_{141} - \\
&\quad a_{484} + a_{491} + a_{497} + a_{500} + a_{503} - 2a_{289} - \\
&\quad a_{303} + a_{315} + a_{345} - a_{1003} - a_{1009} - a_{1012} - \\
&\quad a_{1015} + a_{519} - a_{525} + a_{527} + 2a_{546} + a_{559} + \\
&\quad 2a_{564} + 2a_{566} + a_{570} - a_{571} + a_{584} + a_{587} + \\
&\quad a_{592} - a_{601} - a_{612} + 2a_{613} + a_{653} - 2a_{673} - \\
&\quad a_{687} + a_{689} + a_{704} + a_{711} \\
a_{1503} &= \frac{a_{991} + \sqrt{a_{991}^2 - 4x}}{2} \\
x &= 2a_{98} + a_{112} - 2a_{226} + a_{229} - a_{240} + a_{142} - \\
&\quad a_{485} + a_{492} + a_{498} + a_{501} + a_{504} - 2a_{290} - \\
&\quad a_{304} + a_{316} + a_{346} - a_{1004} - a_{1010} - a_{1013} - \\
&\quad a_{1016} + a_{520} - a_{526} + a_{528} + 2a_{547} + a_{560} + \\
&\quad 2a_{565} + 2a_{567} + a_{571} - a_{572} + a_{585} + a_{588} + \\
&\quad a_{593} - a_{602} - a_{613} + 2a_{614} + a_{654} - 2a_{674} - \\
&\quad a_{688} + a_{690} + a_{705} + a_{712}
\end{aligned}
$$

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\begin{aligned}
a_{1504} &= \frac{a_{992}+\sqrt{a_{992}^2-4x}}{2}\\
x &= 2a_{99}+a_{113}-2a_{227}+a_{230}-a_{241}+a_{143}-\\
&\quad a_{486}+a_{493}+a_{499}+a_{502}+a_{505}-2a_{291}-\\
&\quad a_{305}+a_{317}+a_{347}-a_{1005}-a_{1011}-a_{1014}-\\
&\quad a_{1017}+a_{521}-a_{527}+a_{529}+2a_{548}+a_{561}+\\
&\quad 2a_{566}+2a_{568}+a_{572}-a_{573}+a_{586}+a_{589}+\\
&\quad a_{594}-a_{603}-a_{614}+2a_{615}+a_{655}-2a_{675}-\\
&\quad a_{689}+a_{691}+a_{706}+a_{713}\\
a_{1505} &= \frac{a_{993}+\sqrt{a_{993}^2-4x}}{2}\\
x &= 2a_{100}+a_{114}-2a_{228}+a_{231}-a_{242}+a_{144}-\\
&\quad a_{487}+a_{494}+a_{500}+a_{503}+a_{506}-2a_{292}-\\
&\quad a_{306}+a_{318}+a_{348}-a_{1006}-a_{1012}-a_{1015}-\\
&\quad a_{1018}+a_{522}-a_{528}+a_{530}+2a_{549}+a_{562}+\\
&\quad 2a_{567}+2a_{569}+a_{573}-a_{574}+a_{587}+a_{590}+\\
&\quad a_{595}-a_{604}-a_{615}+2a_{616}+a_{656}-2a_{676}-\\
&\quad a_{690}+a_{692}+a_{707}+a_{714}\\
a_{1506} &= \frac{a_{994}-\sqrt{a_{994}^2-4x}}{2}\\
x &= 2a_{102}+a_{116}-2a_{230}+a_{233}-a_{244}+a_{146}-\\
&\quad a_{489}+a_{496}+a_{502}+a_{505}+a_{508}-2a_{294}-\\
&\quad a_{308}+a_{320}+a_{350}-a_{1008}-a_{1014}-a_{1017}-\\
&\quad a_{1020}+a_{524}-a_{530}+a_{532}+2a_{551}+a_{564}+\\
&\quad 2a_{569}+2a_{571}+a_{575}-a_{576}+a_{589}+a_{592}+\\
&\quad a_{597}-a_{606}-a_{617}+2a_{618}+a_{658}-2a_{678}-\\
&\quad a_{692}+a_{694}+a_{709}+a_{716}\\
a_{1508} &= \frac{a_{996}-\sqrt{a_{996}^2-4x}}{2}\\
x &= 2a_{103}+a_{117}-2a_{231}+a_{234}-a_{245}+a_{147}-\\
&\quad a_{490}+a_{497}+a_{503}+a_{506}+a_{509}-2a_{295}-\\
&\quad a_{309}+a_{321}+a_{351}-a_{1009}-a_{1015}-a_{1018}-\\
&\quad a_{1021}+a_{525}-a_{531}+a_{533}+2a_{552}+a_{565}+\\
&\quad 2a_{570}+2a_{572}+a_{576}-a_{577}+a_{590}+a_{593}+\\
&\quad a_{598}-a_{607}-a_{618}+2a_{619}+a_{659}-2a_{679}-\\
&\quad a_{693}+a_{695}+a_{710}+a_{717}\\
a_{1509} &= \frac{a_{997}+\sqrt{a_{997}^2-4x}}{2}\\
x &= 2a_{104}+a_{118}-2a_{232}+a_{235}-a_{246}+a_{148}-\\
&\quad a_{491}+a_{498}+a_{504}+a_{507}+a_{510}-2a_{296}-\\
&\quad a_{310}+a_{322}+a_{352}-a_{1010}-a_{1016}-a_{1019}-\\
&\quad a_{1022}+a_{526}-a_{532}+a_{534}+2a_{553}+a_{566}+\\
&\quad 2a_{571}+2a_{573}+a_{577}-a_{578}+a_{591}+a_{594}+\\
&\quad a_{599}-a_{608}-a_{619}+2a_{620}+a_{660}-2a_{680}-\\
&\quad a_{694}+a_{696}+a_{711}+a_{718}\\
a_{1510} &= \frac{a_{998}-\sqrt{a_{998}^2-4x}}{2}\\
x &= 2a_{105}+a_{119}-2a_{233}+a_{236}-a_{247}+a_{149}-\\
&\quad a_{492}+a_{499}+a_{505}+a_{508}+a_{255}-2a_{297}-\\
&\quad a_{311}+a_{323}+a_{353}-a_{1011}-a_{1017}-a_{1020}-\\
&\quad a_{511}+a_{527}-a_{533}+a_{535}+2a_{554}+a_{567}+\\
&\quad 2a_{572}+2a_{574}+a_{578}-a_{579}+a_{592}+a_{595}+\\
&\quad a_{600}-a_{609}-a_{620}+2a_{621}+a_{661}-2a_{681}-\\
&\quad a_{695}+a_{697}+a_{712}+a_{719}\\
a_{1511} &= \frac{a_{999}-\sqrt{a_{999}^2-4x}}{2}\\
x &= 2a_{106}+a_{120}-2a_{234}+a_{237}-a_{248}+a_{150}-\\
&\quad a_{493}+a_{500}+a_{506}+a_{509}+a_{256}-2a_{298}-\\
&\quad a_{312}+a_{324}+a_{354}-a_{1012}-a_{1018}-a_{1021}-\\
&\quad a_{512}+a_{528}-a_{534}+a_{536}+2a_{555}+a_{568}+\\
&\quad 2a_{573}+2a_{575}+a_{579}-a_{580}+a_{593}+a_{596}+\\
&\quad a_{601}-a_{610}-a_{621}+2a_{622}+a_{662}-2a_{682}-\\
&\quad a_{696}+a_{698}+a_{713}+a_{720}\\
a_{1512} &= \frac{a_{1000}+\sqrt{a_{1000}^2-4x}}{2}\\
x &= 2a_{107}+a_{121}-2a_{235}+a_{238}-a_{249}+a_{151}-\\
&\quad a_{494}+a_{501}+a_{507}+a_{510}+a_{257}-2a_{299}-\\
&\quad a_{313}+a_{325}+a_{355}-a_{1013}-a_{1019}-a_{1022}-\\
&\quad a_{513}+a_{529}-a_{535}+a_{537}+2a_{556}+a_{569}+\\
&\quad 2a_{574}+2a_{576}+a_{580}-a_{581}+a_{594}+a_{597}+\\
&\quad a_{602}-a_{611}-a_{622}+2a_{623}+a_{663}-2a_{683}-\\
&\quad a_{697}+a_{699}+a_{714}+a_{721}\\
a_{1513} &= \frac{a_{1001}+\sqrt{a_{1001}^2-4x}}{2}\\
x &= 2a_{111}+a_{125}-2a_{239}+a_{242}-a_{253}+a_{155}-\\
&\quad a_{498}+a_{505}+a_{255}+a_{258}+a_{261}-2a_{303}-\\
&\quad a_{317}+a_{329}+a_{359}-a_{1017}-a_{511}-a_{514}-\\
&\quad a_{517}+a_{533}-a_{539}+a_{541}+2a_{560}+a_{573}+\\
&\quad 2a_{578}+2a_{580}+a_{584}-a_{585}+a_{598}+a_{601}+\\
&\quad a_{606}-a_{615}-a_{626}+2a_{627}+a_{667}-2a_{687}-\\
&\quad a_{701}+a_{703}+a_{718}+a_{725}\\
a_{1517} &= \frac{a_{1005}+\sqrt{a_{1005}^2-4x}}{2}\\
x &= 2a_{112}+a_{126}-2a_{240}+a_{243}-a_{254}+a_{156}-\\
&\quad a_{499}+a_{506}+a_{256}+a_{259}+a_{262}-2a_{304}-\\
&\quad a_{318}+a_{330}+a_{360}-a_{1018}-a_{512}-a_{515}-\\
&\quad a_{518}+a_{534}-a_{540}+a_{542}+2a_{561}+a_{574}+\\
&\quad 2a_{579}+2a_{581}+a_{585}-a_{586}+a_{599}+a_{602}+\\
&\quad a_{607}-a_{616}-a_{627}+2a_{628}+a_{668}-2a_{688}-\\
&\quad a_{702}+a_{704}+a_{719}+a_{726}\\
a_{1518} &= \frac{a_{1006}+\sqrt{a_{1006}^2-4x}}{2}\\
x &= 2a_{113}+a_{63}-2a_{241}+a_{244}-a_{127}+a_{157}-\\
&\quad a_{500}+a_{507}+a_{257}+a_{260}+a_{263}-2a_{305}-\\
&\quad a_{319}+a_{331}+a_{361}-a_{1019}-a_{513}-a_{516}-\\
&\quad a_{519}+a_{535}-a_{541}+a_{543}+2a_{562}+a_{575}+\\
&\quad 2a_{580}+2a_{582}+a_{586}-a_{587}+a_{600}+a_{603}+\\
&\quad a_{608}-a_{617}-a_{628}+2a_{629}+a_{669}-2a_{689}-\\
&\quad a_{703}+a_{705}+a_{720}+a_{727}
\end{aligned}
$$

$$
\begin{aligned}
a_{1519} &= \frac{a_{1007}+\sqrt{a_{1007}^2-4x}}{2}\\
x &= 2a_{115}+a_{65}-2a_{243}+a_{246}-a_{129}+a_{159}-\\
&\quad a_{502}+a_{509}+a_{259}+a_{262}+a_{265}-2a_{307}-\\
&\quad a_{321}+a_{333}+a_{363}-a_{1021}-a_{515}-a_{518}-\\
&\quad a_{521}+a_{537}-a_{543}+a_{545}+2a_{564}+a_{577}+\\
&\quad 2a_{582}+2a_{584}+a_{588}-a_{589}+a_{602}+a_{605}+\\
&\quad a_{610}-a_{619}-a_{630}+2a_{631}+a_{671}-2a_{691}-\\
&\quad a_{705}+a_{707}+a_{722}+a_{729}\\
a_{1521} &= \frac{a_{1009}+\sqrt{a_{1009}^2-4x}}{2}\\
x &= 2a_{117}+a_{67}-2a_{245}+a_{248}-a_{131}+a_{161}-\\
&\quad a_{504}+a_{255}+a_{261}+a_{264}+a_{267}-2a_{309}-\\
&\quad a_{323}+a_{335}+a_{365}-a_{511}-a_{517}-a_{520}-\\
&\quad a_{523}+a_{539}-a_{545}+a_{547}+2a_{566}+a_{579}+\\
&\quad 2a_{584}+2a_{586}+a_{590}-a_{591}+a_{604}+a_{607}+\\
&\quad a_{612}-a_{621}-a_{632}+2a_{633}+a_{673}-2a_{693}-\\
&\quad a_{707}+a_{709}+a_{724}+a_{731}\\
a_{1523} &= \frac{a_{1011}-\sqrt{a_{1011}^2-4x}}{2}\\
x &= 2a_{120}+a_{70}-2a_{248}+a_{251}-a_{134}+a_{164}-\\
&\quad a_{507}+a_{258}+a_{264}+a_{267}+a_{270}-2a_{312}-\\
&\quad a_{326}+a_{338}+a_{368}-a_{514}-a_{520}-a_{523}-\\
&\quad a_{526}+a_{542}-a_{548}+a_{550}+2a_{569}+a_{582}+\\
&\quad 2a_{587}+2a_{589}+a_{593}-a_{594}+a_{607}+a_{610}+\\
&\quad a_{615}-a_{624}-a_{635}+2a_{636}+a_{676}-2a_{696}-\\
&\quad a_{710}+a_{712}+a_{727}+a_{734}\\
a_{1526} &= \frac{a_{1014}+\sqrt{a_{1014}^2-4x}}{2}\\
x &= 2a_{121}+a_{71}-2a_{249}+a_{252}-a_{135}+a_{165}-\\
&\quad a_{508}+a_{259}+a_{265}+a_{268}+a_{271}-2a_{313}-\\
&\quad a_{327}+a_{339}+a_{369}-a_{515}-a_{521}-a_{524}-\\
&\quad a_{527}+a_{543}-a_{549}+a_{551}+2a_{570}+a_{583}+\\
&\quad 2a_{588}+2a_{590}+a_{594}-a_{595}+a_{608}+a_{611}+\\
&\quad a_{616}-a_{625}-a_{636}+2a_{637}+a_{677}-2a_{697}-\\
&\quad a_{711}+a_{713}+a_{728}+a_{735}\\
a_{1527} &= \frac{a_{1015}-\sqrt{a_{1015}^2-4x}}{2}\\
x &= 2a_{122}+a_{72}-2a_{250}+a_{253}-a_{136}+a_{166}-\\
&\quad a_{509}+a_{260}+a_{266}+a_{269}+a_{272}-2a_{314}-\\
&\quad a_{328}+a_{340}+a_{370}-a_{516}-a_{522}-a_{525}-\\
&\quad a_{528}+a_{544}-a_{550}+a_{552}+2a_{571}+a_{584}+\\
&\quad 2a_{589}+2a_{591}+a_{595}-a_{596}+a_{609}+a_{612}+\\
&\quad a_{617}-a_{626}-a_{637}+2a_{638}+a_{678}-2a_{698}-\\
&\quad a_{712}+a_{714}+a_{729}+a_{736}\\
a_{1528} &= \frac{a_{1016}+\sqrt{a_{1016}^2-4x}}{2}\\
x &= 2a_{123}+a_{73}-2a_{251}+a_{254}-a_{137}+a_{167}-\\
&\quad a_{510}+a_{261}+a_{267}+a_{270}+a_{273}-2a_{315}-\\
&\quad a_{329}+a_{341}+a_{371}-a_{517}-a_{523}-a_{526}-\\
&\quad a_{529}+a_{545}-a_{551}+a_{553}+2a_{572}+a_{585}+\\
&\quad 2a_{590}+2a_{592}+a_{596}-a_{597}+a_{610}+a_{613}+\\
&\quad a_{618}-a_{627}-a_{638}+2a_{639}+a_{679}-2a_{699}-\\
&\quad a_{713}+a_{715}+a_{730}+a_{737}\\
a_{1529} &= \frac{a_{1017}-\sqrt{a_{1017}^2-4x}}{2}\\
x &= 2a_{124}+a_{74}-2a_{252}+a_{127}-a_{138}+a_{168}-\\
&\quad a_{255}+a_{262}+a_{268}+a_{271}+a_{274}-2a_{316}-\\
&\quad a_{330}+a_{342}+a_{372}-a_{518}-a_{524}-a_{527}-\\
&\quad a_{530}+a_{546}-a_{552}+a_{554}+2a_{573}+a_{586}+\\
&\quad 2a_{591}+2a_{593}+a_{597}-a_{598}+a_{611}+a_{614}+\\
&\quad a_{619}-a_{628}-a_{639}+2a_{640}+a_{680}-2a_{700}-\\
&\quad a_{714}+a_{716}+a_{731}+a_{738}\\
a_{1530} &= \frac{a_{1018}-\sqrt{a_{1018}^2-4x}}{2}\\
x &= 2a_{125}+a_{75}-2a_{253}+a_{128}-a_{139}+a_{169}-\\
&\quad a_{256}+a_{263}+a_{269}+a_{272}+a_{275}-2a_{317}-\\
&\quad a_{331}+a_{343}+a_{373}-a_{519}-a_{525}-a_{528}-\\
&\quad a_{531}+a_{547}-a_{553}+a_{555}+2a_{574}+a_{587}+\\
&\quad 2a_{592}+2a_{594}+a_{598}-a_{599}+a_{612}+a_{615}+\\
&\quad a_{620}-a_{629}-a_{640}+2a_{641}+a_{681}-2a_{701}-\\
&\quad a_{715}+a_{717}+a_{732}+a_{739}\\
a_{1531} &= \frac{a_{1019}-\sqrt{a_{1019}^2-4x}}{2}\\
x &= 2a_{126}+a_{76}-2a_{254}+a_{129}-a_{140}+a_{170}-\\
&\quad a_{257}+a_{264}+a_{270}+a_{273}+a_{276}-2a_{318}-\\
&\quad a_{332}+a_{344}+a_{374}-a_{520}-a_{526}-a_{529}-\\
&\quad a_{532}+a_{548}-a_{554}+a_{556}+2a_{575}+a_{588}+\\
&\quad 2a_{593}+2a_{595}+a_{599}-a_{600}+a_{613}+a_{616}+\\
&\quad a_{621}-a_{630}-a_{641}+2a_{642}+a_{682}-2a_{702}-\\
&\quad a_{716}+a_{718}+a_{733}+a_{740}\\
a_{1532} &= \frac{a_{1020}-\sqrt{a_{1020}^2-4x}}{2}\\
x &= 2a_{63}+a_{77}-2a_{127}+a_{130}-a_{141}+a_{171}-\\
&\quad a_{258}+a_{265}+a_{271}+a_{274}+a_{277}-2a_{319}-\\
&\quad a_{333}+a_{345}+a_{375}-a_{521}-a_{527}-a_{530}-\\
&\quad a_{533}+a_{549}-a_{555}+a_{557}+2a_{576}+a_{589}+\\
&\quad 2a_{594}+2a_{596}+a_{600}-a_{601}+a_{614}+a_{617}+\\
&\quad a_{622}-a_{631}-a_{642}+2a_{643}+a_{683}-2a_{703}-\\
&\quad a_{717}+a_{719}+a_{734}+a_{741}\\
a_{1533} &= \frac{a_{1021}+\sqrt{a_{1021}^2-4x}}{2}\\
x &= 2a_{64}+a_{78}-2a_{128}+a_{131}-a_{142}+a_{172}-\\
&\quad a_{259}+a_{266}+a_{272}+a_{275}+a_{278}-2a_{320}-\\
&\quad a_{334}+a_{346}+a_{376}-a_{522}-a_{528}-a_{531}-\\
&\quad a_{534}+a_{550}-a_{556}+a_{558}+2a_{577}+a_{590}+\\
&\quad 2a_{595}+2a_{597}+a_{601}-a_{602}+a_{615}+a_{618}+\\
&\quad a_{623}-a_{632}-a_{643}+2a_{644}+a_{684}-2a_{704}-\\
&\quad a_{718}+a_{720}+a_{735}+a_{742}
\end{aligned}
$$

$$
\begin{aligned}
a_{1534} &= \frac{a_{1022}+\sqrt{a_{1022}^2-4x}}{2}\\
x &= 2a_{65}+a_{79}-2a_{129}+a_{132}-a_{143}+a_{173}-\\
&\quad a_{260}+a_{267}+a_{273}+a_{276}+a_{279}-2a_{321}-\\
&\quad a_{335}+a_{347}+a_{377}-a_{523}-a_{529}-a_{532}-\\
&\quad a_{535}+a_{551}-a_{557}+a_{559}+2a_{578}+a_{591}+\\
&\quad 2a_{596}+2a_{598}+a_{602}-a_{603}+a_{616}+a_{619}+\\
&\quad a_{624}-a_{633}-a_{644}+2a_{645}+a_{685}-2a_{705}-\\
&\quad a_{719}+a_{721}+a_{736}+a_{743}\\
a_{1535} &= \frac{a_{511}-\sqrt{a_{511}^2-4x}}{2}\\
x &= 2a_{66}+a_{80}-2a_{130}+a_{133}-a_{144}+a_{174}-\\
&\quad a_{261}+a_{268}+a_{274}+a_{277}+a_{280}-2a_{322}-\\
&\quad a_{336}+a_{348}+a_{378}-a_{524}-a_{530}-a_{533}-\\
&\quad a_{536}+a_{552}-a_{558}+a_{560}+2a_{579}+a_{592}+\\
&\quad 2a_{597}+2a_{599}+a_{603}-a_{604}+a_{617}+a_{620}+\\
&\quad a_{625}-a_{634}-a_{645}+2a_{646}+a_{686}-2a_{706}-\\
&\quad a_{720}+a_{722}+a_{737}+a_{744}\\
a_{1536} &= \frac{a_{512}-\sqrt{a_{512}^2-4x}}{2}\\
x &= 2a_{67}+a_{81}-2a_{131}+a_{134}-a_{145}+a_{175}-\\
&\quad a_{262}+a_{269}+a_{275}+a_{278}+a_{281}-2a_{323}-\\
&\quad a_{337}+a_{349}+a_{379}-a_{525}-a_{531}-a_{534}-\\
&\quad a_{537}+a_{553}-a_{559}+a_{561}+2a_{580}+a_{593}+\\
&\quad 2a_{598}+2a_{600}+a_{604}-a_{605}+a_{618}+a_{621}+\\
&\quad a_{626}-a_{635}-a_{646}+2a_{647}+a_{687}-2a_{707}-\\
&\quad a_{721}+a_{723}+a_{738}+a_{745}\\
a_{1537} &= \frac{a_{513}-\sqrt{a_{513}^2-4x}}{2}\\
x &= 2a_{68}+a_{82}-2a_{132}+a_{135}-a_{146}+a_{176}-\\
&\quad a_{263}+a_{270}+a_{276}+a_{279}+a_{282}-2a_{324}-\\
&\quad a_{338}+a_{350}+a_{380}-a_{526}-a_{532}-a_{535}-\\
&\quad a_{538}+a_{554}-a_{560}+a_{562}+2a_{581}+a_{594}+\\
&\quad 2a_{599}+2a_{601}+a_{605}-a_{606}+a_{619}+a_{622}+\\
&\quad a_{627}-a_{636}-a_{647}+2a_{648}+a_{688}-2a_{708}-\\
&\quad a_{722}+a_{724}+a_{739}+a_{746}\\
a_{1538} &= \frac{a_{514}-\sqrt{a_{514}^2-4x}}{2}\\
x &= 2a_{69}+a_{83}-2a_{133}+a_{136}-a_{147}+a_{177}-\\
&\quad a_{264}+a_{271}+a_{277}+a_{280}+a_{283}-2a_{325}-\\
&\quad a_{339}+a_{351}+a_{381}-a_{527}-a_{533}-a_{536}-\\
&\quad a_{539}+a_{555}-a_{561}+a_{563}+2a_{582}+a_{595}+\\
&\quad 2a_{600}+2a_{602}+a_{606}-a_{607}+a_{620}+a_{623}+\\
&\quad a_{628}-a_{637}-a_{648}+2a_{649}+a_{689}-2a_{709}-\\
&\quad a_{723}+a_{725}+a_{740}+a_{747}\\
a_{1539} &= \frac{a_{515}-\sqrt{a_{515}^2-4x}}{2}\\
x &= 2a_{70}+a_{84}-2a_{134}+a_{137}-a_{148}+a_{178}-\\
&\quad a_{265}+a_{272}+a_{278}+a_{281}+a_{284}-2a_{326}-\\
&\quad a_{340}+a_{352}+a_{382}-a_{528}-a_{534}-a_{537}-\\
&\quad a_{540}+a_{556}-a_{562}+a_{564}+2a_{583}+a_{596}+\\
&\quad 2a_{601}+2a_{603}+a_{607}-a_{608}+a_{621}+a_{624}+\\
&\quad a_{629}-a_{638}-a_{649}+2a_{650}+a_{690}-2a_{710}-\\
&\quad a_{724}+a_{726}+a_{741}+a_{748}\\
a_{1540} &= \frac{a_{516}-\sqrt{a_{516}^2-4x}}{2}\\
x &= 2a_{71}+a_{85}-2a_{135}+a_{138}-a_{149}+a_{179}-\\
&\quad a_{266}+a_{273}+a_{279}+a_{282}+a_{285}-2a_{327}-\\
&\quad a_{341}+a_{353}+a_{383}-a_{529}-a_{535}-a_{538}-\\
&\quad a_{541}+a_{557}-a_{563}+a_{565}+2a_{584}+a_{597}+\\
&\quad 2a_{602}+2a_{604}+a_{608}-a_{609}+a_{622}+a_{625}+\\
&\quad a_{630}-a_{639}-a_{650}+2a_{651}+a_{691}-2a_{711}-\\
&\quad a_{725}+a_{727}+a_{742}+a_{749}\\
a_{1541} &= \frac{a_{517}-\sqrt{a_{517}^2-4x}}{2}\\
x &= 2a_{72}+a_{86}-2a_{136}+a_{139}-a_{150}+a_{180}-\\
&\quad a_{267}+a_{274}+a_{280}+a_{283}+a_{286}-2a_{328}-\\
&\quad a_{342}+a_{354}+a_{384}-a_{530}-a_{536}-a_{539}-\\
&\quad a_{542}+a_{558}-a_{564}+a_{566}+2a_{585}+a_{598}+\\
&\quad 2a_{603}+2a_{605}+a_{609}-a_{610}+a_{623}+a_{626}+\\
&\quad a_{631}-a_{640}-a_{651}+2a_{652}+a_{692}-2a_{712}-\\
&\quad a_{726}+a_{728}+a_{743}+a_{750}\\
a_{1542} &= \frac{a_{518}-\sqrt{a_{518}^2-4x}}{2}\\
x &= 2a_{75}+a_{89}-2a_{139}+a_{142}-a_{153}+a_{183}-\\
&\quad a_{270}+a_{277}+a_{283}+a_{286}+a_{289}-2a_{331}-\\
&\quad a_{345}+a_{357}+a_{387}-a_{533}-a_{539}-a_{542}-\\
&\quad a_{545}+a_{561}-a_{567}+a_{569}+2a_{588}+a_{601}+\\
&\quad 2a_{606}+2a_{608}+a_{612}-a_{613}+a_{626}+a_{629}+\\
&\quad a_{634}-a_{643}-a_{654}+2a_{655}+a_{695}-2a_{715}-\\
&\quad a_{729}+a_{731}+a_{746}+a_{753}\\
a_{1545} &= \frac{a_{521}-\sqrt{a_{521}^2-4x}}{2}\\
x &= 2a_{76}+a_{90}-2a_{140}+a_{143}-a_{154}+a_{184}-\\
&\quad a_{271}+a_{278}+a_{284}+a_{287}+a_{290}-2a_{332}-\\
&\quad a_{346}+a_{358}+a_{388}-a_{534}-a_{540}-a_{543}-\\
&\quad a_{546}+a_{562}-a_{568}+a_{570}+2a_{589}+a_{602}+\\
&\quad 2a_{607}+2a_{609}+a_{613}-a_{614}+a_{627}+a_{630}+\\
&\quad a_{635}-a_{644}-a_{655}+2a_{656}+a_{696}-2a_{716}-\\
&\quad a_{730}+a_{732}+a_{747}+a_{754}\\
a_{1546} &= \frac{a_{522}-\sqrt{a_{522}^2-4x}}{2}\\
x &= 2a_{77}+a_{91}-2a_{141}+a_{144}-a_{155}+a_{185}-\\
&\quad a_{272}+a_{279}+a_{285}+a_{288}+a_{291}-2a_{333}-\\
&\quad a_{347}+a_{359}+a_{389}-a_{535}-a_{541}-a_{544}-\\
&\quad a_{547}+a_{563}-a_{569}+a_{571}+2a_{590}+a_{603}+\\
&\quad 2a_{608}+2a_{610}+a_{614}-a_{615}+a_{628}+a_{631}+\\
&\quad a_{636}-a_{645}-a_{656}+2a_{657}+a_{697}-2a_{717}-\\
&\quad a_{731}+a_{733}+a_{748}+a_{755}
\end{aligned}
$$

$$
\begin{aligned}
a_{1547} &= \frac{a_{523}-\sqrt{a_{523}^2-4x}}{2}\\
x &= 2a_{78}+a_{92}-2a_{142}+a_{145}-a_{156}+a_{186}-\\
&\quad a_{273}+a_{280}+a_{286}+a_{289}+a_{292}-2a_{334}-\\
&\quad a_{348}+a_{360}+a_{390}-a_{536}-a_{542}-a_{545}-\\
&\quad a_{548}+a_{564}-a_{570}+a_{572}+2a_{591}+a_{604}+\\
&\quad 2a_{609}+2a_{611}+a_{615}-a_{616}+a_{629}+a_{632}+\\
&\quad a_{637}-a_{646}-a_{657}+2a_{658}+a_{698}-2a_{718}-\\
&\quad a_{732}+a_{734}+a_{749}+a_{756}\\
a_{1548} &= \frac{a_{524}+\sqrt{a_{524}^2-4x}}{2}\\
x &= 2a_{79}+a_{93}-2a_{143}+a_{146}-a_{157}+a_{187}-\\
&\quad a_{274}+a_{281}+a_{287}+a_{290}+a_{293}-2a_{335}-\\
&\quad a_{349}+a_{361}+a_{391}-a_{537}-a_{543}-a_{546}-\\
&\quad a_{549}+a_{565}-a_{571}+a_{573}+2a_{592}+a_{605}+\\
&\quad 2a_{610}+2a_{612}+a_{616}-a_{617}+a_{630}+a_{633}+\\
&\quad a_{638}-a_{647}-a_{658}+2a_{659}+a_{699}-2a_{719}-\\
&\quad a_{733}+a_{735}+a_{750}+a_{757}\\
a_{1549} &= \frac{a_{525}+\sqrt{a_{525}^2-4x}}{2}\\
x &= 2a_{80}+a_{94}-2a_{144}+a_{147}-a_{158}+a_{188}-\\
&\quad a_{275}+a_{282}+a_{288}+a_{291}+a_{294}-2a_{336}-\\
&\quad a_{350}+a_{362}+a_{392}-a_{538}-a_{544}-a_{547}-\\
&\quad a_{550}+a_{566}-a_{572}+a_{574}+2a_{593}+a_{606}+\\
&\quad 2a_{611}+2a_{613}+a_{617}-a_{618}+a_{631}+a_{634}+\\
&\quad a_{639}-a_{648}-a_{659}+2a_{660}+a_{700}-2a_{720}-\\
&\quad a_{734}+a_{736}+a_{751}+a_{758}\\
a_{1550} &= \frac{a_{526}-\sqrt{a_{526}^2-4x}}{2}\\
x &= 2a_{81}+a_{95}-2a_{145}+a_{148}-a_{159}+a_{189}-\\
&\quad a_{276}+a_{283}+a_{289}+a_{292}+a_{295}-2a_{337}-\\
&\quad a_{351}+a_{363}+a_{393}-a_{539}-a_{545}-a_{548}-\\
&\quad a_{551}+a_{567}-a_{573}+a_{575}+2a_{594}+a_{607}+\\
&\quad 2a_{612}+2a_{614}+a_{618}-a_{619}+a_{632}+a_{635}+\\
&\quad a_{640}-a_{649}-a_{660}+2a_{661}+a_{701}-2a_{721}-\\
&\quad a_{735}+a_{737}+a_{752}+a_{759}\\
a_{1551} &= \frac{a_{527}-\sqrt{a_{527}^2-4x}}{2}\\
x &= 2a_{83}+a_{97}-2a_{147}+a_{150}-a_{161}+a_{191}-\\
&\quad a_{278}+a_{285}+a_{291}+a_{294}+a_{297}-2a_{339}-\\
&\quad a_{353}+a_{365}+a_{395}-a_{541}-a_{547}-a_{550}-\\
&\quad a_{553}+a_{569}-a_{575}+a_{577}+2a_{596}+a_{609}+\\
&\quad 2a_{614}+2a_{616}+a_{620}-a_{621}+a_{634}+a_{637}+\\
&\quad a_{642}-a_{651}-a_{662}+2a_{663}+a_{703}-2a_{723}-\\
&\quad a_{737}+a_{739}+a_{754}+a_{761}
\end{aligned}
$$

$$
\begin{aligned}
a_{1553} &= \frac{a_{529}+\sqrt{a_{529}^2-4x}}{2}\\
x &= 2a_{85}+a_{99}-2a_{149}+a_{152}-a_{163}+a_{193}-\\
&\quad a_{280}+a_{287}+a_{293}+a_{296}+a_{299}-2a_{341}-\\
&\quad a_{355}+a_{367}+a_{397}-a_{543}-a_{549}-a_{552}-\\
&\quad a_{555}+a_{571}-a_{577}+a_{579}+2a_{598}+a_{611}+\\
&\quad 2a_{616}+2a_{618}+a_{622}-a_{623}+a_{636}+a_{639}+\\
&\quad a_{644}-a_{653}-a_{664}+2a_{665}+a_{705}-2a_{725}-\\
&\quad a_{739}+a_{741}+a_{756}+a_{763}\\
a_{1555} &= \frac{a_{531}+\sqrt{a_{531}^2-4x}}{2}\\
x &= 2a_{89}+a_{103}-2a_{153}+a_{156}-a_{167}+a_{197}-\\
&\quad a_{284}+a_{291}+a_{297}+a_{300}+a_{303}-2a_{345}-\\
&\quad a_{359}+a_{371}+a_{401}-a_{547}-a_{553}-a_{556}-\\
&\quad a_{559}+a_{575}-a_{581}+a_{583}+2a_{602}+a_{615}+\\
&\quad 2a_{620}+2a_{622}+a_{626}-a_{627}+a_{640}+a_{643}+\\
&\quad a_{648}-a_{657}-a_{668}+2a_{669}+a_{709}-2a_{729}-\\
&\quad a_{743}+a_{745}+a_{760}+a_{767}\\
a_{1559} &= \frac{a_{535}-\sqrt{a_{535}^2-4x}}{2}\\
x &= 2a_{90}+a_{104}-2a_{154}+a_{157}-a_{168}+a_{198}-\\
&\quad a_{285}+a_{292}+a_{298}+a_{301}+a_{304}-2a_{346}-\\
&\quad a_{360}+a_{372}+a_{402}-a_{548}-a_{554}-a_{557}-\\
&\quad a_{560}+a_{576}-a_{582}+a_{584}+2a_{603}+a_{616}+\\
&\quad 2a_{621}+2a_{623}+a_{627}-a_{628}+a_{641}+a_{644}+\\
&\quad a_{649}-a_{658}-a_{669}+2a_{670}+a_{710}-2a_{730}-\\
&\quad a_{744}+a_{746}+a_{761}+a_{768}\\
a_{1560} &= \frac{a_{536}-\sqrt{a_{536}^2-4x}}{2}\\
x &= 2a_{91}+a_{105}-2a_{155}+a_{158}-a_{169}+a_{199}-\\
&\quad a_{286}+a_{293}+a_{299}+a_{302}+a_{305}-2a_{347}-\\
&\quad a_{361}+a_{373}+a_{403}-a_{549}-a_{555}-a_{558}-\\
&\quad a_{561}+a_{577}-a_{583}+a_{585}+2a_{604}+a_{617}+\\
&\quad 2a_{622}+2a_{624}+a_{628}-a_{629}+a_{642}+a_{645}+\\
&\quad a_{650}-a_{659}-a_{670}+2a_{671}+a_{711}-2a_{731}-\\
&\quad a_{745}+a_{747}+a_{762}+a_{769}\\
a_{1561} &= \frac{a_{537}+\sqrt{a_{537}^2-4x}}{2}\\
x &= 2a_{92}+a_{106}-2a_{156}+a_{159}-a_{170}+a_{200}-\\
&\quad a_{287}+a_{294}+a_{300}+a_{303}+a_{306}-2a_{348}-\\
&\quad a_{362}+a_{374}+a_{404}-a_{550}-a_{556}-a_{559}-\\
&\quad a_{562}+a_{578}-a_{584}+a_{586}+2a_{605}+a_{618}+\\
&\quad 2a_{623}+2a_{625}+a_{629}-a_{630}+a_{643}+a_{646}+\\
&\quad a_{651}-a_{660}-a_{671}+2a_{672}+a_{712}-2a_{732}-\\
&\quad a_{746}+a_{748}+a_{763}+a_{770}\\
a_{1562} &= \frac{a_{538}+\sqrt{a_{538}^2-4x}}{2}\\
x &= 2a_{93}+a_{107}-2a_{157}+a_{160}-a_{171}+a_{201}-\\
&\quad a_{288}+a_{295}+a_{301}+a_{304}+a_{307}-2a_{349}-\\
&\quad a_{363}+a_{375}+a_{405}-a_{551}-a_{557}-a_{560}-\\
&\quad a_{563}+a_{579}-a_{585}+a_{587}+2a_{606}+a_{619}+\\
&\quad 2a_{624}+2a_{626}+a_{630}-a_{631}+a_{644}+a_{647}+\\
&\quad a_{652}-a_{661}-a_{672}+2a_{673}+a_{713}-2a_{733}-\\
&\quad a_{747}+a_{749}+a_{764}+a_{771}
\end{aligned}
$$

$$
\begin{aligned}
a_{1563} &= \frac{a_{539} - \sqrt{a_{539}^2 - 4x}}{2} \\
x &= 2a_{94} + a_{108} - 2a_{158} + a_{161} - a_{172} + a_{202} - \\
&\quad a_{289} + a_{296} + a_{302} + a_{305} + a_{308} - 2a_{350} - \\
&\quad a_{364} + a_{376} + a_{406} - a_{552} - a_{558} - a_{561} - \\
&\quad a_{564} + a_{580} - a_{586} + a_{588} + 2a_{607} + a_{620} + \\
&\quad 2a_{625} + 2a_{627} + a_{631} - a_{632} + a_{645} + a_{648} + \\
&\quad a_{653} - a_{662} - a_{673} + 2a_{674} + a_{714} - 2a_{734} - \\
&\quad a_{748} + a_{750} + a_{765} + a_{772} \\
a_{1564} &= \frac{a_{540} + \sqrt{a_{540}^2 - 4x}}{2} \\
x &= 2a_{95} + a_{109} - 2a_{159} + a_{162} - a_{173} + a_{203} - \\
&\quad a_{290} + a_{297} + a_{303} + a_{306} + a_{309} - 2a_{351} - \\
&\quad a_{365} + a_{377} + a_{407} - a_{553} - a_{559} - a_{562} - \\
&\quad a_{565} + a_{581} - a_{587} + a_{589} + 2a_{608} + a_{621} + \\
&\quad 2a_{626} + 2a_{628} + a_{632} - a_{633} + a_{646} + a_{649} + \\
&\quad a_{654} - a_{663} - a_{674} + 2a_{675} + a_{715} - 2a_{735} - \\
&\quad a_{749} + a_{751} + a_{766} + a_{773} \\
a_{1565} &= \frac{a_{541} - \sqrt{a_{541}^2 - 4x}}{2} \\
x &= 2a_{99} + a_{113} - 2a_{163} + a_{166} - a_{177} + a_{207} - \\
&\quad a_{294} + a_{301} + a_{307} + a_{310} + a_{313} - 2a_{355} - \\
&\quad a_{369} + a_{381} + a_{411} - a_{557} - a_{563} - a_{566} - \\
&\quad a_{569} + a_{585} - a_{591} + a_{593} + 2a_{612} + a_{625} + \\
&\quad 2a_{630} + 2a_{632} + a_{636} - a_{637} + a_{650} + a_{653} + \\
&\quad a_{658} - a_{667} - a_{678} + 2a_{679} + a_{719} - 2a_{739} - \\
&\quad a_{753} + a_{755} + a_{770} + a_{777} \\
a_{1569} &= \frac{a_{545} - \sqrt{a_{545}^2 - 4x}}{2} \\
x &= 2a_{100} + a_{114} - 2a_{164} + a_{167} - a_{178} + a_{208} - \\
&\quad a_{295} + a_{302} + a_{308} + a_{311} + a_{314} - 2a_{356} - \\
&\quad a_{370} + a_{382} + a_{412} - a_{558} - a_{564} - a_{567} - \\
&\quad a_{570} + a_{586} - a_{592} + a_{594} + 2a_{613} + a_{626} + \\
&\quad 2a_{631} + 2a_{633} + a_{637} - a_{638} + a_{651} + a_{654} + \\
&\quad a_{659} - a_{668} - a_{679} + 2a_{680} + a_{720} - 2a_{740} - \\
&\quad a_{754} + a_{756} + a_{771} + a_{778}
\end{aligned}
$$

$$
\begin{aligned}
a_{1570} &= \frac{a_{546} + \sqrt{a_{546}^2 - 4x}}{2} \\
x &= 2a_{101} + a_{115} - 2a_{165} + a_{168} - a_{179} + a_{209} - \\
&\quad a_{296} + a_{303} + a_{309} + a_{312} + a_{315} - 2a_{357} - \\
&\quad a_{371} + a_{383} + a_{413} - a_{559} - a_{565} - a_{568} - \\
&\quad a_{571} + a_{587} - a_{593} + a_{595} + 2a_{614} + a_{627} + \\
&\quad 2a_{632} + 2a_{634} + a_{638} - a_{639} + a_{652} + a_{655} + \\
&\quad a_{660} - a_{669} - a_{680} + 2a_{681} + a_{721} - 2a_{741} - \\
&\quad a_{755} + a_{757} + a_{772} + a_{779} \\
a_{1571} &= \frac{a_{547} - \sqrt{a_{547}^2 - 4x}}{2} \\
x &= 2a_{102} + a_{116} - 2a_{166} + a_{169} - a_{180} + a_{210} - \\
&\quad a_{297} + a_{304} + a_{310} + a_{313} + a_{316} - 2a_{358} - \\
&\quad a_{372} + a_{384} + a_{414} - a_{560} - a_{566} - a_{569} - \\
&\quad a_{572} + a_{588} - a_{594} + a_{596} + 2a_{615} + a_{628} + \\
&\quad 2a_{633} + 2a_{635} + a_{639} - a_{640} + a_{653} + a_{656} + \\
&\quad a_{661} - a_{670} - a_{681} + 2a_{682} + a_{722} - 2a_{742} - \\
&\quad a_{756} + a_{758} + a_{773} + a_{780} \\
a_{1572} &= \frac{a_{548} + \sqrt{a_{548}^2 - 4x}}{2} \\
x &= 2a_{103} + a_{117} - 2a_{167} + a_{170} - a_{181} + a_{211} - \\
&\quad a_{298} + a_{305} + a_{311} + a_{314} + a_{317} - 2a_{359} - \\
&\quad a_{373} + a_{385} + a_{415} - a_{561} - a_{567} - a_{570} - \\
&\quad a_{573} + a_{589} - a_{595} + a_{597} + 2a_{616} + a_{629} + \\
&\quad 2a_{634} + 2a_{636} + a_{640} - a_{641} + a_{654} + a_{657} + \\
&\quad a_{662} - a_{671} - a_{682} + 2a_{683} + a_{723} - 2a_{743} - \\
&\quad a_{757} + a_{759} + a_{774} + a_{781} \\
a_{1573} &= \frac{a_{549} + \sqrt{a_{549}^2 - 4x}}{2} \\
x &= 2a_{104} + a_{118} - 2a_{168} + a_{171} - a_{182} + a_{212} - \\
&\quad a_{299} + a_{306} + a_{312} + a_{315} + a_{318} - 2a_{360} - \\
&\quad a_{374} + a_{386} + a_{416} - a_{562} - a_{568} - a_{571} - \\
&\quad a_{574} + a_{590} - a_{596} + a_{598} + 2a_{617} + a_{630} + \\
&\quad 2a_{635} + 2a_{637} + a_{641} - a_{642} + a_{655} + a_{658} + \\
&\quad a_{663} - a_{672} - a_{683} + 2a_{684} + a_{724} - 2a_{744} - \\
&\quad a_{758} + a_{760} + a_{775} + a_{782} \\
a_{1574} &= \frac{a_{550} + \sqrt{a_{550}^2 - 4x}}{2} \\
x &= 2a_{105} + a_{119} - 2a_{169} + a_{172} - a_{183} + a_{213} - \\
&\quad a_{300} + a_{307} + a_{313} + a_{316} + a_{319} - 2a_{361} - \\
&\quad a_{375} + a_{387} + a_{417} - a_{563} - a_{569} - a_{572} - \\
&\quad a_{575} + a_{591} - a_{597} + a_{599} + 2a_{618} + a_{631} + \\
&\quad 2a_{636} + 2a_{638} + a_{642} - a_{643} + a_{656} + a_{659} + \\
&\quad a_{664} - a_{673} - a_{684} + 2a_{685} + a_{725} - 2a_{745} - \\
&\quad a_{759} + a_{761} + a_{776} + a_{783} \\
a_{1575} &= \frac{a_{551} + \sqrt{a_{551}^2 - 4x}}{2} \\
x &= 2a_{106} + a_{120} - 2a_{170} + a_{173} - a_{184} + a_{214} - \\
&\quad a_{301} + a_{308} + a_{314} + a_{317} + a_{320} - 2a_{362} - \\
&\quad a_{376} + a_{388} + a_{418} - a_{564} - a_{570} - a_{573} - \\
&\quad a_{576} + a_{592} - a_{598} + a_{600} + 2a_{619} + a_{632} + \\
&\quad 2a_{637} + 2a_{639} + a_{643} - a_{644} + a_{657} + a_{660} + \\
&\quad a_{665} - a_{674} - a_{685} + 2a_{686} + a_{726} - 2a_{746} - \\
&\quad a_{760} + a_{762} + a_{777} + a_{784} \\
a_{1576} &= \frac{a_{552} + \sqrt{a_{552}^2 - 4x}}{2} \\
x &= 2a_{107} + a_{121} - 2a_{171} + a_{174} - a_{185} + a_{215} - \\
&\quad a_{302} + a_{309} + a_{315} + a_{318} + a_{321} - 2a_{363} - \\
&\quad a_{377} + a_{389} + a_{419} - a_{565} - a_{571} - a_{574} - \\
&\quad a_{577} + a_{593} - a_{599} + a_{601} + 2a_{620} + a_{633} + \\
&\quad 2a_{638} + 2a_{640} + a_{644} - a_{645} + a_{658} + a_{661} + \\
&\quad a_{666} - a_{675} - a_{686} + 2a_{687} + a_{727} - 2a_{747} - \\
&\quad a_{761} + a_{763} + a_{778} + a_{785}
\end{aligned}
$$

$$
\begin{aligned}
a_{1577} &= \frac{a_{553}+\sqrt{a_{553}^2-4x}}{2}\\
x &= 2a_{108}+a_{122}-2a_{172}+a_{175}-a_{186}+a_{216}-\\
&\quad a_{303}+a_{310}+a_{316}+a_{319}+a_{322}-2a_{364}-\\
&\quad a_{378}+a_{390}+a_{420}-a_{566}-a_{572}-a_{575}-\\
&\quad a_{578}+a_{594}-a_{600}+a_{602}+2a_{621}+a_{634}+\\
&\quad 2a_{639}+2a_{641}+a_{645}-a_{646}+a_{659}+a_{662}+\\
&\quad a_{667}-a_{676}-a_{687}+2a_{688}+a_{728}-2a_{748}-\\
&\quad a_{762}+a_{764}+a_{779}+a_{786}\\
a_{1578} &= \frac{a_{554}-\sqrt{a_{554}^2-4x}}{2}\\
x &= 2a_{109}+a_{123}-2a_{173}+a_{176}-a_{187}+a_{217}-\\
&\quad a_{304}+a_{311}+a_{317}+a_{320}+a_{323}-2a_{365}-\\
&\quad a_{379}+a_{391}+a_{421}-a_{567}-a_{573}-a_{576}-\\
&\quad a_{579}+a_{595}-a_{601}+a_{603}+2a_{622}+a_{635}+\\
&\quad 2a_{640}+2a_{642}+a_{646}-a_{647}+a_{660}+a_{663}+\\
&\quad a_{668}-a_{677}-a_{688}+2a_{689}+a_{729}-2a_{749}-\\
&\quad a_{763}+a_{765}+a_{780}+a_{787}\\
a_{1579} &= \frac{a_{555}-\sqrt{a_{555}^2-4x}}{2}\\
x &= 2a_{112}+a_{126}-2a_{176}+a_{179}-a_{190}+a_{220}-\\
&\quad a_{307}+a_{314}+a_{320}+a_{323}+a_{326}-2a_{368}-\\
&\quad a_{382}+a_{394}+a_{424}-a_{570}-a_{576}-a_{579}-\\
&\quad a_{582}+a_{598}-a_{604}+a_{606}+2a_{625}+a_{638}+\\
&\quad 2a_{643}+2a_{645}+a_{649}-a_{650}+a_{663}+a_{666}+\\
&\quad a_{671}-a_{680}-a_{691}+2a_{692}+a_{732}-2a_{752}-\\
&\quad a_{766}+a_{768}+a_{783}+a_{790}
\end{aligned}
$$

$$
\begin{aligned}
a_{1582} &= \frac{a_{558}+\sqrt{a_{558}^2-4x}}{2}\\
x &= 2a_{115}+a_{65}-2a_{179}+a_{182}-a_{193}+a_{223}-\\
&\quad a_{310}+a_{317}+a_{323}+a_{326}+a_{329}-2a_{371}-\\
&\quad a_{385}+a_{397}+a_{427}-a_{573}-a_{579}-a_{582}-\\
&\quad a_{585}+a_{601}-a_{607}+a_{609}+2a_{628}+a_{641}+\\
&\quad 2a_{646}+2a_{648}+a_{652}-a_{653}+a_{666}+a_{669}+\\
&\quad a_{674}-a_{683}-a_{694}+2a_{695}+a_{735}-2a_{755}-\\
&\quad a_{769}+a_{771}+a_{786}+a_{793}\\
a_{1585} &= \frac{a_{561}-\sqrt{a_{561}^2-4x}}{2}\\
x &= 2a_{119}+a_{69}-2a_{183}+a_{186}-a_{197}+a_{227}-\\
&\quad a_{314}+a_{321}+a_{327}+a_{330}+a_{333}-2a_{375}-\\
&\quad a_{389}+a_{401}+a_{431}-a_{577}-a_{583}-a_{586}-\\
&\quad a_{589}+a_{605}-a_{611}+a_{613}+2a_{632}+a_{645}+\\
&\quad 2a_{650}+2a_{652}+a_{656}-a_{657}+a_{670}+a_{673}+\\
&\quad a_{678}-a_{687}-a_{698}+2a_{699}+a_{739}-2a_{759}-\\
&\quad a_{773}+a_{775}+a_{790}+a_{797}\\
a_{1589} &= \frac{a_{565}-\sqrt{a_{565}^2-4x}}{2}\\
x &= 2a_{120}+a_{70}-2a_{184}+a_{187}-a_{198}+a_{228}-\\
&\quad a_{315}+a_{322}+a_{328}+a_{331}+a_{334}-2a_{376}-\\
&\quad a_{390}+a_{402}+a_{432}-a_{578}-a_{584}-a_{587}-\\
&\quad a_{590}+a_{606}-a_{612}+a_{614}+2a_{633}+a_{646}+\\
&\quad 2a_{651}+2a_{653}+a_{657}-a_{658}+a_{671}+a_{674}+\\
&\quad a_{679}-a_{688}-a_{699}+2a_{700}+a_{740}-2a_{760}-\\
&\quad a_{774}+a_{776}+a_{791}+a_{798}\\
a_{1590} &= \frac{a_{566}-\sqrt{a_{566}^2-4x}}{2}\\
x &= 2a_{121}+a_{71}-2a_{185}+a_{188}-a_{199}+a_{229}-\\
&\quad a_{316}+a_{323}+a_{329}+a_{332}+a_{335}-2a_{377}-\\
&\quad a_{391}+a_{403}+a_{433}-a_{579}-a_{585}-a_{588}-\\
&\quad a_{591}+a_{607}-a_{613}+a_{615}+2a_{634}+a_{647}+\\
&\quad 2a_{652}+2a_{654}+a_{658}-a_{659}+a_{672}+a_{675}+\\
&\quad a_{680}-a_{689}-a_{700}+2a_{701}+a_{741}-2a_{761}-\\
&\quad a_{775}+a_{777}+a_{792}+a_{799}\\
a_{1591} &= \frac{a_{567}+\sqrt{a_{567}^2-4x}}{2}\\
x &= 2a_{122}+a_{72}-2a_{186}+a_{189}-a_{200}+a_{230}-\\
&\quad a_{317}+a_{324}+a_{330}+a_{333}+a_{336}-2a_{378}-\\
&\quad a_{392}+a_{404}+a_{434}-a_{580}-a_{586}-a_{589}-\\
&\quad a_{592}+a_{608}-a_{614}+a_{616}+2a_{635}+a_{648}+\\
&\quad 2a_{653}+2a_{655}+a_{659}-a_{660}+a_{673}+a_{676}+\\
&\quad a_{681}-a_{690}-a_{701}+2a_{702}+a_{742}-2a_{762}-\\
&\quad a_{776}+a_{778}+a_{793}+a_{800}\\
a_{1592} &= \frac{a_{568}+\sqrt{a_{568}^2-4x}}{2}\\
x &= 2a_{123}+a_{73}-2a_{187}+a_{190}-a_{201}+a_{231}-\\
&\quad a_{318}+a_{325}+a_{331}+a_{334}+a_{337}-2a_{379}-\\
&\quad a_{393}+a_{405}+a_{435}-a_{581}-a_{587}-a_{590}-\\
&\quad a_{593}+a_{609}-a_{615}+a_{617}+2a_{636}+a_{649}+\\
&\quad 2a_{654}+2a_{656}+a_{660}-a_{661}+a_{674}+a_{677}+\\
&\quad a_{682}-a_{691}-a_{702}+2a_{703}+a_{743}-2a_{763}-\\
&\quad a_{777}+a_{779}+a_{794}+a_{801}\\
a_{1593} &= \frac{a_{569}+\sqrt{a_{569}^2-4x}}{2}\\
x &= 2a_{124}+a_{74}-2a_{188}+a_{191}-a_{202}+a_{232}-\\
&\quad a_{319}+a_{326}+a_{332}+a_{335}+a_{338}-2a_{380}-\\
&\quad a_{394}+a_{406}+a_{436}-a_{582}-a_{588}-a_{591}-\\
&\quad a_{594}+a_{610}-a_{616}+a_{618}+2a_{637}+a_{650}+\\
&\quad 2a_{655}+2a_{657}+a_{661}-a_{662}+a_{675}+a_{678}+\\
&\quad a_{683}-a_{692}-a_{703}+2a_{704}+a_{744}-2a_{764}-\\
&\quad a_{778}+a_{780}+a_{795}+a_{802}\\
a_{1594} &= \frac{a_{570}+\sqrt{a_{570}^2-4x}}{2}\\
x &= 2a_{125}+a_{75}-2a_{189}+a_{192}-a_{203}+a_{233}-\\
&\quad a_{320}+a_{327}+a_{333}+a_{336}+a_{339}-2a_{381}-\\
&\quad a_{395}+a_{407}+a_{437}-a_{583}-a_{589}-a_{592}-\\
&\quad a_{595}+a_{611}-a_{617}+a_{619}+2a_{638}+a_{651}+\\
&\quad 2a_{656}+2a_{658}+a_{662}-a_{663}+a_{676}+a_{679}+\\
&\quad a_{684}-a_{693}-a_{704}+2a_{705}+a_{745}-2a_{765}-\\
&\quad a_{779}+a_{781}+a_{796}+a_{803}
\end{aligned}
$$

$$
\begin{aligned}
a_{1595} &= \frac{a_{571} - \sqrt{a_{571}^2 - 4x}}{2} \\
x &= 2a_{63} + a_{77} - 2a_{191} + a_{194} - a_{205} + a_{235} - \\
&\quad a_{322} + a_{329} + a_{335} + a_{338} + a_{341} - 2a_{383} - \\
&\quad a_{397} + a_{409} + a_{439} - a_{585} - a_{591} - a_{594} - \\
&\quad a_{597} + a_{613} - a_{619} + a_{621} + 2a_{640} + a_{653} + \\
&\quad 2a_{658} + 2a_{660} + a_{664} - a_{665} + a_{678} + a_{681} + \\
&\quad a_{686} - a_{695} - a_{706} + 2a_{707} + a_{747} - 2a_{767} - \\
&\quad a_{781} + a_{783} + a_{798} + a_{805} \\
a_{1597} &= \frac{a_{573} + \sqrt{a_{573}^2 - 4x}}{2} \\
x &= 2a_{64} + a_{78} - 2a_{192} + a_{195} - a_{206} + a_{236} - \\
&\quad a_{323} + a_{330} + a_{336} + a_{339} + a_{342} - 2a_{384} - \\
&\quad a_{398} + a_{410} + a_{440} - a_{586} - a_{592} - a_{595} - \\
&\quad a_{598} + a_{614} - a_{620} + a_{622} + 2a_{641} + a_{654} + \\
&\quad 2a_{659} + 2a_{661} + a_{665} - a_{666} + a_{679} + a_{682} + \\
&\quad a_{687} - a_{696} - a_{707} + 2a_{708} + a_{748} - 2a_{768} - \\
&\quad a_{782} + a_{784} + a_{799} + a_{806}
\end{aligned}
$$

$$
\begin{aligned}
a_{1598} &= \frac{a_{574} + \sqrt{a_{574}^2 - 4x}}{2} \\
x &= 2a_{66} + a_{80} - 2a_{194} + a_{197} - a_{208} + a_{238} - \\
&\quad a_{325} + a_{332} + a_{338} + a_{341} + a_{344} - 2a_{386} - \\
&\quad a_{400} + a_{412} + a_{442} - a_{588} - a_{594} - a_{597} - \\
&\quad a_{600} + a_{616} - a_{622} + a_{624} + 2a_{643} + a_{656} + \\
&\quad 2a_{661} + 2a_{663} + a_{667} - a_{668} + a_{681} + a_{684} + \\
&\quad a_{689} - a_{698} - a_{709} + 2a_{710} + a_{750} - 2a_{770} - \\
&\quad a_{784} + a_{786} + a_{801} + a_{808} \\
a_{1600} &= \frac{a_{576} - \sqrt{a_{576}^2 - 4x}}{2} \\
x &= 2a_{68} + a_{82} - 2a_{196} + a_{199} - a_{210} + a_{240} - \\
&\quad a_{327} + a_{334} + a_{340} + a_{343} + a_{346} - 2a_{388} - \\
&\quad a_{402} + a_{414} + a_{444} - a_{590} - a_{596} - a_{599} - \\
&\quad a_{602} + a_{618} - a_{624} + a_{626} + 2a_{645} + a_{658} + \\
&\quad 2a_{663} + 2a_{665} + a_{669} - a_{670} + a_{683} + a_{686} + \\
&\quad a_{691} - a_{700} - a_{711} + 2a_{712} + a_{752} - 2a_{772} - \\
&\quad a_{786} + a_{788} + a_{803} + a_{810} \\
a_{1602} &= \frac{a_{578} - \sqrt{a_{578}^2 - 4x}}{2} \\
x &= 2a_{69} + a_{83} - 2a_{197} + a_{200} - a_{211} + a_{241} - \\
&\quad a_{328} + a_{335} + a_{341} + a_{344} + a_{347} - 2a_{389} - \\
&\quad a_{403} + a_{415} + a_{445} - a_{591} - a_{597} - a_{600} - \\
&\quad a_{603} + a_{619} - a_{625} + a_{627} + 2a_{646} + a_{659} + \\
&\quad 2a_{664} + 2a_{666} + a_{670} - a_{671} + a_{684} + a_{687} + \\
&\quad a_{692} - a_{701} - a_{712} + 2a_{713} + a_{753} - 2a_{773} - \\
&\quad a_{787} + a_{789} + a_{804} + a_{811} \\
a_{1603} &= \frac{a_{579} + \sqrt{a_{579}^2 - 4x}}{2} \\
x &= 2a_{70} + a_{84} - 2a_{198} + a_{201} - a_{212} + a_{242} - \\
&\quad a_{329} + a_{336} + a_{342} + a_{345} + a_{348} - 2a_{390} - \\
&\quad a_{404} + a_{416} + a_{446} - a_{592} - a_{598} - a_{601} - \\
&\quad a_{604} + a_{620} - a_{626} + a_{628} + 2a_{647} + a_{660} + \\
&\quad 2a_{665} + 2a_{667} + a_{671} - a_{672} + a_{685} + a_{688} + \\
&\quad a_{693} - a_{702} - a_{713} + 2a_{714} + a_{754} - 2a_{774} - \\
&\quad a_{788} + a_{790} + a_{805} + a_{812} \\
a_{1604} &= \frac{a_{580} - \sqrt{a_{580}^2 - 4x}}{2} \\
x &= 2a_{71} + a_{85} - 2a_{199} + a_{202} - a_{213} + a_{243} - \\
&\quad a_{330} + a_{337} + a_{343} + a_{346} + a_{349} - 2a_{391} - \\
&\quad a_{405} + a_{417} + a_{447} - a_{593} - a_{599} - a_{602} - \\
&\quad a_{605} + a_{621} - a_{627} + a_{629} + 2a_{648} + a_{661} + \\
&\quad 2a_{666} + 2a_{668} + a_{672} - a_{673} + a_{686} + a_{689} + \\
&\quad a_{694} - a_{703} - a_{714} + 2a_{715} + a_{755} - 2a_{775} - \\
&\quad a_{789} + a_{791} + a_{806} + a_{813} \\
a_{1605} &= \frac{a_{581} + \sqrt{a_{581}^2 - 4x}}{2} \\
x &= 2a_{72} + a_{86} - 2a_{200} + a_{203} - a_{214} + a_{244} - \\
&\quad a_{331} + a_{338} + a_{344} + a_{347} + a_{350} - 2a_{392} - \\
&\quad a_{406} + a_{418} + a_{448} - a_{594} - a_{600} - a_{603} - \\
&\quad a_{606} + a_{622} - a_{628} + a_{630} + 2a_{649} + a_{662} + \\
&\quad 2a_{667} + 2a_{669} + a_{673} - a_{674} + a_{687} + a_{690} + \\
&\quad a_{695} - a_{704} - a_{715} + 2a_{716} + a_{756} - 2a_{776} - \\
&\quad a_{790} + a_{792} + a_{807} + a_{814} \\
a_{1606} &= \frac{a_{582} + \sqrt{a_{582}^2 - 4x}}{2} \\
x &= 2a_{73} + a_{87} - 2a_{201} + a_{204} - a_{215} + a_{245} - \\
&\quad a_{332} + a_{339} + a_{345} + a_{348} + a_{351} - 2a_{393} - \\
&\quad a_{407} + a_{419} + a_{449} - a_{595} - a_{601} - a_{604} - \\
&\quad a_{607} + a_{623} - a_{629} + a_{631} + 2a_{650} + a_{663} + \\
&\quad 2a_{668} + 2a_{670} + a_{674} - a_{675} + a_{688} + a_{691} + \\
&\quad a_{696} - a_{705} - a_{716} + 2a_{717} + a_{757} - 2a_{777} - \\
&\quad a_{791} + a_{793} + a_{808} + a_{815} \\
a_{1607} &= \frac{a_{583} - \sqrt{a_{583}^2 - 4x}}{2} \\
x &= 2a_{75} + a_{89} - 2a_{203} + a_{206} - a_{217} + a_{247} - \\
&\quad a_{334} + a_{341} + a_{347} + a_{350} + a_{353} - 2a_{395} - \\
&\quad a_{409} + a_{421} + a_{451} - a_{597} - a_{603} - a_{606} - \\
&\quad a_{609} + a_{625} - a_{631} + a_{633} + 2a_{652} + a_{665} + \\
&\quad 2a_{670} + 2a_{672} + a_{676} - a_{677} + a_{690} + a_{693} + \\
&\quad a_{698} - a_{707} - a_{718} + 2a_{719} + a_{759} - 2a_{779} - \\
&\quad a_{793} + a_{795} + a_{810} + a_{817} \\
a_{1609} &= \frac{a_{585} + \sqrt{a_{585}^2 - 4x}}{2} \\
x &= 2a_{76} + a_{90} - 2a_{204} + a_{207} - a_{218} + a_{248} - \\
&\quad a_{335} + a_{342} + a_{348} + a_{351} + a_{354} - 2a_{396} - \\
&\quad a_{410} + a_{422} + a_{452} - a_{598} - a_{604} - a_{607} - \\
&\quad a_{610} + a_{626} - a_{632} + a_{634} + 2a_{653} + a_{666} + \\
&\quad 2a_{671} + 2a_{673} + a_{677} - a_{678} + a_{691} + a_{694} + \\
&\quad a_{699} - a_{708} - a_{719} + 2a_{720} + a_{760} - 2a_{780} - \\
&\quad a_{794} + a_{796} + a_{811} + a_{818}
\end{aligned}
$$

$$
\begin{aligned}
a_{1610} &= \frac{a_{586} - \sqrt{a_{586}^2 - 4x}}{2} \\
x &= 2a_{77} + a_{91} - 2a_{205} + a_{208} - a_{219} + a_{249} - \\
&\quad a_{336} + a_{343} + a_{349} + a_{352} + a_{355} - 2a_{397} - \\
&\quad a_{411} + a_{423} + a_{453} - a_{599} - a_{605} - a_{608} - \\
&\quad a_{611} + a_{627} - a_{633} + a_{635} + 2a_{654} + a_{667} + \\
&\quad 2a_{672} + 2a_{674} + a_{678} - a_{679} + a_{692} + a_{695} + \\
&\quad a_{700} - a_{709} - a_{720} + 2a_{721} + a_{761} - 2a_{781} - \\
&\quad a_{795} + a_{797} + a_{812} + a_{819}
\end{aligned}
$$

$$
\begin{aligned}
a_{1611} &= \frac{a_{587} - \sqrt{a_{587}^2 - 4x}}{2} \\
x &= 2a_{79} + a_{93} - 2a_{207} + a_{210} - a_{221} + a_{251} - \\
&\quad a_{338} + a_{345} + a_{351} + a_{354} + a_{357} - 2a_{399} - \\
&\quad a_{413} + a_{425} + a_{455} - a_{601} - a_{607} - a_{610} - \\
&\quad a_{613} + a_{629} - a_{635} + a_{637} + 2a_{656} + a_{669} + \\
&\quad 2a_{674} + 2a_{676} + a_{680} - a_{681} + a_{694} + a_{697} + \\
&\quad a_{702} - a_{711} - a_{722} + 2a_{723} + a_{763} - 2a_{783} - \\
&\quad a_{797} + a_{799} + a_{814} + a_{821}
\end{aligned}
$$

$$
\begin{aligned}
a_{1613} &= \frac{a_{589} - \sqrt{a_{589}^2 - 4x}}{2} \\
x &= 2a_{81} + a_{95} - 2a_{209} + a_{212} - a_{223} + a_{253} - \\
&\quad a_{340} + a_{347} + a_{353} + a_{356} + a_{359} - 2a_{401} - \\
&\quad a_{415} + a_{427} + a_{457} - a_{603} - a_{609} - a_{612} - \\
&\quad a_{615} + a_{631} - a_{637} + a_{639} + 2a_{658} + a_{671} + \\
&\quad 2a_{676} + 2a_{678} + a_{682} - a_{683} + a_{696} + a_{699} + \\
&\quad a_{704} - a_{713} - a_{724} + 2a_{725} + a_{765} - 2a_{785} - \\
&\quad a_{799} + a_{801} + a_{816} + a_{823}
\end{aligned}
$$

$$
\begin{aligned}
a_{1615} &= \frac{a_{591} + \sqrt{a_{591}^2 - 4x}}{2} \\
x &= 2a_{83} + a_{97} - 2a_{211} + a_{214} - a_{225} + a_{127} - \\
&\quad a_{342} + a_{349} + a_{355} + a_{358} + a_{361} - 2a_{403} - \\
&\quad a_{417} + a_{429} + a_{459} - a_{605} - a_{611} - a_{614} - \\
&\quad a_{617} + a_{633} - a_{639} + a_{641} + 2a_{660} + a_{673} + \\
&\quad 2a_{678} + 2a_{680} + a_{684} - a_{685} + a_{698} + a_{701} + \\
&\quad a_{706} - a_{715} - a_{726} + 2a_{727} + a_{767} - 2a_{787} - \\
&\quad a_{801} + a_{803} + a_{818} + a_{825}
\end{aligned}
$$

$$
\begin{aligned}
a_{1617} &= \frac{a_{593} - \sqrt{a_{593}^2 - 4x}}{2} \\
x &= 2a_{84} + a_{98} - 2a_{212} + a_{215} - a_{226} + a_{128} - \\
&\quad a_{343} + a_{350} + a_{356} + a_{359} + a_{362} - 2a_{404} - \\
&\quad a_{418} + a_{430} + a_{460} - a_{606} - a_{612} - a_{615} - \\
&\quad a_{618} + a_{634} - a_{640} + a_{642} + 2a_{661} + a_{674} + \\
&\quad 2a_{679} + 2a_{681} + a_{685} - a_{686} + a_{699} + a_{702} + \\
&\quad a_{707} - a_{716} - a_{727} + 2a_{728} + a_{768} - 2a_{788} - \\
&\quad a_{802} + a_{804} + a_{819} + a_{826}
\end{aligned}
$$

$$
\begin{aligned}
a_{1618} &= \frac{a_{594} + \sqrt{a_{594}^2 - 4x}}{2} \\
x &= 2a_{85} + a_{99} - 2a_{213} + a_{216} - a_{227} + a_{129} - \\
&\quad a_{344} + a_{351} + a_{357} + a_{360} + a_{363} - 2a_{405} - \\
&\quad a_{419} + a_{431} + a_{461} - a_{607} - a_{613} - a_{616} - \\
&\quad a_{619} + a_{635} - a_{641} + a_{643} + 2a_{662} + a_{675} + \\
&\quad 2a_{680} + 2a_{682} + a_{686} - a_{687} + a_{700} + a_{703} + \\
&\quad a_{708} - a_{717} - a_{728} + 2a_{729} + a_{769} - 2a_{789} - \\
&\quad a_{803} + a_{805} + a_{820} + a_{827}
\end{aligned}
$$

$$
\begin{aligned}
a_{1619} &= \frac{a_{595} + \sqrt{a_{595}^2 - 4x}}{2} \\
x &= 2a_{86} + a_{100} - 2a_{214} + a_{217} - a_{228} + a_{130} - \\
&\quad a_{345} + a_{352} + a_{358} + a_{361} + a_{364} - 2a_{406} - \\
&\quad a_{420} + a_{432} + a_{462} - a_{608} - a_{614} - a_{617} - \\
&\quad a_{620} + a_{636} - a_{642} + a_{644} + 2a_{663} + a_{676} + \\
&\quad 2a_{681} + 2a_{683} + a_{687} - a_{688} + a_{701} + a_{704} + \\
&\quad a_{709} - a_{718} - a_{729} + 2a_{730} + a_{770} - 2a_{790} - \\
&\quad a_{804} + a_{806} + a_{821} + a_{828}
\end{aligned}
$$

$$
\begin{aligned}
a_{1620} &= \frac{a_{596} + \sqrt{a_{596}^2 - 4x}}{2} \\
x &= 2a_{87} + a_{101} - 2a_{215} + a_{218} - a_{229} + a_{131} - \\
&\quad a_{346} + a_{353} + a_{359} + a_{362} + a_{365} - 2a_{407} - \\
&\quad a_{421} + a_{433} + a_{463} - a_{609} - a_{615} - a_{618} - \\
&\quad a_{621} + a_{637} - a_{643} + a_{645} + 2a_{664} + a_{677} + \\
&\quad 2a_{682} + 2a_{684} + a_{688} - a_{689} + a_{702} + a_{705} + \\
&\quad a_{710} - a_{719} - a_{730} + 2a_{731} + a_{771} - 2a_{791} - \\
&\quad a_{805} + a_{807} + a_{822} + a_{829}
\end{aligned}
$$

$$
\begin{aligned}
a_{1621} &= \frac{a_{597} + \sqrt{a_{597}^2 - 4x}}{2} \\
x &= 2a_{88} + a_{102} - 2a_{216} + a_{219} - a_{230} + a_{132} - \\
&\quad a_{347} + a_{354} + a_{360} + a_{363} + a_{366} - 2a_{408} - \\
&\quad a_{422} + a_{434} + a_{464} - a_{610} - a_{616} - a_{619} - \\
&\quad a_{622} + a_{638} - a_{644} + a_{646} + 2a_{665} + a_{678} + \\
&\quad 2a_{683} + 2a_{685} + a_{689} - a_{690} + a_{703} + a_{706} + \\
&\quad a_{711} - a_{720} - a_{731} + 2a_{732} + a_{772} - 2a_{792} - \\
&\quad a_{806} + a_{808} + a_{823} + a_{830}
\end{aligned}
$$

$$
\begin{aligned}
a_{1622} &= \frac{a_{598} + \sqrt{a_{598}^2 - 4x}}{2} \\
x &= 2a_{89} + a_{103} - 2a_{217} + a_{220} - a_{231} + a_{133} - \\
&\quad a_{348} + a_{355} + a_{361} + a_{364} + a_{367} - 2a_{409} - \\
&\quad a_{423} + a_{435} + a_{465} - a_{611} - a_{617} - a_{620} - \\
&\quad a_{623} + a_{639} - a_{645} + a_{647} + 2a_{666} + a_{679} + \\
&\quad 2a_{684} + 2a_{686} + a_{690} - a_{691} + a_{704} + a_{707} + \\
&\quad a_{712} - a_{721} - a_{732} + 2a_{733} + a_{773} - 2a_{793} - \\
&\quad a_{807} + a_{809} + a_{824} + a_{831}
\end{aligned}
$$

$$
\begin{aligned}
a_{1623} &= \frac{a_{599} + \sqrt{a_{599}^2 - 4x}}{2} \\
x &= 2a_{90} + a_{104} - 2a_{218} + a_{221} - a_{232} + a_{134} - \\
&\quad a_{349} + a_{356} + a_{362} + a_{365} + a_{368} - 2a_{410} - \\
&\quad a_{424} + a_{436} + a_{466} - a_{612} - a_{618} - a_{621} - \\
&\quad a_{624} + a_{640} - a_{646} + a_{648} + 2a_{667} + a_{680} + \\
&\quad 2a_{685} + 2a_{687} + a_{691} - a_{692} + a_{705} + a_{708} + \\
&\quad a_{713} - a_{722} - a_{733} + 2a_{734} + a_{774} - 2a_{794} - \\
&\quad a_{808} + a_{810} + a_{825} + a_{832}
\end{aligned}
$$

$$
\begin{aligned}
a_{1624} &= \frac{a_{600}+\sqrt{a_{600}^2-4x}}{2}\\
x &= 2a_{91}+a_{105}-2a_{219}+a_{222}-a_{233}+a_{135}-\\
&\quad a_{350}+a_{357}+a_{363}+a_{366}+a_{369}-2a_{411}-\\
&\quad a_{425}+a_{437}+a_{467}-a_{613}-a_{619}-a_{622}-\\
&\quad a_{625}+a_{641}-a_{647}+a_{649}+2a_{668}+a_{681}+\\
&\quad 2a_{686}+2a_{688}+a_{692}-a_{693}+a_{706}+a_{709}+\\
&\quad a_{714}-a_{723}-a_{734}+2a_{735}+a_{775}-2a_{795}-\\
&\quad a_{809}+a_{811}+a_{826}+a_{833}\\
a_{1625} &= \frac{a_{601}-\sqrt{a_{601}^2-4x}}{2}\\
x &= 2a_{94}+a_{108}-2a_{222}+a_{225}-a_{236}+a_{138}-\\
&\quad a_{353}+a_{360}+a_{366}+a_{369}+a_{372}-2a_{414}-\\
&\quad a_{428}+a_{440}+a_{470}-a_{616}-a_{622}-a_{625}-\\
&\quad a_{628}+a_{644}-a_{650}+a_{652}+2a_{671}+a_{684}+\\
&\quad 2a_{689}+2a_{691}+a_{695}-a_{696}+a_{709}+a_{712}+\\
&\quad a_{717}-a_{726}-a_{737}+2a_{738}+a_{778}-2a_{798}-\\
&\quad a_{812}+a_{814}+a_{829}+a_{836}\\
a_{1628} &= \frac{a_{604}-\sqrt{a_{604}^2-4x}}{2}\\
x &= 2a_{95}+a_{109}-2a_{223}+a_{226}-a_{237}+a_{139}-\\
&\quad a_{354}+a_{361}+a_{367}+a_{370}+a_{373}-2a_{415}-\\
&\quad a_{429}+a_{441}+a_{471}-a_{617}-a_{623}-a_{626}-\\
&\quad a_{629}+a_{645}-a_{651}+a_{653}+2a_{672}+a_{685}+\\
&\quad 2a_{690}+2a_{692}+a_{696}-a_{697}+a_{710}+a_{713}+\\
&\quad a_{718}-a_{727}-a_{738}+2a_{739}+a_{779}-2a_{799}-\\
&\quad a_{813}+a_{815}+a_{830}+a_{837}\\
a_{1629} &= \frac{a_{605}-\sqrt{a_{605}^2-4x}}{2}\\
x &= 2a_{98}+a_{112}-2a_{226}+a_{229}-a_{240}+a_{142}-\\
&\quad a_{357}+a_{364}+a_{370}+a_{373}+a_{376}-2a_{418}-\\
&\quad a_{432}+a_{444}+a_{474}-a_{620}-a_{626}-a_{629}-\\
&\quad a_{632}+a_{648}-a_{654}+a_{656}+2a_{675}+a_{688}+\\
&\quad 2a_{693}+2a_{695}+a_{699}-a_{700}+a_{713}+a_{716}+\\
&\quad a_{721}-a_{730}-a_{741}+2a_{742}+a_{782}-2a_{802}-\\
&\quad a_{816}+a_{818}+a_{833}+a_{840}\\
a_{1632} &= \frac{a_{608}-\sqrt{a_{608}^2-4x}}{2}\\
x &= 2a_{99}+a_{113}-2a_{227}+a_{230}-a_{241}+a_{143}-\\
&\quad a_{358}+a_{365}+a_{371}+a_{374}+a_{377}-2a_{419}-\\
&\quad a_{433}+a_{445}+a_{475}-a_{621}-a_{627}-a_{630}-\\
&\quad a_{633}+a_{649}-a_{655}+a_{657}+2a_{676}+a_{689}+\\
&\quad 2a_{694}+2a_{696}+a_{700}-a_{701}+a_{714}+a_{717}+\\
&\quad a_{722}-a_{731}-a_{742}+2a_{743}+a_{783}-2a_{803}-\\
&\quad a_{817}+a_{819}+a_{834}+a_{841}\\
a_{1633} &= \frac{a_{609}+\sqrt{a_{609}^2-4x}}{2}\\
x &= 2a_{100}+a_{114}-2a_{228}+a_{231}-a_{242}+a_{144}-\\
&\quad a_{359}+a_{366}+a_{372}+a_{375}+a_{378}-2a_{420}-\\
&\quad a_{434}+a_{446}+a_{476}-a_{622}-a_{628}-a_{631}-\\
&\quad a_{634}+a_{650}-a_{656}+a_{658}+2a_{677}+a_{690}+\\
&\quad 2a_{695}+2a_{697}+a_{701}-a_{702}+a_{715}+a_{718}+\\
&\quad a_{723}-a_{732}-a_{743}+2a_{744}+a_{784}-2a_{804}-\\
&\quad a_{818}+a_{820}+a_{835}+a_{842}\\
a_{1634} &= \frac{a_{610}+\sqrt{a_{610}^2-4x}}{2}\\
x &= 2a_{103}+a_{117}-2a_{231}+a_{234}-a_{245}+a_{147}-\\
&\quad a_{362}+a_{369}+a_{375}+a_{378}+a_{381}-2a_{423}-\\
&\quad a_{437}+a_{449}+a_{479}-a_{625}-a_{631}-a_{634}-\\
&\quad a_{637}+a_{653}-a_{659}+a_{661}+2a_{680}+a_{693}+\\
&\quad 2a_{698}+2a_{700}+a_{704}-a_{705}+a_{718}+a_{721}+\\
&\quad a_{726}-a_{735}-a_{746}+2a_{747}+a_{787}-2a_{807}-\\
&\quad a_{821}+a_{823}+a_{838}+a_{845}\\
a_{1637} &= \frac{a_{613}+\sqrt{a_{613}^2-4x}}{2}\\
x &= 2a_{104}+a_{118}-2a_{232}+a_{235}-a_{246}+a_{148}-\\
&\quad a_{363}+a_{370}+a_{376}+a_{379}+a_{382}-2a_{424}-\\
&\quad a_{438}+a_{450}+a_{480}-a_{626}-a_{632}-a_{635}-\\
&\quad a_{638}+a_{654}-a_{660}+a_{662}+2a_{681}+a_{694}+\\
&\quad 2a_{699}+2a_{701}+a_{705}-a_{706}+a_{719}+a_{722}+\\
&\quad a_{727}-a_{736}-a_{747}+2a_{748}+a_{788}-2a_{808}-\\
&\quad a_{822}+a_{824}+a_{839}+a_{846}\\
a_{1638} &= \frac{a_{614}-\sqrt{a_{614}^2-4x}}{2}\\
x &= 2a_{105}+a_{119}-2a_{233}+a_{236}-a_{247}+a_{149}-\\
&\quad a_{364}+a_{371}+a_{377}+a_{380}+a_{383}-2a_{425}-\\
&\quad a_{439}+a_{451}+a_{481}-a_{627}-a_{633}-a_{636}-\\
&\quad a_{639}+a_{655}-a_{661}+a_{663}+2a_{682}+a_{695}+\\
&\quad 2a_{700}+2a_{702}+a_{706}-a_{707}+a_{720}+a_{723}+\\
&\quad a_{728}-a_{737}-a_{748}+2a_{749}+a_{789}-2a_{809}-\\
&\quad a_{823}+a_{825}+a_{840}+a_{847}\\
a_{1639} &= \frac{a_{615}+\sqrt{a_{615}^2-4x}}{2}\\
x &= 2a_{113}+a_{63}-2a_{241}+a_{244}-a_{127}+a_{157}-\\
&\quad a_{372}+a_{379}+a_{385}+a_{388}+a_{391}-2a_{433}-\\
&\quad a_{447}+a_{459}+a_{489}-a_{635}-a_{641}-a_{644}-\\
&\quad a_{647}+a_{663}-a_{669}+a_{671}+2a_{690}+a_{703}+\\
&\quad 2a_{708}+2a_{710}+a_{714}-a_{715}+a_{728}+a_{731}+\\
&\quad a_{736}-a_{745}-a_{756}+2a_{757}+a_{797}-2a_{817}-\\
&\quad a_{831}+a_{833}+a_{848}+a_{855}\\
\\
a_{1647} &= \frac{a_{623}-\sqrt{a_{623}^2-4x}}{2}\\
x &= 2a_{117}+a_{67}-2a_{245}+a_{248}-a_{131}+a_{161}-\\
&\quad a_{376}+a_{383}+a_{389}+a_{392}+a_{395}-2a_{437}-\\
&\quad a_{451}+a_{463}+a_{493}-a_{639}-a_{645}-a_{648}-\\
&\quad a_{651}+a_{667}-a_{673}+a_{675}+2a_{694}+a_{707}+\\
&\quad 2a_{712}+2a_{714}+a_{718}-a_{719}+a_{732}+a_{735}+\\
&\quad a_{740}-a_{749}-a_{760}+2a_{761}+a_{801}-2a_{821}-
\end{aligned}
$$

$$
\begin{aligned}
& a_{835} + a_{837} + a_{852} + a_{859} \\
a_{1651} &= \frac{a_{627} + \sqrt{a_{627}^2 - 4x}}{2} \\
x &= 2a_{118} + a_{68} - 2a_{246} + a_{249} - a_{132} + a_{162} - \\
& a_{377} + a_{384} + a_{390} + a_{393} + a_{396} - 2a_{438} - \\
& a_{452} + a_{464} + a_{494} - a_{640} - a_{646} - a_{649} - \\
& a_{652} + a_{668} - a_{674} + a_{676} + 2a_{695} + a_{708} + \\
& 2a_{713} + 2a_{715} + a_{719} - a_{720} + a_{733} + a_{736} + \\
& a_{741} - a_{750} - a_{761} + 2a_{762} + a_{802} - 2a_{822} - \\
& a_{836} + a_{838} + a_{853} + a_{860} \\
a_{1652} &= \frac{a_{628} + \sqrt{a_{628}^2 - 4x}}{2} \\
x &= 2a_{120} + a_{70} - 2a_{248} + a_{251} - a_{134} + a_{164} - \\
& a_{379} + a_{386} + a_{392} + a_{395} + a_{398} - 2a_{440} - \\
& a_{454} + a_{466} + a_{496} - a_{642} - a_{648} - a_{651} - \\
& a_{654} + a_{670} - a_{676} + a_{678} + 2a_{697} + a_{710} + \\
& 2a_{715} + 2a_{717} + a_{721} - a_{722} + a_{735} + a_{738} + \\
& a_{743} - a_{752} - a_{763} + 2a_{764} + a_{804} - 2a_{824} - \\
& a_{838} + a_{840} + a_{855} + a_{862} \\
a_{1654} &= \frac{a_{630} - \sqrt{a_{630}^2 - 4x}}{2} \\
x &= 2a_{122} + a_{72} - 2a_{250} + a_{253} - a_{136} + a_{166} - \\
& a_{381} + a_{388} + a_{394} + a_{397} + a_{400} - 2a_{442} - \\
& a_{456} + a_{468} + a_{498} - a_{644} - a_{650} - a_{653} - \\
& a_{656} + a_{672} - a_{678} + a_{680} + 2a_{699} + a_{712} + \\
& 2a_{717} + 2a_{719} + a_{723} - a_{724} + a_{737} + a_{740} + \\
& a_{745} - a_{754} - a_{765} + 2a_{766} + a_{806} - 2a_{826} - \\
& a_{840} + a_{842} + a_{857} + a_{864} \\
a_{1656} &= \frac{a_{632} - \sqrt{a_{632}^2 - 4x}}{2} \\
x &= 2a_{123} + a_{73} - 2a_{251} + a_{254} - a_{137} + a_{167} - \\
& a_{382} + a_{389} + a_{395} + a_{398} + a_{401} - 2a_{443} - \\
& a_{457} + a_{469} + a_{499} - a_{645} - a_{651} - a_{654} - \\
& a_{657} + a_{673} - a_{679} + a_{681} + 2a_{700} + a_{713} + \\
& 2a_{718} + 2a_{720} + a_{724} - a_{725} + a_{738} + a_{741} + \\
& a_{746} - a_{755} - a_{766} + 2a_{767} + a_{807} - 2a_{827} - \\
& a_{841} + a_{843} + a_{858} + a_{865} \\
a_{1657} &= \frac{a_{633} + \sqrt{a_{633}^2 - 4x}}{2} \\
x &= 2a_{63} + a_{77} - 2a_{127} + a_{130} - a_{141} + a_{171} - \\
& a_{386} + a_{393} + a_{399} + a_{402} + a_{405} - 2a_{447} - \\
& a_{461} + a_{473} + a_{503} - a_{649} - a_{655} - a_{658} - \\
& a_{661} + a_{677} - a_{683} + a_{685} + 2a_{704} + a_{717} + \\
& 2a_{722} + 2a_{724} + a_{728} - a_{729} + a_{742} + a_{745} + \\
& a_{750} - a_{759} - a_{770} + 2a_{771} + a_{811} - 2a_{831} - \\
& a_{845} + a_{847} + a_{862} + a_{869} \\
a_{1661} &= \frac{a_{637} + \sqrt{a_{637}^2 - 4x}}{2} \\
x &= 2a_{64} + a_{78} - 2a_{128} + a_{131} - a_{142} + a_{172} - \\
& a_{387} + a_{394} + a_{400} + a_{403} + a_{406} - 2a_{448} - \\
& a_{462} + a_{474} + a_{504} - a_{650} - a_{656} - a_{659} - \\
& a_{662} + a_{678} - a_{684} + a_{686} + 2a_{705} + a_{718} + \\
& 2a_{723} + 2a_{725} + a_{729} - a_{730} + a_{743} + a_{746} + \\
& a_{751} - a_{760} - a_{771} + 2a_{772} + a_{812} - 2a_{832} - \\
& a_{846} + a_{848} + a_{863} + a_{870} \\
a_{1662} &= \frac{a_{638} + \sqrt{a_{638}^2 - 4x}}{2} \\
x &= 2a_{65} + a_{79} - 2a_{129} + a_{132} - a_{143} + a_{173} - \\
& a_{388} + a_{395} + a_{401} + a_{404} + a_{407} - 2a_{449} - \\
& a_{463} + a_{475} + a_{505} - a_{651} - a_{657} - a_{660} - \\
& a_{663} + a_{679} - a_{685} + a_{687} + 2a_{706} + a_{719} + \\
& 2a_{724} + 2a_{726} + a_{730} - a_{731} + a_{744} + a_{747} + \\
& a_{752} - a_{761} - a_{772} + 2a_{773} + a_{813} - 2a_{833} - \\
& a_{847} + a_{849} + a_{864} + a_{871} \\
a_{1663} &= \frac{a_{639} + \sqrt{a_{639}^2 - 4x}}{2} \\
x &= 2a_{66} + a_{80} - 2a_{130} + a_{133} - a_{144} + a_{174} - \\
& a_{389} + a_{396} + a_{402} + a_{405} + a_{408} - 2a_{450} - \\
& a_{464} + a_{476} + a_{506} - a_{652} - a_{658} - a_{661} - \\
& a_{664} + a_{680} - a_{686} + a_{688} + 2a_{707} + a_{720} + \\
& 2a_{725} + 2a_{727} + a_{731} - a_{732} + a_{745} + a_{748} + \\
& a_{753} - a_{762} - a_{773} + 2a_{774} + a_{814} - 2a_{834} - \\
& a_{848} + a_{850} + a_{865} + a_{872} \\
a_{1664} &= \frac{a_{640} + \sqrt{a_{640}^2 - 4x}}{2} \\
x &= 2a_{67} + a_{81} - 2a_{131} + a_{134} - a_{145} + a_{175} - \\
& a_{390} + a_{397} + a_{403} + a_{406} + a_{409} - 2a_{451} - \\
& a_{465} + a_{477} + a_{507} - a_{653} - a_{659} - a_{662} - \\
& a_{665} + a_{681} - a_{687} + a_{689} + 2a_{708} + a_{721} + \\
& 2a_{726} + 2a_{728} + a_{732} - a_{733} + a_{746} + a_{749} + \\
& a_{754} - a_{763} - a_{774} + 2a_{775} + a_{815} - 2a_{835} - \\
& a_{849} + a_{851} + a_{866} + a_{873} \\
a_{1665} &= \frac{a_{641} - \sqrt{a_{641}^2 - 4x}}{2} \\
x &= 2a_{68} + a_{82} - 2a_{132} + a_{135} - a_{146} + a_{176} - \\
& a_{391} + a_{398} + a_{404} + a_{407} + a_{410} - 2a_{452} - \\
& a_{466} + a_{478} + a_{508} - a_{654} - a_{660} - a_{663} - \\
& a_{666} + a_{682} - a_{688} + a_{690} + 2a_{709} + a_{722} + \\
& 2a_{727} + 2a_{729} + a_{733} - a_{734} + a_{747} + a_{750} + \\
& a_{755} - a_{764} - a_{775} + 2a_{776} + a_{816} - 2a_{836} - \\
& a_{850} + a_{852} + a_{867} + a_{874} \\
a_{1666} &= \frac{a_{642} - \sqrt{a_{642}^2 - 4x}}{2} \\
x &= 2a_{69} + a_{83} - 2a_{133} + a_{136} - a_{147} + a_{177} - \\
& a_{392} + a_{399} + a_{405} + a_{408} + a_{411} - 2a_{453} - \\
& a_{467} + a_{479} + a_{509} - a_{655} - a_{661} - a_{664} - \\
& a_{667} + a_{683} - a_{689} + a_{691} + 2a_{710} + a_{723} + \\
& 2a_{728} + 2a_{730} + a_{734} - a_{735} + a_{748} + a_{751} + \\
& a_{756} - a_{765} - a_{776} + 2a_{777} + a_{817} - 2a_{837} -
\end{aligned}
$$

$$
\begin{aligned}
& a_{851} + a_{853} + a_{868} + a_{875} \\
a_{1667} &= \frac{a_{643} + \sqrt{a_{643}^2 - 4x}}{2} \\
x &= 2a_{71} + a_{85} - 2a_{135} + a_{138} - a_{149} + a_{179} - \\
& a_{394} + a_{401} + a_{407} + a_{410} + a_{413} - 2a_{455} - \\
& a_{469} + a_{481} + a_{255} - a_{657} - a_{663} - a_{666} - \\
& a_{669} + a_{685} - a_{691} + a_{693} + 2a_{712} + a_{725} + \\
& 2a_{730} + 2a_{732} + a_{736} - a_{737} + a_{750} + a_{753} + \\
& a_{758} - a_{767} - a_{778} + 2a_{779} + a_{819} - 2a_{839} - \\
& a_{853} + a_{855} + a_{870} + a_{877} \\
a_{1669} &= \frac{a_{645} - \sqrt{a_{645}^2 - 4x}}{2} \\
x &= 2a_{76} + a_{90} - 2a_{140} + a_{143} - a_{154} + a_{184} - \\
& a_{399} + a_{406} + a_{412} + a_{415} + a_{418} - 2a_{460} - \\
& a_{474} + a_{486} + a_{260} - a_{662} - a_{668} - a_{671} - \\
& a_{674} + a_{690} - a_{696} + a_{698} + 2a_{717} + a_{730} + \\
& 2a_{735} + 2a_{737} + a_{741} - a_{742} + a_{755} + a_{758} + \\
& a_{763} - a_{772} - a_{783} + 2a_{784} + a_{824} - 2a_{844} - \\
& a_{858} + a_{860} + a_{875} + a_{882} \\
a_{1674} &= \frac{a_{650} - \sqrt{a_{650}^2 - 4x}}{2} \\
x &= 2a_{78} + a_{92} - 2a_{142} + a_{145} - a_{156} + a_{186} - \\
& a_{401} + a_{408} + a_{414} + a_{417} + a_{420} - 2a_{462} - \\
& a_{476} + a_{488} + a_{262} - a_{664} - a_{670} - a_{673} - \\
& a_{676} + a_{692} - a_{698} + a_{700} + 2a_{719} + a_{732} + \\
& 2a_{737} + 2a_{739} + a_{743} - a_{744} + a_{757} + a_{760} + \\
& a_{765} - a_{774} - a_{785} + 2a_{786} + a_{826} - 2a_{846} - \\
& a_{860} + a_{862} + a_{877} + a_{884} \\
a_{1676} &= \frac{a_{652} - \sqrt{a_{652}^2 - 4x}}{2} \\
x &= 2a_{82} + a_{96} - 2a_{146} + a_{149} - a_{160} + a_{190} - \\
& a_{405} + a_{412} + a_{418} + a_{421} + a_{424} - 2a_{466} - \\
& a_{480} + a_{492} + a_{266} - a_{668} - a_{674} - a_{677} - \\
& a_{680} + a_{696} - a_{702} + a_{704} + 2a_{723} + a_{736} + \\
& 2a_{741} + 2a_{743} + a_{747} - a_{748} + a_{761} + a_{764} + \\
& a_{769} - a_{778} - a_{789} + 2a_{790} + a_{830} - 2a_{850} - \\
& a_{864} + a_{866} + a_{881} + a_{888} \\
a_{1680} &= \frac{a_{656} + \sqrt{a_{656}^2 - 4x}}{2} \\
x &= 2a_{84} + a_{98} - 2a_{148} + a_{151} - a_{162} + a_{192} - \\
& a_{407} + a_{414} + a_{420} + a_{423} + a_{426} - 2a_{468} - \\
& a_{482} + a_{494} + a_{268} - a_{670} - a_{676} - a_{679} - \\
& a_{682} + a_{698} - a_{704} + a_{706} + 2a_{725} + a_{738} + \\
& 2a_{743} + 2a_{745} + a_{749} - a_{750} + a_{763} + a_{766} + \\
& a_{771} - a_{780} - a_{791} + 2a_{792} + a_{832} - 2a_{852} - \\
& a_{866} + a_{868} + a_{883} + a_{890} \\
a_{1682} &= \frac{a_{658} - \sqrt{a_{658}^2 - 4x}}{2} \\
x &= 2a_{85} + a_{99} - 2a_{149} + a_{152} - a_{163} + a_{193} - \\
& a_{408} + a_{415} + a_{421} + a_{424} + a_{427} - 2a_{469} - \\
& a_{483} + a_{495} + a_{269} - a_{671} - a_{677} - a_{680} - \\
& a_{683} + a_{699} - a_{705} + a_{707} + 2a_{726} + a_{739} + \\
& 2a_{744} + 2a_{746} + a_{750} - a_{751} + a_{764} + a_{767} + \\
& a_{772} - a_{781} - a_{792} + 2a_{793} + a_{833} - 2a_{853} - \\
& a_{867} + a_{869} + a_{884} + a_{891} \\
a_{1683} &= \frac{a_{659} - \sqrt{a_{659}^2 - 4x}}{2} \\
x &= 2a_{86} + a_{100} - 2a_{150} + a_{153} - a_{164} + a_{194} - \\
& a_{409} + a_{416} + a_{422} + a_{425} + a_{428} - 2a_{470} - \\
& a_{484} + a_{496} + a_{270} - a_{672} - a_{678} - a_{681} - \\
& a_{684} + a_{700} - a_{706} + a_{708} + 2a_{727} + a_{740} + \\
& 2a_{745} + 2a_{747} + a_{751} - a_{752} + a_{765} + a_{768} + \\
& a_{773} - a_{782} - a_{793} + 2a_{794} + a_{834} - 2a_{854} - \\
& a_{868} + a_{870} + a_{885} + a_{892} \\
a_{1684} &= \frac{a_{660} - \sqrt{a_{660}^2 - 4x}}{2} \\
x &= 2a_{87} + a_{101} - 2a_{151} + a_{154} - a_{165} + a_{195} - \\
& a_{410} + a_{417} + a_{423} + a_{426} + a_{429} - 2a_{471} - \\
& a_{485} + a_{497} + a_{271} - a_{673} - a_{679} - a_{682} - \\
& a_{685} + a_{701} - a_{707} + a_{709} + 2a_{728} + a_{741} + \\
& 2a_{746} + 2a_{748} + a_{752} - a_{753} + a_{766} + a_{769} + \\
& a_{774} - a_{783} - a_{794} + 2a_{795} + a_{835} - 2a_{855} - \\
& a_{869} + a_{871} + a_{886} + a_{893} \\
a_{1685} &= \frac{a_{661} - \sqrt{a_{661}^2 - 4x}}{2} \\
x &= 2a_{88} + a_{102} - 2a_{152} + a_{155} - a_{166} + a_{196} - \\
& a_{411} + a_{418} + a_{424} + a_{427} + a_{430} - 2a_{472} - \\
& a_{486} + a_{498} + a_{272} - a_{674} - a_{680} - a_{683} - \\
& a_{686} + a_{702} - a_{708} + a_{710} + 2a_{729} + a_{742} + \\
& 2a_{747} + 2a_{749} + a_{753} - a_{754} + a_{767} + a_{770} + \\
& a_{775} - a_{784} - a_{795} + 2a_{796} + a_{836} - 2a_{856} - \\
& a_{870} + a_{872} + a_{887} + a_{894} \\
a_{1686} &= \frac{a_{662} - \sqrt{a_{662}^2 - 4x}}{2} \\
x &= 2a_{89} + a_{103} - 2a_{153} + a_{156} - a_{167} + a_{197} - \\
& a_{412} + a_{419} + a_{425} + a_{428} + a_{431} - 2a_{473} - \\
& a_{487} + a_{499} + a_{273} - a_{675} - a_{681} - a_{684} - \\
& a_{687} + a_{703} - a_{709} + a_{711} + 2a_{730} + a_{743} + \\
& 2a_{748} + 2a_{750} + a_{754} - a_{755} + a_{768} + a_{771} + \\
& a_{776} - a_{785} - a_{796} + 2a_{797} + a_{837} - 2a_{857} - \\
& a_{871} + a_{873} + a_{888} + a_{895} \\
a_{1687} &= \frac{a_{663} + \sqrt{a_{663}^2 - 4x}}{2} \\
x &= 2a_{94} + a_{108} - 2a_{158} + a_{161} - a_{172} + a_{202} - \\
& a_{417} + a_{424} + a_{430} + a_{433} + a_{436} - 2a_{478} - \\
& a_{492} + a_{504} + a_{278} - a_{680} - a_{686} - a_{689} - \\
& a_{692} + a_{708} - a_{714} + a_{716} + 2a_{735} + a_{748} + \\
& 2a_{753} + 2a_{755} + a_{759} - a_{760} + a_{773} + a_{776} + \\
& a_{781} - a_{790} - a_{801} + 2a_{802} + a_{842} - 2a_{862} -
\end{aligned}
$$

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\begin{aligned}
& a_{876} + a_{878} + a_{893} + a_{900} \\
a_{1692} &= \frac{a_{668} + \sqrt{a_{668}^2 - 4x}}{2} \\
x &= 2a_{96} + a_{110} - 2a_{160} + a_{163} - a_{174} + a_{204} - \\
& a_{419} + a_{426} + a_{432} + a_{435} + a_{438} - 2a_{480} - \\
& a_{494} + a_{506} + a_{280} - a_{682} - a_{688} - a_{691} - \\
& a_{694} + a_{710} - a_{716} + a_{718} + 2a_{737} + a_{750} + \\
& 2a_{755} + 2a_{757} + a_{761} - a_{762} + a_{775} + a_{778} + \\
& a_{783} - a_{792} - a_{803} + 2a_{804} + a_{844} - 2a_{864} - \\
& a_{878} + a_{880} + a_{895} + a_{902} \\
a_{1694} &= \frac{a_{670} + \sqrt{a_{670}^2 - 4x}}{2} \\
x &= 2a_{97} + a_{111} - 2a_{161} + a_{164} - a_{175} + a_{205} - \\
& a_{420} + a_{427} + a_{433} + a_{436} + a_{439} - 2a_{481} - \\
& a_{495} + a_{507} + a_{281} - a_{683} - a_{689} - a_{692} - \\
& a_{695} + a_{711} - a_{717} + a_{719} + 2a_{738} + a_{751} + \\
& 2a_{756} + 2a_{758} + a_{762} - a_{763} + a_{776} + a_{779} + \\
& a_{784} - a_{793} - a_{804} + 2a_{805} + a_{845} - 2a_{865} - \\
& a_{879} + a_{881} + a_{896} + a_{903} \\
a_{1695} &= \frac{a_{671} - \sqrt{a_{671}^2 - 4x}}{2} \\
x &= 2a_{98} + a_{112} - 2a_{162} + a_{165} - a_{176} + a_{206} - \\
& a_{421} + a_{428} + a_{434} + a_{437} + a_{440} - 2a_{482} - \\
& a_{496} + a_{508} + a_{282} - a_{684} - a_{690} - a_{693} - \\
& a_{696} + a_{712} - a_{718} + a_{720} + 2a_{739} + a_{752} + \\
& 2a_{757} + 2a_{759} + a_{763} - a_{764} + a_{777} + a_{780} + \\
& a_{785} - a_{794} - a_{805} + 2a_{806} + a_{846} - 2a_{866} - \\
& a_{880} + a_{882} + a_{897} + a_{904} \\
a_{1696} &= \frac{a_{672} + \sqrt{a_{672}^2 - 4x}}{2} \\
x &= 2a_{99} + a_{113} - 2a_{163} + a_{166} - a_{177} + a_{207} - \\
& a_{422} + a_{429} + a_{435} + a_{438} + a_{441} - 2a_{483} - \\
& a_{497} + a_{509} + a_{283} - a_{685} - a_{691} - a_{694} - \\
& a_{697} + a_{713} - a_{719} + a_{721} + 2a_{740} + a_{753} + \\
& 2a_{758} + 2a_{760} + a_{764} - a_{765} + a_{778} + a_{781} + \\
& a_{786} - a_{795} - a_{806} + 2a_{807} + a_{847} - 2a_{867} - \\
& a_{881} + a_{883} + a_{898} + a_{905} \\
a_{1697} &= \frac{a_{673} - \sqrt{a_{673}^2 - 4x}}{2} \\
x &= 2a_{100} + a_{114} - 2a_{164} + a_{167} - a_{178} + a_{208} - \\
& a_{423} + a_{430} + a_{436} + a_{439} + a_{442} - 2a_{484} - \\
& a_{498} + a_{510} + a_{284} - a_{686} - a_{692} - a_{695} - \\
& a_{698} + a_{714} - a_{720} + a_{722} + 2a_{741} + a_{754} + \\
& 2a_{759} + 2a_{761} + a_{765} - a_{766} + a_{779} + a_{782} + \\
& a_{787} - a_{796} - a_{807} + 2a_{808} + a_{848} - 2a_{868} - \\
& a_{882} + a_{884} + a_{899} + a_{906} \\
a_{1698} &= \frac{a_{674} - \sqrt{a_{674}^2 - 4x}}{2} \\
x &= 2a_{101} + a_{115} - 2a_{165} + a_{168} - a_{179} + a_{209} - \\
& a_{424} + a_{431} + a_{437} + a_{440} + a_{443} - 2a_{485} - \\
& a_{499} + a_{255} + a_{285} - a_{687} - a_{693} - a_{696} - \\
& a_{699} + a_{715} - a_{721} + a_{723} + 2a_{742} + a_{755} + \\
& 2a_{760} + 2a_{762} + a_{766} - a_{767} + a_{780} + a_{783} + \\
& a_{788} - a_{797} - a_{808} + 2a_{809} + a_{849} - 2a_{869} - \\
& a_{883} + a_{885} + a_{900} + a_{907} \\
a_{1699} &= \frac{a_{675} - \sqrt{a_{675}^2 - 4x}}{2} \\
x &= 2a_{104} + a_{118} - 2a_{168} + a_{171} - a_{182} + a_{212} - \\
& a_{427} + a_{434} + a_{440} + a_{443} + a_{446} - 2a_{488} - \\
& a_{502} + a_{258} + a_{288} - a_{690} - a_{696} - a_{699} - \\
& a_{702} + a_{718} - a_{724} + a_{726} + 2a_{745} + a_{758} + \\
& 2a_{763} + 2a_{765} + a_{769} - a_{770} + a_{783} + a_{786} + \\
& a_{791} - a_{800} - a_{811} + 2a_{812} + a_{852} - 2a_{872} - \\
& a_{886} + a_{888} + a_{903} + a_{910} \\
\\
a_{1702} &= \frac{a_{678} - \sqrt{a_{678}^2 - 4x}}{2} \\
x &= 2a_{105} + a_{119} - 2a_{169} + a_{172} - a_{183} + a_{213} - \\
& a_{428} + a_{435} + a_{441} + a_{444} + a_{447} - 2a_{489} - \\
& a_{503} + a_{259} + a_{289} - a_{691} - a_{697} - a_{700} - \\
& a_{703} + a_{719} - a_{725} + a_{727} + 2a_{746} + a_{759} + \\
& 2a_{764} + 2a_{766} + a_{770} - a_{771} + a_{784} + a_{787} + \\
& a_{792} - a_{801} - a_{812} + 2a_{813} + a_{853} - 2a_{873} - \\
& a_{887} + a_{889} + a_{904} + a_{911} \\
a_{1703} &= \frac{a_{679} - \sqrt{a_{679}^2 - 4x}}{2} \\
x &= 2a_{109} + a_{123} - 2a_{173} + a_{176} - a_{187} + a_{217} - \\
& a_{432} + a_{439} + a_{445} + a_{448} + a_{451} - 2a_{493} - \\
& a_{507} + a_{263} + a_{293} - a_{695} - a_{701} - a_{704} - \\
& a_{707} + a_{723} - a_{729} + a_{731} + 2a_{750} + a_{763} + \\
& 2a_{768} + 2a_{770} + a_{774} - a_{775} + a_{788} + a_{791} + \\
& a_{796} - a_{805} - a_{816} + 2a_{817} + a_{857} - 2a_{877} - \\
& a_{891} + a_{893} + a_{908} + a_{915} \\
a_{1707} &= \frac{a_{683} + \sqrt{a_{683}^2 - 4x}}{2} \\
x &= 2a_{110} + a_{124} - 2a_{174} + a_{177} - a_{188} + a_{218} - \\
& a_{433} + a_{440} + a_{446} + a_{449} + a_{452} - 2a_{494} - \\
& a_{508} + a_{264} + a_{294} - a_{696} - a_{702} - a_{705} - \\
& a_{708} + a_{724} - a_{730} + a_{732} + 2a_{751} + a_{764} + \\
& 2a_{769} + 2a_{771} + a_{775} - a_{776} + a_{789} + a_{792} + \\
& a_{797} - a_{806} - a_{817} + 2a_{818} + a_{858} - 2a_{878} - \\
& a_{892} + a_{894} + a_{909} + a_{916} \\
a_{1708} &= \frac{a_{684} + \sqrt{a_{684}^2 - 4x}}{2} \\
x &= 2a_{111} + a_{125} - 2a_{175} + a_{178} - a_{189} + a_{219} - \\
& a_{434} + a_{441} + a_{447} + a_{450} + a_{453} - 2a_{495} - \\
& a_{509} + a_{265} + a_{295} - a_{697} - a_{703} - a_{706} - \\
& a_{709} + a_{725} - a_{731} + a_{733} + 2a_{752} + a_{765} + \\
& 2a_{770} + 2a_{772} + a_{776} - a_{777} + a_{790} + a_{793} + \\
& a_{798} - a_{807} - a_{818} + 2a_{819} + a_{859} - 2a_{879} -
\end{aligned}
$$

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\begin{aligned}
& a_{893} + a_{895} + a_{910} + a_{917} \\
a_{1709} &= \frac{a_{685} - \sqrt{a_{685}^2 - 4x}}{2} \\
x &= 2a_{115} + a_{65} - 2a_{179} + a_{182} - a_{193} + a_{223} - \\
& a_{438} + a_{445} + a_{451} + a_{454} + a_{457} - 2a_{499} - \\
& a_{257} + a_{269} + a_{299} - a_{701} - a_{707} - a_{710} - \\
& a_{713} + a_{729} - a_{735} + a_{737} + 2a_{756} + a_{769} + \\
& 2a_{774} + 2a_{776} + a_{780} - a_{781} + a_{794} + a_{797} + \\
& a_{802} - a_{811} - a_{822} + 2a_{823} + a_{863} - 2a_{883} - \\
& a_{897} + a_{899} + a_{914} + a_{921} \\
a_{1713} &= \frac{a_{689} + \sqrt{a_{689}^2 - 4x}}{2} \\
x &= 2a_{116} + a_{66} - 2a_{180} + a_{183} - a_{194} + a_{224} - \\
& a_{439} + a_{446} + a_{452} + a_{455} + a_{458} - 2a_{500} - \\
& a_{258} + a_{270} + a_{300} - a_{702} - a_{708} - a_{711} - \\
& a_{714} + a_{730} - a_{736} + a_{738} + 2a_{757} + a_{770} + \\
& 2a_{775} + 2a_{777} + a_{781} - a_{782} + a_{795} + a_{798} + \\
& a_{803} - a_{812} - a_{823} + 2a_{824} + a_{864} - 2a_{884} - \\
& a_{898} + a_{900} + a_{915} + a_{922} \\
a_{1714} &= \frac{a_{690} - \sqrt{a_{690}^2 - 4x}}{2} \\
x &= 2a_{117} + a_{67} - 2a_{181} + a_{184} - a_{195} + a_{225} - \\
& a_{440} + a_{447} + a_{453} + a_{456} + a_{459} - 2a_{501} - \\
& a_{259} + a_{271} + a_{301} - a_{703} - a_{709} - a_{712} - \\
& a_{715} + a_{731} - a_{737} + a_{739} + 2a_{758} + a_{771} + \\
& 2a_{776} + 2a_{778} + a_{782} - a_{783} + a_{796} + a_{799} + \\
& a_{804} - a_{813} - a_{824} + 2a_{825} + a_{865} - 2a_{885} - \\
& a_{899} + a_{901} + a_{916} + a_{923} \\
a_{1715} &= \frac{a_{691} + \sqrt{a_{691}^2 - 4x}}{2} \\
x &= 2a_{118} + a_{68} - 2a_{182} + a_{185} - a_{196} + a_{226} - \\
& a_{441} + a_{448} + a_{454} + a_{457} + a_{460} - 2a_{502} - \\
& a_{260} + a_{272} + a_{302} - a_{704} - a_{710} - a_{713} - \\
& a_{716} + a_{732} - a_{738} + a_{740} + 2a_{759} + a_{772} + \\
& 2a_{777} + 2a_{779} + a_{783} - a_{784} + a_{797} + a_{800} + \\
& a_{805} - a_{814} - a_{825} + 2a_{826} + a_{866} - 2a_{886} - \\
& a_{900} + a_{902} + a_{917} + a_{924} \\
a_{1716} &= \frac{a_{692} - \sqrt{a_{692}^2 - 4x}}{2} \\
x &= 2a_{119} + a_{69} - 2a_{183} + a_{186} - a_{197} + a_{227} - \\
& a_{442} + a_{449} + a_{455} + a_{458} + a_{461} - 2a_{503} - \\
& a_{261} + a_{273} + a_{303} - a_{705} - a_{711} - a_{714} - \\
& a_{717} + a_{733} - a_{739} + a_{741} + 2a_{760} + a_{773} + \\
& 2a_{778} + 2a_{780} + a_{784} - a_{785} + a_{798} + a_{801} + \\
& a_{806} - a_{815} - a_{826} + 2a_{827} + a_{867} - 2a_{887} - \\
& a_{901} + a_{903} + a_{918} + a_{925} \\
a_{1717} &= \frac{a_{693} + \sqrt{a_{693}^2 - 4x}}{2} \\
x &= 2a_{121} + a_{71} - 2a_{185} + a_{188} - a_{199} + a_{229} - \\
& a_{444} + a_{451} + a_{457} + a_{460} + a_{463} - 2a_{505} - \\
& a_{263} + a_{275} + a_{305} - a_{707} - a_{713} - a_{716} - \\
& a_{719} + a_{735} - a_{741} + a_{743} + 2a_{762} + a_{775} + \\
& 2a_{780} + 2a_{782} + a_{786} - a_{787} + a_{800} + a_{803} + \\
& a_{808} - a_{817} - a_{828} + 2a_{829} + a_{869} - 2a_{889} - \\
& a_{903} + a_{905} + a_{920} + a_{927} \\
a_{1719} &= \frac{a_{695} - \sqrt{a_{695}^2 - 4x}}{2} \\
x &= 2a_{126} + a_{76} - 2a_{190} + a_{193} - a_{204} + a_{234} - \\
& a_{449} + a_{456} + a_{462} + a_{465} + a_{468} - 2a_{510} - \\
& a_{268} + a_{280} + a_{310} - a_{712} - a_{718} - a_{721} - \\
& a_{724} + a_{740} - a_{746} + a_{748} + 2a_{767} + a_{780} + \\
& 2a_{785} + 2a_{787} + a_{791} - a_{792} + a_{805} + a_{808} + \\
& a_{813} - a_{822} - a_{833} + 2a_{834} + a_{874} - 2a_{894} - \\
& a_{908} + a_{910} + a_{925} + a_{932} \\
a_{1724} &= \frac{a_{700} - \sqrt{a_{700}^2 - 4x}}{2} \\
x &= 2a_{63} + a_{77} - 2a_{191} + a_{194} - a_{205} + a_{235} - \\
& a_{450} + a_{457} + a_{463} + a_{466} + a_{469} - 2a_{255} - \\
& a_{269} + a_{281} + a_{311} - a_{713} - a_{719} - a_{722} - \\
& a_{725} + a_{741} - a_{747} + a_{749} + 2a_{768} + a_{781} + \\
& 2a_{786} + 2a_{788} + a_{792} - a_{793} + a_{806} + a_{809} + \\
& a_{814} - a_{823} - a_{834} + 2a_{835} + a_{875} - 2a_{895} - \\
& a_{909} + a_{911} + a_{926} + a_{933} \\
a_{1725} &= \frac{a_{701} + \sqrt{a_{701}^2 - 4x}}{2} \\
x &= 2a_{64} + a_{78} - 2a_{192} + a_{195} - a_{206} + a_{236} - \\
& a_{451} + a_{458} + a_{464} + a_{467} + a_{470} - 2a_{256} - \\
& a_{270} + a_{282} + a_{312} - a_{714} - a_{720} - a_{723} - \\
& a_{726} + a_{742} - a_{748} + a_{750} + 2a_{769} + a_{782} + \\
& 2a_{787} + 2a_{789} + a_{793} - a_{794} + a_{807} + a_{810} + \\
& a_{815} - a_{824} - a_{835} + 2a_{836} + a_{876} - 2a_{896} - \\
& a_{910} + a_{912} + a_{927} + a_{934} \\
a_{1726} &= \frac{a_{702} - \sqrt{a_{702}^2 - 4x}}{2} \\
x &= 2a_{65} + a_{79} - 2a_{193} + a_{196} - a_{207} + a_{237} - \\
& a_{452} + a_{459} + a_{465} + a_{468} + a_{471} - 2a_{257} - \\
& a_{271} + a_{283} + a_{313} - a_{715} - a_{721} - a_{724} - \\
& a_{727} + a_{743} - a_{749} + a_{751} + 2a_{770} + a_{783} + \\
& 2a_{788} + 2a_{790} + a_{794} - a_{795} + a_{808} + a_{811} + \\
& a_{816} - a_{825} - a_{836} + 2a_{837} + a_{877} - 2a_{897} - \\
& a_{911} + a_{913} + a_{928} + a_{935} \\
a_{1727} &= \frac{a_{703} + \sqrt{a_{703}^2 - 4x}}{2} \\
x &= 2a_{68} + a_{82} - 2a_{196} + a_{199} - a_{210} + a_{240} - \\
& a_{455} + a_{462} + a_{468} + a_{471} + a_{474} - 2a_{260} - \\
& a_{274} + a_{286} + a_{316} - a_{718} - a_{724} - a_{727} - \\
& a_{730} + a_{746} - a_{752} + a_{754} + 2a_{773} + a_{786} + \\
& 2a_{791} + 2a_{793} + a_{797} - a_{798} + a_{811} + a_{814} + \\
& a_{819} - a_{828} - a_{839} + 2a_{840} + a_{880} - 2a_{900} -
\end{aligned}
$$

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\begin{aligned}
& a_{914} + a_{916} + a_{931} + a_{938} \\
a_{1730} &= \frac{a_{706} + \sqrt{a_{706}^2 - 4x}}{2} \\
x &= 2a_{69} + a_{83} - 2a_{197} + a_{200} - a_{211} + a_{241} - \\
& a_{456} + a_{463} + a_{469} + a_{472} + a_{475} - 2a_{261} - \\
& a_{275} + a_{287} + a_{317} - a_{719} - a_{725} - a_{728} - \\
& a_{731} + a_{747} - a_{753} + a_{755} + 2a_{774} + a_{787} + \\
& 2a_{792} + 2a_{794} + a_{798} - a_{799} + a_{812} + a_{815} + \\
& a_{820} - a_{829} - a_{840} + 2a_{841} + a_{881} - 2a_{901} - \\
& a_{915} + a_{917} + a_{932} + a_{939} \\
a_{1731} &= \frac{a_{707} + \sqrt{a_{707}^2 - 4x}}{2} \\
x &= 2a_{70} + a_{84} - 2a_{198} + a_{201} - a_{212} + a_{242} - \\
& a_{457} + a_{464} + a_{470} + a_{473} + a_{476} - 2a_{262} - \\
& a_{276} + a_{288} + a_{318} - a_{720} - a_{726} - a_{729} - \\
& a_{732} + a_{748} - a_{754} + a_{756} + 2a_{775} + a_{788} + \\
& 2a_{793} + 2a_{795} + a_{799} - a_{800} + a_{813} + a_{816} + \\
& a_{821} - a_{830} - a_{841} + 2a_{842} + a_{882} - 2a_{902} - \\
& a_{916} + a_{918} + a_{933} + a_{940} \\
a_{1732} &= \frac{a_{708} - \sqrt{a_{708}^2 - 4x}}{2} \\
x &= 2a_{74} + a_{88} - 2a_{202} + a_{205} - a_{216} + a_{246} - \\
& a_{461} + a_{468} + a_{474} + a_{477} + a_{480} - 2a_{266} - \\
& a_{280} + a_{292} + a_{322} - a_{724} - a_{730} - a_{733} - \\
& a_{736} + a_{752} - a_{758} + a_{760} + 2a_{779} + a_{792} + \\
& 2a_{797} + 2a_{799} + a_{803} - a_{804} + a_{817} + a_{820} + \\
& a_{825} - a_{834} - a_{845} + 2a_{846} + a_{886} - 2a_{906} - \\
& a_{920} + a_{922} + a_{937} + a_{944} \\
a_{1736} &= \frac{a_{712} - \sqrt{a_{712}^2 - 4x}}{2} \\
x &= 2a_{77} + a_{91} - 2a_{205} + a_{208} - a_{219} + a_{249} - \\
& a_{464} + a_{471} + a_{477} + a_{480} + a_{483} - 2a_{269} - \\
& a_{283} + a_{295} + a_{325} - a_{727} - a_{733} - a_{736} - \\
& a_{739} + a_{755} - a_{761} + a_{763} + 2a_{782} + a_{795} + \\
& 2a_{800} + 2a_{802} + a_{806} - a_{807} + a_{820} + a_{823} + \\
& a_{828} - a_{837} - a_{848} + 2a_{849} + a_{889} - 2a_{909} - \\
& a_{923} + a_{925} + a_{940} + a_{947} \\
a_{1739} &= \frac{a_{715} + \sqrt{a_{715}^2 - 4x}}{2} \\
x &= 2a_{81} + a_{95} - 2a_{209} + a_{212} - a_{223} + a_{253} - \\
& a_{468} + a_{475} + a_{481} + a_{484} + a_{487} - 2a_{273} - \\
& a_{287} + a_{299} + a_{329} - a_{731} - a_{737} - a_{740} - \\
& a_{743} + a_{759} - a_{765} + a_{767} + 2a_{786} + a_{799} + \\
& 2a_{804} + 2a_{806} + a_{810} - a_{811} + a_{824} + a_{827} + \\
& a_{832} - a_{841} - a_{852} + 2a_{853} + a_{893} - 2a_{913} - \\
& a_{927} + a_{929} + a_{944} + a_{951} \\
a_{1743} &= \frac{a_{719} - \sqrt{a_{719}^2 - 4x}}{2} \\
x &= 2a_{84} + a_{98} - 2a_{212} + a_{215} - a_{226} + a_{128} - \\
& a_{471} + a_{478} + a_{484} + a_{487} + a_{490} - 2a_{276} - \\
& a_{290} + a_{302} + a_{332} - a_{734} - a_{740} - a_{743} - \\
& a_{746} + a_{762} - a_{768} + a_{770} + 2a_{789} + a_{802} + \\
& 2a_{807} + 2a_{809} + a_{813} - a_{814} + a_{827} + a_{830} + \\
& a_{835} - a_{844} - a_{855} + 2a_{856} + a_{896} - 2a_{916} - \\
& a_{930} + a_{932} + a_{947} + a_{954} \\
a_{1746} &= \frac{a_{722} + \sqrt{a_{722}^2 - 4x}}{2} \\
x &= 2a_{86} + a_{100} - 2a_{214} + a_{217} - a_{228} + a_{130} - \\
& a_{473} + a_{480} + a_{486} + a_{489} + a_{492} - 2a_{278} - \\
& a_{292} + a_{304} + a_{334} - a_{736} - a_{742} - a_{745} - \\
& a_{748} + a_{764} - a_{770} + a_{772} + 2a_{791} + a_{804} + \\
& 2a_{809} + 2a_{811} + a_{815} - a_{816} + a_{829} + a_{832} + \\
& a_{837} - a_{846} - a_{857} + 2a_{858} + a_{898} - 2a_{918} - \\
& a_{932} + a_{934} + a_{949} + a_{956} \\
a_{1748} &= \frac{a_{724} - \sqrt{a_{724}^2 - 4x}}{2} \\
x &= 2a_{87} + a_{101} - 2a_{215} + a_{218} - a_{229} + a_{131} - \\
& a_{474} + a_{481} + a_{487} + a_{490} + a_{493} - 2a_{279} - \\
& a_{293} + a_{305} + a_{335} - a_{737} - a_{743} - a_{746} - \\
& a_{749} + a_{765} - a_{771} + a_{773} + 2a_{792} + a_{805} + \\
& 2a_{810} + 2a_{812} + a_{816} - a_{817} + a_{830} + a_{833} + \\
& a_{838} - a_{847} - a_{858} + 2a_{859} + a_{899} - 2a_{919} - \\
& a_{933} + a_{935} + a_{950} + a_{957} \\
a_{1749} &= \frac{a_{725} + \sqrt{a_{725}^2 - 4x}}{2} \\
x &= 2a_{88} + a_{102} - 2a_{216} + a_{219} - a_{230} + a_{132} - \\
& a_{475} + a_{482} + a_{488} + a_{491} + a_{494} - 2a_{280} - \\
& a_{294} + a_{306} + a_{336} - a_{738} - a_{744} - a_{747} - \\
& a_{750} + a_{766} - a_{772} + a_{774} + 2a_{793} + a_{806} + \\
& 2a_{811} + 2a_{813} + a_{817} - a_{818} + a_{831} + a_{834} + \\
& a_{839} - a_{848} - a_{859} + 2a_{860} + a_{900} - 2a_{920} - \\
& a_{934} + a_{936} + a_{951} + a_{958} \\
a_{1750} &= \frac{a_{726} - \sqrt{a_{726}^2 - 4x}}{2} \\
x &= 2a_{91} + a_{105} - 2a_{219} + a_{222} - a_{233} + a_{135} - \\
& a_{478} + a_{485} + a_{491} + a_{494} + a_{497} - 2a_{283} - \\
& a_{297} + a_{309} + a_{339} - a_{741} - a_{747} - a_{750} - \\
& a_{753} + a_{769} - a_{775} + a_{777} + 2a_{796} + a_{809} + \\
& 2a_{814} + 2a_{816} + a_{820} - a_{821} + a_{834} + a_{837} + \\
& a_{842} - a_{851} - a_{862} + 2a_{863} + a_{903} - 2a_{923} - \\
& a_{937} + a_{939} + a_{954} + a_{961} \\
a_{1753} &= \frac{a_{729} + \sqrt{a_{729}^2 - 4x}}{2} \\
x &= 2a_{92} + a_{106} - 2a_{220} + a_{223} - a_{234} + a_{136} - \\
& a_{479} + a_{486} + a_{492} + a_{495} + a_{498} - 2a_{284} - \\
& a_{298} + a_{310} + a_{340} - a_{742} - a_{748} - a_{751} - \\
& a_{754} + a_{770} - a_{776} + a_{778} + 2a_{797} + a_{810} + \\
& 2a_{815} + 2a_{817} + a_{821} - a_{822} + a_{835} + a_{838} + \\
& a_{843} - a_{852} - a_{863} + 2a_{864} + a_{904} - 2a_{924} -
\end{aligned}
$$

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\begin{aligned}
& a_{938} + a_{940} + a_{955} + a_{962} \\
a_{1754} &= \frac{a_{730} - \sqrt{a_{730}^2 - 4x}}{2} \\
x &= 2a_{93} + a_{107} - 2a_{221} + a_{224} - a_{235} + a_{137} - \\
& a_{480} + a_{487} + a_{493} + a_{496} + a_{499} - 2a_{285} - \\
& a_{299} + a_{311} + a_{341} - a_{743} - a_{749} - a_{752} - \\
& a_{755} + a_{771} - a_{777} + a_{779} + 2a_{798} + a_{811} + \\
& 2a_{816} + 2a_{818} + a_{822} - a_{823} + a_{836} + a_{839} + \\
& a_{844} - a_{853} - a_{864} + 2a_{865} + a_{905} - 2a_{925} - \\
& a_{939} + a_{941} + a_{956} + a_{963} \\
a_{1755} &= \frac{a_{731} - \sqrt{a_{731}^2 - 4x}}{2} \\
x &= 2a_{97} + a_{111} - 2a_{225} + a_{228} - a_{239} + a_{141} - \\
& a_{484} + a_{491} + a_{497} + a_{500} + a_{503} - 2a_{289} - \\
& a_{303} + a_{315} + a_{345} - a_{747} - a_{753} - a_{756} - \\
& a_{759} + a_{775} - a_{781} + a_{783} + 2a_{802} + a_{815} + \\
& 2a_{820} + 2a_{822} + a_{826} - a_{827} + a_{840} + a_{843} + \\
& a_{848} - a_{857} - a_{868} + 2a_{869} + a_{909} - 2a_{929} - \\
& a_{943} + a_{945} + a_{960} + a_{967} \\
a_{1759} &= \frac{a_{735} - \sqrt{a_{735}^2 - 4x}}{2} \\
x &= 2a_{99} + a_{113} - 2a_{227} + a_{230} - a_{241} + a_{143} - \\
& a_{486} + a_{493} + a_{499} + a_{502} + a_{505} - 2a_{291} - \\
& a_{305} + a_{317} + a_{347} - a_{749} - a_{755} - a_{758} - \\
& a_{761} + a_{777} - a_{783} + a_{785} + 2a_{804} + a_{817} + \\
& 2a_{822} + 2a_{824} + a_{828} - a_{829} + a_{842} + a_{845} + \\
& a_{850} - a_{859} - a_{870} + 2a_{871} + a_{911} - 2a_{931} - \\
& a_{945} + a_{947} + a_{962} + a_{969} \\
a_{1761} &= \frac{a_{737} + \sqrt{a_{737}^2 - 4x}}{2} \\
x &= 2a_{103} + a_{117} - 2a_{231} + a_{234} - a_{245} + a_{147} - \\
& a_{490} + a_{497} + a_{503} + a_{506} + a_{509} - 2a_{295} - \\
& a_{309} + a_{321} + a_{351} - a_{753} - a_{759} - a_{762} - \\
& a_{765} + a_{781} - a_{787} + a_{789} + 2a_{808} + a_{821} + \\
& 2a_{826} + 2a_{828} + a_{832} - a_{833} + a_{846} + a_{849} + \\
& a_{854} - a_{863} - a_{874} + 2a_{875} + a_{915} - 2a_{935} - \\
& a_{949} + a_{951} + a_{966} + a_{973}
\end{aligned}
$$

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\begin{aligned}
a_{1765} &= \frac{a_{741} - \sqrt{a_{741}^2 - 4x}}{2} \\
x &= 2a_{104} + a_{118} - 2a_{232} + a_{235} - a_{246} + a_{148} - \\
& a_{491} + a_{498} + a_{504} + a_{507} + a_{510} - 2a_{296} - \\
& a_{310} + a_{322} + a_{352} - a_{754} - a_{760} - a_{763} - \\
& a_{766} + a_{782} - a_{788} + a_{790} + 2a_{809} + a_{822} + \\
& 2a_{827} + 2a_{829} + a_{833} - a_{834} + a_{847} + a_{850} + \\
& a_{855} - a_{864} - a_{875} + 2a_{876} + a_{916} - 2a_{936} - \\
& a_{950} + a_{952} + a_{967} + a_{974} \\
a_{1766} &= \frac{a_{742} + \sqrt{a_{742}^2 - 4x}}{2} \\
x &= 2a_{106} + a_{120} - 2a_{234} + a_{237} - a_{248} + a_{150} - \\
& a_{493} + a_{500} + a_{506} + a_{509} + a_{256} - 2a_{298} - \\
& a_{312} + a_{324} + a_{354} - a_{756} - a_{762} - a_{765} - \\
& a_{768} + a_{784} - a_{790} + a_{792} + 2a_{811} + a_{824} + \\
& 2a_{829} + 2a_{831} + a_{835} - a_{836} + a_{849} + a_{852} + \\
& a_{857} - a_{866} - a_{877} + 2a_{878} + a_{918} - 2a_{938} - \\
& a_{952} + a_{954} + a_{969} + a_{976} \\
a_{1768} &= \frac{a_{744} + \sqrt{a_{744}^2 - 4x}}{2} \\
x &= 2a_{107} + a_{121} - 2a_{235} + a_{238} - a_{249} + a_{151} - \\
& a_{494} + a_{501} + a_{507} + a_{510} + a_{257} - 2a_{299} - \\
& a_{313} + a_{325} + a_{355} - a_{757} - a_{763} - a_{766} - \\
& a_{769} + a_{785} - a_{791} + a_{793} + 2a_{812} + a_{825} + \\
& 2a_{830} + 2a_{832} + a_{836} - a_{837} + a_{850} + a_{853} + \\
& a_{858} - a_{867} - a_{878} + 2a_{879} + a_{919} - 2a_{939} - \\
& a_{953} + a_{955} + a_{970} + a_{977} \\
a_{1769} &= \frac{a_{745} + \sqrt{a_{745}^2 - 4x}}{2} \\
x &= 2a_{108} + a_{122} - 2a_{236} + a_{239} - a_{250} + a_{152} - \\
& a_{495} + a_{502} + a_{508} + a_{255} + a_{258} - 2a_{300} - \\
& a_{314} + a_{326} + a_{356} - a_{758} - a_{764} - a_{767} - \\
& a_{770} + a_{786} - a_{792} + a_{794} + 2a_{813} + a_{826} + \\
& 2a_{831} + 2a_{833} + a_{837} - a_{838} + a_{851} + a_{854} + \\
& a_{859} - a_{868} - a_{879} + 2a_{880} + a_{920} - 2a_{940} - \\
& a_{954} + a_{956} + a_{971} + a_{978} \\
a_{1770} &= \frac{a_{746} - \sqrt{a_{746}^2 - 4x}}{2} \\
x &= 2a_{110} + a_{124} - 2a_{238} + a_{241} - a_{252} + a_{154} - \\
& a_{497} + a_{504} + a_{510} + a_{257} + a_{260} - 2a_{302} - \\
& a_{316} + a_{328} + a_{358} - a_{760} - a_{766} - a_{769} - \\
& a_{772} + a_{788} - a_{794} + a_{796} + 2a_{815} + a_{828} + \\
& 2a_{833} + 2a_{835} + a_{839} - a_{840} + a_{853} + a_{856} + \\
& a_{861} - a_{870} - a_{881} + 2a_{882} + a_{922} - 2a_{942} - \\
& a_{956} + a_{958} + a_{973} + a_{980} \\
a_{1772} &= \frac{a_{748} - \sqrt{a_{748}^2 - 4x}}{2} \\
x &= 2a_{113} + a_{63} - 2a_{241} + a_{244} - a_{127} + a_{157} - \\
& a_{500} + a_{507} + a_{257} + a_{260} + a_{263} - 2a_{305} - \\
& a_{319} + a_{331} + a_{361} - a_{763} - a_{769} - a_{772} - \\
& a_{775} + a_{791} - a_{797} + a_{799} + 2a_{818} + a_{831} + \\
& 2a_{836} + 2a_{838} + a_{842} - a_{843} + a_{856} + a_{859} + \\
& a_{864} - a_{873} - a_{884} + 2a_{885} + a_{925} - 2a_{945} - \\
& a_{959} + a_{961} + a_{976} + a_{983} \\
a_{1775} &= \frac{a_{751} - \sqrt{a_{751}^2 - 4x}}{2} \\
x &= 2a_{115} + a_{65} - 2a_{243} + a_{246} - a_{129} + a_{159} - \\
& a_{502} + a_{509} + a_{259} + a_{262} + a_{265} - 2a_{307} - \\
& a_{321} + a_{333} + a_{363} - a_{765} - a_{771} - a_{774} - \\
& a_{777} + a_{793} - a_{799} + a_{801} + 2a_{820} + a_{833} + \\
& 2a_{838} + 2a_{840} + a_{844} - a_{845} + a_{858} + a_{861} + \\
& a_{866} - a_{875} - a_{886} + 2a_{887} + a_{927} - 2a_{947} -
\end{aligned}
$$

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\begin{aligned}
& a_{961} + a_{963} + a_{978} + a_{985} \\
a_{1777} &= \frac{a_{753} - \sqrt{a_{753}^2 - 4x}}{2} \\
x &= 2a_{117} + a_{67} - 2a_{245} + a_{248} - a_{131} + a_{161} - \\
& a_{504} + a_{255} + a_{261} + a_{264} + a_{267} - 2a_{309} - \\
& a_{323} + a_{335} + a_{365} - a_{767} - a_{773} - a_{776} - \\
& a_{779} + a_{795} - a_{801} + a_{803} + 2a_{822} + a_{835} + \\
& 2a_{840} + 2a_{842} + a_{846} - a_{847} + a_{860} + a_{863} + \\
& a_{868} - a_{877} - a_{888} + 2a_{889} + a_{929} - 2a_{949} - \\
& a_{963} + a_{965} + a_{980} + a_{987} \\
a_{1779} &= \frac{a_{755} + \sqrt{a_{755}^2 - 4x}}{2} \\
x &= 2a_{118} + a_{68} - 2a_{246} + a_{249} - a_{132} + a_{162} - \\
& a_{505} + a_{256} + a_{262} + a_{265} + a_{268} - 2a_{310} - \\
& a_{324} + a_{336} + a_{366} - a_{768} - a_{774} - a_{777} - \\
& a_{780} + a_{796} - a_{802} + a_{804} + 2a_{823} + a_{836} + \\
& 2a_{841} + 2a_{843} + a_{847} - a_{848} + a_{861} + a_{864} + \\
& a_{869} - a_{878} - a_{889} + 2a_{890} + a_{930} - 2a_{950} - \\
& a_{964} + a_{966} + a_{981} + a_{988} \\
a_{1780} &= \frac{a_{756} - \sqrt{a_{756}^2 - 4x}}{2} \\
x &= 2a_{122} + a_{72} - 2a_{250} + a_{253} - a_{136} + a_{166} - \\
& a_{509} + a_{260} + a_{266} + a_{269} + a_{272} - 2a_{314} - \\
& a_{328} + a_{340} + a_{370} - a_{772} - a_{778} - a_{781} - \\
& a_{784} + a_{800} - a_{806} + a_{808} + 2a_{827} + a_{840} + \\
& 2a_{845} + 2a_{847} + a_{851} - a_{852} + a_{865} + a_{868} + \\
& a_{873} - a_{882} - a_{893} + 2a_{894} + a_{934} - 2a_{954} - \\
& a_{968} + a_{970} + a_{985} + a_{992}
\end{aligned}
$$

$$
\begin{aligned}
a_{1784} &= \frac{a_{760} + \sqrt{a_{760}^2 - 4x}}{2} \\
x &= 2a_{125} + a_{75} - 2a_{253} + a_{128} - a_{139} + a_{169} - \\
& a_{256} + a_{263} + a_{269} + a_{272} + a_{275} - 2a_{317} - \\
& a_{331} + a_{343} + a_{373} - a_{775} - a_{781} - a_{784} - \\
& a_{787} + a_{803} - a_{809} + a_{811} + 2a_{830} + a_{843} + \\
& 2a_{848} + 2a_{850} + a_{854} - a_{855} + a_{868} + a_{871} + \\
& a_{876} - a_{885} - a_{896} + 2a_{897} + a_{937} - 2a_{957} - \\
& a_{971} + a_{973} + a_{988} + a_{995} \\
a_{1787} &= \frac{a_{763} + \sqrt{a_{763}^2 - 4x}}{2} \\
x &= 2a_{126} + a_{76} - 2a_{254} + a_{129} - a_{140} + a_{170} - \\
& a_{257} + a_{264} + a_{270} + a_{273} + a_{276} - 2a_{318} - \\
& a_{332} + a_{344} + a_{374} - a_{776} - a_{782} - a_{785} - \\
& a_{788} + a_{804} - a_{810} + a_{812} + 2a_{831} + a_{844} + \\
& 2a_{849} + 2a_{851} + a_{855} - a_{856} + a_{869} + a_{872} + \\
& a_{877} - a_{886} - a_{897} + 2a_{898} + a_{938} - 2a_{958} - \\
& a_{972} + a_{974} + a_{989} + a_{996} \\
a_{1788} &= \frac{a_{764} - \sqrt{a_{764}^2 - 4x}}{2} \\
x &= 2a_{63} + a_{77} - 2a_{127} + a_{130} - a_{141} + a_{171} - \\
& a_{258} + a_{265} + a_{271} + a_{274} + a_{277} - 2a_{319} - \\
& a_{333} + a_{345} + a_{375} - a_{777} - a_{783} - a_{786} - \\
& a_{789} + a_{805} - a_{811} + a_{813} + 2a_{832} + a_{845} + \\
& 2a_{850} + 2a_{852} + a_{856} - a_{857} + a_{870} + a_{873} + \\
& a_{878} - a_{887} - a_{898} + 2a_{899} + a_{939} - 2a_{959} - \\
& a_{973} + a_{975} + a_{990} + a_{997} \\
a_{1789} &= \frac{a_{765} + \sqrt{a_{765}^2 - 4x}}{2} \\
x &= 2a_{64} + a_{78} - 2a_{128} + a_{131} - a_{142} + a_{172} - \\
& a_{259} + a_{266} + a_{272} + a_{275} + a_{278} - 2a_{320} - \\
& a_{334} + a_{346} + a_{376} - a_{778} - a_{784} - a_{787} - \\
& a_{790} + a_{806} - a_{812} + a_{814} + 2a_{833} + a_{846} + \\
& 2a_{851} + 2a_{853} + a_{857} - a_{858} + a_{871} + a_{874} + \\
& a_{879} - a_{888} - a_{899} + 2a_{900} + a_{940} - 2a_{960} - \\
& a_{974} + a_{976} + a_{991} + a_{998} \\
a_{1790} &= \frac{a_{766} - \sqrt{a_{766}^2 - 4x}}{2} \\
x &= 2a_{65} + a_{79} - 2a_{129} + a_{132} - a_{143} + a_{173} - \\
& a_{260} + a_{267} + a_{273} + a_{276} + a_{279} - 2a_{321} - \\
& a_{335} + a_{347} + a_{377} - a_{779} - a_{785} - a_{788} - \\
& a_{791} + a_{807} - a_{813} + a_{815} + 2a_{834} + a_{847} + \\
& 2a_{852} + 2a_{854} + a_{858} - a_{859} + a_{872} + a_{875} + \\
& a_{880} - a_{889} - a_{900} + 2a_{901} + a_{941} - 2a_{961} - \\
& a_{975} + a_{977} + a_{992} + a_{999} \\
a_{1791} &= \frac{a_{767} - \sqrt{a_{767}^2 - 4x}}{2} \\
x &= 2a_{66} + a_{80} - 2a_{130} + a_{133} - a_{144} + a_{174} - \\
& a_{261} + a_{268} + a_{274} + a_{277} + a_{280} - 2a_{322} - \\
& a_{336} + a_{348} + a_{378} - a_{780} - a_{786} - a_{789} - \\
& a_{792} + a_{808} - a_{814} + a_{816} + 2a_{835} + a_{848} + \\
& 2a_{853} + 2a_{855} + a_{859} - a_{860} + a_{873} + a_{876} + \\
& a_{881} - a_{890} - a_{901} + 2a_{902} + a_{942} - 2a_{962} - \\
& a_{976} + a_{978} + a_{993} + a_{1000} \\
a_{1792} &= \frac{a_{768} + \sqrt{a_{768}^2 - 4x}}{2} \\
x &= 2a_{73} + a_{87} - 2a_{137} + a_{140} - a_{151} + a_{181} - \\
& a_{268} + a_{275} + a_{281} + a_{284} + a_{287} - 2a_{329} - \\
& a_{343} + a_{355} + a_{385} - a_{787} - a_{793} - a_{796} - \\
& a_{799} + a_{815} - a_{821} + a_{823} + 2a_{842} + a_{855} + \\
& 2a_{860} + 2a_{862} + a_{866} - a_{867} + a_{880} + a_{883} + \\
& a_{888} - a_{897} - a_{908} + 2a_{909} + a_{949} - 2a_{969} - \\
& a_{983} + a_{985} + a_{1000} + a_{1007} \\
a_{1799} &= \frac{a_{775} - \sqrt{a_{775}^2 - 4x}}{2} \\
x &= 2a_{74} + a_{88} - 2a_{138} + a_{141} - a_{152} + a_{182} - \\
& a_{269} + a_{276} + a_{282} + a_{285} + a_{288} - 2a_{330} - \\
& a_{344} + a_{356} + a_{386} - a_{788} - a_{794} - a_{797} - \\
& a_{800} + a_{816} - a_{822} + a_{824} + 2a_{843} + a_{856} + \\
& 2a_{861} + 2a_{863} + a_{867} - a_{868} + a_{881} + a_{884} + \\
& a_{889} - a_{898} - a_{909} + 2a_{910} + a_{950} - 2a_{970} -
\end{aligned}
$$

$$
\begin{aligned}
& a_{984} + a_{986} + a_{1001} + a_{1008} \\
a_{1800} &= \frac{a_{776} + \sqrt{a_{776}^2 - 4x}}{2} \\
x &= 2a_{75} + a_{89} - 2a_{139} + a_{142} - a_{153} + a_{183} - \\
& a_{270} + a_{277} + a_{283} + a_{286} + a_{289} - 2a_{331} - \\
& a_{345} + a_{357} + a_{387} - a_{789} - a_{795} - a_{798} - \\
& a_{801} + a_{817} - a_{823} + a_{825} + 2a_{844} + a_{857} + \\
& 2a_{862} + 2a_{864} + a_{868} - a_{869} + a_{882} + a_{885} + \\
& a_{890} - a_{899} - a_{910} + 2a_{911} + a_{951} - 2a_{971} - \\
& a_{985} + a_{987} + a_{1002} + a_{1009} \\
a_{1801} &= \frac{a_{777} + \sqrt{a_{777}^2 - 4x}}{2} \\
x &= 2a_{77} + a_{91} - 2a_{141} + a_{144} - a_{155} + a_{185} - \\
& a_{272} + a_{279} + a_{285} + a_{288} + a_{291} - 2a_{333} - \\
& a_{347} + a_{359} + a_{389} - a_{791} - a_{797} - a_{800} - \\
& a_{803} + a_{819} - a_{825} + a_{827} + 2a_{846} + a_{859} + \\
& 2a_{864} + 2a_{866} + a_{870} - a_{871} + a_{884} + a_{887} + \\
& a_{892} - a_{901} - a_{912} + 2a_{913} + a_{953} - 2a_{973} - \\
& a_{987} + a_{989} + a_{1004} + a_{1011}
\end{aligned}
$$

$$
\begin{aligned}
a_{1803} &= \frac{a_{779} - \sqrt{a_{779}^2 - 4x}}{2} \\
x &= 2a_{79} + a_{93} - 2a_{143} + a_{146} - a_{157} + a_{187} - \\
& a_{274} + a_{281} + a_{287} + a_{290} + a_{293} - 2a_{335} - \\
& a_{349} + a_{361} + a_{391} - a_{793} - a_{799} - a_{802} - \\
& a_{805} + a_{821} - a_{827} + a_{829} + 2a_{848} + a_{861} + \\
& 2a_{866} + 2a_{868} + a_{872} - a_{873} + a_{886} + a_{889} + \\
& a_{894} - a_{903} - a_{914} + 2a_{915} + a_{955} - 2a_{975} - \\
& a_{989} + a_{991} + a_{1006} + a_{1013} \\
a_{1805} &= \frac{a_{781} + \sqrt{a_{781}^2 - 4x}}{2} \\
x &= 2a_{80} + a_{94} - 2a_{144} + a_{147} - a_{158} + a_{188} - \\
& a_{275} + a_{282} + a_{288} + a_{291} + a_{294} - 2a_{336} - \\
& a_{350} + a_{362} + a_{392} - a_{794} - a_{800} - a_{803} - \\
& a_{806} + a_{822} - a_{828} + a_{830} + 2a_{849} + a_{862} + \\
& 2a_{867} + 2a_{869} + a_{873} - a_{874} + a_{887} + a_{890} + \\
& a_{895} - a_{904} - a_{915} + 2a_{916} + a_{956} - 2a_{976} - \\
& a_{990} + a_{992} + a_{1007} + a_{1014} \\
a_{1806} &= \frac{a_{782} - \sqrt{a_{782}^2 - 4x}}{2} \\
x &= 2a_{81} + a_{95} - 2a_{145} + a_{148} - a_{159} + a_{189} - \\
& a_{276} + a_{283} + a_{289} + a_{292} + a_{295} - 2a_{337} - \\
& a_{351} + a_{363} + a_{393} - a_{795} - a_{801} - a_{804} - \\
& a_{807} + a_{823} - a_{829} + a_{831} + 2a_{850} + a_{863} + \\
& 2a_{868} + 2a_{870} + a_{874} - a_{875} + a_{888} + a_{891} + \\
& a_{896} - a_{905} - a_{916} + 2a_{917} + a_{957} - 2a_{977} - \\
& a_{991} + a_{993} + a_{1008} + a_{1015} \\
a_{1807} &= \frac{a_{783} + \sqrt{a_{783}^2 - 4x}}{2} \\
x &= 2a_{82} + a_{96} - 2a_{146} + a_{149} - a_{160} + a_{190} - \\
& a_{277} + a_{284} + a_{290} + a_{293} + a_{296} - 2a_{338} - \\
& a_{352} + a_{364} + a_{394} - a_{796} - a_{802} - a_{805} - \\
& a_{808} + a_{824} - a_{830} + a_{832} + 2a_{851} + a_{864} + \\
& 2a_{869} + 2a_{871} + a_{875} - a_{876} + a_{889} + a_{892} + \\
& a_{897} - a_{906} - a_{917} + 2a_{918} + a_{958} - 2a_{978} - \\
& a_{992} + a_{994} + a_{1009} + a_{1016} \\
a_{1808} &= \frac{a_{784} - \sqrt{a_{784}^2 - 4x}}{2} \\
x &= 2a_{85} + a_{99} - 2a_{149} + a_{152} - a_{163} + a_{193} - \\
& a_{280} + a_{287} + a_{293} + a_{296} + a_{299} - 2a_{341} - \\
& a_{355} + a_{367} + a_{397} - a_{799} - a_{805} - a_{808} - \\
& a_{811} + a_{827} - a_{833} + a_{835} + 2a_{854} + a_{867} + \\
& 2a_{872} + 2a_{874} + a_{878} - a_{879} + a_{892} + a_{895} + \\
& a_{900} - a_{909} - a_{920} + 2a_{921} + a_{961} - 2a_{981} - \\
& a_{995} + a_{997} + a_{1012} + a_{1019} \\
a_{1811} &= \frac{a_{787} - \sqrt{a_{787}^2 - 4x}}{2} \\
x &= 2a_{90} + a_{104} - 2a_{154} + a_{157} - a_{168} + a_{198} - \\
& a_{285} + a_{292} + a_{298} + a_{301} + a_{304} - 2a_{346} - \\
& a_{360} + a_{372} + a_{402} - a_{804} - a_{810} - a_{813} - \\
& a_{816} + a_{832} - a_{838} + a_{840} + 2a_{859} + a_{872} + \\
& 2a_{877} + 2a_{879} + a_{883} - a_{884} + a_{897} + a_{900} + \\
& a_{905} - a_{914} - a_{925} + 2a_{926} + a_{966} - 2a_{986} - \\
& a_{1000} + a_{1002} + a_{1017} + a_{512} \\
a_{1816} &= \frac{a_{792} + \sqrt{a_{792}^2 - 4x}}{2} \\
x &= 2a_{91} + a_{105} - 2a_{155} + a_{158} - a_{169} + a_{199} - \\
& a_{286} + a_{293} + a_{299} + a_{302} + a_{305} - 2a_{347} - \\
& a_{361} + a_{373} + a_{403} - a_{805} - a_{811} - a_{814} - \\
& a_{817} + a_{833} - a_{839} + a_{841} + 2a_{860} + a_{873} + \\
& 2a_{878} + 2a_{880} + a_{884} - a_{885} + a_{898} + a_{901} + \\
& a_{906} - a_{915} - a_{926} + 2a_{927} + a_{967} - 2a_{987} - \\
& a_{1001} + a_{1003} + a_{1018} + a_{513} \\
a_{1817} &= \frac{a_{793} - \sqrt{a_{793}^2 - 4x}}{2} \\
x &= 2a_{92} + a_{106} - 2a_{156} + a_{159} - a_{170} + a_{200} - \\
& a_{287} + a_{294} + a_{300} + a_{303} + a_{306} - 2a_{348} - \\
& a_{362} + a_{374} + a_{404} - a_{806} - a_{812} - a_{815} - \\
& a_{818} + a_{834} - a_{840} + a_{842} + 2a_{861} + a_{874} + \\
& 2a_{879} + 2a_{881} + a_{885} - a_{886} + a_{899} + a_{902} + \\
& a_{907} - a_{916} - a_{927} + 2a_{928} + a_{968} - 2a_{988} - \\
& a_{1002} + a_{1004} + a_{1019} + a_{514} \\
a_{1818} &= \frac{a_{794} - \sqrt{a_{794}^2 - 4x}}{2} \\
x &= 2a_{93} + a_{107} - 2a_{157} + a_{160} - a_{171} + a_{201} - \\
& a_{288} + a_{295} + a_{301} + a_{304} + a_{307} - 2a_{349} - \\
& a_{363} + a_{375} + a_{405} - a_{807} - a_{813} - a_{816} - \\
& a_{819} + a_{835} - a_{841} + a_{843} + 2a_{862} + a_{875} + \\
& 2a_{880} + 2a_{882} + a_{886} - a_{887} + a_{900} + a_{903} + \\
& a_{908} - a_{917} - a_{928} + 2a_{929} + a_{969} - 2a_{989} -
\end{aligned}
$$

$$
\begin{aligned}
& a_{1003} + a_{1005} + a_{1020} + a_{515} \\
a_{1819} &= \frac{a_{795} + \sqrt{a_{795}^2 - 4x}}{2} \\
x &= 2a_{95} + a_{109} - 2a_{159} + a_{162} - a_{173} + a_{203} - \\
& a_{290} + a_{297} + a_{303} + a_{306} + a_{309} - 2a_{351} - \\
& a_{365} + a_{377} + a_{407} - a_{809} - a_{815} - a_{818} - \\
& a_{821} + a_{837} - a_{843} + a_{845} + 2a_{864} + a_{877} + \\
& 2a_{882} + 2a_{884} + a_{888} - a_{889} + a_{902} + a_{905} + \\
& a_{910} - a_{919} - a_{930} + 2a_{931} + a_{971} - 2a_{991} - \\
& a_{1005} + a_{1007} + a_{1022} + a_{517}
\end{aligned}
$$

$$
\begin{aligned}
a_{1821} &= \frac{a_{797} - \sqrt{a_{797}^2 - 4x}}{2} \\
x &= 2a_{96} + a_{110} - 2a_{160} + a_{163} - a_{174} + a_{204} - \\
& a_{291} + a_{298} + a_{304} + a_{307} + a_{310} - 2a_{352} - \\
& a_{366} + a_{378} + a_{408} - a_{810} - a_{816} - a_{819} - \\
& a_{822} + a_{838} - a_{844} + a_{846} + 2a_{865} + a_{878} + \\
& 2a_{883} + 2a_{885} + a_{889} - a_{890} + a_{903} + a_{906} + \\
& a_{911} - a_{920} - a_{931} + 2a_{932} + a_{972} - 2a_{992} - \\
& a_{1006} + a_{1008} + a_{511} + a_{518} \\
a_{1822} &= \frac{a_{798} + \sqrt{a_{798}^2 - 4x}}{2} \\
x &= 2a_{97} + a_{111} - 2a_{161} + a_{164} - a_{175} + a_{205} - \\
& a_{292} + a_{299} + a_{305} + a_{308} + a_{311} - 2a_{353} - \\
& a_{367} + a_{379} + a_{409} - a_{811} - a_{817} - a_{820} - \\
& a_{823} + a_{839} - a_{845} + a_{847} + 2a_{866} + a_{879} + \\
& 2a_{884} + 2a_{886} + a_{890} - a_{891} + a_{904} + a_{907} + \\
& a_{912} - a_{921} - a_{932} + 2a_{933} + a_{973} - 2a_{993} - \\
& a_{1007} + a_{1009} + a_{512} + a_{519} \\
a_{1823} &= \frac{a_{799} + \sqrt{a_{799}^2 - 4x}}{2} \\
x &= 2a_{98} + a_{112} - 2a_{162} + a_{165} - a_{176} + a_{206} - \\
& a_{293} + a_{300} + a_{306} + a_{309} + a_{312} - 2a_{354} - \\
& a_{368} + a_{380} + a_{410} - a_{812} - a_{818} - a_{821} - \\
& a_{824} + a_{840} - a_{846} + a_{848} + 2a_{867} + a_{880} + \\
& 2a_{885} + 2a_{887} + a_{891} - a_{892} + a_{905} + a_{908} + \\
& a_{913} - a_{922} - a_{933} + 2a_{934} + a_{974} - 2a_{994} - \\
& a_{1008} + a_{1010} + a_{513} + a_{520} \\
a_{1824} &= \frac{a_{800} + \sqrt{a_{800}^2 - 4x}}{2} \\
x &= 2a_{99} + a_{113} - 2a_{163} + a_{166} - a_{177} + a_{207} - \\
& a_{294} + a_{301} + a_{307} + a_{310} + a_{313} - 2a_{355} - \\
& a_{369} + a_{381} + a_{411} - a_{813} - a_{819} - a_{822} - \\
& a_{825} + a_{841} - a_{847} + a_{849} + 2a_{868} + a_{881} + \\
& 2a_{886} + 2a_{888} + a_{892} - a_{893} + a_{906} + a_{909} + \\
& a_{914} - a_{923} - a_{934} + 2a_{935} + a_{975} - 2a_{995} - \\
& a_{1009} + a_{1011} + a_{514} + a_{521} \\
a_{1825} &= \frac{a_{801} + \sqrt{a_{801}^2 - 4x}}{2} \\
x &= 2a_{100} + a_{114} - 2a_{164} + a_{167} - a_{178} + a_{208} - \\
& a_{295} + a_{302} + a_{308} + a_{311} + a_{314} - 2a_{356} - \\
& a_{370} + a_{382} + a_{412} - a_{814} - a_{820} - a_{823} - \\
& a_{826} + a_{842} - a_{848} + a_{850} + 2a_{869} + a_{882} + \\
& 2a_{887} + 2a_{889} + a_{893} - a_{894} + a_{907} + a_{910} + \\
& a_{915} - a_{924} - a_{935} + 2a_{936} + a_{976} - 2a_{996} - \\
& a_{1010} + a_{1012} + a_{515} + a_{522} \\
a_{1826} &= \frac{a_{802} + \sqrt{a_{802}^2 - 4x}}{2} \\
x &= 2a_{102} + a_{116} - 2a_{166} + a_{169} - a_{180} + a_{210} - \\
& a_{297} + a_{304} + a_{310} + a_{313} + a_{316} - 2a_{358} - \\
& a_{372} + a_{384} + a_{414} - a_{816} - a_{822} - a_{825} - \\
& a_{828} + a_{844} - a_{850} + a_{852} + 2a_{871} + a_{884} + \\
& 2a_{889} + 2a_{891} + a_{895} - a_{896} + a_{909} + a_{912} + \\
& a_{917} - a_{926} - a_{937} + 2a_{938} + a_{978} - 2a_{998} - \\
& a_{1012} + a_{1014} + a_{517} + a_{524} \\
a_{1828} &= \frac{a_{804} + \sqrt{a_{804}^2 - 4x}}{2} \\
x &= 2a_{103} + a_{117} - 2a_{167} + a_{170} - a_{181} + a_{211} - \\
& a_{298} + a_{305} + a_{311} + a_{314} + a_{317} - 2a_{359} - \\
& a_{373} + a_{385} + a_{415} - a_{817} - a_{823} - a_{826} - \\
& a_{829} + a_{845} - a_{851} + a_{853} + 2a_{872} + a_{885} + \\
& 2a_{890} + 2a_{892} + a_{896} - a_{897} + a_{910} + a_{913} + \\
& a_{918} - a_{927} - a_{938} + 2a_{939} + a_{979} - 2a_{999} - \\
& a_{1013} + a_{1015} + a_{518} + a_{525} \\
a_{1829} &= \frac{a_{805} - \sqrt{a_{805}^2 - 4x}}{2} \\
x &= 2a_{104} + a_{118} - 2a_{168} + a_{171} - a_{182} + a_{212} - \\
& a_{299} + a_{306} + a_{312} + a_{315} + a_{318} - 2a_{360} - \\
& a_{374} + a_{386} + a_{416} - a_{818} - a_{824} - a_{827} - \\
& a_{830} + a_{846} - a_{852} + a_{854} + 2a_{873} + a_{886} + \\
& 2a_{891} + 2a_{893} + a_{897} - a_{898} + a_{911} + a_{914} + \\
& a_{919} - a_{928} - a_{939} + 2a_{940} + a_{980} - 2a_{1000} - \\
& a_{1014} + a_{1016} + a_{519} + a_{526} \\
a_{1830} &= \frac{a_{806} + \sqrt{a_{806}^2 - 4x}}{2} \\
x &= 2a_{105} + a_{119} - 2a_{169} + a_{172} - a_{183} + a_{213} - \\
& a_{300} + a_{307} + a_{313} + a_{316} + a_{319} - 2a_{361} - \\
& a_{375} + a_{387} + a_{417} - a_{819} - a_{825} - a_{828} - \\
& a_{831} + a_{847} - a_{853} + a_{855} + 2a_{874} + a_{887} + \\
& 2a_{892} + 2a_{894} + a_{898} - a_{899} + a_{912} + a_{915} + \\
& a_{920} - a_{929} - a_{940} + 2a_{941} + a_{981} - 2a_{1001} - \\
& a_{1015} + a_{1017} + a_{520} + a_{527} \\
a_{1831} &= \frac{a_{807} + \sqrt{a_{807}^2 - 4x}}{2} \\
x &= 2a_{109} + a_{123} - 2a_{173} + a_{176} - a_{187} + a_{217} - \\
& a_{304} + a_{311} + a_{317} + a_{320} + a_{323} - 2a_{365} - \\
& a_{379} + a_{391} + a_{421} - a_{823} - a_{829} - a_{832} - \\
& a_{835} + a_{851} - a_{857} + a_{859} + 2a_{878} + a_{891} + \\
& 2a_{896} + 2a_{898} + a_{902} - a_{903} + a_{916} + a_{919} + \\
& a_{924} - a_{933} - a_{944} + 2a_{945} + a_{985} - 2a_{1005} -
\end{aligned}
$$

$$a_{1019} + a_{1021} + a_{524} + a_{531}$$

$$\begin{aligned}
a_{1835} &= \frac{a_{811} + \sqrt{a_{811}^2 - 4x}}{2} \\
x &= 2a_{110} + a_{124} - 2a_{174} + a_{177} - a_{188} + a_{218} - \\
&\quad a_{305} + a_{312} + a_{318} + a_{321} + a_{324} - 2a_{366} - \\
&\quad a_{380} + a_{392} + a_{422} - a_{824} - a_{830} - a_{833} - \\
&\quad a_{836} + a_{852} - a_{858} + a_{860} + 2a_{879} + a_{892} + \\
&\quad 2a_{897} + 2a_{899} + a_{903} - a_{904} + a_{917} + a_{920} + \\
&\quad a_{925} - a_{934} - a_{945} + 2a_{946} + a_{986} - 2a_{1006} - \\
&\quad a_{1020} + a_{1022} + a_{525} + a_{532} \\
a_{1836} &= \frac{a_{812} + \sqrt{a_{812}^2 - 4x}}{2} \\
x &= 2a_{112} + a_{126} - 2a_{176} + a_{179} - a_{190} + a_{220} - \\
&\quad a_{307} + a_{314} + a_{320} + a_{323} + a_{326} - 2a_{368} - \\
&\quad a_{382} + a_{394} + a_{424} - a_{826} - a_{832} - a_{835} - \\
&\quad a_{838} + a_{854} - a_{860} + a_{862} + 2a_{881} + a_{894} + \\
&\quad 2a_{899} + 2a_{901} + a_{905} - a_{906} + a_{919} + a_{922} + \\
&\quad a_{927} - a_{936} - a_{947} + 2a_{948} + a_{988} - 2a_{1008} - \\
&\quad a_{1022} + a_{512} + a_{527} + a_{534} \\
a_{1838} &= \frac{a_{814} - \sqrt{a_{814}^2 - 4x}}{2} \\
x &= 2a_{114} + a_{64} - 2a_{178} + a_{181} - a_{192} + a_{222} - \\
&\quad a_{309} + a_{316} + a_{322} + a_{325} + a_{328} - 2a_{370} - \\
&\quad a_{384} + a_{396} + a_{426} - a_{828} - a_{834} - a_{837} - \\
&\quad a_{840} + a_{856} - a_{862} + a_{864} + 2a_{883} + a_{896} + \\
&\quad 2a_{901} + 2a_{903} + a_{907} - a_{908} + a_{921} + a_{924} + \\
&\quad a_{929} - a_{938} - a_{949} + 2a_{950} + a_{990} - 2a_{1010} - \\
&\quad a_{512} + a_{514} + a_{529} + a_{536} \\
a_{1840} &= \frac{a_{816} + \sqrt{a_{816}^2 - 4x}}{2} \\
x &= 2a_{115} + a_{65} - 2a_{179} + a_{182} - a_{193} + a_{223} - \\
&\quad a_{310} + a_{317} + a_{323} + a_{326} + a_{329} - 2a_{371} - \\
&\quad a_{385} + a_{397} + a_{427} - a_{829} - a_{835} - a_{838} - \\
&\quad a_{841} + a_{857} - a_{863} + a_{865} + 2a_{884} + a_{897} + \\
&\quad 2a_{902} + 2a_{904} + a_{908} - a_{909} + a_{922} + a_{925} + \\
&\quad a_{930} - a_{939} - a_{950} + 2a_{951} + a_{991} - 2a_{1011} - \\
&\quad a_{513} + a_{515} + a_{530} + a_{537} \\
a_{1841} &= \frac{a_{817} - \sqrt{a_{817}^2 - 4x}}{2} \\
x &= 2a_{116} + a_{66} - 2a_{180} + a_{183} - a_{194} + a_{224} - \\
&\quad a_{311} + a_{318} + a_{324} + a_{327} + a_{330} - 2a_{372} - \\
&\quad a_{386} + a_{398} + a_{428} - a_{830} - a_{836} - a_{839} - \\
&\quad a_{842} + a_{858} - a_{864} + a_{866} + 2a_{885} + a_{898} + \\
&\quad 2a_{903} + 2a_{905} + a_{909} - a_{910} + a_{923} + a_{926} + \\
&\quad a_{931} - a_{940} - a_{951} + 2a_{952} + a_{992} - 2a_{1012} - \\
&\quad a_{514} + a_{516} + a_{531} + a_{538} \\
a_{1842} &= \frac{a_{818} + \sqrt{a_{818}^2 - 4x}}{2} \\
x &= 2a_{118} + a_{68} - 2a_{182} + a_{185} - a_{196} + a_{226} - \\
&\quad a_{313} + a_{320} + a_{326} + a_{329} + a_{332} - 2a_{374} - \\
&\quad a_{388} + a_{400} + a_{430} - a_{832} - a_{838} - a_{841} - \\
&\quad a_{844} + a_{860} - a_{866} + a_{868} + 2a_{887} + a_{900} + \\
&\quad 2a_{905} + 2a_{907} + a_{911} - a_{912} + a_{925} + a_{928} + \\
&\quad a_{933} - a_{942} - a_{953} + 2a_{954} + a_{994} - 2a_{1014} - \\
&\quad a_{516} + a_{518} + a_{533} + a_{540} \\
a_{1844} &= \frac{a_{820} - \sqrt{a_{820}^2 - 4x}}{2} \\
x &= 2a_{119} + a_{69} - 2a_{183} + a_{186} - a_{197} + a_{227} - \\
&\quad a_{314} + a_{321} + a_{327} + a_{330} + a_{333} - 2a_{375} - \\
&\quad a_{389} + a_{401} + a_{431} - a_{833} - a_{839} - a_{842} - \\
&\quad a_{845} + a_{861} - a_{867} + a_{869} + 2a_{888} + a_{901} + \\
&\quad 2a_{906} + 2a_{908} + a_{912} - a_{913} + a_{926} + a_{929} + \\
&\quad a_{934} - a_{943} - a_{954} + 2a_{955} + a_{995} - 2a_{1015} - \\
&\quad a_{517} + a_{519} + a_{534} + a_{541} \\
a_{1845} &= \frac{a_{821} - \sqrt{a_{821}^2 - 4x}}{2} \\
x &= 2a_{120} + a_{70} - 2a_{184} + a_{187} - a_{198} + a_{228} - \\
&\quad a_{315} + a_{322} + a_{328} + a_{331} + a_{334} - 2a_{376} - \\
&\quad a_{390} + a_{402} + a_{432} - a_{834} - a_{840} - a_{843} - \\
&\quad a_{846} + a_{862} - a_{868} + a_{870} + 2a_{889} + a_{902} + \\
&\quad 2a_{907} + 2a_{909} + a_{913} - a_{914} + a_{927} + a_{930} + \\
&\quad a_{935} - a_{944} - a_{955} + 2a_{956} + a_{996} - 2a_{1016} - \\
&\quad a_{518} + a_{520} + a_{535} + a_{542} \\
a_{1846} &= \frac{a_{822} - \sqrt{a_{822}^2 - 4x}}{2} \\
x &= 2a_{121} + a_{71} - 2a_{185} + a_{188} - a_{199} + a_{229} - \\
&\quad a_{316} + a_{323} + a_{329} + a_{332} + a_{335} - 2a_{377} - \\
&\quad a_{391} + a_{403} + a_{433} - a_{835} - a_{841} - a_{844} - \\
&\quad a_{847} + a_{863} - a_{869} + a_{871} + 2a_{890} + a_{903} + \\
&\quad 2a_{908} + 2a_{910} + a_{914} - a_{915} + a_{928} + a_{931} + \\
&\quad a_{936} - a_{945} - a_{956} + 2a_{957} + a_{997} - 2a_{1017} - \\
&\quad a_{519} + a_{521} + a_{536} + a_{543} \\
a_{1847} &= \frac{a_{823} + \sqrt{a_{823}^2 - 4x}}{2} \\
x &= 2a_{125} + a_{75} - 2a_{189} + a_{192} - a_{203} + a_{233} - \\
&\quad a_{320} + a_{327} + a_{333} + a_{336} + a_{339} - 2a_{381} - \\
&\quad a_{395} + a_{407} + a_{437} - a_{839} - a_{845} - a_{848} - \\
&\quad a_{851} + a_{867} - a_{873} + a_{875} + 2a_{894} + a_{907} + \\
&\quad 2a_{912} + 2a_{914} + a_{918} - a_{919} + a_{932} + a_{935} + \\
&\quad a_{940} - a_{949} - a_{960} + 2a_{961} + a_{1001} - 2a_{1021} - \\
&\quad a_{523} + a_{525} + a_{540} + a_{547}
\end{aligned}$$

$$\begin{aligned}
a_{1851} &= \frac{a_{827} + \sqrt{a_{827}^2 - 4x}}{2} \\
x &= 2a_{67} + a_{81} - 2a_{195} + a_{198} - a_{209} + a_{239} - \\
&\quad a_{326} + a_{333} + a_{339} + a_{342} + a_{345} - 2a_{387} - \\
&\quad a_{401} + a_{413} + a_{443} - a_{845} - a_{851} - a_{854} - \\
&\quad a_{857} + a_{873} - a_{879} + a_{881} + 2a_{900} + a_{913} + \\
&\quad 2a_{918} + 2a_{920} + a_{924} - a_{925} + a_{938} + a_{941} +
\end{aligned}$$

$$
\begin{aligned}
& a_{946} - a_{955} - a_{966} + 2a_{967} + a_{1007} - 2a_{515} - \\
& a_{529} + a_{531} + a_{546} + a_{553} \\
a_{1857} &= \frac{a_{833} + \sqrt{a_{833}^2 - 4x}}{2} \\
x &= 2a_{68} + a_{82} - 2a_{196} + a_{199} - a_{210} + a_{240} - \\
& a_{327} + a_{334} + a_{340} + a_{343} + a_{346} - 2a_{388} - \\
& a_{402} + a_{414} + a_{444} - a_{846} - a_{852} - a_{855} - \\
& a_{858} + a_{874} - a_{880} + a_{882} + 2a_{901} + a_{914} + \\
& 2a_{919} + 2a_{921} + a_{925} - a_{926} + a_{939} + a_{942} + \\
& a_{947} - a_{956} - a_{967} + 2a_{968} + a_{1008} - 2a_{516} - \\
& a_{530} + a_{532} + a_{547} + a_{554} \\
a_{1858} &= \frac{a_{834} + \sqrt{a_{834}^2 - 4x}}{2} \\
x &= 2a_{69} + a_{83} - 2a_{197} + a_{200} - a_{211} + a_{241} - \\
& a_{328} + a_{335} + a_{341} + a_{344} + a_{347} - 2a_{389} - \\
& a_{403} + a_{415} + a_{445} - a_{847} - a_{853} - a_{856} - \\
& a_{859} + a_{875} - a_{881} + a_{883} + 2a_{902} + a_{915} + \\
& 2a_{920} + 2a_{922} + a_{926} - a_{927} + a_{940} + a_{943} + \\
& a_{948} - a_{957} - a_{968} + 2a_{969} + a_{1009} - 2a_{517} - \\
& a_{531} + a_{533} + a_{548} + a_{555} \\
a_{1859} &= \frac{a_{835} - \sqrt{a_{835}^2 - 4x}}{2} \\
x &= 2a_{70} + a_{84} - 2a_{198} + a_{201} - a_{212} + a_{242} - \\
& a_{329} + a_{336} + a_{342} + a_{345} + a_{348} - 2a_{390} - \\
& a_{404} + a_{416} + a_{446} - a_{848} - a_{854} - a_{857} - \\
& a_{860} + a_{876} - a_{882} + a_{884} + 2a_{903} + a_{916} + \\
& 2a_{921} + 2a_{923} + a_{927} - a_{928} + a_{941} + a_{944} + \\
& a_{949} - a_{958} - a_{969} + 2a_{970} + a_{1010} - 2a_{518} - \\
& a_{532} + a_{534} + a_{549} + a_{556} \\
a_{1860} &= \frac{a_{836} - \sqrt{a_{836}^2 - 4x}}{2} \\
x &= 2a_{71} + a_{85} - 2a_{199} + a_{202} - a_{213} + a_{243} - \\
& a_{330} + a_{337} + a_{343} + a_{346} + a_{349} - 2a_{391} - \\
& a_{405} + a_{417} + a_{447} - a_{849} - a_{855} - a_{858} - \\
& a_{861} + a_{877} - a_{883} + a_{885} + 2a_{904} + a_{917} + \\
& 2a_{922} + 2a_{924} + a_{928} - a_{929} + a_{942} + a_{945} + \\
& a_{950} - a_{959} - a_{970} + 2a_{971} + a_{1011} - 2a_{519} - \\
& a_{533} + a_{535} + a_{550} + a_{557} \\
a_{1861} &= \frac{a_{837} + \sqrt{a_{837}^2 - 4x}}{2} \\
x &= 2a_{72} + a_{86} - 2a_{200} + a_{203} - a_{214} + a_{244} - \\
& a_{331} + a_{338} + a_{344} + a_{347} + a_{350} - 2a_{392} - \\
& a_{406} + a_{418} + a_{448} - a_{850} - a_{856} - a_{859} - \\
& a_{862} + a_{878} - a_{884} + a_{886} + 2a_{905} + a_{918} + \\
& 2a_{923} + 2a_{925} + a_{929} - a_{930} + a_{943} + a_{946} + \\
& a_{951} - a_{960} - a_{971} + 2a_{972} + a_{1012} - 2a_{520} - \\
& a_{534} + a_{536} + a_{551} + a_{558} \\
a_{1862} &= \frac{a_{838} - \sqrt{a_{838}^2 - 4x}}{2} \\
x &= 2a_{73} + a_{87} - 2a_{201} + a_{204} - a_{215} + a_{245} - \\
& a_{332} + a_{339} + a_{345} + a_{348} + a_{351} - 2a_{393} - \\
& a_{407} + a_{419} + a_{449} - a_{851} - a_{857} - a_{860} - \\
& a_{863} + a_{879} - a_{885} + a_{887} + 2a_{906} + a_{919} + \\
& 2a_{924} + 2a_{926} + a_{930} - a_{931} + a_{944} + a_{947} + \\
& a_{952} - a_{961} - a_{972} + 2a_{973} + a_{1013} - 2a_{521} - \\
& a_{535} + a_{537} + a_{552} + a_{559} \\
a_{1863} &= \frac{a_{839} + \sqrt{a_{839}^2 - 4x}}{2} \\
x &= 2a_{74} + a_{88} - 2a_{202} + a_{205} - a_{216} + a_{246} - \\
& a_{333} + a_{340} + a_{346} + a_{349} + a_{352} - 2a_{394} - \\
& a_{408} + a_{420} + a_{450} - a_{852} - a_{858} - a_{861} - \\
& a_{864} + a_{880} - a_{886} + a_{888} + 2a_{907} + a_{920} + \\
& 2a_{925} + 2a_{927} + a_{931} - a_{932} + a_{945} + a_{948} + \\
& a_{953} - a_{962} - a_{973} + 2a_{974} + a_{1014} - 2a_{522} - \\
& a_{536} + a_{538} + a_{553} + a_{560} \\
a_{1864} &= \frac{a_{840} - \sqrt{a_{840}^2 - 4x}}{2} \\
x &= 2a_{77} + a_{91} - 2a_{205} + a_{208} - a_{219} + a_{249} - \\
& a_{336} + a_{343} + a_{349} + a_{352} + a_{355} - 2a_{397} - \\
& a_{411} + a_{423} + a_{453} - a_{855} - a_{861} - a_{864} - \\
& a_{867} + a_{883} - a_{889} + a_{891} + 2a_{910} + a_{923} + \\
& 2a_{928} + 2a_{930} + a_{934} - a_{935} + a_{948} + a_{951} + \\
& a_{956} - a_{965} - a_{976} + 2a_{977} + a_{1017} - 2a_{525} - \\
& a_{539} + a_{541} + a_{556} + a_{563} \\
a_{1867} &= \frac{a_{843} + \sqrt{a_{843}^2 - 4x}}{2} \\
x &= 2a_{79} + a_{93} - 2a_{207} + a_{210} - a_{221} + a_{251} - \\
& a_{338} + a_{345} + a_{351} + a_{354} + a_{357} - 2a_{399} - \\
& a_{413} + a_{425} + a_{455} - a_{857} - a_{863} - a_{866} - \\
& a_{869} + a_{885} - a_{891} + a_{893} + 2a_{912} + a_{925} + \\
& 2a_{930} + 2a_{932} + a_{936} - a_{937} + a_{950} + a_{953} + \\
& a_{958} - a_{967} - a_{978} + 2a_{979} + a_{1019} - 2a_{527} - \\
& a_{541} + a_{543} + a_{558} + a_{565} \\
a_{1869} &= \frac{a_{845} - \sqrt{a_{845}^2 - 4x}}{2} \\
x &= 2a_{82} + a_{96} - 2a_{210} + a_{213} - a_{224} + a_{254} - \\
& a_{341} + a_{348} + a_{354} + a_{357} + a_{360} - 2a_{402} - \\
& a_{416} + a_{428} + a_{458} - a_{860} - a_{866} - a_{869} - \\
& a_{872} + a_{888} - a_{894} + a_{896} + 2a_{915} + a_{928} + \\
& 2a_{933} + 2a_{935} + a_{939} - a_{940} + a_{953} + a_{956} + \\
& a_{961} - a_{970} - a_{981} + 2a_{982} + a_{1022} - 2a_{530} - \\
& a_{544} + a_{546} + a_{561} + a_{568} \\
a_{1872} &= \frac{a_{848} + \sqrt{a_{848}^2 - 4x}}{2} \\
x &= 2a_{90} + a_{104} - 2a_{218} + a_{221} - a_{232} + a_{134} - \\
& a_{349} + a_{356} + a_{362} + a_{365} + a_{368} - 2a_{410} - \\
& a_{424} + a_{436} + a_{466} - a_{868} - a_{874} - a_{877} - \\
& a_{880} + a_{896} - a_{902} + a_{904} + 2a_{923} + a_{936} + \\
& 2a_{941} + 2a_{943} + a_{947} - a_{948} + a_{961} + a_{964} +
\end{aligned}
$$

$$
\begin{aligned}
& a_{969} - a_{978} - a_{989} + 2a_{990} + a_{518} - 2a_{538} - \\
& a_{552} + a_{554} + a_{569} + a_{576} \\
a_{1880} &= \frac{a_{856} + \sqrt{a_{856}^2 - 4x}}{2} \\
x &= 2a_{91} + a_{105} - 2a_{219} + a_{222} - a_{233} + a_{135} - \\
& a_{350} + a_{357} + a_{363} + a_{366} + a_{369} - 2a_{411} - \\
& a_{425} + a_{437} + a_{467} - a_{869} - a_{875} - a_{878} - \\
& a_{881} + a_{897} - a_{903} + a_{905} + 2a_{924} + a_{937} + \\
& 2a_{942} + 2a_{944} + a_{948} - a_{949} + a_{962} + a_{965} + \\
& a_{970} - a_{979} - a_{990} + 2a_{991} + a_{519} - 2a_{539} - \\
& a_{553} + a_{555} + a_{570} + a_{577} \\
a_{1881} &= \frac{a_{857} + \sqrt{a_{857}^2 - 4x}}{2} \\
x &= 2a_{92} + a_{106} - 2a_{220} + a_{223} - a_{234} + a_{136} - \\
& a_{351} + a_{358} + a_{364} + a_{367} + a_{370} - 2a_{412} - \\
& a_{426} + a_{438} + a_{468} - a_{870} - a_{876} - a_{879} - \\
& a_{882} + a_{898} - a_{904} + a_{906} + 2a_{925} + a_{938} + \\
& 2a_{943} + 2a_{945} + a_{949} - a_{950} + a_{963} + a_{966} + \\
& a_{971} - a_{980} - a_{991} + 2a_{992} + a_{520} - 2a_{540} - \\
& a_{554} + a_{556} + a_{571} + a_{578} \\
a_{1882} &= \frac{a_{858} - \sqrt{a_{858}^2 - 4x}}{2} \\
x &= 2a_{94} + a_{108} - 2a_{222} + a_{225} - a_{236} + a_{138} - \\
& a_{353} + a_{360} + a_{366} + a_{369} + a_{372} - 2a_{414} - \\
& a_{428} + a_{440} + a_{470} - a_{872} - a_{878} - a_{881} - \\
& a_{884} + a_{900} - a_{906} + a_{908} + 2a_{927} + a_{940} + \\
& 2a_{945} + 2a_{947} + a_{951} - a_{952} + a_{965} + a_{968} + \\
& a_{973} - a_{982} - a_{993} + 2a_{994} + a_{522} - 2a_{542} - \\
& a_{556} + a_{558} + a_{573} + a_{580} \\
a_{1884} &= \frac{a_{860} - \sqrt{a_{860}^2 - 4x}}{2} \\
x &= 2a_{95} + a_{109} - 2a_{223} + a_{226} - a_{237} + a_{139} - \\
& a_{354} + a_{361} + a_{367} + a_{370} + a_{373} - 2a_{415} - \\
& a_{429} + a_{441} + a_{471} - a_{873} - a_{879} - a_{882} - \\
& a_{885} + a_{901} - a_{907} + a_{909} + 2a_{928} + a_{941} + \\
& 2a_{946} + 2a_{948} + a_{952} - a_{953} + a_{966} + a_{969} + \\
& a_{974} - a_{983} - a_{994} + 2a_{995} + a_{523} - 2a_{543} - \\
& a_{557} + a_{559} + a_{574} + a_{581} \\
a_{1885} &= \frac{a_{861} + \sqrt{a_{861}^2 - 4x}}{2} \\
x &= 2a_{96} + a_{110} - 2a_{224} + a_{227} - a_{238} + a_{140} - \\
& a_{355} + a_{362} + a_{368} + a_{371} + a_{374} - 2a_{416} - \\
& a_{430} + a_{442} + a_{472} - a_{874} - a_{880} - a_{883} - \\
& a_{886} + a_{902} - a_{908} + a_{910} + 2a_{929} + a_{942} + \\
& 2a_{947} + 2a_{949} + a_{953} - a_{954} + a_{967} + a_{970} + \\
& a_{975} - a_{984} - a_{995} + 2a_{996} + a_{524} - 2a_{544} - \\
& a_{558} + a_{560} + a_{575} + a_{582} \\
a_{1886} &= \frac{a_{862} - \sqrt{a_{862}^2 - 4x}}{2} \\
x &= 2a_{97} + a_{111} - 2a_{225} + a_{228} - a_{239} + a_{141} - \\
& a_{356} + a_{363} + a_{369} + a_{372} + a_{375} - 2a_{417} - \\
& a_{431} + a_{443} + a_{473} - a_{875} - a_{881} - a_{884} - \\
& a_{887} + a_{903} - a_{909} + a_{911} + 2a_{930} + a_{943} + \\
& 2a_{948} + 2a_{950} + a_{954} - a_{955} + a_{968} + a_{971} + \\
& a_{976} - a_{985} - a_{996} + 2a_{997} + a_{525} - 2a_{545} - \\
& a_{559} + a_{561} + a_{576} + a_{583} \\
a_{1887} &= \frac{a_{863} - \sqrt{a_{863}^2 - 4x}}{2} \\
x &= 2a_{100} + a_{114} - 2a_{228} + a_{231} - a_{242} + a_{144} - \\
& a_{359} + a_{366} + a_{372} + a_{375} + a_{378} - 2a_{420} - \\
& a_{434} + a_{446} + a_{476} - a_{878} - a_{884} - a_{887} - \\
& a_{890} + a_{906} - a_{912} + a_{914} + 2a_{933} + a_{946} + \\
& 2a_{951} + 2a_{953} + a_{957} - a_{958} + a_{971} + a_{974} + \\
& a_{979} - a_{988} - a_{999} + 2a_{1000} + a_{528} - 2a_{548} - \\
& a_{562} + a_{564} + a_{579} + a_{586} \\
a_{1890} &= \frac{a_{866} - \sqrt{a_{866}^2 - 4x}}{2} \\
x &= 2a_{101} + a_{115} - 2a_{229} + a_{232} - a_{243} + a_{145} - \\
& a_{360} + a_{367} + a_{373} + a_{376} + a_{379} - 2a_{421} - \\
& a_{435} + a_{447} + a_{477} - a_{879} - a_{885} - a_{888} - \\
& a_{891} + a_{907} - a_{913} + a_{915} + 2a_{934} + a_{947} + \\
& 2a_{952} + 2a_{954} + a_{958} - a_{959} + a_{972} + a_{975} + \\
& a_{980} - a_{989} - a_{1000} + 2a_{1001} + a_{529} - 2a_{549} - \\
& a_{563} + a_{565} + a_{580} + a_{587} \\
a_{1891} &= \frac{a_{867} - \sqrt{a_{867}^2 - 4x}}{2} \\
x &= 2a_{102} + a_{116} - 2a_{230} + a_{233} - a_{244} + a_{146} - \\
& a_{361} + a_{368} + a_{374} + a_{377} + a_{380} - 2a_{422} - \\
& a_{436} + a_{448} + a_{478} - a_{880} - a_{886} - a_{889} - \\
& a_{892} + a_{908} - a_{914} + a_{916} + 2a_{935} + a_{948} + \\
& 2a_{953} + 2a_{955} + a_{959} - a_{960} + a_{973} + a_{976} + \\
& a_{981} - a_{990} - a_{1001} + 2a_{1002} + a_{530} - 2a_{550} - \\
& a_{564} + a_{566} + a_{581} + a_{588} \\
a_{1892} &= \frac{a_{868} + \sqrt{a_{868}^2 - 4x}}{2} \\
x &= 2a_{103} + a_{117} - 2a_{231} + a_{234} - a_{245} + a_{147} - \\
& a_{362} + a_{369} + a_{375} + a_{378} + a_{381} - 2a_{423} - \\
& a_{437} + a_{449} + a_{479} - a_{881} - a_{887} - a_{890} - \\
& a_{893} + a_{909} - a_{915} + a_{917} + 2a_{936} + a_{949} + \\
& 2a_{954} + 2a_{956} + a_{960} - a_{961} + a_{974} + a_{977} + \\
& a_{982} - a_{991} - a_{1002} + 2a_{1003} + a_{531} - 2a_{551} - \\
& a_{565} + a_{567} + a_{582} + a_{589} \\
a_{1893} &= \frac{a_{869} - \sqrt{a_{869}^2 - 4x}}{2} \\
x &= 2a_{105} + a_{119} - 2a_{233} + a_{236} - a_{247} + a_{149} - \\
& a_{364} + a_{371} + a_{377} + a_{380} + a_{383} - 2a_{425} - \\
& a_{439} + a_{451} + a_{481} - a_{883} - a_{889} - a_{892} - \\
& a_{895} + a_{911} - a_{917} + a_{919} + 2a_{938} + a_{951} + \\
& 2a_{956} + 2a_{958} + a_{962} - a_{963} + a_{976} + a_{979} +
\end{aligned}
$$

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\begin{aligned}
& a_{984} - a_{993} - a_{1004} + 2a_{1005} + a_{533} - 2a_{553} - \\
& a_{567} + a_{569} + a_{584} + a_{591} \\
a_{1895} &= \frac{a_{871} + \sqrt{a_{871}^2 - 4x}}{2} \\
x &= 2a_{107} + a_{121} - 2a_{235} + a_{238} - a_{249} + a_{151} - \\
& a_{366} + a_{373} + a_{379} + a_{382} + a_{385} - 2a_{427} - \\
& a_{441} + a_{453} + a_{483} - a_{885} - a_{891} - a_{894} - \\
& a_{897} + a_{913} - a_{919} + a_{921} + 2a_{940} + a_{953} + \\
& 2a_{958} + 2a_{960} + a_{964} - a_{965} + a_{978} + a_{981} + \\
& a_{986} - a_{995} - a_{1006} + 2a_{1007} + a_{535} - 2a_{555} - \\
& a_{569} + a_{571} + a_{586} + a_{593} \\
a_{1897} &= \frac{a_{873} - \sqrt{a_{873}^2 - 4x}}{2} \\
x &= 2a_{108} + a_{122} - 2a_{236} + a_{239} - a_{250} + a_{152} - \\
& a_{367} + a_{374} + a_{380} + a_{383} + a_{386} - 2a_{428} - \\
& a_{442} + a_{454} + a_{484} - a_{886} - a_{892} - a_{895} - \\
& a_{898} + a_{914} - a_{920} + a_{922} + 2a_{941} + a_{954} + \\
& 2a_{959} + 2a_{961} + a_{965} - a_{966} + a_{979} + a_{982} + \\
& a_{987} - a_{996} - a_{1007} + 2a_{1008} + a_{536} - 2a_{556} - \\
& a_{570} + a_{572} + a_{587} + a_{594} \\
a_{1898} &= \frac{a_{874} + \sqrt{a_{874}^2 - 4x}}{2} \\
x &= 2a_{109} + a_{123} - 2a_{237} + a_{240} - a_{251} + a_{153} - \\
& a_{368} + a_{375} + a_{381} + a_{384} + a_{387} - 2a_{429} - \\
& a_{443} + a_{455} + a_{485} - a_{887} - a_{893} - a_{896} - \\
& a_{899} + a_{915} - a_{921} + a_{923} + 2a_{942} + a_{955} + \\
& 2a_{960} + 2a_{962} + a_{966} - a_{967} + a_{980} + a_{983} + \\
& a_{988} - a_{997} - a_{1008} + 2a_{1009} + a_{537} - 2a_{557} - \\
& a_{571} + a_{573} + a_{588} + a_{595} \\
a_{1899} &= \frac{a_{875} + \sqrt{a_{875}^2 - 4x}}{2} \\
x &= 2a_{110} + a_{124} - 2a_{238} + a_{241} - a_{252} + a_{154} - \\
& a_{369} + a_{376} + a_{382} + a_{385} + a_{388} - 2a_{430} - \\
& a_{444} + a_{456} + a_{486} - a_{888} - a_{894} - a_{897} - \\
& a_{900} + a_{916} - a_{922} + a_{924} + 2a_{943} + a_{956} + \\
& 2a_{961} + 2a_{963} + a_{967} - a_{968} + a_{981} + a_{984} + \\
& a_{989} - a_{998} - a_{1009} + 2a_{1010} + a_{538} - 2a_{558} - \\
& a_{572} + a_{574} + a_{589} + a_{596} \\
a_{1900} &= \frac{a_{876} - \sqrt{a_{876}^2 - 4x}}{2} \\
x &= 2a_{113} + a_{63} - 2a_{241} + a_{244} - a_{127} + a_{157} - \\
& a_{372} + a_{379} + a_{385} + a_{388} + a_{391} - 2a_{433} - \\
& a_{447} + a_{459} + a_{489} - a_{891} - a_{897} - a_{900} - \\
& a_{903} + a_{919} - a_{925} + a_{927} + 2a_{946} + a_{959} + \\
& 2a_{964} + 2a_{966} + a_{970} - a_{971} + a_{984} + a_{987} + \\
& a_{992} - a_{1001} - a_{1012} + 2a_{1013} + a_{541} - 2a_{561} - \\
& a_{575} + a_{577} + a_{592} + a_{599} \\
a_{1903} &= \frac{a_{879} - \sqrt{a_{879}^2 - 4x}}{2} \\
x &= 2a_{114} + a_{64} - 2a_{242} + a_{245} - a_{128} + a_{158} - \\
& a_{373} + a_{380} + a_{386} + a_{389} + a_{392} - 2a_{434} - \\
& a_{448} + a_{460} + a_{490} - a_{892} - a_{898} - a_{901} - \\
& a_{904} + a_{920} - a_{926} + a_{928} + 2a_{947} + a_{960} + \\
& 2a_{965} + 2a_{967} + a_{971} - a_{972} + a_{985} + a_{988} + \\
& a_{993} - a_{1002} - a_{1013} + 2a_{1014} + a_{542} - 2a_{562} - \\
& a_{576} + a_{578} + a_{593} + a_{600} \\
a_{1904} &= \frac{a_{880} + \sqrt{a_{880}^2 - 4x}}{2} \\
x &= 2a_{120} + a_{70} - 2a_{248} + a_{251} - a_{134} + a_{164} - \\
& a_{379} + a_{386} + a_{392} + a_{395} + a_{398} - 2a_{440} - \\
& a_{454} + a_{466} + a_{496} - a_{898} - a_{904} - a_{907} - \\
& a_{910} + a_{926} - a_{932} + a_{934} + 2a_{953} + a_{966} + \\
& 2a_{971} + 2a_{973} + a_{977} - a_{978} + a_{991} + a_{994} + \\
& a_{999} - a_{1008} - a_{1019} + 2a_{1020} + a_{548} - 2a_{568} - \\
& a_{582} + a_{584} + a_{599} + a_{606} \\
a_{1910} &= \frac{a_{886} + \sqrt{a_{886}^2 - 4x}}{2} \\
x &= 2a_{121} + a_{71} - 2a_{249} + a_{252} - a_{135} + a_{165} - \\
& a_{380} + a_{387} + a_{393} + a_{396} + a_{399} - 2a_{441} - \\
& a_{455} + a_{467} + a_{497} - a_{899} - a_{905} - a_{908} - \\
& a_{911} + a_{927} - a_{933} + a_{935} + 2a_{954} + a_{967} + \\
& 2a_{972} + 2a_{974} + a_{978} - a_{979} + a_{992} + a_{995} + \\
& a_{1000} - a_{1009} - a_{1020} + 2a_{1021} + a_{549} - 2a_{569} - \\
& a_{583} + a_{585} + a_{600} + a_{607} \\
a_{1911} &= \frac{a_{887} - \sqrt{a_{887}^2 - 4x}}{2} \\
x &= 2a_{123} + a_{73} - 2a_{251} + a_{254} - a_{137} + a_{167} - \\
& a_{382} + a_{389} + a_{395} + a_{398} + a_{401} - 2a_{443} - \\
& a_{457} + a_{469} + a_{499} - a_{901} - a_{907} - a_{910} - \\
& a_{913} + a_{929} - a_{935} + a_{937} + 2a_{956} + a_{969} + \\
& 2a_{974} + 2a_{976} + a_{980} - a_{981} + a_{994} + a_{997} + \\
& a_{1002} - a_{1011} - a_{1022} + 2a_{511} + a_{551} - 2a_{571} - \\
& a_{585} + a_{587} + a_{602} + a_{609} \\
a_{1913} &= \frac{a_{889} + \sqrt{a_{889}^2 - 4x}}{2} \\
x &= 2a_{124} + a_{74} - 2a_{252} + a_{127} - a_{138} + a_{168} - \\
& a_{383} + a_{390} + a_{396} + a_{399} + a_{402} - 2a_{444} - \\
& a_{458} + a_{470} + a_{500} - a_{902} - a_{908} - a_{911} - \\
& a_{914} + a_{930} - a_{936} + a_{938} + 2a_{957} + a_{970} + \\
& 2a_{975} + 2a_{977} + a_{981} - a_{982} + a_{995} + a_{998} + \\
& a_{1003} - a_{1012} - a_{511} + 2a_{512} + a_{552} - 2a_{572} - \\
& a_{586} + a_{588} + a_{603} + a_{610} \\
a_{1914} &= \frac{a_{890} - \sqrt{a_{890}^2 - 4x}}{2} \\
x &= 2a_{125} + a_{75} - 2a_{253} + a_{128} - a_{139} + a_{169} - \\
& a_{384} + a_{391} + a_{397} + a_{400} + a_{403} - 2a_{445} - \\
& a_{459} + a_{471} + a_{501} - a_{903} - a_{909} - a_{912} - \\
& a_{915} + a_{931} - a_{937} + a_{939} + 2a_{958} + a_{971} + \\
& 2a_{976} + 2a_{978} + a_{982} - a_{983} + a_{996} + a_{999} +
\end{aligned}
$$

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\begin{aligned}
& a_{1004} - a_{1013} - a_{512} + 2a_{513} + a_{553} - 2a_{573} - \\
& a_{587} + a_{589} + a_{604} + a_{611} \\
a_{1915} &= \frac{a_{891} - \sqrt{a_{891}^2 - 4x}}{2} \\
x &= 2a_{126} + a_{76} - 2a_{254} + a_{129} - a_{140} + a_{170} - \\
& a_{385} + a_{392} + a_{398} + a_{401} + a_{404} - 2a_{446} - \\
& a_{460} + a_{472} + a_{502} - a_{904} - a_{910} - a_{913} - \\
& a_{916} + a_{932} - a_{938} + a_{940} + 2a_{959} + a_{972} + \\
& 2a_{977} + 2a_{979} + a_{983} - a_{984} + a_{997} + a_{1000} + \\
& a_{1005} - a_{1014} - a_{513} + 2a_{514} + a_{554} - 2a_{574} - \\
& a_{588} + a_{590} + a_{605} + a_{612} \\
a_{1916} &= \frac{a_{892} - \sqrt{a_{892}^2 - 4x}}{2} \\
x &= 2a_{63} + a_{77} - 2a_{127} + a_{130} - a_{141} + a_{171} - \\
& a_{386} + a_{393} + a_{399} + a_{402} + a_{405} - 2a_{447} - \\
& a_{461} + a_{473} + a_{503} - a_{905} - a_{911} - a_{914} - \\
& a_{917} + a_{933} - a_{939} + a_{941} + 2a_{960} + a_{973} + \\
& 2a_{978} + 2a_{980} + a_{984} - a_{985} + a_{998} + a_{1001} + \\
& a_{1006} - a_{1015} - a_{514} + 2a_{515} + a_{555} - 2a_{575} - \\
& a_{589} + a_{591} + a_{606} + a_{613} \\
a_{1917} &= \frac{a_{893} - \sqrt{a_{893}^2 - 4x}}{2} \\
x &= 2a_{64} + a_{78} - 2a_{128} + a_{131} - a_{142} + a_{172} - \\
& a_{387} + a_{394} + a_{400} + a_{403} + a_{406} - 2a_{448} - \\
& a_{462} + a_{474} + a_{504} - a_{906} - a_{912} - a_{915} - \\
& a_{918} + a_{934} - a_{940} + a_{942} + 2a_{961} + a_{974} + \\
& 2a_{979} + 2a_{981} + a_{985} - a_{986} + a_{999} + a_{1002} + \\
& a_{1007} - a_{1016} - a_{515} + 2a_{516} + a_{556} - 2a_{576} - \\
& a_{590} + a_{592} + a_{607} + a_{614} \\
a_{1918} &= \frac{a_{894} - \sqrt{a_{894}^2 - 4x}}{2} \\
x &= 2a_{66} + a_{80} - 2a_{130} + a_{133} - a_{144} + a_{174} - \\
& a_{389} + a_{396} + a_{402} + a_{405} + a_{408} - 2a_{450} - \\
& a_{464} + a_{476} + a_{506} - a_{908} - a_{914} - a_{917} - \\
& a_{920} + a_{936} - a_{942} + a_{944} + 2a_{963} + a_{976} + \\
& 2a_{981} + 2a_{983} + a_{987} - a_{988} + a_{1001} + a_{1004} + \\
& a_{1009} - a_{1018} - a_{517} + 2a_{518} + a_{558} - 2a_{578} - \\
& a_{592} + a_{594} + a_{609} + a_{616} \\
a_{1920} &= \frac{a_{896} - \sqrt{a_{896}^2 - 4x}}{2} \\
x &= 2a_{67} + a_{81} - 2a_{131} + a_{134} - a_{145} + a_{175} - \\
& a_{390} + a_{397} + a_{403} + a_{406} + a_{409} - 2a_{451} - \\
& a_{465} + a_{477} + a_{507} - a_{909} - a_{915} - a_{918} - \\
& a_{921} + a_{937} - a_{943} + a_{945} + 2a_{964} + a_{977} + \\
& 2a_{982} + 2a_{984} + a_{988} - a_{989} + a_{1002} + a_{1005} + \\
& a_{1010} - a_{1019} - a_{518} + 2a_{519} + a_{559} - 2a_{579} - \\
& a_{593} + a_{595} + a_{610} + a_{617} \\
a_{1921} &= \frac{a_{897} - \sqrt{a_{897}^2 - 4x}}{2} \\
x &= 2a_{68} + a_{82} - 2a_{132} + a_{135} - a_{146} + a_{176} - \\
& a_{391} + a_{398} + a_{404} + a_{407} + a_{410} - 2a_{452} - \\
& a_{466} + a_{478} + a_{508} - a_{910} - a_{916} - a_{919} - \\
& a_{922} + a_{938} - a_{944} + a_{946} + 2a_{965} + a_{978} + \\
& 2a_{983} + 2a_{985} + a_{989} - a_{990} + a_{1003} + a_{1006} + \\
& a_{1011} - a_{1020} - a_{519} + 2a_{520} + a_{560} - 2a_{580} - \\
& a_{594} + a_{596} + a_{611} + a_{618} \\
a_{1922} &= \frac{a_{898} + \sqrt{a_{898}^2 - 4x}}{2} \\
x &= 2a_{69} + a_{83} - 2a_{133} + a_{136} - a_{147} + a_{177} - \\
& a_{392} + a_{399} + a_{405} + a_{408} + a_{411} - 2a_{453} - \\
& a_{467} + a_{479} + a_{509} - a_{911} - a_{917} - a_{920} - \\
& a_{923} + a_{939} - a_{945} + a_{947} + 2a_{966} + a_{979} + \\
& 2a_{984} + 2a_{986} + a_{990} - a_{991} + a_{1004} + a_{1007} + \\
& a_{1012} - a_{1021} - a_{520} + 2a_{521} + a_{561} - 2a_{581} - \\
& a_{595} + a_{597} + a_{612} + a_{619} \\
a_{1923} &= \frac{a_{899} - \sqrt{a_{899}^2 - 4x}}{2} \\
x &= 2a_{73} + a_{87} - 2a_{137} + a_{140} - a_{151} + a_{181} - \\
& a_{396} + a_{403} + a_{409} + a_{412} + a_{415} - 2a_{457} - \\
& a_{471} + a_{483} + a_{257} - a_{915} - a_{921} - a_{924} - \\
& a_{927} + a_{943} - a_{949} + a_{951} + 2a_{970} + a_{983} + \\
& 2a_{988} + 2a_{990} + a_{994} - a_{995} + a_{1008} + a_{1011} + \\
& a_{1016} - a_{513} - a_{524} + 2a_{525} + a_{565} - 2a_{585} - \\
& a_{599} + a_{601} + a_{616} + a_{623} \\
a_{1927} &= \frac{a_{903} - \sqrt{a_{903}^2 - 4x}}{2} \\
x &= 2a_{74} + a_{88} - 2a_{138} + a_{141} - a_{152} + a_{182} - \\
& a_{397} + a_{404} + a_{410} + a_{413} + a_{416} - 2a_{458} - \\
& a_{472} + a_{484} + a_{258} - a_{916} - a_{922} - a_{925} - \\
& a_{928} + a_{944} - a_{950} + a_{952} + 2a_{971} + a_{984} + \\
& 2a_{989} + 2a_{991} + a_{995} - a_{996} + a_{1009} + a_{1012} + \\
& a_{1017} - a_{514} - a_{525} + 2a_{526} + a_{566} - 2a_{586} - \\
& a_{600} + a_{602} + a_{617} + a_{624} \\
a_{1928} &= \frac{a_{904} + \sqrt{a_{904}^2 - 4x}}{2} \\
x &= 2a_{75} + a_{89} - 2a_{139} + a_{142} - a_{153} + a_{183} - \\
& a_{398} + a_{405} + a_{411} + a_{414} + a_{417} - 2a_{459} - \\
& a_{473} + a_{485} + a_{259} - a_{917} - a_{923} - a_{926} - \\
& a_{929} + a_{945} - a_{951} + a_{953} + 2a_{972} + a_{985} + \\
& 2a_{990} + 2a_{992} + a_{996} - a_{997} + a_{1010} + a_{1013} + \\
& a_{1018} - a_{515} - a_{526} + 2a_{527} + a_{567} - 2a_{587} - \\
& a_{601} + a_{603} + a_{618} + a_{625} \\
a_{1929} &= \frac{a_{905} - \sqrt{a_{905}^2 - 4x}}{2} \\
x &= 2a_{76} + a_{90} - 2a_{140} + a_{143} - a_{154} + a_{184} - \\
& a_{399} + a_{406} + a_{412} + a_{415} + a_{418} - 2a_{460} - \\
& a_{474} + a_{486} + a_{260} - a_{918} - a_{924} - a_{927} - \\
& a_{930} + a_{946} - a_{952} + a_{954} + 2a_{973} + a_{986} + \\
& 2a_{991} + 2a_{993} + a_{997} - a_{998} + a_{1011} + a_{1014} +
\end{aligned}
$$

$$
\begin{aligned}
& a_{1019} - a_{516} - a_{527} + 2a_{528} + a_{568} - 2a_{588} - \\
& a_{602} + a_{604} + a_{619} + a_{626} \\
a_{1930} &= \frac{a_{906} - \sqrt{a_{906}^2 - 4x}}{2} \\
x &= 2a_{79} + a_{93} - 2a_{143} + a_{146} - a_{157} + a_{187} - \\
& a_{402} + a_{409} + a_{415} + a_{418} + a_{421} - 2a_{463} - \\
& a_{477} + a_{489} + a_{263} - a_{921} - a_{927} - a_{930} - \\
& a_{933} + a_{949} - a_{955} + a_{957} + 2a_{976} + a_{989} + \\
& 2a_{994} + 2a_{996} + a_{1000} - a_{1001} + a_{1014} + a_{1017} + \\
& a_{1022} - a_{519} - a_{530} + 2a_{531} + a_{571} - 2a_{591} - \\
& a_{605} + a_{607} + a_{622} + a_{629} \\
a_{1933} &= \frac{a_{909} + \sqrt{a_{909}^2 - 4x}}{2} \\
x &= 2a_{80} + a_{94} - 2a_{144} + a_{147} - a_{158} + a_{188} - \\
& a_{403} + a_{410} + a_{416} + a_{419} + a_{422} - 2a_{464} - \\
& a_{478} + a_{490} + a_{264} - a_{922} - a_{928} - a_{931} - \\
& a_{934} + a_{950} - a_{956} + a_{958} + 2a_{977} + a_{990} + \\
& 2a_{995} + 2a_{997} + a_{1001} - a_{1002} + a_{1015} + a_{1018} + \\
& a_{511} - a_{520} - a_{531} + 2a_{532} + a_{572} - 2a_{592} - \\
& a_{606} + a_{608} + a_{623} + a_{630} \\
a_{1934} &= \frac{a_{910} - \sqrt{a_{910}^2 - 4x}}{2} \\
x &= 2a_{82} + a_{96} - 2a_{146} + a_{149} - a_{160} + a_{190} - \\
& a_{405} + a_{412} + a_{418} + a_{421} + a_{424} - 2a_{466} - \\
& a_{480} + a_{492} + a_{266} - a_{924} - a_{930} - a_{933} - \\
& a_{936} + a_{952} - a_{958} + a_{960} + 2a_{979} + a_{992} + \\
& 2a_{997} + 2a_{999} + a_{1003} - a_{1004} + a_{1017} + a_{1020} + \\
& a_{513} - a_{522} - a_{533} + 2a_{534} + a_{574} - 2a_{594} - \\
& a_{608} + a_{610} + a_{625} + a_{632} \\
a_{1936} &= \frac{a_{912} + \sqrt{a_{912}^2 - 4x}}{2} \\
x &= 2a_{83} + a_{97} - 2a_{147} + a_{150} - a_{161} + a_{191} - \\
& a_{406} + a_{413} + a_{419} + a_{422} + a_{425} - 2a_{467} - \\
& a_{481} + a_{493} + a_{267} - a_{925} - a_{931} - a_{934} - \\
& a_{937} + a_{953} - a_{959} + a_{961} + 2a_{980} + a_{993} + \\
& 2a_{998} + 2a_{1000} + a_{1004} - a_{1005} + a_{1018} + a_{1021} + \\
& a_{514} - a_{523} - a_{534} + 2a_{535} + a_{575} - 2a_{595} - \\
& a_{609} + a_{611} + a_{626} + a_{633} \\
a_{1937} &= \frac{a_{913} + \sqrt{a_{913}^2 - 4x}}{2} \\
x &= 2a_{84} + a_{98} - 2a_{148} + a_{151} - a_{162} + a_{192} - \\
& a_{407} + a_{414} + a_{420} + a_{423} + a_{426} - 2a_{468} - \\
& a_{482} + a_{494} + a_{268} - a_{926} - a_{932} - a_{935} - \\
& a_{938} + a_{954} - a_{960} + a_{962} + 2a_{981} + a_{994} + \\
& 2a_{999} + 2a_{1001} + a_{1005} - a_{1006} + a_{1019} + a_{1022} + \\
& a_{515} - a_{524} - a_{535} + 2a_{536} + a_{576} - 2a_{596} - \\
& a_{610} + a_{612} + a_{627} + a_{634} \\
a_{1938} &= \frac{a_{914} + \sqrt{a_{914}^2 - 4x}}{2} \\
x &= 2a_{85} + a_{99} - 2a_{149} + a_{152} - a_{163} + a_{193} - \\
& a_{408} + a_{415} + a_{421} + a_{424} + a_{427} - 2a_{469} - \\
& a_{483} + a_{495} + a_{269} - a_{927} - a_{933} - a_{936} - \\
& a_{939} + a_{955} - a_{961} + a_{963} + 2a_{982} + a_{995} + \\
& 2a_{1000} + 2a_{1002} + a_{1006} - a_{1007} + a_{1020} + a_{511} + \\
& a_{516} - a_{525} - a_{536} + 2a_{537} + a_{577} - 2a_{597} - \\
& a_{611} + a_{613} + a_{628} + a_{635} \\
a_{1939} &= \frac{a_{915} - \sqrt{a_{915}^2 - 4x}}{2} \\
x &= 2a_{87} + a_{101} - 2a_{151} + a_{154} - a_{165} + a_{195} - \\
& a_{410} + a_{417} + a_{423} + a_{426} + a_{429} - 2a_{471} - \\
& a_{485} + a_{497} + a_{271} - a_{929} - a_{935} - a_{938} - \\
& a_{941} + a_{957} - a_{963} + a_{965} + 2a_{984} + a_{997} + \\
& 2a_{1002} + 2a_{1004} + a_{1008} - a_{1009} + a_{1022} + a_{513} + \\
& a_{518} - a_{527} - a_{538} + 2a_{539} + a_{579} - 2a_{599} - \\
& a_{613} + a_{615} + a_{630} + a_{637} \\
a_{1941} &= \frac{a_{917} + \sqrt{a_{917}^2 - 4x}}{2} \\
x &= 2a_{89} + a_{103} - 2a_{153} + a_{156} - a_{167} + a_{197} - \\
& a_{412} + a_{419} + a_{425} + a_{428} + a_{431} - 2a_{473} - \\
& a_{487} + a_{499} + a_{273} - a_{931} - a_{937} - a_{940} - \\
& a_{943} + a_{959} - a_{965} + a_{967} + 2a_{986} + a_{999} + \\
& 2a_{1004} + 2a_{1006} + a_{1010} - a_{1011} + a_{512} + a_{515} + \\
& a_{520} - a_{529} - a_{540} + 2a_{541} + a_{581} - 2a_{601} - \\
& a_{615} + a_{617} + a_{632} + a_{639} \\
a_{1943} &= \frac{a_{919} - \sqrt{a_{919}^2 - 4x}}{2} \\
x &= 2a_{92} + a_{106} - 2a_{156} + a_{159} - a_{170} + a_{200} - \\
& a_{415} + a_{422} + a_{428} + a_{431} + a_{434} - 2a_{476} - \\
& a_{490} + a_{502} + a_{276} - a_{934} - a_{940} - a_{943} - \\
& a_{946} + a_{962} - a_{968} + a_{970} + 2a_{989} + a_{1002} + \\
& 2a_{1007} + 2a_{1009} + a_{1013} - a_{1014} + a_{515} + a_{518} + \\
& a_{523} - a_{532} - a_{543} + 2a_{544} + a_{584} - 2a_{604} - \\
& a_{618} + a_{620} + a_{635} + a_{642} \\
a_{1946} &= \frac{a_{922} - \sqrt{a_{922}^2 - 4x}}{2} \\
x &= 2a_{95} + a_{109} - 2a_{159} + a_{162} - a_{173} + a_{203} - \\
& a_{418} + a_{425} + a_{431} + a_{434} + a_{437} - 2a_{479} - \\
& a_{493} + a_{505} + a_{279} - a_{937} - a_{943} - a_{946} - \\
& a_{949} + a_{965} - a_{971} + a_{973} + 2a_{992} + a_{1005} + \\
& 2a_{1010} + 2a_{1012} + a_{1016} - a_{1017} + a_{518} + a_{521} + \\
& a_{526} - a_{535} - a_{546} + 2a_{547} + a_{587} - 2a_{607} - \\
& a_{621} + a_{623} + a_{638} + a_{645} \\
a_{1949} &= \frac{a_{925} - \sqrt{a_{925}^2 - 4x}}{2} \\
x &= 2a_{96} + a_{110} - 2a_{160} + a_{163} - a_{174} + a_{204} - \\
& a_{419} + a_{426} + a_{432} + a_{435} + a_{438} - 2a_{480} - \\
& a_{494} + a_{506} + a_{280} - a_{938} - a_{944} - a_{947} - \\
& a_{950} + a_{966} - a_{972} + a_{974} + 2a_{993} + a_{1006} + \\
& 2a_{1011} + 2a_{1013} + a_{1017} - a_{1018} + a_{519} + a_{522} +
\end{aligned}
$$

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\begin{aligned}
& a_{527} - a_{536} - a_{547} + 2a_{548} + a_{588} - 2a_{608} - \\
& a_{622} + a_{624} + a_{639} + a_{646} \\
a_{1950} &= \frac{a_{926} + \sqrt{a_{926}^2 - 4x}}{2} \\
x &= 2a_{97} + a_{111} - 2a_{161} + a_{164} - a_{175} + a_{205} - \\
& a_{420} + a_{427} + a_{433} + a_{436} + a_{439} - 2a_{481} - \\
& a_{495} + a_{507} + a_{281} - a_{939} - a_{945} - a_{948} - \\
& a_{951} + a_{967} - a_{973} + a_{975} + 2a_{994} + a_{1007} + \\
& 2a_{1012} + 2a_{1014} + a_{1018} - a_{1019} + a_{520} + a_{523} + \\
& a_{528} - a_{537} - a_{548} + 2a_{549} + a_{589} - 2a_{609} - \\
& a_{623} + a_{625} + a_{640} + a_{647} \\
a_{1951} &= \frac{a_{927} + \sqrt{a_{927}^2 - 4x}}{2} \\
x &= 2a_{98} + a_{112} - 2a_{162} + a_{165} - a_{176} + a_{206} - \\
& a_{421} + a_{428} + a_{434} + a_{437} + a_{440} - 2a_{482} - \\
& a_{496} + a_{508} + a_{282} - a_{940} - a_{946} - a_{949} - \\
& a_{952} + a_{968} - a_{974} + a_{976} + 2a_{995} + a_{1008} + \\
& 2a_{1013} + 2a_{1015} + a_{1019} - a_{1020} + a_{521} + a_{524} + \\
& a_{529} - a_{538} - a_{549} + 2a_{550} + a_{590} - 2a_{610} - \\
& a_{624} + a_{626} + a_{641} + a_{648} \\
a_{1952} &= \frac{a_{928} - \sqrt{a_{928}^2 - 4x}}{2} \\
x &= 2a_{99} + a_{113} - 2a_{163} + a_{166} - a_{177} + a_{207} - \\
& a_{422} + a_{429} + a_{435} + a_{438} + a_{441} - 2a_{483} - \\
& a_{497} + a_{509} + a_{283} - a_{941} - a_{947} - a_{950} - \\
& a_{953} + a_{969} - a_{975} + a_{977} + 2a_{996} + a_{1009} + \\
& 2a_{1014} + 2a_{1016} + a_{1020} - a_{1021} + a_{522} + a_{525} + \\
& a_{530} - a_{539} - a_{550} + 2a_{551} + a_{591} - 2a_{611} - \\
& a_{625} + a_{627} + a_{642} + a_{649} \\
a_{1953} &= \frac{a_{929} - \sqrt{a_{929}^2 - 4x}}{2} \\
x &= 2a_{100} + a_{114} - 2a_{164} + a_{167} - a_{178} + a_{208} - \\
& a_{423} + a_{430} + a_{436} + a_{439} + a_{442} - 2a_{484} - \\
& a_{498} + a_{510} + a_{284} - a_{942} - a_{948} - a_{951} - \\
& a_{954} + a_{970} - a_{976} + a_{978} + 2a_{997} + a_{1010} + \\
& 2a_{1015} + 2a_{1017} + a_{1021} - a_{1022} + a_{523} + a_{526} + \\
& a_{531} - a_{540} - a_{551} + 2a_{552} + a_{592} - 2a_{612} - \\
& a_{626} + a_{628} + a_{643} + a_{650}
\end{aligned}
$$

$$
\begin{aligned}
a_{1954} &= \frac{a_{930} + \sqrt{a_{930}^2 - 4x}}{2} \\
x &= 2a_{101} + a_{115} - 2a_{165} + a_{168} - a_{179} + a_{209} - \\
& a_{424} + a_{431} + a_{437} + a_{440} + a_{443} - 2a_{485} - \\
& a_{499} + a_{255} + a_{285} - a_{943} - a_{949} - a_{952} - \\
& a_{955} + a_{971} - a_{977} + a_{979} + 2a_{998} + a_{1011} + \\
& 2a_{1016} + 2a_{1018} + a_{1022} - a_{511} + a_{524} + a_{527} + \\
& a_{532} - a_{541} - a_{552} + 2a_{553} + a_{593} - 2a_{613} - \\
& a_{627} + a_{629} + a_{644} + a_{651} \\
a_{1955} &= \frac{a_{931} + \sqrt{a_{931}^2 - 4x}}{2}
\end{aligned}
$$

$$
\begin{aligned}
x &= 2a_{102} + a_{116} - 2a_{166} + a_{169} - a_{180} + a_{210} - \\
& a_{425} + a_{432} + a_{438} + a_{441} + a_{444} - 2a_{486} - \\
& a_{500} + a_{256} + a_{286} - a_{944} - a_{950} - a_{953} - \\
& a_{956} + a_{972} - a_{978} + a_{980} + 2a_{999} + a_{1012} + \\
& 2a_{1017} + 2a_{1019} + a_{511} - a_{512} + a_{525} + a_{528} + \\
& a_{533} - a_{542} - a_{553} + 2a_{554} + a_{594} - 2a_{614} - \\
& a_{628} + a_{630} + a_{645} + a_{652} \\
a_{1956} &= \frac{a_{932} + \sqrt{a_{932}^2 - 4x}}{2} \\
x &= 2a_{103} + a_{117} - 2a_{167} + a_{170} - a_{181} + a_{211} - \\
& a_{426} + a_{433} + a_{439} + a_{442} + a_{445} - 2a_{487} - \\
& a_{501} + a_{257} + a_{287} - a_{945} - a_{951} - a_{954} - \\
& a_{957} + a_{973} - a_{979} + a_{981} + 2a_{1000} + a_{1013} + \\
& 2a_{1018} + 2a_{1020} + a_{512} - a_{513} + a_{526} + a_{529} + \\
& a_{534} - a_{543} - a_{554} + 2a_{555} + a_{595} - 2a_{615} - \\
& a_{629} + a_{631} + a_{646} + a_{653} \\
a_{1957} &= \frac{a_{933} - \sqrt{a_{933}^2 - 4x}}{2} \\
x &= 2a_{104} + a_{118} - 2a_{168} + a_{171} - a_{182} + a_{212} - \\
& a_{427} + a_{434} + a_{440} + a_{443} + a_{446} - 2a_{488} - \\
& a_{502} + a_{258} + a_{288} - a_{946} - a_{952} - a_{955} - \\
& a_{958} + a_{974} - a_{980} + a_{982} + 2a_{1001} + a_{1014} + \\
& 2a_{1019} + 2a_{1021} + a_{513} - a_{514} + a_{527} + a_{530} + \\
& a_{535} - a_{544} - a_{555} + 2a_{556} + a_{596} - 2a_{616} - \\
& a_{630} + a_{632} + a_{647} + a_{654} \\
a_{1958} &= \frac{a_{934} - \sqrt{a_{934}^2 - 4x}}{2} \\
x &= 2a_{105} + a_{119} - 2a_{169} + a_{172} - a_{183} + a_{213} - \\
& a_{428} + a_{435} + a_{441} + a_{444} + a_{447} - 2a_{489} - \\
& a_{503} + a_{259} + a_{289} - a_{947} - a_{953} - a_{956} - \\
& a_{959} + a_{975} - a_{981} + a_{983} + 2a_{1002} + a_{1015} + \\
& 2a_{1020} + 2a_{1022} + a_{514} - a_{515} + a_{528} + a_{531} + \\
& a_{536} - a_{545} - a_{556} + 2a_{557} + a_{597} - 2a_{617} - \\
& a_{631} + a_{633} + a_{648} + a_{655} \\
a_{1959} &= \frac{a_{935} + \sqrt{a_{935}^2 - 4x}}{2} \\
x &= 2a_{106} + a_{120} - 2a_{170} + a_{173} - a_{184} + a_{214} - \\
& a_{429} + a_{436} + a_{442} + a_{445} + a_{448} - 2a_{490} - \\
& a_{504} + a_{260} + a_{290} - a_{948} - a_{954} - a_{957} - \\
& a_{960} + a_{976} - a_{982} + a_{984} + 2a_{1003} + a_{1016} + \\
& 2a_{1021} + 2a_{511} + a_{515} - a_{516} + a_{529} + a_{532} + \\
& a_{537} - a_{546} - a_{557} + 2a_{558} + a_{598} - 2a_{618} - \\
& a_{632} + a_{634} + a_{649} + a_{656} \\
a_{1960} &= \frac{a_{936} - \sqrt{a_{936}^2 - 4x}}{2} \\
x &= 2a_{107} + a_{121} - 2a_{171} + a_{174} - a_{185} + a_{215} - \\
& a_{430} + a_{437} + a_{443} + a_{446} + a_{449} - 2a_{491} - \\
& a_{505} + a_{261} + a_{291} - a_{949} - a_{955} - a_{958} - \\
& a_{961} + a_{977} - a_{983} + a_{985} + 2a_{1004} + a_{1017} + \\
& 2a_{1022} + 2a_{512} + a_{516} - a_{517} + a_{530} + a_{533} +
\end{aligned}
$$

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\begin{aligned}
& a_{538} - a_{547} - a_{558} + 2a_{559} + a_{599} - 2a_{619} - \\
& a_{633} + a_{635} + a_{650} + a_{657} \\
a_{1961} &= \frac{a_{937} + \sqrt{a_{937}^2 - 4x}}{2} \\
x &= 2a_{108} + a_{122} - 2a_{172} + a_{175} - a_{186} + a_{216} - \\
& a_{431} + a_{438} + a_{444} + a_{447} + a_{450} - 2a_{492} - \\
& a_{506} + a_{262} + a_{292} - a_{950} - a_{956} - a_{959} - \\
& a_{962} + a_{978} - a_{984} + a_{986} + 2a_{1005} + a_{1018} + \\
& 2a_{511} + 2a_{513} + a_{517} - a_{518} + a_{531} + a_{534} + \\
& a_{539} - a_{548} - a_{559} + 2a_{560} + a_{600} - 2a_{620} - \\
& a_{634} + a_{636} + a_{651} + a_{658} \\
a_{1962} &= \frac{a_{938} + \sqrt{a_{938}^2 - 4x}}{2} \\
x &= 2a_{110} + a_{124} - 2a_{174} + a_{177} - a_{188} + a_{218} - \\
& a_{433} + a_{440} + a_{446} + a_{449} + a_{452} - 2a_{494} - \\
& a_{508} + a_{264} + a_{294} - a_{952} - a_{958} - a_{961} - \\
& a_{964} + a_{980} - a_{986} + a_{988} + 2a_{1007} + a_{1020} + \\
& 2a_{513} + 2a_{515} + a_{519} - a_{520} + a_{533} + a_{536} + \\
& a_{541} - a_{550} - a_{561} + 2a_{562} + a_{602} - 2a_{622} - \\
& a_{636} + a_{638} + a_{653} + a_{660} \\
a_{1964} &= \frac{a_{940} - \sqrt{a_{940}^2 - 4x}}{2} \\
x &= 2a_{112} + a_{126} - 2a_{176} + a_{179} - a_{190} + a_{220} - \\
& a_{435} + a_{442} + a_{448} + a_{451} + a_{454} - 2a_{496} - \\
& a_{510} + a_{266} + a_{296} - a_{954} - a_{960} - a_{963} - \\
& a_{966} + a_{982} - a_{988} + a_{990} + 2a_{1009} + a_{1022} + \\
& 2a_{515} + 2a_{517} + a_{521} - a_{522} + a_{535} + a_{538} + \\
& a_{543} - a_{552} - a_{563} + 2a_{564} + a_{604} - 2a_{624} - \\
& a_{638} + a_{640} + a_{655} + a_{662}
\end{aligned}
$$

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\begin{aligned}
a_{1966} &= \frac{a_{942} + \sqrt{a_{942}^2 - 4x}}{2} \\
x &= 2a_{113} + a_{63} - 2a_{177} + a_{180} - a_{191} + a_{221} - \\
& a_{436} + a_{443} + a_{449} + a_{452} + a_{455} - 2a_{497} - \\
& a_{255} + a_{267} + a_{297} - a_{955} - a_{961} - a_{964} - \\
& a_{967} + a_{983} - a_{989} + a_{991} + 2a_{1010} + a_{511} + \\
& 2a_{516} + 2a_{518} + a_{522} - a_{523} + a_{536} + a_{539} + \\
& a_{544} - a_{553} - a_{564} + 2a_{565} + a_{605} - 2a_{625} - \\
& a_{639} + a_{641} + a_{656} + a_{663} \\
a_{1967} &= \frac{a_{943} - \sqrt{a_{943}^2 - 4x}}{2} \\
x &= 2a_{118} + a_{68} - 2a_{182} + a_{185} - a_{196} + a_{226} - \\
& a_{441} + a_{448} + a_{454} + a_{457} + a_{460} - 2a_{502} - \\
& a_{260} + a_{272} + a_{302} - a_{960} - a_{966} - a_{969} - \\
& a_{972} + a_{988} - a_{994} + a_{996} + 2a_{1015} + a_{516} + \\
& 2a_{521} + 2a_{523} + a_{527} - a_{528} + a_{541} + a_{544} + \\
& a_{549} - a_{558} - a_{569} + 2a_{570} + a_{610} - 2a_{630} - \\
& a_{644} + a_{646} + a_{661} + a_{668} \\
a_{1972} &= \frac{a_{948} - \sqrt{a_{948}^2 - 4x}}{2}
\end{aligned}
$$

$$
\begin{aligned}
x &= 2a_{119} + a_{69} - 2a_{183} + a_{186} - a_{197} + a_{227} - \\
& a_{442} + a_{449} + a_{455} + a_{458} + a_{461} - 2a_{503} - \\
& a_{261} + a_{273} + a_{303} - a_{961} - a_{967} - a_{970} - \\
& a_{973} + a_{989} - a_{995} + a_{997} + 2a_{1016} + a_{517} + \\
& 2a_{522} + 2a_{524} + a_{528} - a_{529} + a_{542} + a_{545} + \\
& a_{550} - a_{559} - a_{570} + 2a_{571} + a_{611} - 2a_{631} - \\
& a_{645} + a_{647} + a_{662} + a_{669} \\
a_{1973} &= \frac{a_{949} + \sqrt{a_{949}^2 - 4x}}{2} \\
x &= 2a_{120} + a_{70} - 2a_{184} + a_{187} - a_{198} + a_{228} - \\
& a_{443} + a_{450} + a_{456} + a_{459} + a_{462} - 2a_{504} - \\
& a_{262} + a_{274} + a_{304} - a_{962} - a_{968} - a_{971} - \\
& a_{974} + a_{990} - a_{996} + a_{998} + 2a_{1017} + a_{518} + \\
& 2a_{523} + 2a_{525} + a_{529} - a_{530} + a_{543} + a_{546} + \\
& a_{551} - a_{560} - a_{571} + 2a_{572} + a_{612} - 2a_{632} - \\
& a_{646} + a_{648} + a_{663} + a_{670} \\
a_{1974} &= \frac{a_{950} - \sqrt{a_{950}^2 - 4x}}{2} \\
x &= 2a_{121} + a_{71} - 2a_{185} + a_{188} - a_{199} + a_{229} - \\
& a_{444} + a_{451} + a_{457} + a_{460} + a_{463} - 2a_{505} - \\
& a_{263} + a_{275} + a_{305} - a_{963} - a_{969} - a_{972} - \\
& a_{975} + a_{991} - a_{997} + a_{999} + 2a_{1018} + a_{519} + \\
& 2a_{524} + 2a_{526} + a_{530} - a_{531} + a_{544} + a_{547} + \\
& a_{552} - a_{561} - a_{572} + 2a_{573} + a_{613} - 2a_{633} - \\
& a_{647} + a_{649} + a_{664} + a_{671} \\
a_{1975} &= \frac{a_{951} + \sqrt{a_{951}^2 - 4x}}{2} \\
x &= 2a_{122} + a_{72} - 2a_{186} + a_{189} - a_{200} + a_{230} - \\
& a_{445} + a_{452} + a_{458} + a_{461} + a_{464} - 2a_{506} - \\
& a_{264} + a_{276} + a_{306} - a_{964} - a_{970} - a_{973} - \\
& a_{976} + a_{992} - a_{998} + a_{1000} + 2a_{1019} + a_{520} + \\
& 2a_{525} + 2a_{527} + a_{531} - a_{532} + a_{545} + a_{548} + \\
& a_{553} - a_{562} - a_{573} + 2a_{574} + a_{614} - 2a_{634} - \\
& a_{648} + a_{650} + a_{665} + a_{672} \\
a_{1976} &= \frac{a_{952} + \sqrt{a_{952}^2 - 4x}}{2} \\
x &= 2a_{123} + a_{73} - 2a_{187} + a_{190} - a_{201} + a_{231} - \\
& a_{446} + a_{453} + a_{459} + a_{462} + a_{465} - 2a_{507} - \\
& a_{265} + a_{277} + a_{307} - a_{965} - a_{971} - a_{974} - \\
& a_{977} + a_{993} - a_{999} + a_{1001} + 2a_{1020} + a_{521} + \\
& 2a_{526} + 2a_{528} + a_{532} - a_{533} + a_{546} + a_{549} + \\
& a_{554} - a_{563} - a_{574} + 2a_{575} + a_{615} - 2a_{635} - \\
& a_{649} + a_{651} + a_{666} + a_{673} \\
a_{1977} &= \frac{a_{953} + \sqrt{a_{953}^2 - 4x}}{2} \\
x &= 2a_{124} + a_{74} - 2a_{188} + a_{191} - a_{202} + a_{232} - \\
& a_{447} + a_{454} + a_{460} + a_{463} + a_{466} - 2a_{508} - \\
& a_{266} + a_{278} + a_{308} - a_{966} - a_{972} - a_{975} - \\
& a_{978} + a_{994} - a_{1000} + a_{1002} + 2a_{1021} + a_{522} + \\
& 2a_{527} + 2a_{529} + a_{533} - a_{534} + a_{547} + a_{550} +
\end{aligned}
$$

$$
\begin{aligned}
& a_{555} - a_{564} - a_{575} + 2a_{576} + a_{616} - 2a_{636} - \\
& a_{650} + a_{652} + a_{667} + a_{674} \\
a_{1978} &= \frac{a_{954} - \sqrt{a_{954}^2 - 4x}}{2} \\
x &= 2a_{125} + a_{75} - 2a_{189} + a_{192} - a_{203} + a_{233} - \\
& a_{448} + a_{455} + a_{461} + a_{464} + a_{467} - 2a_{509} - \\
& a_{267} + a_{279} + a_{309} - a_{967} - a_{973} - a_{976} - \\
& a_{979} + a_{995} - a_{1001} + a_{1003} + 2a_{1022} + a_{523} + \\
& 2a_{528} + 2a_{530} + a_{534} - a_{535} + a_{548} + a_{551} + \\
& a_{556} - a_{565} - a_{576} + 2a_{577} + a_{617} - 2a_{637} - \\
& a_{651} + a_{653} + a_{668} + a_{675} \\
a_{1979} &= \frac{a_{955} + \sqrt{a_{955}^2 - 4x}}{2} \\
x &= 2a_{126} + a_{76} - 2a_{190} + a_{193} - a_{204} + a_{234} - \\
& a_{449} + a_{456} + a_{462} + a_{465} + a_{468} - 2a_{510} - \\
& a_{268} + a_{280} + a_{310} - a_{968} - a_{974} - a_{977} - \\
& a_{980} + a_{996} - a_{1002} + a_{1004} + 2a_{511} + a_{524} + \\
& 2a_{529} + 2a_{531} + a_{535} - a_{536} + a_{549} + a_{552} + \\
& a_{557} - a_{566} - a_{577} + 2a_{578} + a_{618} - 2a_{638} - \\
& a_{652} + a_{654} + a_{669} + a_{676}
\end{aligned}
$$

$$
\begin{aligned}
a_{1980} &= \frac{a_{956} - \sqrt{a_{956}^2 - 4x}}{2} \\
x &= 2a_{63} + a_{77} - 2a_{191} + a_{194} - a_{205} + a_{235} - \\
& a_{450} + a_{457} + a_{463} + a_{466} + a_{469} - 2a_{255} - \\
& a_{269} + a_{281} + a_{311} - a_{969} - a_{975} - a_{978} - \\
& a_{981} + a_{997} - a_{1003} + a_{1005} + 2a_{512} + a_{525} + \\
& 2a_{530} + 2a_{532} + a_{536} - a_{537} + a_{550} + a_{553} + \\
& a_{558} - a_{567} - a_{578} + 2a_{579} + a_{619} - 2a_{639} - \\
& a_{653} + a_{655} + a_{670} + a_{677} \\
a_{1981} &= \frac{a_{957} - \sqrt{a_{957}^2 - 4x}}{2} \\
x &= 2a_{64} + a_{78} - 2a_{192} + a_{195} - a_{206} + a_{236} - \\
& a_{451} + a_{458} + a_{464} + a_{467} + a_{470} - 2a_{256} - \\
& a_{270} + a_{282} + a_{312} - a_{970} - a_{976} - a_{979} - \\
& a_{982} + a_{998} - a_{1004} + a_{1006} + 2a_{513} + a_{526} + \\
& 2a_{531} + 2a_{533} + a_{537} - a_{538} + a_{551} + a_{554} + \\
& a_{559} - a_{568} - a_{579} + 2a_{580} + a_{620} - 2a_{640} - \\
& a_{654} + a_{656} + a_{671} + a_{678} \\
a_{1982} &= \frac{a_{958} - \sqrt{a_{958}^2 - 4x}}{2} \\
x &= 2a_{65} + a_{79} - 2a_{193} + a_{196} - a_{207} + a_{237} - \\
& a_{452} + a_{459} + a_{465} + a_{468} + a_{471} - 2a_{257} - \\
& a_{271} + a_{283} + a_{313} - a_{971} - a_{977} - a_{980} - \\
& a_{983} + a_{999} - a_{1005} + a_{1007} + 2a_{514} + a_{527} + \\
& 2a_{532} + 2a_{534} + a_{538} - a_{539} + a_{552} + a_{555} + \\
& a_{560} - a_{569} - a_{580} + 2a_{581} + a_{621} - 2a_{641} - \\
& a_{655} + a_{657} + a_{672} + a_{679} \\
a_{1983} &= \frac{a_{959} - \sqrt{a_{959}^2 - 4x}}{2}
\end{aligned}
$$

$$
\begin{aligned}
x &= 2a_{66} + a_{80} - 2a_{194} + a_{197} - a_{208} + a_{238} - \\
& a_{453} + a_{460} + a_{466} + a_{469} + a_{472} - 2a_{258} - \\
& a_{272} + a_{284} + a_{314} - a_{972} - a_{978} - a_{981} - \\
& a_{984} + a_{1000} - a_{1006} + a_{1008} + 2a_{515} + a_{528} + \\
& 2a_{533} + 2a_{535} + a_{539} - a_{540} + a_{553} + a_{556} + \\
& a_{561} - a_{570} - a_{581} + 2a_{582} + a_{622} - 2a_{642} - \\
& a_{656} + a_{658} + a_{673} + a_{680} \\
a_{1984} &= \frac{a_{960} + \sqrt{a_{960}^2 - 4x}}{2} \\
x &= 2a_{67} + a_{81} - 2a_{195} + a_{198} - a_{209} + a_{239} - \\
& a_{454} + a_{461} + a_{467} + a_{470} + a_{473} - 2a_{259} - \\
& a_{273} + a_{285} + a_{315} - a_{973} - a_{979} - a_{982} - \\
& a_{985} + a_{1001} - a_{1007} + a_{1009} + 2a_{516} + a_{529} + \\
& 2a_{534} + 2a_{536} + a_{540} - a_{541} + a_{554} + a_{557} + \\
& a_{562} - a_{571} - a_{582} + 2a_{583} + a_{623} - 2a_{643} - \\
& a_{657} + a_{659} + a_{674} + a_{681} \\
a_{1985} &= \frac{a_{961} - \sqrt{a_{961}^2 - 4x}}{2} \\
x &= 2a_{69} + a_{83} - 2a_{197} + a_{200} - a_{211} + a_{241} - \\
& a_{456} + a_{463} + a_{469} + a_{472} + a_{475} - 2a_{261} - \\
& a_{275} + a_{287} + a_{317} - a_{975} - a_{981} - a_{984} - \\
& a_{987} + a_{1003} - a_{1009} + a_{1011} + 2a_{518} + a_{531} + \\
& 2a_{536} + 2a_{538} + a_{542} - a_{543} + a_{556} + a_{559} + \\
& a_{564} - a_{573} - a_{584} + 2a_{585} + a_{625} - 2a_{645} - \\
& a_{659} + a_{661} + a_{676} + a_{683} \\
a_{1987} &= \frac{a_{963} + \sqrt{a_{963}^2 - 4x}}{2} \\
x &= 2a_{72} + a_{86} - 2a_{200} + a_{203} - a_{214} + a_{244} - \\
& a_{459} + a_{466} + a_{472} + a_{475} + a_{478} - 2a_{264} - \\
& a_{278} + a_{290} + a_{320} - a_{978} - a_{984} - a_{987} - \\
& a_{990} + a_{1006} - a_{1012} + a_{1014} + 2a_{521} + a_{534} + \\
& 2a_{539} + 2a_{541} + a_{545} - a_{546} + a_{559} + a_{562} + \\
& a_{567} - a_{576} - a_{587} + 2a_{588} + a_{628} - 2a_{648} - \\
& a_{662} + a_{664} + a_{679} + a_{686} \\
a_{1990} &= \frac{a_{966} + \sqrt{a_{966}^2 - 4x}}{2} \\
x &= 2a_{73} + a_{87} - 2a_{201} + a_{204} - a_{215} + a_{245} - \\
& a_{460} + a_{467} + a_{473} + a_{476} + a_{479} - 2a_{265} - \\
& a_{279} + a_{291} + a_{321} - a_{979} - a_{985} - a_{988} - \\
& a_{991} + a_{1007} - a_{1013} + a_{1015} + 2a_{522} + a_{535} + \\
& 2a_{540} + 2a_{542} + a_{546} - a_{547} + a_{560} + a_{563} + \\
& a_{568} - a_{577} - a_{588} + 2a_{589} + a_{629} - 2a_{649} - \\
& a_{663} + a_{665} + a_{680} + a_{687} \\
a_{1991} &= \frac{a_{967} + \sqrt{a_{967}^2 - 4x}}{2} \\
x &= 2a_{74} + a_{88} - 2a_{202} + a_{205} - a_{216} + a_{246} - \\
& a_{461} + a_{468} + a_{474} + a_{477} + a_{480} - 2a_{266} - \\
& a_{280} + a_{292} + a_{322} - a_{980} - a_{986} - a_{989} - \\
& a_{992} + a_{1008} - a_{1014} + a_{1016} + 2a_{523} + a_{536} + \\
& 2a_{541} + 2a_{543} + a_{547} - a_{548} + a_{561} + a_{564} +
\end{aligned}
$$

$$
\begin{aligned}
& a_{569} - a_{578} - a_{589} + 2a_{590} + a_{630} - 2a_{650} - \\
& a_{664} + a_{666} + a_{681} + a_{688} \\
a_{1992} &= \frac{a_{968} + \sqrt{a_{968}^2 - 4x}}{2} \\
x &= 2a_{77} + a_{91} - 2a_{205} + a_{208} - a_{219} + a_{249} - \\
& a_{464} + a_{471} + a_{477} + a_{480} + a_{483} - 2a_{269} - \\
& a_{283} + a_{295} + a_{325} - a_{983} - a_{989} - a_{992} - \\
& a_{995} + a_{1011} - a_{1017} + a_{1019} + 2a_{526} + a_{539} + \\
& 2a_{544} + 2a_{546} + a_{550} - a_{551} + a_{564} + a_{567} + \\
& a_{572} - a_{581} - a_{592} + 2a_{593} + a_{633} - 2a_{653} - \\
& a_{667} + a_{669} + a_{684} + a_{691}
\end{aligned}
$$

$$
\begin{aligned}
a_{1995} &= \frac{a_{971} + \sqrt{a_{971}^2 - 4x}}{2} \\
x &= 2a_{78} + a_{92} - 2a_{206} + a_{209} - a_{220} + a_{250} - \\
& a_{465} + a_{472} + a_{478} + a_{481} + a_{484} - 2a_{270} - \\
& a_{284} + a_{296} + a_{326} - a_{984} - a_{990} - a_{993} - \\
& a_{996} + a_{1012} - a_{1018} + a_{1020} + 2a_{527} + a_{540} + \\
& 2a_{545} + 2a_{547} + a_{551} - a_{552} + a_{565} + a_{568} + \\
& a_{573} - a_{582} - a_{593} + 2a_{594} + a_{634} - 2a_{654} - \\
& a_{668} + a_{670} + a_{685} + a_{692} \\
a_{1996} &= \frac{a_{972} - \sqrt{a_{972}^2 - 4x}}{2} \\
x &= 2a_{79} + a_{93} - 2a_{207} + a_{210} - a_{221} + a_{251} - \\
& a_{466} + a_{473} + a_{479} + a_{482} + a_{485} - 2a_{271} - \\
& a_{285} + a_{297} + a_{327} - a_{985} - a_{991} - a_{994} - \\
& a_{997} + a_{1013} - a_{1019} + a_{1021} + 2a_{528} + a_{541} + \\
& 2a_{546} + 2a_{548} + a_{552} - a_{553} + a_{566} + a_{569} + \\
& a_{574} - a_{583} - a_{594} + 2a_{595} + a_{635} - 2a_{655} - \\
& a_{669} + a_{671} + a_{686} + a_{693} \\
a_{1997} &= \frac{a_{973} - \sqrt{a_{973}^2 - 4x}}{2} \\
x &= 2a_{84} + a_{98} - 2a_{212} + a_{215} - a_{226} + a_{128} - \\
& a_{471} + a_{478} + a_{484} + a_{487} + a_{490} - 2a_{276} - \\
& a_{290} + a_{302} + a_{332} - a_{990} - a_{996} - a_{999} - \\
& a_{1002} + a_{1018} - a_{512} + a_{514} + 2a_{533} + a_{546} + \\
& 2a_{551} + 2a_{553} + a_{557} - a_{558} + a_{571} + a_{574} + \\
& a_{579} - a_{588} - a_{599} + 2a_{600} + a_{640} - 2a_{660} - \\
& a_{674} + a_{676} + a_{691} + a_{698} \\
a_{2002} &= \frac{a_{978} + \sqrt{a_{978}^2 - 4x}}{2} \\
x &= 2a_{87} + a_{101} - 2a_{215} + a_{218} - a_{229} + a_{131} - \\
& a_{474} + a_{481} + a_{487} + a_{490} + a_{493} - 2a_{279} - \\
& a_{293} + a_{305} + a_{335} - a_{993} - a_{999} - a_{1002} - \\
& a_{1005} + a_{1021} - a_{515} + a_{517} + 2a_{536} + a_{549} + \\
& 2a_{554} + 2a_{556} + a_{560} - a_{561} + a_{574} + a_{577} + \\
& a_{582} - a_{591} - a_{602} + 2a_{603} + a_{643} - 2a_{663} - \\
& a_{677} + a_{679} + a_{694} + a_{701} \\
a_{2005} &= \frac{a_{981} + \sqrt{a_{981}^2 - 4x}}{2}
\end{aligned}
$$

$$
\begin{aligned}
x &= 2a_{88} + a_{102} - 2a_{216} + a_{219} - a_{230} + a_{132} - \\
& a_{475} + a_{482} + a_{488} + a_{491} + a_{494} - 2a_{280} - \\
& a_{294} + a_{306} + a_{336} - a_{994} - a_{1000} - a_{1003} - \\
& a_{1006} + a_{1022} - a_{516} + a_{518} + 2a_{537} + a_{550} + \\
& 2a_{555} + 2a_{557} + a_{561} - a_{562} + a_{575} + a_{578} + \\
& a_{583} - a_{592} - a_{603} + 2a_{604} + a_{644} - 2a_{664} - \\
& a_{678} + a_{680} + a_{695} + a_{702} \\
a_{2006} &= \frac{a_{982} - \sqrt{a_{982}^2 - 4x}}{2} \\
x &= 2a_{89} + a_{103} - 2a_{217} + a_{220} - a_{231} + a_{133} - \\
& a_{476} + a_{483} + a_{489} + a_{492} + a_{495} - 2a_{281} - \\
& a_{295} + a_{307} + a_{337} - a_{995} - a_{1001} - a_{1004} - \\
& a_{1007} + a_{511} - a_{517} + a_{519} + 2a_{538} + a_{551} + \\
& 2a_{556} + 2a_{558} + a_{562} - a_{563} + a_{576} + a_{579} + \\
& a_{584} - a_{593} - a_{604} + 2a_{605} + a_{645} - 2a_{665} - \\
& a_{679} + a_{681} + a_{696} + a_{703} \\
a_{2007} &= \frac{a_{983} - \sqrt{a_{983}^2 - 4x}}{2} \\
x &= 2a_{90} + a_{104} - 2a_{218} + a_{221} - a_{232} + a_{134} - \\
& a_{477} + a_{484} + a_{490} + a_{493} + a_{496} - 2a_{282} - \\
& a_{296} + a_{308} + a_{338} - a_{996} - a_{1002} - a_{1005} - \\
& a_{1008} + a_{512} - a_{518} + a_{520} + 2a_{539} + a_{552} + \\
& 2a_{557} + 2a_{559} + a_{563} - a_{564} + a_{577} + a_{580} + \\
& a_{585} - a_{594} - a_{605} + 2a_{606} + a_{646} - 2a_{666} - \\
& a_{680} + a_{682} + a_{697} + a_{704} \\
a_{2008} &= \frac{a_{984} - \sqrt{a_{984}^2 - 4x}}{2} \\
x &= 2a_{91} + a_{105} - 2a_{219} + a_{222} - a_{233} + a_{135} - \\
& a_{478} + a_{485} + a_{491} + a_{494} + a_{497} - 2a_{283} - \\
& a_{297} + a_{309} + a_{339} - a_{997} - a_{1003} - a_{1006} - \\
& a_{1009} + a_{513} - a_{519} + a_{521} + 2a_{540} + a_{553} + \\
& 2a_{558} + 2a_{560} + a_{564} - a_{565} + a_{578} + a_{581} + \\
& a_{586} - a_{595} - a_{606} + 2a_{607} + a_{647} - 2a_{667} - \\
& a_{681} + a_{683} + a_{698} + a_{705} \\
a_{2009} &= \frac{a_{985} + \sqrt{a_{985}^2 - 4x}}{2} \\
x &= 2a_{92} + a_{106} - 2a_{220} + a_{223} - a_{234} + a_{136} - \\
& a_{479} + a_{486} + a_{492} + a_{495} + a_{498} - 2a_{284} - \\
& a_{298} + a_{310} + a_{340} - a_{998} - a_{1004} - a_{1007} - \\
& a_{1010} + a_{514} - a_{520} + a_{522} + 2a_{541} + a_{554} + \\
& 2a_{559} + 2a_{561} + a_{565} - a_{566} + a_{579} + a_{582} + \\
& a_{587} - a_{596} - a_{607} + 2a_{608} + a_{648} - 2a_{668} - \\
& a_{682} + a_{684} + a_{699} + a_{706} \\
a_{2010} &= \frac{a_{986} - \sqrt{a_{986}^2 - 4x}}{2} \\
x &= 2a_{94} + a_{108} - 2a_{222} + a_{225} - a_{236} + a_{138} - \\
& a_{481} + a_{488} + a_{494} + a_{497} + a_{500} - 2a_{286} - \\
& a_{300} + a_{312} + a_{342} - a_{1000} - a_{1006} - a_{1009} - \\
& a_{1012} + a_{516} - a_{522} + a_{524} + 2a_{543} + a_{556} + \\
& 2a_{561} + 2a_{563} + a_{567} - a_{568} + a_{581} + a_{584} +
\end{aligned}
$$

$$a_{589} - a_{598} - a_{609} + 2a_{610} + a_{650} - 2a_{670} - a_{684} + a_{686} + a_{701} + a_{708}$$

$$a_{2012} = \frac{a_{988} + \sqrt{a_{988}^2 - 4x}}{2}$$
$$x = 2a_{95} + a_{109} - 2a_{223} + a_{226} - a_{237} + a_{139} - a_{482} + a_{489} + a_{495} + a_{498} + a_{501} - 2a_{287} - a_{301} + a_{313} + a_{343} - a_{1001} - a_{1007} - a_{1010} - a_{1013} + a_{517} - a_{523} + a_{525} + 2a_{544} + a_{557} + 2a_{562} + 2a_{564} + a_{568} - a_{569} + a_{582} + a_{585} + a_{590} - a_{599} - a_{610} + 2a_{611} + a_{651} - 2a_{671} - a_{685} + a_{687} + a_{702} + a_{709}$$

$$a_{2013} = \frac{a_{989} - \sqrt{a_{989}^2 - 4x}}{2}$$
$$x = 2a_{96} + a_{110} - 2a_{224} + a_{227} - a_{238} + a_{140} - a_{483} + a_{490} + a_{496} + a_{499} + a_{502} - 2a_{288} - a_{302} + a_{314} + a_{344} - a_{1002} - a_{1008} - a_{1011} - a_{1014} + a_{518} - a_{524} + a_{526} + 2a_{545} + a_{558} + 2a_{563} + 2a_{565} + a_{569} - a_{570} + a_{583} + a_{586} + a_{591} - a_{600} - a_{611} + 2a_{612} + a_{652} - 2a_{672} - a_{686} + a_{688} + a_{703} + a_{710}$$

$$a_{2014} = \frac{a_{990} - \sqrt{a_{990}^2 - 4x}}{2}$$
$$x = 2a_{97} + a_{111} - 2a_{225} + a_{228} - a_{239} + a_{141} - a_{484} + a_{491} + a_{497} + a_{500} + a_{503} - 2a_{289} - a_{303} + a_{315} + a_{345} - a_{1003} - a_{1009} - a_{1012} - a_{1015} + a_{519} - a_{525} + a_{527} + 2a_{546} + a_{559} + 2a_{564} + 2a_{566} + a_{570} - a_{571} + a_{584} + a_{587} + a_{592} - a_{601} - a_{612} + 2a_{613} + a_{653} - 2a_{673} - a_{687} + a_{689} + a_{704} + a_{711}$$

$$a_{2015} = \frac{a_{991} - \sqrt{a_{991}^2 - 4x}}{2}$$
$$x = 2a_{98} + a_{112} - 2a_{226} + a_{229} - a_{240} + a_{142} - a_{485} + a_{492} + a_{498} + a_{501} + a_{504} - 2a_{290} - a_{304} + a_{316} + a_{346} - a_{1004} - a_{1010} - a_{1013} - a_{1016} + a_{520} - a_{526} + a_{528} + 2a_{547} + a_{560} + 2a_{565} + 2a_{567} + a_{571} - a_{572} + a_{585} + a_{588} + a_{593} - a_{602} - a_{613} + 2a_{614} + a_{654} - 2a_{674} - a_{688} + a_{690} + a_{705} + a_{712}$$

$$a_{2016} = \frac{a_{992} - \sqrt{a_{992}^2 - 4x}}{2}$$
$$x = 2a_{99} + a_{113} - 2a_{227} + a_{230} - a_{241} + a_{143} - a_{486} + a_{493} + a_{499} + a_{502} + a_{505} - 2a_{291} - a_{305} + a_{317} + a_{347} - a_{1005} - a_{1011} - a_{1014} - a_{1017} + a_{521} - a_{527} + a_{529} + 2a_{548} + a_{561} + 2a_{566} + 2a_{568} + a_{572} - a_{573} + a_{586} + a_{589} + a_{594} - a_{603} - a_{614} + 2a_{615} + a_{655} - 2a_{675} - a_{689} + a_{691} + a_{706} + a_{713}$$

$$a_{2017} = \frac{a_{993} - \sqrt{a_{993}^2 - 4x}}{2}$$
$$x = 2a_{100} + a_{114} - 2a_{228} + a_{231} - a_{242} + a_{144} - a_{487} + a_{494} + a_{500} + a_{503} + a_{506} - 2a_{292} - a_{306} + a_{318} + a_{348} - a_{1006} - a_{1012} - a_{1015} - a_{1018} + a_{522} - a_{528} + a_{530} + 2a_{549} + a_{562} + 2a_{567} + 2a_{569} + a_{573} - a_{574} + a_{587} + a_{590} + a_{595} - a_{604} - a_{615} + 2a_{616} + a_{656} - 2a_{676} - a_{690} + a_{692} + a_{707} + a_{714}$$

$$a_{2018} = \frac{a_{994} + \sqrt{a_{994}^2 - 4x}}{2}$$
$$x = 2a_{102} + a_{116} - 2a_{230} + a_{233} - a_{244} + a_{146} - a_{489} + a_{496} + a_{502} + a_{505} + a_{508} - 2a_{294} - a_{308} + a_{320} + a_{350} - a_{1008} - a_{1014} - a_{1017} - a_{1020} + a_{524} - a_{530} + a_{532} + 2a_{551} + a_{564} + 2a_{569} + 2a_{571} + a_{575} - a_{576} + a_{589} + a_{592} + a_{597} - a_{606} - a_{617} + 2a_{618} + a_{658} - 2a_{678} - a_{692} + a_{694} + a_{709} + a_{716}$$

$$a_{2020} = \frac{a_{996} + \sqrt{a_{996}^2 - 4x}}{2}$$
$$x = 2a_{103} + a_{117} - 2a_{231} + a_{234} - a_{245} + a_{147} - a_{490} + a_{497} + a_{503} + a_{506} + a_{509} - 2a_{295} - a_{309} + a_{321} + a_{351} - a_{1009} - a_{1015} - a_{1018} - a_{1021} + a_{525} - a_{531} + a_{533} + 2a_{552} + a_{565} + 2a_{570} + 2a_{572} + a_{576} - a_{577} + a_{590} + a_{593} + a_{598} - a_{607} - a_{618} + 2a_{619} + a_{659} - 2a_{679} - a_{693} + a_{695} + a_{710} + a_{717}$$

$$a_{2021} = \frac{a_{997} - \sqrt{a_{997}^2 - 4x}}{2}$$
$$x = 2a_{104} + a_{118} - 2a_{232} + a_{235} - a_{246} + a_{148} - a_{491} + a_{498} + a_{504} + a_{507} + a_{510} - 2a_{296} - a_{310} + a_{322} + a_{352} - a_{1010} - a_{1016} - a_{1019} - a_{1022} + a_{526} - a_{532} + a_{534} + 2a_{553} + a_{566} + 2a_{571} + 2a_{573} + a_{577} - a_{578} + a_{591} + a_{594} + a_{599} - a_{608} - a_{619} + 2a_{620} + a_{660} - 2a_{680} - a_{694} + a_{696} + a_{711} + a_{718}$$

$$a_{2022} = \frac{a_{998} + \sqrt{a_{998}^2 - 4x}}{2}$$
$$x = 2a_{109} + a_{123} - 2a_{237} + a_{240} - a_{251} + a_{153} - a_{496} + a_{503} + a_{509} + a_{256} + a_{259} - 2a_{301} - a_{315} + a_{327} + a_{357} - a_{1015} - a_{1021} - a_{512} - a_{515} + a_{531} - a_{537} + a_{539} + 2a_{558} + a_{571} + 2a_{576} + 2a_{578} + a_{582} - a_{583} + a_{596} + a_{599} + a_{604} - a_{613} - a_{624} + 2a_{625} + a_{665} - 2a_{685} - a_{699} + a_{701} + a_{716} + a_{723}$$

$$a_{2027} = \frac{a_{1003} + \sqrt{a_{1003}^2 - 4x}}{2}$$
$$x = 2a_{110} + a_{124} - 2a_{238} + a_{241} - a_{252} + a_{154} - a_{497} + a_{504} + a_{510} + a_{257} + a_{260} - 2a_{302} - a_{316} + a_{328} + a_{358} - a_{1016} - a_{1022} - a_{513} - a_{516} + a_{532} - a_{538} + a_{540} + 2a_{559} + a_{572} +$$

$$
\begin{aligned}
& 2a_{577} + 2a_{579} + a_{583} - a_{584} + a_{597} + a_{600} + \\
& a_{605} - a_{614} - a_{625} + 2a_{626} + a_{666} - 2a_{686} - \\
& a_{700} + a_{702} + a_{717} + a_{724} \\
a_{2028} &= \frac{a_{1004} - \sqrt{a_{1004}^2 - 4x}}{2} \\
x &= 2a_{111} + a_{125} - 2a_{239} + a_{242} - a_{253} + a_{155} - \\
& a_{498} + a_{505} + a_{255} + a_{258} + a_{261} - 2a_{303} - \\
& a_{317} + a_{329} + a_{359} - a_{1017} - a_{511} - a_{514} - \\
& a_{517} + a_{533} - a_{539} + a_{541} + 2a_{560} + a_{573} + \\
& 2a_{578} + 2a_{580} + a_{584} - a_{585} + a_{598} + a_{601} + \\
& a_{606} - a_{615} - a_{626} + 2a_{627} + a_{667} - 2a_{687} - \\
& a_{701} + a_{703} + a_{718} + a_{725} \\
a_{2029} &= \frac{a_{1005} - \sqrt{a_{1005}^2 - 4x}}{2} \\
x &= 2a_{112} + a_{126} - 2a_{240} + a_{243} - a_{254} + a_{156} - \\
& a_{499} + a_{506} + a_{256} + a_{259} + a_{262} - 2a_{304} - \\
& a_{318} + a_{330} + a_{360} - a_{1018} - a_{512} - a_{515} - \\
& a_{518} + a_{534} - a_{540} + a_{542} + 2a_{561} + a_{574} + \\
& 2a_{579} + 2a_{581} + a_{585} - a_{586} + a_{599} + a_{602} + \\
& a_{607} - a_{616} - a_{627} + 2a_{628} + a_{668} - 2a_{688} - \\
& a_{702} + a_{704} + a_{719} + a_{726} \\
a_{2030} &= \frac{a_{1006} - \sqrt{a_{1006}^2 - 4x}}{2} \\
x &= 2a_{113} + a_{63} - 2a_{241} + a_{244} - a_{127} + a_{157} - \\
& a_{500} + a_{507} + a_{257} + a_{260} + a_{263} - 2a_{305} - \\
& a_{319} + a_{331} + a_{361} - a_{1019} - a_{513} - a_{516} - \\
& a_{519} + a_{535} - a_{541} + a_{543} + 2a_{562} + a_{575} + \\
& 2a_{580} + 2a_{582} + a_{586} - a_{587} + a_{600} + a_{603} + \\
& a_{608} - a_{617} - a_{628} + 2a_{629} + a_{669} - 2a_{689} - \\
& a_{703} + a_{705} + a_{720} + a_{727} \\
a_{2031} &= \frac{a_{1007} - \sqrt{a_{1007}^2 - 4x}}{2} \\
x &= 2a_{115} + a_{65} - 2a_{243} + a_{246} - a_{129} + a_{159} - \\
& a_{502} + a_{509} + a_{259} + a_{262} + a_{265} - 2a_{307} - \\
& a_{321} + a_{333} + a_{363} - a_{1021} - a_{515} - a_{518} - \\
& a_{521} + a_{537} - a_{543} + a_{545} + 2a_{564} + a_{577} + \\
& 2a_{582} + 2a_{584} + a_{588} - a_{589} + a_{602} + a_{605} + \\
& a_{610} - a_{619} - a_{630} + 2a_{631} + a_{671} - 2a_{691} - \\
& a_{705} + a_{707} + a_{722} + a_{729} \\
a_{2033} &= \frac{a_{1009} - \sqrt{a_{1009}^2 - 4x}}{2} \\
x &= 2a_{116} + a_{66} - 2a_{244} + a_{247} - a_{130} + a_{160} - \\
& a_{503} + a_{510} + a_{260} + a_{263} + a_{266} - 2a_{308} - \\
& a_{322} + a_{334} + a_{364} - a_{1022} - a_{516} - a_{519} - \\
& a_{522} + a_{538} - a_{544} + a_{546} + 2a_{565} + a_{578} + \\
& 2a_{583} + 2a_{585} + a_{589} - a_{590} + a_{603} + a_{606} + \\
& a_{611} - a_{620} - a_{631} + 2a_{632} + a_{672} - 2a_{692} - \\
& a_{706} + a_{708} + a_{723} + a_{730} \\
a_{2034} &= \frac{a_{1010} - \sqrt{a_{1010}^2 - 4x}}{2} \\
x &= 2a_{117} + a_{67} - 2a_{245} + a_{248} - a_{131} + a_{161} - \\
& a_{504} + a_{255} + a_{261} + a_{264} + a_{267} - 2a_{309} - \\
& a_{323} + a_{335} + a_{365} - a_{511} - a_{517} - a_{520} - \\
& a_{523} + a_{539} - a_{545} + a_{547} + 2a_{566} + a_{579} + \\
& 2a_{584} + 2a_{586} + a_{590} - a_{591} + a_{604} + a_{607} + \\
& a_{612} - a_{621} - a_{632} + 2a_{633} + a_{673} - 2a_{693} - \\
& a_{707} + a_{709} + a_{724} + a_{731} \\
a_{2035} &= \frac{a_{1011} + \sqrt{a_{1011}^2 - 4x}}{2} \\
x &= 2a_{118} + a_{68} - 2a_{246} + a_{249} - a_{132} + a_{162} - \\
& a_{505} + a_{256} + a_{262} + a_{265} + a_{268} - 2a_{310} - \\
& a_{324} + a_{336} + a_{366} - a_{512} - a_{518} - a_{521} - \\
& a_{524} + a_{540} - a_{546} + a_{548} + 2a_{567} + a_{580} + \\
& 2a_{585} + 2a_{587} + a_{591} - a_{592} + a_{605} + a_{608} + \\
& a_{613} - a_{622} - a_{633} + 2a_{634} + a_{674} - 2a_{694} - \\
& a_{708} + a_{710} + a_{725} + a_{732} \\
a_{2036} &= \frac{a_{1012} + \sqrt{a_{1012}^2 - 4x}}{2} \\
x &= 2a_{119} + a_{69} - 2a_{247} + a_{250} - a_{133} + a_{163} - \\
& a_{506} + a_{257} + a_{263} + a_{266} + a_{269} - 2a_{311} - \\
& a_{325} + a_{337} + a_{367} - a_{513} - a_{519} - a_{522} - \\
& a_{525} + a_{541} - a_{547} + a_{549} + 2a_{568} + a_{581} + \\
& 2a_{586} + 2a_{588} + a_{592} - a_{593} + a_{606} + a_{609} + \\
& a_{614} - a_{623} - a_{634} + 2a_{635} + a_{675} - 2a_{695} - \\
& a_{709} + a_{711} + a_{726} + a_{733} \\
a_{2037} &= \frac{a_{1013} - \sqrt{a_{1013}^2 - 4x}}{2} \\
x &= 2a_{120} + a_{70} - 2a_{248} + a_{251} - a_{134} + a_{164} - \\
& a_{507} + a_{258} + a_{264} + a_{267} + a_{270} - 2a_{312} - \\
& a_{326} + a_{338} + a_{368} - a_{514} - a_{520} - a_{523} - \\
& a_{526} + a_{542} - a_{548} + a_{550} + 2a_{569} + a_{582} + \\
& 2a_{587} + 2a_{589} + a_{593} - a_{594} + a_{607} + a_{610} + \\
& a_{615} - a_{624} - a_{635} + 2a_{636} + a_{676} - 2a_{696} - \\
& a_{710} + a_{712} + a_{727} + a_{734} \\
a_{2038} &= \frac{a_{1014} - \sqrt{a_{1014}^2 - 4x}}{2} \\
x &= 2a_{121} + a_{71} - 2a_{249} + a_{252} - a_{135} + a_{165} - \\
& a_{508} + a_{259} + a_{265} + a_{268} + a_{271} - 2a_{313} - \\
& a_{327} + a_{339} + a_{369} - a_{515} - a_{521} - a_{524} - \\
& a_{527} + a_{543} - a_{549} + a_{551} + 2a_{570} + a_{583} + \\
& 2a_{588} + 2a_{590} + a_{594} - a_{595} + a_{608} + a_{611} + \\
& a_{616} - a_{625} - a_{636} + 2a_{637} + a_{677} - 2a_{697} - \\
& a_{711} + a_{713} + a_{728} + a_{735} \\
a_{2039} &= \frac{a_{1015} + \sqrt{a_{1015}^2 - 4x}}{2} \\
x &= 2a_{122} + a_{72} - 2a_{250} + a_{253} - a_{136} + a_{166} - \\
& a_{509} + a_{260} + a_{266} + a_{269} + a_{272} - 2a_{314} - \\
& a_{328} + a_{340} + a_{370} - a_{516} - a_{522} - a_{525} - \\
& a_{528} + a_{544} - a_{550} + a_{552} + 2a_{571} + a_{584} +
\end{aligned}
$$

$$
\begin{aligned}
& 2a_{589} + 2a_{591} + a_{595} - a_{596} + a_{609} + a_{612} + \\
& a_{617} - a_{626} - a_{637} + 2a_{638} + a_{678} - 2a_{698} - \\
& a_{712} + a_{714} + a_{729} + a_{736} \\
a_{2040} &= \frac{a_{1016} - \sqrt{a_{1016}^2 - 4x}}{2} \\
x &= 2a_{123} + a_{73} - 2a_{251} + a_{254} - a_{137} + a_{167} - \\
& a_{510} + a_{261} + a_{267} + a_{270} + a_{273} - 2a_{315} - \\
& a_{329} + a_{341} + a_{371} - a_{517} - a_{523} - a_{526} - \\
& a_{529} + a_{545} - a_{551} + a_{553} + 2a_{572} + a_{585} + \\
& 2a_{590} + 2a_{592} + a_{596} - a_{597} + a_{610} + a_{613} + \\
& a_{618} - a_{627} - a_{638} + 2a_{639} + a_{679} - 2a_{699} - \\
& a_{713} + a_{715} + a_{730} + a_{737} \\
a_{2041} &= \frac{a_{1017} + \sqrt{a_{1017}^2 - 4x}}{2} \\
x &= 2a_{125} + a_{75} - 2a_{253} + a_{128} - a_{139} + a_{169} - \\
& a_{256} + a_{263} + a_{269} + a_{272} + a_{275} - 2a_{317} - \\
& a_{331} + a_{343} + a_{373} - a_{519} - a_{525} - a_{528} - \\
& a_{531} + a_{547} - a_{553} + a_{555} + 2a_{574} + a_{587} + \\
& 2a_{592} + 2a_{594} + a_{598} - a_{599} + a_{612} + a_{615} + \\
& a_{620} - a_{629} - a_{640} + 2a_{641} + a_{681} - 2a_{701} - \\
& a_{715} + a_{717} + a_{732} + a_{739} \\
a_{2043} &= \frac{a_{1019} + \sqrt{a_{1019}^2 - 4x}}{2} \\
x &= 2a_{126} + a_{76} - 2a_{254} + a_{129} - a_{140} + a_{170} - \\
& a_{257} + a_{264} + a_{270} + a_{273} + a_{276} - 2a_{318} - \\
& a_{332} + a_{344} + a_{374} - a_{520} - a_{526} - a_{529} - \\
& a_{532} + a_{548} - a_{554} + a_{556} + 2a_{575} + a_{588} + \\
& 2a_{593} + 2a_{595} + a_{599} - a_{600} + a_{613} + a_{616} + \\
& a_{621} - a_{630} - a_{641} + 2a_{642} + a_{682} - 2a_{702} - \\
& a_{716} + a_{718} + a_{733} + a_{740} \\
a_{2044} &= \frac{a_{1020} + \sqrt{a_{1020}^2 - 4x}}{2} \\
x &= 2a_{63} + a_{77} - 2a_{127} + a_{130} - a_{141} + a_{171} - \\
& a_{258} + a_{265} + a_{271} + a_{274} + a_{277} - 2a_{319} - \\
& a_{333} + a_{345} + a_{375} - a_{521} - a_{527} - a_{530} - \\
& a_{533} + a_{549} - a_{555} + a_{557} + 2a_{576} + a_{589} + \\
& 2a_{594} + 2a_{596} + a_{600} - a_{601} + a_{614} + a_{617} + \\
& a_{622} - a_{631} - a_{642} + 2a_{643} + a_{683} - 2a_{703} - \\
& a_{717} + a_{719} + a_{734} + a_{741} \\
a_{2045} &= \frac{a_{1021} - \sqrt{a_{1021}^2 - 4x}}{2} \\
x &= 2a_{64} + a_{78} - 2a_{128} + a_{131} - a_{142} + a_{172} - \\
& a_{259} + a_{266} + a_{272} + a_{275} + a_{278} - 2a_{320} - \\
& a_{334} + a_{346} + a_{376} - a_{522} - a_{528} - a_{531} - \\
& a_{534} + a_{550} - a_{556} + a_{558} + 2a_{577} + a_{590} + \\
& 2a_{595} + 2a_{597} + a_{601} - a_{602} + a_{615} + a_{618} + \\
& a_{623} - a_{632} - a_{643} + 2a_{644} + a_{684} - 2a_{704} - \\
& a_{718} + a_{720} + a_{735} + a_{742} \\
a_{2046} &= \frac{a_{1022} - \sqrt{a_{1022}^2 - 4x}}{2}
\end{aligned}
$$

$$
\begin{aligned}
x &= a_{176} + 2a_{264} - a_{304} + a_{327} - 2a_{520} + a_{529} - \\
& a_{583} + a_{665} - a_{688} + a_{717} + a_{732} + 2a_{1023} - \\
& a_{1041} + a_{1046} + a_{1177} + a_{1207} - a_{1229} - a_{1244} - \\
& 2a_{1288} + a_{1331} - a_{1351} + a_{1382} - a_{1456} \\
a_{2047} &= \frac{a_{1023} + \sqrt{a_{1023}^2 - 4x}}{2} \\
x &= a_{177} + 2a_{265} - a_{305} + a_{328} - 2a_{521} + a_{530} - \\
& a_{584} + a_{666} - a_{689} + a_{718} + a_{733} + 2a_{1024} - \\
& a_{1042} + a_{1047} + a_{1178} + a_{1208} - a_{1230} - a_{1245} - \\
& 2a_{1289} + a_{1332} - a_{1352} + a_{1383} - a_{1457} \\
a_{2048} &= \frac{a_{1024} + \sqrt{a_{1024}^2 - 4x}}{2} \\
x &= a_{178} + 2a_{266} - a_{306} + a_{329} - 2a_{522} + a_{531} - \\
& a_{585} + a_{667} - a_{690} + a_{719} + a_{734} + 2a_{1025} - \\
& a_{1043} + a_{1048} + a_{1179} + a_{1209} - a_{1231} - a_{1246} - \\
& 2a_{1290} + a_{1333} - a_{1353} + a_{1384} - a_{1458} \\
a_{2049} &= \frac{a_{1025} + \sqrt{a_{1025}^2 - 4x}}{2} \\
x &= a_{179} + 2a_{267} - a_{307} + a_{330} - 2a_{523} + a_{532} - \\
& a_{586} + a_{668} - a_{691} + a_{720} + a_{735} + 2a_{1026} - \\
& a_{1044} + a_{1049} + a_{1180} + a_{1210} - a_{1232} - a_{1247} - \\
& 2a_{1291} + a_{1334} - a_{1354} + a_{1385} - a_{1459} \\
a_{2050} &= \frac{a_{1026} + \sqrt{a_{1026}^2 - 4x}}{2} \\
x &= a_{181} + 2a_{269} - a_{309} + a_{332} - 2a_{525} + a_{534} - \\
& a_{588} + a_{670} - a_{693} + a_{722} + a_{737} + 2a_{1028} - \\
& a_{1046} + a_{1051} + a_{1182} + a_{1212} - a_{1234} - a_{1249} - \\
& 2a_{1293} + a_{1336} - a_{1356} + a_{1387} - a_{1461} \\
a_{2052} &= \frac{a_{1028} + \sqrt{a_{1028}^2 - 4x}}{2} \\
x &= a_{193} + 2a_{281} - a_{321} + a_{344} - 2a_{537} + a_{546} - \\
& a_{600} + a_{682} - a_{705} + a_{734} + a_{749} + 2a_{1040} - \\
& a_{1058} + a_{1063} + a_{1194} + a_{1224} - a_{1246} - a_{1261} - \\
& 2a_{1305} + a_{1348} - a_{1368} + a_{1399} - a_{1473} \\
a_{2064} &= \frac{a_{1040} + \sqrt{a_{1040}^2 - 4x}}{2} \\
x &= a_{194} + 2a_{282} - a_{322} + a_{345} - 2a_{538} + a_{547} - \\
& a_{601} + a_{683} - a_{706} + a_{735} + a_{750} + 2a_{1041} - \\
& a_{1059} + a_{1064} + a_{1195} + a_{1225} - a_{1247} - a_{1262} - \\
& 2a_{1306} + a_{1349} - a_{1369} + a_{1400} - a_{1474} \\
a_{2065} &= \frac{a_{1041} + \sqrt{a_{1041}^2 - 4x}}{2} \\
x &= a_{230} + 2a_{318} - a_{358} + a_{381} - 2a_{574} + a_{583} - \\
& a_{637} + a_{719} - a_{742} + a_{771} + a_{786} + 2a_{1077} - \\
& a_{1095} + a_{1100} + a_{1231} + a_{1261} - a_{1283} - a_{1298} - \\
& 2a_{1342} + a_{1385} - a_{1405} + a_{1436} - a_{1510} \\
a_{2101} &= \frac{a_{1077} - \sqrt{a_{1077}^2 - 4x}}{2} \\
x &= a_{237} + 2a_{325} - a_{365} + a_{388} - 2a_{581} + a_{590} - \\
& a_{644} + a_{726} - a_{749} + a_{778} + a_{793} + 2a_{1084} -
\end{aligned}
$$

$$
\begin{aligned}
& a_{1102} + a_{1107} + a_{1238} + a_{1268} - a_{1290} - a_{1305} - \\
& 2a_{1349} + a_{1392} - a_{1412} + a_{1443} - a_{1517} \\
a_{2108} &= \frac{a_{1084} + \sqrt{a_{1084}^2 - 4x}}{2} \\
x &= a_{238} + 2a_{326} - a_{366} + a_{389} - 2a_{582} + a_{591} - \\
& a_{645} + a_{727} - a_{750} + a_{779} + a_{794} + 2a_{1085} - \\
& a_{1103} + a_{1108} + a_{1239} + a_{1269} - a_{1291} - a_{1306} - \\
& 2a_{1350} + a_{1393} - a_{1413} + a_{1444} - a_{1518} \\
a_{2109} &= \frac{a_{1085} - \sqrt{a_{1085}^2 - 4x}}{2} \\
x &= a_{239} + 2a_{327} - a_{367} + a_{390} - 2a_{583} + a_{592} - \\
& a_{646} + a_{728} - a_{751} + a_{780} + a_{795} + 2a_{1086} - \\
& a_{1104} + a_{1109} + a_{1240} + a_{1270} - a_{1292} - a_{1307} - \\
& 2a_{1351} + a_{1394} - a_{1414} + a_{1445} - a_{1519} \\
a_{2110} &= \frac{a_{1086} + \sqrt{a_{1086}^2 - 4x}}{2} \\
x &= a_{250} + 2a_{338} - a_{378} + a_{401} - 2a_{594} + a_{603} - \\
& a_{657} + a_{739} - a_{762} + a_{791} + a_{806} + 2a_{1097} - \\
& a_{1115} + a_{1120} + a_{1251} + a_{1281} - a_{1303} - a_{1318} - \\
& 2a_{1362} + a_{1405} - a_{1425} + a_{1456} - a_{1530} \\
a_{2121} &= \frac{a_{1097} - \sqrt{a_{1097}^2 - 4x}}{2} \\
x &= a_{251} + 2a_{339} - a_{379} + a_{402} - 2a_{595} + a_{604} - \\
& a_{658} + a_{740} - a_{763} + a_{792} + a_{807} + 2a_{1098} - \\
& a_{1116} + a_{1121} + a_{1252} + a_{1282} - a_{1304} - a_{1319} - \\
& 2a_{1363} + a_{1406} - a_{1426} + a_{1457} - a_{1531}
\end{aligned}
$$

$$
\begin{aligned}
a_{2122} &= \frac{a_{1098} - \sqrt{a_{1098}^2 - 4x}}{2} \\
x &= a_{252} + 2a_{340} - a_{380} + a_{403} - 2a_{596} + a_{605} - \\
& a_{659} + a_{741} - a_{764} + a_{793} + a_{808} + 2a_{1099} - \\
& a_{1117} + a_{1122} + a_{1253} + a_{1283} - a_{1305} - a_{1320} - \\
& 2a_{1364} + a_{1407} - a_{1427} + a_{1458} - a_{1532} \\
a_{2123} &= \frac{a_{1099} - \sqrt{a_{1099}^2 - 4x}}{2} \\
x &= a_{134} + 2a_{350} - a_{390} + a_{413} - 2a_{606} + a_{615} - \\
& a_{669} + a_{751} - a_{774} + a_{803} + a_{818} + 2a_{1109} - \\
& a_{1127} + a_{1132} + a_{1263} + a_{1293} - a_{1315} - a_{1330} - \\
& 2a_{1374} + a_{1417} - a_{1437} + a_{1468} - a_{1542} \\
a_{2133} &= \frac{a_{1109} + \sqrt{a_{1109}^2 - 4x}}{2} \\
x &= a_{138} + 2a_{354} - a_{394} + a_{417} - 2a_{610} + a_{619} - \\
& a_{673} + a_{755} - a_{778} + a_{807} + a_{822} + 2a_{1113} - \\
& a_{1131} + a_{1136} + a_{1267} + a_{1297} - a_{1319} - a_{1334} - \\
& 2a_{1378} + a_{1421} - a_{1441} + a_{1472} - a_{1546} \\
a_{2137} &= \frac{a_{1113} - \sqrt{a_{1113}^2 - 4x}}{2} \\
x &= a_{140} + 2a_{356} - a_{396} + a_{419} - 2a_{612} + a_{621} - \\
& a_{675} + a_{757} - a_{780} + a_{809} + a_{824} + 2a_{1115} - \\
& a_{1133} + a_{1138} + a_{1269} + a_{1299} - a_{1321} - a_{1336} - \\
& 2a_{1380} + a_{1423} - a_{1443} + a_{1474} - a_{1548}
\end{aligned}
$$

$$
\begin{aligned}
a_{2139} &= \frac{a_{1115} - \sqrt{a_{1115}^2 - 4x}}{2} \\
x &= a_{141} + 2a_{357} - a_{397} + a_{420} - 2a_{613} + a_{622} - \\
& a_{676} + a_{758} - a_{781} + a_{810} + a_{825} + 2a_{1116} - \\
& a_{1134} + a_{1139} + a_{1270} + a_{1300} - a_{1322} - a_{1337} - \\
& 2a_{1381} + a_{1424} - a_{1444} + a_{1475} - a_{1549} \\
a_{2140} &= \frac{a_{1116} - \sqrt{a_{1116}^2 - 4x}}{2} \\
x &= a_{142} + 2a_{358} - a_{398} + a_{421} - 2a_{614} + a_{623} - \\
& a_{677} + a_{759} - a_{782} + a_{811} + a_{826} + 2a_{1117} - \\
& a_{1135} + a_{1140} + a_{1271} + a_{1301} - a_{1323} - a_{1338} - \\
& 2a_{1382} + a_{1425} - a_{1445} + a_{1476} - a_{1550} \\
a_{2141} &= \frac{a_{1117} - \sqrt{a_{1117}^2 - 4x}}{2} \\
x &= a_{143} + 2a_{359} - a_{399} + a_{422} - 2a_{615} + a_{624} - \\
& a_{678} + a_{760} - a_{783} + a_{812} + a_{827} + 2a_{1118} - \\
& a_{1136} + a_{1141} + a_{1272} + a_{1302} - a_{1324} - a_{1339} - \\
& 2a_{1383} + a_{1426} - a_{1446} + a_{1477} - a_{1551} \\
a_{2142} &= \frac{a_{1118} - \sqrt{a_{1118}^2 - 4x}}{2} \\
x &= a_{145} + 2a_{361} - a_{401} + a_{424} - 2a_{617} + a_{626} - \\
& a_{680} + a_{762} - a_{785} + a_{814} + a_{829} + 2a_{1120} - \\
& a_{1138} + a_{1143} + a_{1274} + a_{1304} - a_{1326} - a_{1341} - \\
& 2a_{1385} + a_{1428} - a_{1448} + a_{1479} - a_{1553} \\
a_{2144} &= \frac{a_{1120} - \sqrt{a_{1120}^2 - 4x}}{2} \\
x &= a_{157} + 2a_{373} - a_{413} + a_{436} - 2a_{629} + a_{638} - \\
& a_{692} + a_{774} - a_{797} + a_{826} + a_{841} + 2a_{1132} - \\
& a_{1150} + a_{1155} + a_{1286} + a_{1316} - a_{1338} - a_{1353} - \\
& 2a_{1397} + a_{1440} - a_{1460} + a_{1491} - a_{1565} \\
a_{2156} &= \frac{a_{1132} + \sqrt{a_{1132}^2 - 4x}}{2} \\
x &= a_{194} + 2a_{410} - a_{450} + a_{473} - 2a_{666} + a_{675} - \\
& a_{729} + a_{811} - a_{834} + a_{863} + a_{878} + 2a_{1169} - \\
& a_{1187} + a_{1192} + a_{1323} + a_{1353} - a_{1375} - a_{1390} - \\
& 2a_{1434} + a_{1477} - a_{1497} + a_{1528} - a_{1602}
\end{aligned}
$$

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\begin{aligned}
a_{2193} &= \frac{a_{1169} - \sqrt{a_{1169}^2 - 4x}}{2} \\
x &= a_{195} + 2a_{411} - a_{451} + a_{474} - 2a_{667} + a_{676} - \\
& a_{730} + a_{812} - a_{835} + a_{864} + a_{879} + 2a_{1170} - \\
& a_{1188} + a_{1193} + a_{1324} + a_{1354} - a_{1376} - a_{1391} - \\
& 2a_{1435} + a_{1478} - a_{1498} + a_{1529} - a_{1603} \\
a_{2194} &= \frac{a_{1170} - \sqrt{a_{1170}^2 - 4x}}{2} \\
x &= a_{196} + 2a_{412} - a_{452} + a_{475} - 2a_{668} + a_{677} - \\
& a_{731} + a_{813} - a_{836} + a_{865} + a_{880} + 2a_{1171} - \\
& a_{1189} + a_{1194} + a_{1325} + a_{1355} - a_{1377} - a_{1392} - \\
& 2a_{1436} + a_{1479} - a_{1499} + a_{1530} - a_{1604} \\
a_{2195} &= \frac{a_{1171} - \sqrt{a_{1171}^2 - 4x}}{2}
\end{aligned}
$$

$$
\begin{aligned}
x &= a_{197} + 2a_{413} - a_{453} + a_{476} - 2a_{669} + a_{678} - \\
&\quad a_{732} + a_{814} - a_{837} + a_{866} + a_{881} + 2a_{1172} - \\
&\quad a_{1190} + a_{1195} + a_{1326} + a_{1356} - a_{1378} - a_{1393} - \\
&\quad 2a_{1437} + a_{1480} - a_{1500} + a_{1531} - a_{1605} \\
a_{2196} &= \frac{a_{1172} - \sqrt{a_{1172}^2 - 4x}}{2} \\
x &= a_{198} + 2a_{414} - a_{454} + a_{477} - 2a_{670} + a_{679} - \\
&\quad a_{733} + a_{815} - a_{838} + a_{867} + a_{882} + 2a_{1173} - \\
&\quad a_{1191} + a_{1196} + a_{1327} + a_{1357} - a_{1379} - a_{1394} - \\
&\quad 2a_{1438} + a_{1481} - a_{1501} + a_{1532} - a_{1606} \\
a_{2197} &= \frac{a_{1173} + \sqrt{a_{1173}^2 - 4x}}{2} \\
x &= a_{199} + 2a_{415} - a_{455} + a_{478} - 2a_{671} + a_{680} - \\
&\quad a_{734} + a_{816} - a_{839} + a_{868} + a_{883} + 2a_{1174} - \\
&\quad a_{1192} + a_{1197} + a_{1328} + a_{1358} - a_{1380} - a_{1395} - \\
&\quad 2a_{1439} + a_{1482} - a_{1502} + a_{1533} - a_{1607} \\
a_{2198} &= \frac{a_{1174} - \sqrt{a_{1174}^2 - 4x}}{2} \\
x &= a_{201} + 2a_{417} - a_{457} + a_{480} - 2a_{673} + a_{682} - \\
&\quad a_{736} + a_{818} - a_{841} + a_{870} + a_{885} + 2a_{1176} - \\
&\quad a_{1194} + a_{1199} + a_{1330} + a_{1360} - a_{1382} - a_{1397} - \\
&\quad 2a_{1441} + a_{1484} - a_{1504} + a_{1535} - a_{1609} \\
a_{2200} &= \frac{a_{1176} - \sqrt{a_{1176}^2 - 4x}}{2} \\
x &= a_{202} + 2a_{418} - a_{458} + a_{481} - 2a_{674} + a_{683} - \\
&\quad a_{737} + a_{819} - a_{842} + a_{871} + a_{886} + 2a_{1177} - \\
&\quad a_{1195} + a_{1200} + a_{1331} + a_{1361} - a_{1383} - a_{1398} - \\
&\quad 2a_{1442} + a_{1485} - a_{1505} + a_{1536} - a_{1610} \\
a_{2201} &= \frac{a_{1177} - \sqrt{a_{1177}^2 - 4x}}{2} \\
x &= a_{203} + 2a_{419} - a_{459} + a_{482} - 2a_{675} + a_{684} - \\
&\quad a_{738} + a_{820} - a_{843} + a_{872} + a_{887} + 2a_{1178} - \\
&\quad a_{1196} + a_{1201} + a_{1332} + a_{1362} - a_{1384} - a_{1399} - \\
&\quad 2a_{1443} + a_{1486} - a_{1506} + a_{1537} - a_{1611} \\
a_{2202} &= \frac{a_{1178} - \sqrt{a_{1178}^2 - 4x}}{2} \\
x &= a_{215} + 2a_{431} - a_{471} + a_{494} - 2a_{687} + a_{696} - \\
&\quad a_{750} + a_{832} - a_{855} + a_{884} + a_{899} + 2a_{1190} - \\
&\quad a_{1208} + a_{1213} + a_{1344} + a_{1374} - a_{1396} - a_{1411} - \\
&\quad 2a_{1455} + a_{1498} - a_{1518} + a_{1549} - a_{1623} \\
a_{2214} &= \frac{a_{1190} + \sqrt{a_{1190}^2 - 4x}}{2} \\
x &= a_{216} + 2a_{432} - a_{472} + a_{495} - 2a_{688} + a_{697} - \\
&\quad a_{751} + a_{833} - a_{856} + a_{885} + a_{900} + 2a_{1191} - \\
&\quad a_{1209} + a_{1214} + a_{1345} + a_{1375} - a_{1397} - a_{1412} - \\
&\quad 2a_{1456} + a_{1499} - a_{1519} + a_{1550} - a_{1624}
\end{aligned}
$$

$$
\begin{aligned}
a_{2215} &= \frac{a_{1191} + \sqrt{a_{1191}^2 - 4x}}{2} \\
x &= a_{230} + 2a_{446} - a_{486} + a_{509} - 2a_{702} + a_{711} - \\
&\quad a_{765} + a_{847} - a_{870} + a_{899} + a_{914} + 2a_{1205} - \\
&\quad a_{1223} + a_{1228} + a_{1359} + a_{1389} - a_{1411} - a_{1426} - \\
&\quad 2a_{1470} + a_{1513} - a_{1533} + a_{1564} - a_{1638} \\
a_{2229} &= \frac{a_{1205} + \sqrt{a_{1205}^2 - 4x}}{2} \\
x &= a_{144} + 2a_{488} - a_{272} + a_{295} - 2a_{744} + a_{753} - \\
&\quad a_{807} + a_{889} - a_{912} + a_{941} + a_{956} + 2a_{1247} - \\
&\quad a_{1265} + a_{1270} + a_{1401} + a_{1431} - a_{1453} - a_{1468} - \\
&\quad 2a_{1512} + a_{1555} - a_{1575} + a_{1606} - a_{1680} \\
a_{2271} &= \frac{a_{1247} - \sqrt{a_{1247}^2 - 4x}}{2} \\
x &= a_{158} + 2a_{502} - a_{286} + a_{309} - 2a_{758} + a_{767} - \\
&\quad a_{821} + a_{903} - a_{926} + a_{955} + a_{970} + 2a_{1261} - \\
&\quad a_{1279} + a_{1284} + a_{1415} + a_{1445} - a_{1467} - a_{1482} - \\
&\quad 2a_{1526} + a_{1569} - a_{1589} + a_{1620} - a_{1694} \\
a_{2285} &= \frac{a_{1261} + \sqrt{a_{1261}^2 - 4x}}{2} \\
x &= a_{159} + 2a_{503} - a_{287} + a_{310} - 2a_{759} + a_{768} - \\
&\quad a_{822} + a_{904} - a_{927} + a_{956} + a_{971} + 2a_{1262} - \\
&\quad a_{1280} + a_{1285} + a_{1416} + a_{1446} - a_{1468} - a_{1483} - \\
&\quad 2a_{1527} + a_{1570} - a_{1590} + a_{1621} - a_{1695} \\
a_{2286} &= \frac{a_{1262} - \sqrt{a_{1262}^2 - 4x}}{2} \\
x &= a_{160} + 2a_{504} - a_{288} + a_{311} - 2a_{760} + a_{769} - \\
&\quad a_{823} + a_{905} - a_{928} + a_{957} + a_{972} + 2a_{1263} - \\
&\quad a_{1281} + a_{1286} + a_{1417} + a_{1447} - a_{1469} - a_{1484} - \\
&\quad 2a_{1528} + a_{1571} - a_{1591} + a_{1622} - a_{1696} \\
a_{2287} &= \frac{a_{1263} - \sqrt{a_{1263}^2 - 4x}}{2} \\
x &= a_{161} + 2a_{505} - a_{289} + a_{312} - 2a_{761} + a_{770} - \\
&\quad a_{824} + a_{906} - a_{929} + a_{958} + a_{973} + 2a_{1264} - \\
&\quad a_{1282} + a_{1287} + a_{1418} + a_{1448} - a_{1470} - a_{1485} - \\
&\quad 2a_{1529} + a_{1572} - a_{1592} + a_{1623} - a_{1697} \\
a_{2288} &= \frac{a_{1264} - \sqrt{a_{1264}^2 - 4x}}{2} \\
x &= a_{162} + 2a_{506} - a_{290} + a_{313} - 2a_{762} + a_{771} - \\
&\quad a_{825} + a_{907} - a_{930} + a_{959} + a_{974} + 2a_{1265} - \\
&\quad a_{1283} + a_{1288} + a_{1419} + a_{1449} - a_{1471} - a_{1486} - \\
&\quad 2a_{1530} + a_{1573} - a_{1593} + a_{1624} - a_{1698} \\
a_{2289} &= \frac{a_{1265} - \sqrt{a_{1265}^2 - 4x}}{2} \\
x &= a_{163} + 2a_{507} - a_{291} + a_{314} - 2a_{763} + a_{772} - \\
&\quad a_{826} + a_{908} - a_{931} + a_{960} + a_{975} + 2a_{1266} - \\
&\quad a_{1284} + a_{1289} + a_{1420} + a_{1450} - a_{1472} - a_{1487} - \\
&\quad 2a_{1531} + a_{1574} - a_{1594} + a_{1625} - a_{1699} \\
a_{2290} &= \frac{a_{1266} - \sqrt{a_{1266}^2 - 4x}}{2} \\
x &= a_{166} + 2a_{510} - a_{294} + a_{317} - 2a_{766} + a_{775} - \\
&\quad a_{829} + a_{911} - a_{934} + a_{963} + a_{978} + 2a_{1269} - \\
&\quad a_{1287} + a_{1292} + a_{1423} + a_{1453} - a_{1475} - a_{1490} - \\
&\quad 2a_{1534} + a_{1577} - a_{1597} + a_{1628} - a_{1702} \\
a_{2293} &= \frac{a_{1269} + \sqrt{a_{1269}^2 - 4x}}{2}
\end{aligned}
$$

$$
\begin{aligned}
x &= a_{167} + 2a_{255} - a_{295} + a_{318} - 2a_{767} + a_{776} - \\
&\quad a_{830} + a_{912} - a_{935} + a_{964} + a_{979} + 2a_{1270} - \\
&\quad a_{1288} + a_{1293} + a_{1424} + a_{1454} - a_{1476} - a_{1491} - \\
&\quad 2a_{1535} + a_{1578} - a_{1598} + a_{1629} - a_{1703}
\end{aligned}
$$

$$
\begin{aligned}
a_{2294} &= \frac{a_{1270} + \sqrt{a_{1270}^2 - 4x}}{2} \\
x &= a_{223} + 2a_{311} - a_{351} + a_{374} - 2a_{823} + a_{832} - \\
&\quad a_{886} + a_{968} - a_{991} + a_{1020} + a_{523} + 2a_{1326} - \\
&\quad a_{1344} + a_{1349} + a_{1480} + a_{1510} - a_{1532} - a_{1547} - \\
&\quad 2a_{1591} + a_{1634} - a_{1654} + a_{1685} - a_{1759} \\
a_{2350} &= \frac{a_{1326} + \sqrt{a_{1326}^2 - 4x}}{2} \\
x &= a_{236} + 2a_{324} - a_{364} + a_{387} - 2a_{836} + a_{845} - \\
&\quad a_{899} + a_{981} - a_{1004} + a_{521} + a_{536} + 2a_{1339} - \\
&\quad a_{1357} + a_{1362} + a_{1493} + a_{1523} - a_{1545} - a_{1560} - \\
&\quad 2a_{1604} + a_{1647} - a_{1667} + a_{1698} - a_{1772} \\
a_{2363} &= \frac{a_{1339} + \sqrt{a_{1339}^2 - 4x}}{2} \\
x &= a_{251} + 2a_{339} - a_{379} + a_{402} - 2a_{851} + a_{860} - \\
&\quad a_{914} + a_{996} - a_{1019} + a_{536} + a_{551} + 2a_{1354} - \\
&\quad a_{1372} + a_{1377} + a_{1508} + a_{1538} - a_{1560} - a_{1575} - \\
&\quad 2a_{1619} + a_{1662} - a_{1682} + a_{1713} - a_{1787} \\
a_{2378} &= \frac{a_{1354} + \sqrt{a_{1354}^2 - 4x}}{2} \\
x &= a_{252} + 2a_{340} - a_{380} + a_{403} - 2a_{852} + a_{861} - \\
&\quad a_{915} + a_{997} - a_{1020} + a_{537} + a_{552} + 2a_{1355} - \\
&\quad a_{1373} + a_{1378} + a_{1509} + a_{1539} - a_{1561} - a_{1576} - \\
&\quad 2a_{1620} + a_{1663} - a_{1683} + a_{1714} - a_{1788} \\
a_{2379} &= \frac{a_{1355} + \sqrt{a_{1355}^2 - 4x}}{2} \\
x &= a_{253} + 2a_{341} - a_{381} + a_{404} - 2a_{853} + a_{862} - \\
&\quad a_{916} + a_{998} - a_{1021} + a_{538} + a_{553} + 2a_{1356} - \\
&\quad a_{1374} + a_{1379} + a_{1510} + a_{1540} - a_{1562} - a_{1577} - \\
&\quad 2a_{1621} + a_{1664} - a_{1684} + a_{1715} - a_{1789} \\
a_{2380} &= \frac{a_{1356} + \sqrt{a_{1356}^2 - 4x}}{2} \\
x &= a_{254} + 2a_{342} - a_{382} + a_{405} - 2a_{854} + a_{863} - \\
&\quad a_{917} + a_{999} - a_{1022} + a_{539} + a_{554} + 2a_{1357} - \\
&\quad a_{1375} + a_{1380} + a_{1511} + a_{1541} - a_{1563} - a_{1578} - \\
&\quad 2a_{1622} + a_{1665} - a_{1685} + a_{1716} - a_{1790} \\
a_{2381} &= \frac{a_{1357} - \sqrt{a_{1357}^2 - 4x}}{2} \\
x &= a_{127} + 2a_{343} - a_{383} + a_{406} - 2a_{855} + a_{864} - \\
&\quad a_{918} + a_{1000} - a_{511} + a_{540} + a_{555} + 2a_{1358} - \\
&\quad a_{1376} + a_{1381} + a_{1512} + a_{1542} - a_{1564} - a_{1579} - \\
&\quad 2a_{1623} + a_{1666} - a_{1686} + a_{1717} - a_{1791} \\
a_{2382} &= \frac{a_{1358} - \sqrt{a_{1358}^2 - 4x}}{2} \\
x &= a_{180} + 2a_{396} - a_{436} + a_{459} - 2a_{908} + a_{917} - \\
&\quad a_{971} + a_{541} - a_{564} + a_{593} + a_{608} + 2a_{1411} - \\
&\quad a_{1429} + a_{1434} + a_{1565} + a_{1595} - a_{1617} - a_{1632} - \\
&\quad 2a_{1676} + a_{1719} - a_{1739} + a_{1770} - a_{1844} \\
a_{2435} &= \frac{a_{1411} - \sqrt{a_{1411}^2 - 4x}}{2} \\
x &= a_{187} + 2a_{403} - a_{443} + a_{466} - 2a_{915} + a_{924} - \\
&\quad a_{978} + a_{548} - a_{571} + a_{600} + a_{615} + 2a_{1418} - \\
&\quad a_{1436} + a_{1441} + a_{1572} + a_{1602} - a_{1624} - a_{1639} - \\
&\quad 2a_{1683} + a_{1726} - a_{1746} + a_{1777} - a_{1851} \\
a_{2442} &= \frac{a_{1418} + \sqrt{a_{1418}^2 - 4x}}{2} \\
x &= a_{200} + 2a_{416} - a_{456} + a_{479} - 2a_{928} + a_{937} - \\
&\quad a_{991} + a_{561} - a_{584} + a_{613} + a_{628} + 2a_{1431} - \\
&\quad a_{1449} + a_{1454} + a_{1585} + a_{1615} - a_{1637} - a_{1652} - \\
&\quad 2a_{1696} + a_{1739} - a_{1759} + a_{1790} - a_{1864} \\
a_{2455} &= \frac{a_{1431} - \sqrt{a_{1431}^2 - 4x}}{2} \\
x &= a_{144} + 2a_{488} - a_{272} + a_{295} - 2a_{1000} + a_{1009} - \\
&\quad a_{551} + a_{633} - a_{656} + a_{685} + a_{700} + 2a_{1503} - \\
&\quad a_{1521} + a_{1526} + a_{1657} + a_{1687} - a_{1709} - a_{1724} - \\
&\quad 2a_{1768} + a_{1811} - a_{1831} + a_{1862} - a_{1936} \\
a_{2527} &= \frac{a_{1503} + \sqrt{a_{1503}^2 - 4x}}{2} \\
x &= a_{151} + 2a_{495} - a_{279} + a_{302} - 2a_{1007} + a_{1016} - \\
&\quad a_{558} + a_{640} - a_{663} + a_{692} + a_{707} + 2a_{1510} - \\
&\quad a_{1528} + a_{1533} + a_{1664} + a_{1694} - a_{1716} - a_{1731} - \\
&\quad 2a_{1775} + a_{1818} - a_{1838} + a_{1869} - a_{1943} \\
a_{2534} &= \frac{a_{1510} + \sqrt{a_{1510}^2 - 4x}}{2} \\
x &= a_{200} + 2a_{288} - a_{328} + a_{351} - 2a_{544} + a_{553} - \\
&\quad a_{607} + a_{689} - a_{712} + a_{741} + a_{756} + 2a_{1559} - \\
&\quad a_{1577} + a_{1582} + a_{1713} + a_{1743} - a_{1765} - a_{1780} - \\
&\quad 2a_{1824} + a_{1867} - a_{1887} + a_{1918} - a_{1992} \\
a_{2583} &= \frac{a_{1559} + \sqrt{a_{1559}^2 - 4x}}{2} \\
x &= a_{223} + 2a_{311} - a_{351} + a_{374} - 2a_{567} + a_{576} - \\
&\quad a_{630} + a_{712} - a_{735} + a_{764} + a_{779} + 2a_{1582} - \\
&\quad a_{1600} + a_{1605} + a_{1736} + a_{1766} - a_{1788} - a_{1803} - \\
&\quad 2a_{1847} + a_{1890} - a_{1910} + a_{1941} - a_{2015} \\
a_{2606} &= \frac{a_{1582} + \sqrt{a_{1582}^2 - 4x}}{2} \\
x &= a_{236} + 2a_{324} - a_{364} + a_{387} - 2a_{580} + a_{589} - \\
&\quad a_{643} + a_{725} - a_{748} + a_{777} + a_{792} + 2a_{1595} - \\
&\quad a_{1613} + a_{1618} + a_{1749} + a_{1779} - a_{1801} - a_{1816} - \\
&\quad 2a_{1860} + a_{1903} - a_{1923} + a_{1954} - a_{2028} \\
a_{2619} &= \frac{a_{1595} - \sqrt{a_{1595}^2 - 4x}}{2} \\
x &= a_{128} + 2a_{344} - a_{384} + a_{407} - 2a_{600} + a_{609} - \\
&\quad a_{663} + a_{745} - a_{768} + a_{797} + a_{812} + 2a_{1615} - \\
&\quad a_{1633} + a_{1638} + a_{1769} + a_{1799} - a_{1821} - a_{1836} - \\
&\quad 2a_{1880} + a_{1923} - a_{1943} + a_{1974} - a_{1024}
\end{aligned}
$$

$$
\begin{aligned}
a_{2639} &= \frac{a_{1615} - \sqrt{a_{1615}^2 - 4x}}{2} \\
x &= a_{151} + 2a_{367} - a_{407} + a_{430} - 2a_{623} + a_{632} - \\
&\quad a_{686} + a_{768} - a_{791} + a_{820} + a_{835} + 2a_{1638} - \\
&\quad a_{1656} + a_{1661} + a_{1792} + a_{1822} - a_{1844} - a_{1859} - \\
&\quad 2a_{1903} + a_{1946} - a_{1966} + a_{1997} - a_{1047} \\
a_{2662} &= \frac{a_{1638} - \sqrt{a_{1638}^2 - 4x}}{2} \\
x &= a_{164} + 2a_{380} - a_{420} + a_{443} - 2a_{636} + a_{645} - \\
&\quad a_{699} + a_{781} - a_{804} + a_{833} + a_{848} + 2a_{1651} - \\
&\quad a_{1669} + a_{1674} + a_{1805} + a_{1835} - a_{1857} - a_{1872} - \\
&\quad 2a_{1916} + a_{1959} - a_{1979} + a_{2010} - a_{1060} \\
a_{2675} &= \frac{a_{1651} + \sqrt{a_{1651}^2 - 4x}}{2} \\
x &= a_{187} + 2a_{403} - a_{443} + a_{466} - 2a_{659} + a_{668} - \\
&\quad a_{722} + a_{804} - a_{827} + a_{856} + a_{871} + 2a_{1674} - \\
&\quad a_{1692} + a_{1697} + a_{1828} + a_{1858} - a_{1880} - a_{1895} - \\
&\quad 2a_{1939} + a_{1982} - a_{2002} + a_{2033} - a_{1083} \\
a_{2698} &= \frac{a_{1674} + \sqrt{a_{1674}^2 - 4x}}{2} \\
x &= a_{220} + 2a_{436} - a_{476} + a_{499} - 2a_{692} + a_{701} - \\
&\quad a_{755} + a_{837} - a_{860} + a_{889} + a_{904} + 2a_{1707} - \\
&\quad a_{1725} + a_{1730} + a_{1861} + a_{1891} - a_{1913} - a_{1928} - \\
&\quad 2a_{1972} + a_{2015} - a_{2035} + a_{1042} - a_{1116}
\end{aligned}
$$

$$
\begin{aligned}
a_{2731} &= \frac{a_{1707} + \sqrt{a_{1707}^2 - 4x}}{2} \\
x &= a_{221} + 2a_{437} - a_{477} + a_{500} - 2a_{693} + a_{702} - \\
&\quad a_{756} + a_{838} - a_{861} + a_{890} + a_{905} + 2a_{1708} - \\
&\quad a_{1726} + a_{1731} + a_{1862} + a_{1892} - a_{1914} - a_{1929} - \\
&\quad 2a_{1973} + a_{2016} - a_{2036} + a_{1043} - a_{1117} \\
a_{2732} &= \frac{a_{1708} + \sqrt{a_{1708}^2 - 4x}}{2} \\
x &= a_{222} + 2a_{438} - a_{478} + a_{501} - 2a_{694} + a_{703} - \\
&\quad a_{757} + a_{839} - a_{862} + a_{891} + a_{906} + 2a_{1709} - \\
&\quad a_{1727} + a_{1732} + a_{1863} + a_{1893} - a_{1915} - a_{1930} - \\
&\quad 2a_{1974} + a_{2017} - a_{2037} + a_{1044} - a_{1118} \\
a_{2733} &= \frac{a_{1709} - \sqrt{a_{1709}^2 - 4x}}{2} \\
x &= a_{243} + 2a_{459} - a_{499} + a_{266} - 2a_{715} + a_{724} - \\
&\quad a_{778} + a_{860} - a_{883} + a_{912} + a_{927} + 2a_{1730} - \\
&\quad a_{1748} + a_{1753} + a_{1884} + a_{1914} - a_{1936} - a_{1951} - \\
&\quad 2a_{1995} + a_{2038} - a_{1034} + a_{1065} - a_{1139} \\
a_{2754} &= \frac{a_{1730} + \sqrt{a_{1730}^2 - 4x}}{2} \\
x &= a_{244} + 2a_{460} - a_{500} + a_{267} - 2a_{716} + a_{725} - \\
&\quad a_{779} + a_{861} - a_{884} + a_{913} + a_{928} + 2a_{1731} - \\
&\quad a_{1749} + a_{1754} + a_{1885} + a_{1915} - a_{1937} - a_{1952} - \\
&\quad 2a_{1996} + a_{2039} - a_{1035} + a_{1066} - a_{1140} \\
a_{2755} &= \frac{a_{1731} + \sqrt{a_{1731}^2 - 4x}}{2}
\end{aligned}
$$

$$
\begin{aligned}
x &= a_{245} + 2a_{461} - a_{501} + a_{268} - 2a_{717} + a_{726} - \\
&\quad a_{780} + a_{862} - a_{885} + a_{914} + a_{929} + 2a_{1732} - \\
&\quad a_{1750} + a_{1755} + a_{1886} + a_{1916} - a_{1938} - a_{1953} - \\
&\quad 2a_{1997} + a_{2040} - a_{1036} + a_{1067} - a_{1141} \\
a_{2756} &= \frac{a_{1732} + \sqrt{a_{1732}^2 - 4x}}{2} \\
x &= a_{128} + 2a_{472} - a_{256} + a_{279} - 2a_{728} + a_{737} - \\
&\quad a_{791} + a_{873} - a_{896} + a_{925} + a_{940} + 2a_{1743} - \\
&\quad a_{1761} + a_{1766} + a_{1897} + a_{1927} - a_{1949} - a_{1964} - \\
&\quad 2a_{2008} + a_{1027} - a_{1047} + a_{1078} - a_{1152} \\
a_{2767} &= \frac{a_{1743} + \sqrt{a_{1743}^2 - 4x}}{2} \\
x &= a_{151} + 2a_{495} - a_{279} + a_{302} - 2a_{751} + a_{760} - \\
&\quad a_{814} + a_{896} - a_{919} + a_{948} + a_{963} + 2a_{1766} - \\
&\quad a_{1784} + a_{1789} + a_{1920} + a_{1950} - a_{1972} - a_{1987} - \\
&\quad 2a_{2031} + a_{1050} - a_{1070} + a_{1101} - a_{1175} \\
a_{2790} &= \frac{a_{1766} + \sqrt{a_{1766}^2 - 4x}}{2} \\
x &= a_{184} + 2a_{272} - a_{312} + a_{335} - 2a_{784} + a_{793} - \\
&\quad a_{847} + a_{929} - a_{952} + a_{981} + a_{996} + 2a_{1799} - \\
&\quad a_{1817} + a_{1822} + a_{1953} + a_{1983} - a_{2005} - a_{2020} - \\
&\quad 2a_{1040} + a_{1083} - a_{1103} + a_{1134} - a_{1208} \\
a_{2823} &= \frac{a_{1799} + \sqrt{a_{1799}^2 - 4x}}{2} \\
x &= a_{185} + 2a_{273} - a_{313} + a_{336} - 2a_{785} + a_{794} - \\
&\quad a_{848} + a_{930} - a_{953} + a_{982} + a_{997} + 2a_{1800} - \\
&\quad a_{1818} + a_{1823} + a_{1954} + a_{1984} - a_{2006} - a_{2021} - \\
&\quad 2a_{1041} + a_{1084} - a_{1104} + a_{1135} - a_{1209} \\
a_{2824} &= \frac{a_{1800} + \sqrt{a_{1800}^2 - 4x}}{2} \\
x &= a_{186} + 2a_{274} - a_{314} + a_{337} - 2a_{786} + a_{795} - \\
&\quad a_{849} + a_{931} - a_{954} + a_{983} + a_{998} + 2a_{1801} - \\
&\quad a_{1819} + a_{1824} + a_{1955} + a_{1985} - a_{2007} - a_{2022} - \\
&\quad 2a_{1042} + a_{1085} - a_{1105} + a_{1136} - a_{1210}
\end{aligned}
$$

$$
\begin{aligned}
a_{2825} &= \frac{a_{1801} + \sqrt{a_{1801}^2 - 4x}}{2} \\
x &= a_{191} + 2a_{279} - a_{319} + a_{342} - 2a_{791} + a_{800} - \\
&\quad a_{854} + a_{936} - a_{959} + a_{988} + a_{1003} + 2a_{1806} - \\
&\quad a_{1824} + a_{1829} + a_{1960} + a_{1990} - a_{2012} - a_{2027} - \\
&\quad 2a_{1047} + a_{1090} - a_{1110} + a_{1141} - a_{1215} \\
a_{2830} &= \frac{a_{1806} - \sqrt{a_{1806}^2 - 4x}}{2} \\
x &= a_{192} + 2a_{280} - a_{320} + a_{343} - 2a_{792} + a_{801} - \\
&\quad a_{855} + a_{937} - a_{960} + a_{989} + a_{1004} + 2a_{1807} - \\
&\quad a_{1825} + a_{1830} + a_{1961} + a_{1991} - a_{2013} - a_{2028} - \\
&\quad 2a_{1048} + a_{1091} - a_{1111} + a_{1142} - a_{1216} \\
a_{2831} &= \frac{a_{1807} + \sqrt{a_{1807}^2 - 4x}}{2} \\
x &= a_{193} + 2a_{281} - a_{321} + a_{344} - 2a_{793} + a_{802} - \\
&\quad a_{856} + a_{938} - a_{961} + a_{990} + a_{1005} + 2a_{1808} -
\end{aligned}
$$

$$
\begin{aligned}
& a_{1826} + a_{1831} + a_{1962} + a_{1992} - a_{2014} - a_{2029} - \\
& 2a_{1049} + a_{1092} - a_{1112} + a_{1143} - a_{1217} \\
a_{2832} &= \frac{a_{1808} - \sqrt{a_{1808}^2 - 4x}}{2} \\
x &= a_{207} + 2a_{295} - a_{335} + a_{358} - 2a_{807} + a_{816} - \\
& a_{870} + a_{952} - a_{975} + a_{1004} + a_{1019} + 2a_{1822} - \\
& a_{1840} + a_{1845} + a_{1976} + a_{2006} - a_{2028} - a_{2043} - \\
& 2a_{1063} + a_{1106} - a_{1126} + a_{1157} - a_{1231} \\
a_{2846} &= \frac{a_{1822} + \sqrt{a_{1822}^2 - 4x}}{2} \\
x &= a_{208} + 2a_{296} - a_{336} + a_{359} - 2a_{808} + a_{817} - \\
& a_{871} + a_{953} - a_{976} + a_{1005} + a_{1020} + 2a_{1823} - \\
& a_{1841} + a_{1846} + a_{1977} + a_{2007} - a_{2029} - a_{2044} - \\
& 2a_{1064} + a_{1107} - a_{1127} + a_{1158} - a_{1232} \\
a_{2847} &= \frac{a_{1823} + \sqrt{a_{1823}^2 - 4x}}{2} \\
x &= a_{209} + 2a_{297} - a_{337} + a_{360} - 2a_{809} + a_{818} - \\
& a_{872} + a_{954} - a_{977} + a_{1006} + a_{1021} + 2a_{1824} - \\
& a_{1842} + a_{1847} + a_{1978} + a_{2008} - a_{2030} - a_{2045} - \\
& 2a_{1065} + a_{1108} - a_{1128} + a_{1159} - a_{1233} \\
a_{2848} &= \frac{a_{1824} + \sqrt{a_{1824}^2 - 4x}}{2} \\
x &= a_{247} + 2a_{335} - a_{375} + a_{398} - 2a_{847} + a_{856} - \\
& a_{910} + a_{992} - a_{1015} + a_{532} + a_{547} + 2a_{1862} - \\
& a_{1880} + a_{1885} + a_{2016} + a_{2046} - a_{1044} - a_{1059} - \\
& 2a_{1103} + a_{1146} - a_{1166} + a_{1197} - a_{1271} \\
a_{2886} &= \frac{a_{1862} - \sqrt{a_{1862}^2 - 4x}}{2} \\
x &= a_{248} + 2a_{336} - a_{376} + a_{399} - 2a_{848} + a_{857} - \\
& a_{911} + a_{993} - a_{1016} + a_{533} + a_{548} + 2a_{1863} - \\
& a_{1881} + a_{1886} + a_{2017} + a_{1023} - a_{1045} - a_{1060} - \\
& 2a_{1104} + a_{1147} - a_{1167} + a_{1198} - a_{1272} \\
a_{2887} &= \frac{a_{1863} - \sqrt{a_{1863}^2 - 4x}}{2} \\
x &= a_{249} + 2a_{337} - a_{377} + a_{400} - 2a_{849} + a_{858} - \\
& a_{912} + a_{994} - a_{1017} + a_{534} + a_{549} + 2a_{1864} - \\
& a_{1882} + a_{1887} + a_{2018} + a_{1024} - a_{1046} - a_{1061} - \\
& 2a_{1105} + a_{1148} - a_{1168} + a_{1199} - a_{1273} \\
a_{2888} &= \frac{a_{1864} - \sqrt{a_{1864}^2 - 4x}}{2} \\
x &= a_{138} + 2a_{354} - a_{394} + a_{417} - 2a_{866} + a_{875} - \\
& a_{929} + a_{1011} - a_{522} + a_{551} + a_{566} + 2a_{1881} - \\
& a_{1899} + a_{1904} + a_{2035} + a_{1041} - a_{1063} - a_{1078} - \\
& 2a_{1122} + a_{1165} - a_{1185} + a_{1216} - a_{1290}
\end{aligned}
$$

$$
\begin{aligned}
a_{2905} &= \frac{a_{1881} + \sqrt{a_{1881}^2 - 4x}}{2} \\
x &= a_{149} + 2a_{365} - a_{405} + a_{428} - 2a_{877} + a_{886} - \\
& a_{940} + a_{1022} - a_{533} + a_{562} + a_{577} + 2a_{1892} - \\
& a_{1910} + a_{1915} + a_{2046} + a_{1052} - a_{1074} - a_{1089} - \\
& 2a_{1133} + a_{1176} - a_{1196} + a_{1227} - a_{1301} \\
a_{2916} &= \frac{a_{1892} - \sqrt{a_{1892}^2 - 4x}}{2} \\
x &= a_{150} + 2a_{366} - a_{406} + a_{429} - 2a_{878} + a_{887} - \\
& a_{941} + a_{511} - a_{534} + a_{563} + a_{578} + 2a_{1893} - \\
& a_{1911} + a_{1916} + a_{1023} + a_{1053} - a_{1075} - a_{1090} - \\
& 2a_{1134} + a_{1177} - a_{1197} + a_{1228} - a_{1302} \\
a_{2917} &= \frac{a_{1893} + \sqrt{a_{1893}^2 - 4x}}{2} \\
x &= a_{155} + 2a_{371} - a_{411} + a_{434} - 2a_{883} + a_{892} - \\
& a_{946} + a_{516} - a_{539} + a_{568} + a_{583} + 2a_{1898} - \\
& a_{1916} + a_{1921} + a_{1028} + a_{1058} - a_{1080} - a_{1095} - \\
& 2a_{1139} + a_{1182} - a_{1202} + a_{1233} - a_{1307} \\
a_{2922} &= \frac{a_{1898} - \sqrt{a_{1898}^2 - 4x}}{2} \\
x &= a_{156} + 2a_{372} - a_{412} + a_{435} - 2a_{884} + a_{893} - \\
& a_{947} + a_{517} - a_{540} + a_{569} + a_{584} + 2a_{1899} - \\
& a_{1917} + a_{1922} + a_{1029} + a_{1059} - a_{1081} - a_{1096} - \\
& 2a_{1140} + a_{1183} - a_{1203} + a_{1234} - a_{1308} \\
a_{2923} &= \frac{a_{1899} - \sqrt{a_{1899}^2 - 4x}}{2} \\
x &= a_{157} + 2a_{373} - a_{413} + a_{436} - 2a_{885} + a_{894} - \\
& a_{948} + a_{518} - a_{541} + a_{570} + a_{585} + 2a_{1900} - \\
& a_{1918} + a_{1923} + a_{1030} + a_{1060} - a_{1082} - a_{1097} - \\
& 2a_{1141} + a_{1184} - a_{1204} + a_{1235} - a_{1309} \\
a_{2924} &= \frac{a_{1900} - \sqrt{a_{1900}^2 - 4x}}{2} \\
x &= a_{172} + 2a_{388} - a_{428} + a_{451} - 2a_{900} + a_{909} - \\
& a_{963} + a_{533} - a_{556} + a_{585} + a_{600} + 2a_{1915} - \\
& a_{1933} + a_{1938} + a_{1045} + a_{1075} - a_{1097} - a_{1112} - \\
& 2a_{1156} + a_{1199} - a_{1219} + a_{1250} - a_{1324} \\
a_{2939} &= \frac{a_{1915} - \sqrt{a_{1915}^2 - 4x}}{2} \\
x &= a_{173} + 2a_{389} - a_{429} + a_{452} - 2a_{901} + a_{910} - \\
& a_{964} + a_{534} - a_{557} + a_{586} + a_{601} + 2a_{1916} - \\
& a_{1934} + a_{1939} + a_{1046} + a_{1076} - a_{1098} - a_{1113} - \\
& 2a_{1157} + a_{1200} - a_{1220} + a_{1251} - a_{1325} \\
a_{2940} &= \frac{a_{1916} - \sqrt{a_{1916}^2 - 4x}}{2} \\
x &= a_{194} + 2a_{410} - a_{450} + a_{473} - 2a_{922} + a_{931} - \\
& a_{985} + a_{555} - a_{578} + a_{607} + a_{622} + 2a_{1937} - \\
& a_{1955} + a_{1960} + a_{1067} + a_{1097} - a_{1119} - a_{1134} - \\
& 2a_{1178} + a_{1221} - a_{1241} + a_{1272} - a_{1346} \\
a_{2961} &= \frac{a_{1937} - \sqrt{a_{1937}^2 - 4x}}{2} \\
x &= a_{206} + 2a_{422} - a_{462} + a_{485} - 2a_{934} + a_{943} - \\
& a_{997} + a_{567} - a_{590} + a_{619} + a_{634} + 2a_{1949} - \\
& a_{1967} + a_{1972} + a_{1079} + a_{1109} - a_{1131} - a_{1146} - \\
& 2a_{1190} + a_{1233} - a_{1253} + a_{1284} - a_{1358} \\
a_{2973} &= \frac{a_{1949} + \sqrt{a_{1949}^2 - 4x}}{2} \\
x &= a_{211} + 2a_{427} - a_{467} + a_{490} - 2a_{939} + a_{948} - \\
& a_{1002} + a_{572} - a_{595} + a_{624} + a_{639} + 2a_{1954} -
\end{aligned}
$$

$$a_{1972} + a_{1977} + a_{1084} + a_{1114} - a_{1136} - a_{1151} - 2a_{1195} + a_{1238} - a_{1258} + a_{1289} - a_{1363}$$

$$a_{2978} = \frac{a_{1954} - \sqrt{a_{1954}^2 - 4x}}{2}$$
$$x = a_{212} + 2a_{428} - a_{468} + a_{491} - 2a_{940} + a_{949} - a_{1003} + a_{573} - a_{596} + a_{625} + a_{640} + 2a_{1955} - a_{1973} + a_{1978} + a_{1085} + a_{1115} - a_{1137} - a_{1152} - 2a_{1196} + a_{1239} - a_{1259} + a_{1290} - a_{1364}$$

$$a_{2979} = \frac{a_{1955} - \sqrt{a_{1955}^2 - 4x}}{2}$$
$$x = a_{213} + 2a_{429} - a_{469} + a_{492} - 2a_{941} + a_{950} - a_{1004} + a_{574} - a_{597} + a_{626} + a_{641} + 2a_{1956} - a_{1974} + a_{1979} + a_{1086} + a_{1116} - a_{1138} - a_{1153} - 2a_{1197} + a_{1240} - a_{1260} + a_{1291} - a_{1365}$$

$$a_{2980} = \frac{a_{1956} - \sqrt{a_{1956}^2 - 4x}}{2}$$
$$x = a_{214} + 2a_{430} - a_{470} + a_{493} - 2a_{942} + a_{951} - a_{1005} + a_{575} - a_{598} + a_{627} + a_{642} + 2a_{1957} - a_{1975} + a_{1980} + a_{1087} + a_{1117} - a_{1139} - a_{1154} - 2a_{1198} + a_{1241} - a_{1261} + a_{1292} - a_{1366}$$

$$a_{2981} = \frac{a_{1957} - \sqrt{a_{1957}^2 - 4x}}{2}$$
$$x = a_{215} + 2a_{431} - a_{471} + a_{494} - 2a_{943} + a_{952} - a_{1006} + a_{576} - a_{599} + a_{628} + a_{643} + 2a_{1958} - a_{1976} + a_{1981} + a_{1088} + a_{1118} - a_{1140} - a_{1155} - 2a_{1199} + a_{1242} - a_{1262} + a_{1293} - a_{1367}$$

$$a_{2982} = \frac{a_{1958} - \sqrt{a_{1958}^2 - 4x}}{2}$$
$$x = a_{217} + 2a_{433} - a_{473} + a_{496} - 2a_{945} + a_{954} - a_{1008} + a_{578} - a_{601} + a_{630} + a_{645} + 2a_{1960} - a_{1978} + a_{1983} + a_{1090} + a_{1120} - a_{1142} - a_{1157} - 2a_{1201} + a_{1244} - a_{1264} + a_{1295} - a_{1369}$$

$$a_{2984} = \frac{a_{1960} - \sqrt{a_{1960}^2 - 4x}}{2}$$
$$x = a_{229} + 2a_{445} - a_{485} + a_{508} - 2a_{957} + a_{966} - a_{1020} + a_{590} - a_{613} + a_{642} + a_{657} + 2a_{1972} - a_{1990} + a_{1995} + a_{1102} + a_{1132} - a_{1154} - a_{1169} - 2a_{1213} + a_{1256} - a_{1276} + a_{1307} - a_{1381}$$

$$a_{2996} = \frac{a_{1972} - \sqrt{a_{1972}^2 - 4x}}{2}$$
$$x = a_{230} + 2a_{446} - a_{486} + a_{509} - 2a_{958} + a_{967} - a_{1021} + a_{591} - a_{614} + a_{643} + a_{658} + 2a_{1973} - a_{1991} + a_{1996} + a_{1103} + a_{1133} - a_{1155} - a_{1170} - 2a_{1214} + a_{1257} - a_{1277} + a_{1308} - a_{1382}$$

$$a_{2997} = \frac{a_{1973} + \sqrt{a_{1973}^2 - 4x}}{2}$$
$$x = a_{247} + 2a_{463} - a_{503} + a_{270} - 2a_{975} + a_{984} - a_{526} + a_{608} - a_{631} + a_{660} + a_{675} + 2a_{1990} - a_{2008} + a_{2013} + a_{1120} + a_{1150} - a_{1172} - a_{1187} - 2a_{1231} + a_{1274} - a_{1294} + a_{1325} - a_{1399}$$

$$a_{3014} = \frac{a_{1990} + \sqrt{a_{1990}^2 - 4x}}{2}$$
$$x = a_{248} + 2a_{464} - a_{504} + a_{271} - 2a_{976} + a_{985} - a_{527} + a_{609} - a_{632} + a_{661} + a_{676} + 2a_{1991} - a_{2009} + a_{2014} + a_{1121} + a_{1151} - a_{1173} - a_{1188} - 2a_{1232} + a_{1275} - a_{1295} + a_{1326} - a_{1400}$$

$$a_{3015} = \frac{a_{1991} - \sqrt{a_{1991}^2 - 4x}}{2}$$
$$x = a_{249} + 2a_{465} - a_{505} + a_{272} - 2a_{977} + a_{986} - a_{528} + a_{610} - a_{633} + a_{662} + a_{677} + 2a_{1992} - a_{2010} + a_{2015} + a_{1122} + a_{1152} - a_{1174} - a_{1189} - 2a_{1233} + a_{1276} - a_{1296} + a_{1327} - a_{1401}$$

$$a_{3016} = \frac{a_{1992} - \sqrt{a_{1992}^2 - 4x}}{2}$$
$$x = a_{145} + 2a_{489} - a_{273} + a_{296} - 2a_{1001} + a_{1010} - a_{552} + a_{634} - a_{657} + a_{686} + a_{701} + 2a_{2016} - a_{2034} + a_{2039} + a_{1146} + a_{1176} - a_{1198} - a_{1213} - 2a_{1257} + a_{1300} - a_{1320} + a_{1351} - a_{1425}$$

$$a_{3040} = \frac{a_{2016} - \sqrt{a_{2016}^2 - 4x}}{2}$$
$$x = a_{158} + 2a_{502} - a_{286} + a_{309} - 2a_{1014} + a_{511} - a_{565} + a_{647} - a_{670} + a_{699} + a_{714} + 2a_{2029} - a_{1023} + a_{1028} + a_{1159} + a_{1189} - a_{1211} - a_{1226} - 2a_{1270} + a_{1313} - a_{1333} + a_{1364} - a_{1438}$$

$$a_{3053} = \frac{a_{2029} + \sqrt{a_{2029}^2 - 4x}}{2}$$
$$x = a_{159} + 2a_{503} - a_{287} + a_{310} - 2a_{1015} + a_{512} - a_{566} + a_{648} - a_{671} + a_{700} + a_{715} + 2a_{2030} - a_{1024} + a_{1029} + a_{1160} + a_{1190} - a_{1212} - a_{1227} - 2a_{1271} + a_{1314} - a_{1334} + a_{1365} - a_{1439}$$

$$a_{3054} = \frac{a_{2030} + \sqrt{a_{2030}^2 - 4x}}{2}$$
$$x = a_{160} + 2a_{504} - a_{288} + a_{311} - 2a_{1016} + a_{513} - a_{567} + a_{649} - a_{672} + a_{701} + a_{716} + 2a_{2031} - a_{1025} + a_{1030} + a_{1161} + a_{1191} - a_{1213} - a_{1228} - 2a_{1272} + a_{1315} - a_{1335} + a_{1366} - a_{1440}$$

$$a_{3055} = \frac{a_{2031} - \sqrt{a_{2031}^2 - 4x}}{2}$$
$$x = a_{170} + 2a_{258} - a_{298} + a_{321} - 2a_{514} + a_{523} - a_{577} + a_{659} - a_{682} + a_{711} + a_{726} + 2a_{2041} - a_{1035} + a_{1040} + a_{1171} + a_{1201} - a_{1223} - a_{1238} - 2a_{1282} + a_{1325} - a_{1345} + a_{1376} - a_{1450}$$

$$a_{3065} = \frac{a_{2041} + \sqrt{a_{2041}^2 - 4x}}{2}$$
$$x = a_{174} + 2a_{262} - a_{302} + a_{325} - 2a_{518} + a_{527} - a_{581} + a_{663} - a_{686} + a_{715} + a_{730} + 2a_{2045} - a_{1039} + a_{1044} + a_{1175} + a_{1205} - a_{1227} - a_{1242} - 2a_{1286} + a_{1329} - a_{1349} + a_{1380} - a_{1454}$$

$$a_{3069} = \frac{a_{2045} - \sqrt{a_{2045}^2 - 4x}}{2}$$

$$
\begin{aligned}
x &= a_{175} + 2a_{263} - a_{303} + a_{326} - 2a_{519} + a_{528} - \\
&\quad a_{582} + a_{664} - a_{687} + a_{716} + a_{731} + 2a_{2046} - \\
&\quad a_{1040} + a_{1045} + a_{1176} + a_{1206} - a_{1228} - a_{1243} - \\
&\quad 2a_{1287} + a_{1330} - a_{1350} + a_{1381} - a_{1455} \\
a_{3070} &= \frac{a_{2046} + \sqrt{a_{2046}^2 - 4x}}{2} \\
x &= a_{176} + 2a_{264} - a_{304} + a_{327} - 2a_{520} + a_{529} - \\
&\quad a_{583} + a_{665} - a_{688} + a_{717} + a_{732} + 2a_{1023} - \\
&\quad a_{1041} + a_{1046} + a_{1177} + a_{1207} - a_{1229} - a_{1244} - \\
&\quad 2a_{1288} + a_{1331} - a_{1351} + a_{1382} - a_{1456} \\
a_{3071} &= \frac{a_{1023} - \sqrt{a_{1023}^2 - 4x}}{2} \\
x &= a_{177} + 2a_{265} - a_{305} + a_{328} - 2a_{521} + a_{530} - \\
&\quad a_{584} + a_{666} - a_{689} + a_{718} + a_{733} + 2a_{1024} - \\
&\quad a_{1042} + a_{1047} + a_{1178} + a_{1208} - a_{1230} - a_{1245} - \\
&\quad 2a_{1289} + a_{1332} - a_{1352} + a_{1383} - a_{1457} \\
a_{3072} &= \frac{a_{1024} - \sqrt{a_{1024}^2 - 4x}}{2} \\
x &= a_{178} + 2a_{266} - a_{306} + a_{329} - 2a_{522} + a_{531} - \\
&\quad a_{585} + a_{667} - a_{690} + a_{719} + a_{734} + 2a_{1025} - \\
&\quad a_{1043} + a_{1048} + a_{1179} + a_{1209} - a_{1231} - a_{1246} - \\
&\quad 2a_{1290} + a_{1333} - a_{1353} + a_{1384} - a_{1458}
\end{aligned}
$$

$$
\begin{aligned}
a_{3073} &= \frac{a_{1025} - \sqrt{a_{1025}^2 - 4x}}{2} \\
x &= a_{179} + 2a_{267} - a_{307} + a_{330} - 2a_{523} + a_{532} - \\
&\quad a_{586} + a_{668} - a_{691} + a_{720} + a_{735} + 2a_{1026} - \\
&\quad a_{1044} + a_{1049} + a_{1180} + a_{1210} - a_{1232} - a_{1247} - \\
&\quad 2a_{1291} + a_{1334} - a_{1354} + a_{1385} - a_{1459} \\
a_{3074} &= \frac{a_{1026} - \sqrt{a_{1026}^2 - 4x}}{2} \\
x &= a_{181} + 2a_{269} - a_{309} + a_{332} - 2a_{525} + a_{534} - \\
&\quad a_{588} + a_{670} - a_{693} + a_{722} + a_{737} + 2a_{1028} - \\
&\quad a_{1046} + a_{1051} + a_{1182} + a_{1212} - a_{1234} - a_{1249} - \\
&\quad 2a_{1293} + a_{1336} - a_{1356} + a_{1387} - a_{1461} \\
a_{3076} &= \frac{a_{1028} - \sqrt{a_{1028}^2 - 4x}}{2} \\
x &= a_{193} + 2a_{281} - a_{321} + a_{344} - 2a_{537} + a_{546} - \\
&\quad a_{600} + a_{682} - a_{705} + a_{734} + a_{749} + 2a_{1040} - \\
&\quad a_{1058} + a_{1063} + a_{1194} + a_{1224} - a_{1246} - a_{1261} - \\
&\quad 2a_{1305} + a_{1348} - a_{1368} + a_{1399} - a_{1473} \\
a_{3088} &= \frac{a_{1040} - \sqrt{a_{1040}^2 - 4x}}{2} \\
x &= a_{194} + 2a_{282} - a_{322} + a_{345} - 2a_{538} + a_{547} - \\
&\quad a_{601} + a_{683} - a_{706} + a_{735} + a_{750} + 2a_{1041} - \\
&\quad a_{1059} + a_{1064} + a_{1195} + a_{1225} - a_{1247} - a_{1262} - \\
&\quad 2a_{1306} + a_{1349} - a_{1369} + a_{1400} - a_{1474} \\
a_{3089} &= \frac{a_{1041} - \sqrt{a_{1041}^2 - 4x}}{2} \\
x &= a_{230} + 2a_{318} - a_{358} + a_{381} - 2a_{574} + a_{583} - \\
&\quad a_{637} + a_{719} - a_{742} + a_{771} + a_{786} + 2a_{1077} - \\
&\quad a_{1095} + a_{1100} + a_{1231} + a_{1261} - a_{1283} - a_{1298} - \\
&\quad 2a_{1342} + a_{1385} - a_{1405} + a_{1436} - a_{1510} \\
a_{3125} &= \frac{a_{1077} + \sqrt{a_{1077}^2 - 4x}}{2} \\
x &= a_{237} + 2a_{325} - a_{365} + a_{388} - 2a_{581} + a_{590} - \\
&\quad a_{644} + a_{726} - a_{749} + a_{778} + a_{793} + 2a_{1084} - \\
&\quad a_{1102} + a_{1107} + a_{1238} + a_{1268} - a_{1290} - a_{1305} - \\
&\quad 2a_{1349} + a_{1392} - a_{1412} + a_{1443} - a_{1517} \\
a_{3132} &= \frac{a_{1084} - \sqrt{a_{1084}^2 - 4x}}{2} \\
x &= a_{238} + 2a_{326} - a_{366} + a_{389} - 2a_{582} + a_{591} - \\
&\quad a_{645} + a_{727} - a_{750} + a_{779} + a_{794} + 2a_{1085} - \\
&\quad a_{1103} + a_{1108} + a_{1239} + a_{1269} - a_{1291} - a_{1306} - \\
&\quad 2a_{1350} + a_{1393} - a_{1413} + a_{1444} - a_{1518} \\
a_{3133} &= \frac{a_{1085} + \sqrt{a_{1085}^2 - 4x}}{2} \\
x &= a_{239} + 2a_{327} - a_{367} + a_{390} - 2a_{583} + a_{592} - \\
&\quad a_{646} + a_{728} - a_{751} + a_{780} + a_{795} + 2a_{1086} - \\
&\quad a_{1104} + a_{1109} + a_{1240} + a_{1270} - a_{1292} - a_{1307} - \\
&\quad 2a_{1351} + a_{1394} - a_{1414} + a_{1445} - a_{1519} \\
a_{3134} &= \frac{a_{1086} - \sqrt{a_{1086}^2 - 4x}}{2} \\
x &= a_{250} + 2a_{338} - a_{378} + a_{401} - 2a_{594} + a_{603} - \\
&\quad a_{657} + a_{739} - a_{762} + a_{791} + a_{806} + 2a_{1097} - \\
&\quad a_{1115} + a_{1120} + a_{1251} + a_{1281} - a_{1303} - a_{1318} - \\
&\quad 2a_{1362} + a_{1405} - a_{1425} + a_{1456} - a_{1530} \\
a_{3145} &= \frac{a_{1097} + \sqrt{a_{1097}^2 - 4x}}{2} \\
x &= a_{251} + 2a_{339} - a_{379} + a_{402} - 2a_{595} + a_{604} - \\
&\quad a_{658} + a_{740} - a_{763} + a_{792} + a_{807} + 2a_{1098} - \\
&\quad a_{1116} + a_{1121} + a_{1252} + a_{1282} - a_{1304} - a_{1319} - \\
&\quad 2a_{1363} + a_{1406} - a_{1426} + a_{1457} - a_{1531}
\end{aligned}
$$

$$
\begin{aligned}
a_{3146} &= \frac{a_{1098} + \sqrt{a_{1098}^2 - 4x}}{2} \\
x &= a_{252} + 2a_{340} - a_{380} + a_{403} - 2a_{596} + a_{605} - \\
&\quad a_{659} + a_{741} - a_{764} + a_{793} + a_{808} + 2a_{1099} - \\
&\quad a_{1117} + a_{1122} + a_{1253} + a_{1283} - a_{1305} - a_{1320} - \\
&\quad 2a_{1364} + a_{1407} - a_{1427} + a_{1458} - a_{1532} \\
a_{3147} &= \frac{a_{1099} + \sqrt{a_{1099}^2 - 4x}}{2} \\
x &= a_{134} + 2a_{350} - a_{390} + a_{413} - 2a_{606} + a_{615} - \\
&\quad a_{669} + a_{751} - a_{774} + a_{803} + a_{818} + 2a_{1109} - \\
&\quad a_{1127} + a_{1132} + a_{1263} + a_{1293} - a_{1315} - a_{1330} - \\
&\quad 2a_{1374} + a_{1417} - a_{1437} + a_{1468} - a_{1542} \\
a_{3157} &= \frac{a_{1109} - \sqrt{a_{1109}^2 - 4x}}{2} \\
x &= a_{138} + 2a_{354} - a_{394} + a_{417} - 2a_{610} + a_{619} - \\
&\quad a_{673} + a_{755} - a_{778} + a_{807} + a_{822} + 2a_{1113} - \\
&\quad a_{1131} + a_{1136} + a_{1267} + a_{1297} - a_{1319} - a_{1334} - \\
&\quad 2a_{1378} + a_{1421} - a_{1441} + a_{1472} - a_{1546}
\end{aligned}
$$

$$a_{3161} = \frac{a_{1113} + \sqrt{a_{1113}^2 - 4x}}{2}$$
$$x = a_{140} + 2a_{356} - a_{396} + a_{419} - 2a_{612} + a_{621} - a_{675} + a_{757} - a_{780} + a_{809} + a_{824} + 2a_{1115} - a_{1133} + a_{1138} + a_{1269} + a_{1299} - a_{1321} - a_{1336} - 2a_{1380} + a_{1423} - a_{1443} + a_{1474} - a_{1548}$$
$$a_{3163} = \frac{a_{1115} + \sqrt{a_{1115}^2 - 4x}}{2}$$
$$x = a_{141} + 2a_{357} - a_{397} + a_{420} - 2a_{613} + a_{622} - a_{676} + a_{758} - a_{781} + a_{810} + a_{825} + 2a_{1116} - a_{1134} + a_{1139} + a_{1270} + a_{1300} - a_{1322} - a_{1337} - 2a_{1381} + a_{1424} - a_{1444} + a_{1475} - a_{1549}$$
$$a_{3164} = \frac{a_{1116} + \sqrt{a_{1116}^2 - 4x}}{2}$$
$$x = a_{142} + 2a_{358} - a_{398} + a_{421} - 2a_{614} + a_{623} - a_{677} + a_{759} - a_{782} + a_{811} + a_{826} + 2a_{1117} - a_{1135} + a_{1140} + a_{1271} + a_{1301} - a_{1323} - a_{1338} - 2a_{1382} + a_{1425} - a_{1445} + a_{1476} - a_{1550}$$
$$a_{3165} = \frac{a_{1117} + \sqrt{a_{1117}^2 - 4x}}{2}$$
$$x = a_{143} + 2a_{359} - a_{399} + a_{422} - 2a_{615} + a_{624} - a_{678} + a_{760} - a_{783} + a_{812} + a_{827} + 2a_{1118} - a_{1136} + a_{1141} + a_{1272} + a_{1302} - a_{1324} - a_{1339} - 2a_{1383} + a_{1426} - a_{1446} + a_{1477} - a_{1551}$$
$$a_{3166} = \frac{a_{1118} + \sqrt{a_{1118}^2 - 4x}}{2}$$
$$x = a_{145} + 2a_{361} - a_{401} + a_{424} - 2a_{617} + a_{626} - a_{680} + a_{762} - a_{785} + a_{814} + a_{829} + 2a_{1120} - a_{1138} + a_{1143} + a_{1274} + a_{1304} - a_{1326} - a_{1341} - 2a_{1385} + a_{1428} - a_{1448} + a_{1479} - a_{1553}$$
$$a_{3168} = \frac{a_{1120} + \sqrt{a_{1120}^2 - 4x}}{2}$$
$$x = a_{157} + 2a_{373} - a_{413} + a_{436} - 2a_{629} + a_{638} - a_{692} + a_{774} - a_{797} + a_{826} + a_{841} + 2a_{1132} - a_{1150} + a_{1155} + a_{1286} + a_{1316} - a_{1338} - a_{1353} - 2a_{1397} + a_{1440} - a_{1460} + a_{1491} - a_{1565}$$
$$a_{3180} = \frac{a_{1132} - \sqrt{a_{1132}^2 - 4x}}{2}$$
$$x = a_{194} + 2a_{410} - a_{450} + a_{473} - 2a_{666} + a_{675} - a_{729} + a_{811} - a_{834} + a_{863} + a_{878} + 2a_{1169} - a_{1187} + a_{1192} + a_{1323} + a_{1353} - a_{1375} - a_{1390} - 2a_{1434} + a_{1477} - a_{1497} + a_{1528} - a_{1602}$$

$$a_{3217} = \frac{a_{1169} + \sqrt{a_{1169}^2 - 4x}}{2}$$
$$x = a_{195} + 2a_{411} - a_{451} + a_{474} - 2a_{667} + a_{676} - a_{730} + a_{812} - a_{835} + a_{864} + a_{879} + 2a_{1170} - a_{1188} + a_{1193} + a_{1324} + a_{1354} - a_{1376} - a_{1391} - 2a_{1435} + a_{1478} - a_{1498} + a_{1529} - a_{1603}$$
$$a_{3218} = \frac{a_{1170} + \sqrt{a_{1170}^2 - 4x}}{2}$$
$$x = a_{196} + 2a_{412} - a_{452} + a_{475} - 2a_{668} + a_{677} - a_{731} + a_{813} - a_{836} + a_{865} + a_{880} + 2a_{1171} - a_{1189} + a_{1194} + a_{1325} + a_{1355} - a_{1377} - a_{1392} - 2a_{1436} + a_{1479} - a_{1499} + a_{1530} - a_{1604}$$
$$a_{3219} = \frac{a_{1171} + \sqrt{a_{1171}^2 - 4x}}{2}$$
$$x = a_{197} + 2a_{413} - a_{453} + a_{476} - 2a_{669} + a_{678} - a_{732} + a_{814} - a_{837} + a_{866} + a_{881} + 2a_{1172} - a_{1190} + a_{1195} + a_{1326} + a_{1356} - a_{1378} - a_{1393} - 2a_{1437} + a_{1480} - a_{1500} + a_{1531} - a_{1605}$$
$$a_{3220} = \frac{a_{1172} + \sqrt{a_{1172}^2 - 4x}}{2}$$
$$x = a_{198} + 2a_{414} - a_{454} + a_{477} - 2a_{670} + a_{679} - a_{733} + a_{815} - a_{838} + a_{867} + a_{882} + 2a_{1173} - a_{1191} + a_{1196} + a_{1327} + a_{1357} - a_{1379} - a_{1394} - 2a_{1438} + a_{1481} - a_{1501} + a_{1532} - a_{1606}$$
$$a_{3221} = \frac{a_{1173} - \sqrt{a_{1173}^2 - 4x}}{2}$$
$$x = a_{199} + 2a_{415} - a_{455} + a_{478} - 2a_{671} + a_{680} - a_{734} + a_{816} - a_{839} + a_{868} + a_{883} + 2a_{1174} - a_{1192} + a_{1197} + a_{1328} + a_{1358} - a_{1380} - a_{1395} - 2a_{1439} + a_{1482} - a_{1502} + a_{1533} - a_{1607}$$
$$a_{3222} = \frac{a_{1174} + \sqrt{a_{1174}^2 - 4x}}{2}$$
$$x = a_{201} + 2a_{417} - a_{457} + a_{480} - 2a_{673} + a_{682} - a_{736} + a_{818} - a_{841} + a_{870} + a_{885} + 2a_{1176} - a_{1194} + a_{1199} + a_{1330} + a_{1360} - a_{1382} - a_{1397} - 2a_{1441} + a_{1484} - a_{1504} + a_{1535} - a_{1609}$$
$$a_{3224} = \frac{a_{1176} + \sqrt{a_{1176}^2 - 4x}}{2}$$
$$x = a_{202} + 2a_{418} - a_{458} + a_{481} - 2a_{674} + a_{683} - a_{737} + a_{819} - a_{842} + a_{871} + a_{886} + 2a_{1177} - a_{1195} + a_{1200} + a_{1331} + a_{1361} - a_{1383} - a_{1398} - 2a_{1442} + a_{1485} - a_{1505} + a_{1536} - a_{1610}$$
$$a_{3225} = \frac{a_{1177} + \sqrt{a_{1177}^2 - 4x}}{2}$$
$$x = a_{203} + 2a_{419} - a_{459} + a_{482} - 2a_{675} + a_{684} - a_{738} + a_{820} - a_{843} + a_{872} + a_{887} + 2a_{1178} - a_{1196} + a_{1201} + a_{1332} + a_{1362} - a_{1384} - a_{1399} - 2a_{1443} + a_{1486} - a_{1506} + a_{1537} - a_{1611}$$
$$a_{3226} = \frac{a_{1178} + \sqrt{a_{1178}^2 - 4x}}{2}$$
$$x = a_{215} + 2a_{431} - a_{471} + a_{494} - 2a_{687} + a_{696} - a_{750} + a_{832} - a_{855} + a_{884} + a_{899} + 2a_{1190} - a_{1208} + a_{1213} + a_{1344} + a_{1374} - a_{1396} - a_{1411} - 2a_{1455} + a_{1498} - a_{1518} + a_{1549} - a_{1623}$$
$$a_{3238} = \frac{a_{1190} - \sqrt{a_{1190}^2 - 4x}}{2}$$
$$x = a_{216} + 2a_{432} - a_{472} + a_{495} - 2a_{688} + a_{697} - a_{751} + a_{833} - a_{856} + a_{885} + a_{900} + 2a_{1191} - a_{1209} + a_{1214} + a_{1345} + a_{1375} - a_{1397} - a_{1412} -$$

$$2a_{1456} + a_{1499} - a_{1519} + a_{1550} - a_{1624}$$

$$a_{3239} = \frac{a_{1191} - \sqrt{a_{1191}^2 - 4x}}{2}$$
$$x = a_{230} + 2a_{446} - a_{486} + a_{509} - 2a_{702} + a_{711} - a_{765} + a_{847} - a_{870} + a_{899} + a_{914} + 2a_{1205} - a_{1223} + a_{1228} + a_{1359} + a_{1389} - a_{1411} - a_{1426} - 2a_{1470} + a_{1513} - a_{1533} + a_{1564} - a_{1638}$$

$$a_{3253} = \frac{a_{1205} - \sqrt{a_{1205}^2 - 4x}}{2}$$
$$x = a_{144} + 2a_{488} - a_{272} + a_{295} - 2a_{744} + a_{753} - a_{807} + a_{889} - a_{912} + a_{941} + a_{956} + 2a_{1247} - a_{1265} + a_{1270} + a_{1401} + a_{1431} - a_{1453} - a_{1468} - 2a_{1512} + a_{1555} - a_{1575} + a_{1606} - a_{1680}$$

$$a_{3295} = \frac{a_{1247} + \sqrt{a_{1247}^2 - 4x}}{2}$$
$$x = a_{158} + 2a_{502} - a_{286} + a_{309} - 2a_{758} + a_{767} - a_{821} + a_{903} - a_{926} + a_{955} + a_{970} + 2a_{1261} - a_{1279} + a_{1284} + a_{1415} + a_{1445} - a_{1467} - a_{1482} - 2a_{1526} + a_{1569} - a_{1589} + a_{1620} - a_{1694}$$

$$a_{3309} = \frac{a_{1261} - \sqrt{a_{1261}^2 - 4x}}{2}$$
$$x = a_{159} + 2a_{503} - a_{287} + a_{310} - 2a_{759} + a_{768} - a_{822} + a_{904} - a_{927} + a_{956} + a_{971} + 2a_{1262} - a_{1280} + a_{1285} + a_{1416} + a_{1446} - a_{1468} - a_{1483} - 2a_{1527} + a_{1570} - a_{1590} + a_{1621} - a_{1695}$$

$$a_{3310} = \frac{a_{1262} + \sqrt{a_{1262}^2 - 4x}}{2}$$
$$x = a_{160} + 2a_{504} - a_{288} + a_{311} - 2a_{760} + a_{769} - a_{823} + a_{905} - a_{928} + a_{957} + a_{972} + 2a_{1263} - a_{1281} + a_{1286} + a_{1417} + a_{1447} - a_{1469} - a_{1484} - 2a_{1528} + a_{1571} - a_{1591} + a_{1622} - a_{1696}$$

$$a_{3311} = \frac{a_{1263} + \sqrt{a_{1263}^2 - 4x}}{2}$$
$$x = a_{161} + 2a_{505} - a_{289} + a_{312} - 2a_{761} + a_{770} - a_{824} + a_{906} - a_{929} + a_{958} + a_{973} + 2a_{1264} - a_{1282} + a_{1287} + a_{1418} + a_{1448} - a_{1470} - a_{1485} - 2a_{1529} + a_{1572} - a_{1592} + a_{1623} - a_{1697}$$

$$a_{3312} = \frac{a_{1264} + \sqrt{a_{1264}^2 - 4x}}{2}$$
$$x = a_{162} + 2a_{506} - a_{290} + a_{313} - 2a_{762} + a_{771} - a_{825} + a_{907} - a_{930} + a_{959} + a_{974} + 2a_{1265} - a_{1283} + a_{1288} + a_{1419} + a_{1449} - a_{1471} - a_{1486} - 2a_{1530} + a_{1573} - a_{1593} + a_{1624} - a_{1698}$$

$$a_{3313} = \frac{a_{1265} + \sqrt{a_{1265}^2 - 4x}}{2}$$
$$x = a_{163} + 2a_{507} - a_{291} + a_{314} - 2a_{763} + a_{772} - a_{826} + a_{908} - a_{931} + a_{960} + a_{975} + 2a_{1266} - a_{1284} + a_{1289} + a_{1420} + a_{1450} - a_{1472} - a_{1487} - 2a_{1531} + a_{1574} - a_{1594} + a_{1625} - a_{1699}$$

$$a_{3314} = \frac{a_{1266} + \sqrt{a_{1266}^2 - 4x}}{2}$$
$$x = a_{166} + 2a_{510} - a_{294} + a_{317} - 2a_{766} + a_{775} - a_{829} + a_{911} - a_{934} + a_{963} + a_{978} + 2a_{1269} - a_{1287} + a_{1292} + a_{1423} + a_{1453} - a_{1475} - a_{1490} - 2a_{1534} + a_{1577} - a_{1597} + a_{1628} - a_{1702}$$

$$a_{3317} = \frac{a_{1269} - \sqrt{a_{1269}^2 - 4x}}{2}$$
$$x = a_{167} + 2a_{255} - a_{295} + a_{318} - 2a_{767} + a_{776} - a_{830} + a_{912} - a_{935} + a_{964} + a_{979} + 2a_{1270} - a_{1288} + a_{1293} + a_{1424} + a_{1454} - a_{1476} - a_{1491} - 2a_{1535} + a_{1578} - a_{1598} + a_{1629} - a_{1703}$$

$$a_{3318} = \frac{a_{1270} - \sqrt{a_{1270}^2 - 4x}}{2}$$
$$x = a_{223} + 2a_{311} - a_{351} + a_{374} - 2a_{823} + a_{832} - a_{886} + a_{968} - a_{991} + a_{1020} + a_{523} + 2a_{1326} - a_{1344} + a_{1349} + a_{1480} + a_{1510} - a_{1532} - a_{1547} - 2a_{1591} + a_{1634} - a_{1654} + a_{1685} - a_{1759}$$

$$a_{3374} = \frac{a_{1326} - \sqrt{a_{1326}^2 - 4x}}{2}$$
$$x = a_{236} + 2a_{324} - a_{364} + a_{387} - 2a_{836} + a_{845} - a_{899} + a_{981} - a_{1004} + a_{521} + a_{536} + 2a_{1339} - a_{1357} + a_{1362} + a_{1493} + a_{1523} - a_{1545} - a_{1560} - 2a_{1604} + a_{1647} - a_{1667} + a_{1698} - a_{1772}$$

$$a_{3387} = \frac{a_{1339} - \sqrt{a_{1339}^2 - 4x}}{2}$$
$$x = a_{251} + 2a_{339} - a_{379} + a_{402} - 2a_{851} + a_{860} - a_{914} + a_{996} - a_{1019} + a_{536} + a_{551} + 2a_{1354} - a_{1372} + a_{1377} + a_{1508} + a_{1538} - a_{1560} - a_{1575} - 2a_{1619} + a_{1662} - a_{1682} + a_{1713} - a_{1787}$$

$$a_{3402} = \frac{a_{1354} - \sqrt{a_{1354}^2 - 4x}}{2}$$
$$x = a_{252} + 2a_{340} - a_{380} + a_{403} - 2a_{852} + a_{861} - a_{915} + a_{997} - a_{1020} + a_{537} + a_{552} + 2a_{1355} - a_{1373} + a_{1378} + a_{1509} + a_{1539} - a_{1561} - a_{1576} - 2a_{1620} + a_{1663} - a_{1683} + a_{1714} - a_{1788}$$

$$a_{3403} = \frac{a_{1355} - \sqrt{a_{1355}^2 - 4x}}{2}$$
$$x = a_{253} + 2a_{341} - a_{381} + a_{404} - 2a_{853} + a_{862} - a_{916} + a_{998} - a_{1021} + a_{538} + a_{553} + 2a_{1356} - a_{1374} + a_{1379} + a_{1510} + a_{1540} - a_{1562} - a_{1577} - 2a_{1621} + a_{1664} - a_{1684} + a_{1715} - a_{1789}$$

$$a_{3404} = \frac{a_{1356} - \sqrt{a_{1356}^2 - 4x}}{2}$$
$$x = a_{254} + 2a_{342} - a_{382} + a_{405} - 2a_{854} + a_{863} - a_{917} + a_{999} - a_{1022} + a_{539} + a_{554} + 2a_{1357} - a_{1375} + a_{1380} + a_{1511} + a_{1541} - a_{1563} - a_{1578} - 2a_{1622} + a_{1665} - a_{1685} + a_{1716} - a_{1790}$$

$$a_{3405} = \frac{a_{1357} + \sqrt{a_{1357}^2 - 4x}}{2}$$

$$
\begin{aligned}
x &= a_{127} + 2a_{343} - a_{383} + a_{406} - 2a_{855} + a_{864} - \\
&\quad a_{918} + a_{1000} - a_{511} + a_{540} + a_{555} + 2a_{1358} - \\
&\quad a_{1376} + a_{1381} + a_{1512} + a_{1542} - a_{1564} - a_{1579} - \\
&\quad 2a_{1623} + a_{1666} - a_{1686} + a_{1717} - a_{1791} \\
a_{3406} &= \frac{a_{1358} + \sqrt{a_{1358}^2 - 4x}}{2} \\
x &= a_{180} + 2a_{396} - a_{436} + a_{459} - 2a_{908} + a_{917} - \\
&\quad a_{971} + a_{541} - a_{564} + a_{593} + a_{608} + 2a_{1411} - \\
&\quad a_{1429} + a_{1434} + a_{1565} + a_{1595} - a_{1617} - a_{1632} - \\
&\quad 2a_{1676} + a_{1719} - a_{1739} + a_{1770} - a_{1844} \\
a_{3459} &= \frac{a_{1411} + \sqrt{a_{1411}^2 - 4x}}{2} \\
x &= a_{187} + 2a_{403} - a_{443} + a_{466} - 2a_{915} + a_{924} - \\
&\quad a_{978} + a_{548} - a_{571} + a_{600} + a_{615} + 2a_{1418} - \\
&\quad a_{1436} + a_{1441} + a_{1572} + a_{1602} - a_{1624} - a_{1639} - \\
&\quad 2a_{1683} + a_{1726} - a_{1746} + a_{1777} - a_{1851} \\
a_{3466} &= \frac{a_{1418} - \sqrt{a_{1418}^2 - 4x}}{2} \\
x &= a_{200} + 2a_{416} - a_{456} + a_{479} - 2a_{928} + a_{937} - \\
&\quad a_{991} + a_{561} - a_{584} + a_{613} + a_{628} + 2a_{1431} - \\
&\quad a_{1449} + a_{1454} + a_{1585} + a_{1615} - a_{1637} - a_{1652} - \\
&\quad 2a_{1696} + a_{1739} - a_{1759} + a_{1790} - a_{1864}
\end{aligned}
$$

$$
\begin{aligned}
a_{3479} &= \frac{a_{1431} + \sqrt{a_{1431}^2 - 4x}}{2} \\
x &= a_{144} + 2a_{488} - a_{272} + a_{295} - 2a_{1000} + a_{1009} - \\
&\quad a_{551} + a_{633} - a_{656} + a_{685} + a_{700} + 2a_{1503} - \\
&\quad a_{1521} + a_{1526} + a_{1657} + a_{1687} - a_{1709} - a_{1724} - \\
&\quad 2a_{1768} + a_{1811} - a_{1831} + a_{1862} - a_{1936} \\
a_{3551} &= \frac{a_{1503} - \sqrt{a_{1503}^2 - 4x}}{2} \\
x &= a_{151} + 2a_{495} - a_{279} + a_{302} - 2a_{1007} + a_{1016} - \\
&\quad a_{558} + a_{640} - a_{663} + a_{692} + a_{707} + 2a_{1510} - \\
&\quad a_{1528} + a_{1533} + a_{1664} + a_{1694} - a_{1716} - a_{1731} - \\
&\quad 2a_{1775} + a_{1818} - a_{1838} + a_{1869} - a_{1943} \\
a_{3558} &= \frac{a_{1510} - \sqrt{a_{1510}^2 - 4x}}{2} \\
x &= a_{200} + 2a_{288} - a_{328} + a_{351} - 2a_{544} + a_{553} - \\
&\quad a_{607} + a_{689} - a_{712} + a_{741} + a_{756} + 2a_{1559} - \\
&\quad a_{1577} + a_{1582} + a_{1713} + a_{1743} - a_{1765} - a_{1780} - \\
&\quad 2a_{1824} + a_{1867} - a_{1887} + a_{1918} - a_{1992} \\
a_{3607} &= \frac{a_{1559} - \sqrt{a_{1559}^2 - 4x}}{2} \\
x &= a_{223} + 2a_{311} - a_{351} + a_{374} - 2a_{567} + a_{576} - \\
&\quad a_{630} + a_{712} - a_{735} + a_{764} + a_{779} + 2a_{1582} - \\
&\quad a_{1600} + a_{1605} + a_{1736} + a_{1766} - a_{1788} - a_{1803} - \\
&\quad 2a_{1847} + a_{1890} - a_{1910} + a_{1941} - a_{2015} \\
a_{3630} &= \frac{a_{1582} - \sqrt{a_{1582}^2 - 4x}}{2} \\
x &= a_{236} + 2a_{324} - a_{364} + a_{387} - 2a_{580} + a_{589} - \\
&\quad a_{643} + a_{725} - a_{748} + a_{777} + a_{792} + 2a_{1595} - \\
&\quad a_{1613} + a_{1618} + a_{1749} + a_{1779} - a_{1801} - a_{1816} - \\
&\quad 2a_{1860} + a_{1903} - a_{1923} + a_{1954} - a_{2028} \\
a_{3643} &= \frac{a_{1595} + \sqrt{a_{1595}^2 - 4x}}{2} \\
x &= a_{128} + 2a_{344} - a_{384} + a_{407} - 2a_{600} + a_{609} - \\
&\quad a_{663} + a_{745} - a_{768} + a_{797} + a_{812} + 2a_{1615} - \\
&\quad a_{1633} + a_{1638} + a_{1769} + a_{1799} - a_{1821} - a_{1836} - \\
&\quad 2a_{1880} + a_{1923} - a_{1943} + a_{1974} - a_{1024} \\
a_{3663} &= \frac{a_{1615} + \sqrt{a_{1615}^2 - 4x}}{2} \\
x &= a_{151} + 2a_{367} - a_{407} + a_{430} - 2a_{623} + a_{632} - \\
&\quad a_{686} + a_{768} - a_{791} + a_{820} + a_{835} + 2a_{1638} - \\
&\quad a_{1656} + a_{1661} + a_{1792} + a_{1822} - a_{1844} - a_{1859} - \\
&\quad 2a_{1903} + a_{1946} - a_{1966} + a_{1997} - a_{1047} \\
a_{3686} &= \frac{a_{1638} + \sqrt{a_{1638}^2 - 4x}}{2} \\
x &= a_{164} + 2a_{380} - a_{420} + a_{443} - 2a_{636} + a_{645} - \\
&\quad a_{699} + a_{781} - a_{804} + a_{833} + a_{848} + 2a_{1651} - \\
&\quad a_{1669} + a_{1674} + a_{1805} + a_{1835} - a_{1857} - a_{1872} - \\
&\quad 2a_{1916} + a_{1959} - a_{1979} + a_{2010} - a_{1060} \\
a_{3699} &= \frac{a_{1651} - \sqrt{a_{1651}^2 - 4x}}{2} \\
x &= a_{187} + 2a_{403} - a_{443} + a_{466} - 2a_{659} + a_{668} - \\
&\quad a_{722} + a_{804} - a_{827} + a_{856} + a_{871} + 2a_{1674} - \\
&\quad a_{1692} + a_{1697} + a_{1828} + a_{1858} - a_{1880} - a_{1895} - \\
&\quad 2a_{1939} + a_{1982} - a_{2002} + a_{2033} - a_{1083} \\
a_{3722} &= \frac{a_{1674} - \sqrt{a_{1674}^2 - 4x}}{2} \\
x &= a_{220} + 2a_{436} - a_{476} + a_{499} - 2a_{692} + a_{701} - \\
&\quad a_{755} + a_{837} - a_{860} + a_{889} + a_{904} + 2a_{1707} - \\
&\quad a_{1725} + a_{1730} + a_{1861} + a_{1891} - a_{1913} - a_{1928} - \\
&\quad 2a_{1972} + a_{2015} - a_{2035} + a_{1042} - a_{1116}
\end{aligned}
$$

$$
\begin{aligned}
a_{3755} &= \frac{a_{1707} - \sqrt{a_{1707}^2 - 4x}}{2} \\
x &= a_{221} + 2a_{437} - a_{477} + a_{500} - 2a_{693} + a_{702} - \\
&\quad a_{756} + a_{838} - a_{861} + a_{890} + a_{905} + 2a_{1708} - \\
&\quad a_{1726} + a_{1731} + a_{1862} + a_{1892} - a_{1914} - a_{1929} - \\
&\quad 2a_{1973} + a_{2016} - a_{2036} + a_{1043} - a_{1117} \\
a_{3756} &= \frac{a_{1708} - \sqrt{a_{1708}^2 - 4x}}{2} \\
x &= a_{222} + 2a_{438} - a_{478} + a_{501} - 2a_{694} + a_{703} - \\
&\quad a_{757} + a_{839} - a_{862} + a_{891} + a_{906} + 2a_{1709} - \\
&\quad a_{1727} + a_{1732} + a_{1863} + a_{1893} - a_{1915} - a_{1930} - \\
&\quad 2a_{1974} + a_{2017} - a_{2037} + a_{1044} - a_{1118} \\
a_{3757} &= \frac{a_{1709} + \sqrt{a_{1709}^2 - 4x}}{2} \\
x &= a_{243} + 2a_{459} - a_{499} + a_{266} - 2a_{715} + a_{724} - \\
&\quad a_{778} + a_{860} - a_{883} + a_{912} + a_{927} + 2a_{1730} - \\
&\quad a_{1748} + a_{1753} + a_{1884} + a_{1914} - a_{1936} - a_{1951} - \\
&\quad 2a_{1995} + a_{2038} - a_{1034} + a_{1065} - a_{1139}
\end{aligned}
$$

$$a_{3778} = \frac{a_{1730} - \sqrt{a_{1730}^2 - 4x}}{2}$$
$$x = a_{244} + 2a_{460} - a_{500} + a_{267} - 2a_{716} + a_{725} - a_{779} + a_{861} - a_{884} + a_{913} + a_{928} + 2a_{1731} - a_{1749} + a_{1754} + a_{1885} + a_{1915} - a_{1937} - a_{1952} - 2a_{1996} + a_{2039} - a_{1035} + a_{1066} - a_{1140}$$
$$a_{3779} = \frac{a_{1731} - \sqrt{a_{1731}^2 - 4x}}{2}$$
$$x = a_{245} + 2a_{461} - a_{501} + a_{268} - 2a_{717} + a_{726} - a_{780} + a_{862} - a_{885} + a_{914} + a_{929} + 2a_{1732} - a_{1750} + a_{1755} + a_{1886} + a_{1916} - a_{1938} - a_{1953} - 2a_{1997} + a_{2040} - a_{1036} + a_{1067} - a_{1141}$$
$$a_{3780} = \frac{a_{1732} - \sqrt{a_{1732}^2 - 4x}}{2}$$
$$x = a_{128} + 2a_{472} - a_{256} + a_{279} - 2a_{728} + a_{737} - a_{791} + a_{873} - a_{896} + a_{925} + a_{940} + 2a_{1743} - a_{1761} + a_{1766} + a_{1897} + a_{1927} - a_{1949} - a_{1964} - 2a_{2008} + a_{1027} - a_{1047} + a_{1078} - a_{1152}$$
$$a_{3791} = \frac{a_{1743} - \sqrt{a_{1743}^2 - 4x}}{2}$$
$$x = a_{151} + 2a_{495} - a_{279} + a_{302} - 2a_{751} + a_{760} - a_{814} + a_{896} - a_{919} + a_{948} + a_{963} + 2a_{1766} - a_{1784} + a_{1789} + a_{1920} + a_{1950} - a_{1972} - a_{1987} - 2a_{2031} + a_{1050} - a_{1070} + a_{1101} - a_{1175}$$
$$a_{3814} = \frac{a_{1766} - \sqrt{a_{1766}^2 - 4x}}{2}$$
$$x = a_{184} + 2a_{272} - a_{312} + a_{335} - 2a_{784} + a_{793} - a_{847} + a_{929} - a_{952} + a_{981} + a_{996} + 2a_{1799} - a_{1817} + a_{1822} + a_{1953} + a_{1983} - a_{2005} - a_{2020} - 2a_{1040} + a_{1083} - a_{1103} + a_{1134} - a_{1208}$$
$$a_{3847} = \frac{a_{1799} - \sqrt{a_{1799}^2 - 4x}}{2}$$
$$x = a_{185} + 2a_{273} - a_{313} + a_{336} - 2a_{785} + a_{794} - a_{848} + a_{930} - a_{953} + a_{982} + a_{997} + 2a_{1800} - a_{1818} + a_{1823} + a_{1954} + a_{1984} - a_{2006} - a_{2021} - 2a_{1041} + a_{1084} - a_{1104} + a_{1135} - a_{1209}$$
$$a_{3848} = \frac{a_{1800} - \sqrt{a_{1800}^2 - 4x}}{2}$$
$$x = a_{186} + 2a_{274} - a_{314} + a_{337} - 2a_{786} + a_{795} - a_{849} + a_{931} - a_{954} + a_{983} + a_{998} + 2a_{1801} - a_{1819} + a_{1824} + a_{1955} + a_{1985} - a_{2007} - a_{2022} - 2a_{1042} + a_{1085} - a_{1105} + a_{1136} - a_{1210}$$

$$a_{3849} = \frac{a_{1801} - \sqrt{a_{1801}^2 - 4x}}{2}$$
$$x = a_{191} + 2a_{279} - a_{319} + a_{342} - 2a_{791} + a_{800} - a_{854} + a_{936} - a_{959} + a_{988} + a_{1003} + 2a_{1806} - a_{1824} + a_{1829} + a_{1960} + a_{1990} - a_{2012} - a_{2027} - 2a_{1047} + a_{1090} - a_{1110} + a_{1141} - a_{1215}$$
$$a_{3854} = \frac{a_{1806} + \sqrt{a_{1806}^2 - 4x}}{2}$$
$$x = a_{192} + 2a_{280} - a_{320} + a_{343} - 2a_{792} + a_{801} - a_{855} + a_{937} - a_{960} + a_{989} + a_{1004} + 2a_{1807} - a_{1825} + a_{1830} + a_{1961} + a_{1991} - a_{2013} - a_{2028} - 2a_{1048} + a_{1091} - a_{1111} + a_{1142} - a_{1216}$$
$$a_{3855} = \frac{a_{1807} - \sqrt{a_{1807}^2 - 4x}}{2}$$
$$x = a_{193} + 2a_{281} - a_{321} + a_{344} - 2a_{793} + a_{802} - a_{856} + a_{938} - a_{961} + a_{990} + a_{1005} + 2a_{1808} - a_{1826} + a_{1831} + a_{1962} + a_{1992} - a_{2014} - a_{2029} - 2a_{1049} + a_{1092} - a_{1112} + a_{1143} - a_{1217}$$
$$a_{3856} = \frac{a_{1808} + \sqrt{a_{1808}^2 - 4x}}{2}$$
$$x = a_{207} + 2a_{295} - a_{335} + a_{358} - 2a_{807} + a_{816} - a_{870} + a_{952} - a_{975} + a_{1004} + a_{1019} + 2a_{1822} - a_{1840} + a_{1845} + a_{1976} + a_{2006} - a_{2028} - a_{2043} - 2a_{1063} + a_{1106} - a_{1126} + a_{1157} - a_{1231}$$
$$a_{3870} = \frac{a_{1822} - \sqrt{a_{1822}^2 - 4x}}{2}$$
$$x = a_{208} + 2a_{296} - a_{336} + a_{359} - 2a_{808} + a_{817} - a_{871} + a_{953} - a_{976} + a_{1005} + a_{1020} + 2a_{1823} - a_{1841} + a_{1846} + a_{1977} + a_{2007} - a_{2029} - a_{2044} - 2a_{1064} + a_{1107} - a_{1127} + a_{1158} - a_{1232}$$
$$a_{3871} = \frac{a_{1823} - \sqrt{a_{1823}^2 - 4x}}{2}$$
$$x = a_{209} + 2a_{297} - a_{337} + a_{360} - 2a_{809} + a_{818} - a_{872} + a_{954} - a_{977} + a_{1006} + a_{1021} + 2a_{1824} - a_{1842} + a_{1847} + a_{1978} + a_{2008} - a_{2030} - a_{2045} - 2a_{1065} + a_{1108} - a_{1128} + a_{1159} - a_{1233}$$
$$a_{3872} = \frac{a_{1824} - \sqrt{a_{1824}^2 - 4x}}{2}$$
$$x = a_{247} + 2a_{335} - a_{375} + a_{398} - 2a_{847} + a_{856} - a_{910} + a_{992} - a_{1015} + a_{532} + a_{547} + 2a_{1862} - a_{1880} + a_{1885} + a_{2016} + a_{2046} - a_{1044} - a_{1059} - 2a_{1103} + a_{1146} - a_{1166} + a_{1197} - a_{1271}$$
$$a_{3910} = \frac{a_{1862} + \sqrt{a_{1862}^2 - 4x}}{2}$$
$$x = a_{248} + 2a_{336} - a_{376} + a_{399} - 2a_{848} + a_{857} - a_{911} + a_{993} - a_{1016} + a_{533} + a_{548} + 2a_{1863} - a_{1881} + a_{1886} + a_{2017} + a_{1023} - a_{1045} - a_{1060} - 2a_{1104} + a_{1147} - a_{1167} + a_{1198} - a_{1272}$$
$$a_{3911} = \frac{a_{1863} + \sqrt{a_{1863}^2 - 4x}}{2}$$
$$x = a_{249} + 2a_{337} - a_{377} + a_{400} - 2a_{849} + a_{858} - a_{912} + a_{994} - a_{1017} + a_{534} + a_{549} + 2a_{1864} - a_{1882} + a_{1887} + a_{2018} + a_{1024} - a_{1046} - a_{1061} - 2a_{1105} + a_{1148} - a_{1168} + a_{1199} - a_{1273}$$
$$a_{3912} = \frac{a_{1864} + \sqrt{a_{1864}^2 - 4x}}{2}$$
$$x = a_{138} + 2a_{354} - a_{394} + a_{417} - 2a_{866} + a_{875} - a_{929} + a_{1011} - a_{522} + a_{551} + a_{566} + 2a_{1881} - a_{1899} + a_{1904} + a_{2035} + a_{1041} - a_{1063} - a_{1078} -$$

$$2a_{1122} + a_{1165} - a_{1185} + a_{1216} - a_{1290}$$

$$a_{3929} = \frac{a_{1881} - \sqrt{a_{1881}^2 - 4x}}{2}$$
$$x = a_{149} + 2a_{365} - a_{405} + a_{428} - 2a_{877} + a_{886} - a_{940} + a_{1022} - a_{533} + a_{562} + a_{577} + 2a_{1892} - a_{1910} + a_{1915} + a_{2046} + a_{1052} - a_{1074} - a_{1089} - 2a_{1133} + a_{1176} - a_{1196} + a_{1227} - a_{1301}$$

$$a_{3940} = \frac{a_{1892} + \sqrt{a_{1892}^2 - 4x}}{2}$$
$$x = a_{150} + 2a_{366} - a_{406} + a_{429} - 2a_{878} + a_{887} - a_{941} + a_{511} - a_{534} + a_{563} + a_{578} + 2a_{1893} - a_{1911} + a_{1916} + a_{1023} + a_{1053} - a_{1075} - a_{1090} - 2a_{1134} + a_{1177} - a_{1197} + a_{1228} - a_{1302}$$

$$a_{3941} = \frac{a_{1893} - \sqrt{a_{1893}^2 - 4x}}{2}$$
$$x = a_{155} + 2a_{371} - a_{411} + a_{434} - 2a_{883} + a_{892} - a_{946} + a_{516} - a_{539} + a_{568} + a_{583} + 2a_{1898} - a_{1916} + a_{1921} + a_{1028} + a_{1058} - a_{1080} - a_{1095} - 2a_{1139} + a_{1182} - a_{1202} + a_{1233} - a_{1307}$$

$$a_{3946} = \frac{a_{1898} + \sqrt{a_{1898}^2 - 4x}}{2}$$
$$x = a_{156} + 2a_{372} - a_{412} + a_{435} - 2a_{884} + a_{893} - a_{947} + a_{517} - a_{540} + a_{569} + a_{584} + 2a_{1899} - a_{1917} + a_{1922} + a_{1029} + a_{1059} - a_{1081} - a_{1096} - 2a_{1140} + a_{1183} - a_{1203} + a_{1234} - a_{1308}$$

$$a_{3947} = \frac{a_{1899} + \sqrt{a_{1899}^2 - 4x}}{2}$$
$$x = a_{157} + 2a_{373} - a_{413} + a_{436} - 2a_{885} + a_{894} - a_{948} + a_{518} - a_{541} + a_{570} + a_{585} + 2a_{1900} - a_{1918} + a_{1923} + a_{1030} + a_{1060} - a_{1082} - a_{1097} - 2a_{1141} + a_{1184} - a_{1204} + a_{1235} - a_{1309}$$

$$a_{3948} = \frac{a_{1900} + \sqrt{a_{1900}^2 - 4x}}{2}$$
$$x = a_{172} + 2a_{388} - a_{428} + a_{451} - 2a_{900} + a_{909} - a_{963} + a_{533} - a_{556} + a_{585} + a_{600} + 2a_{1915} - a_{1933} + a_{1938} + a_{1045} + a_{1075} - a_{1097} - a_{1112} - 2a_{1156} + a_{1199} - a_{1219} + a_{1250} - a_{1324}$$

$$a_{3963} = \frac{a_{1915} + \sqrt{a_{1915}^2 - 4x}}{2}$$
$$x = a_{173} + 2a_{389} - a_{429} + a_{452} - 2a_{901} + a_{910} - a_{964} + a_{534} - a_{557} + a_{586} + a_{601} + 2a_{1916} - a_{1934} + a_{1939} + a_{1046} + a_{1076} - a_{1098} - a_{1113} - 2a_{1157} + a_{1200} - a_{1220} + a_{1251} - a_{1325}$$

$$a_{3964} = \frac{a_{1916} + \sqrt{a_{1916}^2 - 4x}}{2}$$
$$x = a_{194} + 2a_{410} - a_{450} + a_{473} - 2a_{922} + a_{931} - a_{985} + a_{555} - a_{578} + a_{607} + a_{622} + 2a_{1937} - a_{1955} + a_{1960} + a_{1067} + a_{1097} - a_{1119} - a_{1134} - 2a_{1178} + a_{1221} - a_{1241} + a_{1272} - a_{1346}$$

$$a_{3985} = \frac{a_{1937} + \sqrt{a_{1937}^2 - 4x}}{2}$$
$$x = a_{206} + 2a_{422} - a_{462} + a_{485} - 2a_{934} + a_{943} - a_{997} + a_{567} - a_{590} + a_{619} + a_{634} + 2a_{1949} - a_{1967} + a_{1972} + a_{1079} + a_{1109} - a_{1131} - a_{1146} - 2a_{1190} + a_{1233} - a_{1253} + a_{1284} - a_{1358}$$

$$a_{3997} = \frac{a_{1949} - \sqrt{a_{1949}^2 - 4x}}{2}$$
$$x = a_{211} + 2a_{427} - a_{467} + a_{490} - 2a_{939} + a_{948} - a_{1002} + a_{572} - a_{595} + a_{624} + a_{639} + 2a_{1954} - a_{1972} + a_{1977} + a_{1084} + a_{1114} - a_{1136} - a_{1151} - 2a_{1195} + a_{1238} - a_{1258} + a_{1289} - a_{1363}$$

$$a_{4002} = \frac{a_{1954} + \sqrt{a_{1954}^2 - 4x}}{2}$$
$$x = a_{212} + 2a_{428} - a_{468} + a_{491} - 2a_{940} + a_{949} - a_{1003} + a_{573} - a_{596} + a_{625} + a_{640} + 2a_{1955} - a_{1973} + a_{1978} + a_{1085} + a_{1115} - a_{1137} - a_{1152} - 2a_{1196} + a_{1239} - a_{1259} + a_{1290} - a_{1364}$$

$$a_{4003} = \frac{a_{1955} + \sqrt{a_{1955}^2 - 4x}}{2}$$
$$x = a_{213} + 2a_{429} - a_{469} + a_{492} - 2a_{941} + a_{950} - a_{1004} + a_{574} - a_{597} + a_{626} + a_{641} + 2a_{1956} - a_{1974} + a_{1979} + a_{1086} + a_{1116} - a_{1138} - a_{1153} - 2a_{1197} + a_{1240} - a_{1260} + a_{1291} - a_{1365}$$

$$a_{4004} = \frac{a_{1956} + \sqrt{a_{1956}^2 - 4x}}{2}$$
$$x = a_{214} + 2a_{430} - a_{470} + a_{493} - 2a_{942} + a_{951} - a_{1005} + a_{575} - a_{598} + a_{627} + a_{642} + 2a_{1957} - a_{1975} + a_{1980} + a_{1087} + a_{1117} - a_{1139} - a_{1154} - 2a_{1198} + a_{1241} - a_{1261} + a_{1292} - a_{1366}$$

$$a_{4005} = \frac{a_{1957} + \sqrt{a_{1957}^2 - 4x}}{2}$$
$$x = a_{215} + 2a_{431} - a_{471} + a_{494} - 2a_{943} + a_{952} - a_{1006} + a_{576} - a_{599} + a_{628} + a_{643} + 2a_{1958} - a_{1976} + a_{1981} + a_{1088} + a_{1118} - a_{1140} - a_{1155} - 2a_{1199} + a_{1242} - a_{1262} + a_{1293} - a_{1367}$$

$$a_{4006} = \frac{a_{1958} + \sqrt{a_{1958}^2 - 4x}}{2}$$
$$x = a_{217} + 2a_{433} - a_{473} + a_{496} - 2a_{945} + a_{954} - a_{1008} + a_{578} - a_{601} + a_{630} + a_{645} + 2a_{1960} - a_{1978} + a_{1983} + a_{1090} + a_{1120} - a_{1142} - a_{1157} - 2a_{1201} + a_{1244} - a_{1264} + a_{1295} - a_{1369}$$

$$a_{4008} = \frac{a_{1960} + \sqrt{a_{1960}^2 - 4x}}{2}$$
$$x = a_{229} + 2a_{445} - a_{485} + a_{508} - 2a_{957} + a_{966} - a_{1020} + a_{590} - a_{613} + a_{642} + a_{657} + 2a_{1972} - a_{1990} + a_{1995} + a_{1102} + a_{1132} - a_{1154} - a_{1169} - 2a_{1213} + a_{1256} - a_{1276} + a_{1307} - a_{1381}$$

$$a_{4020} = \frac{a_{1972} + \sqrt{a_{1972}^2 - 4x}}{2}$$

$$
\begin{aligned}
x &= a_{230} + 2a_{446} - a_{486} + a_{509} - 2a_{958} + a_{967} - \\
&\quad a_{1021} + a_{591} - a_{614} + a_{643} + a_{658} + 2a_{1973} - \\
&\quad a_{1991} + a_{1996} + a_{1103} + a_{1133} - a_{1155} - a_{1170} - \\
&\quad 2a_{1214} + a_{1257} - a_{1277} + a_{1308} - a_{1382} \\
a_{4021} &= \frac{a_{1973} - \sqrt{a_{1973}^2 - 4x}}{2} \\
x &= a_{247} + 2a_{463} - a_{503} + a_{270} - 2a_{975} + a_{984} - \\
&\quad a_{526} + a_{608} - a_{631} + a_{660} + a_{675} + 2a_{1990} - \\
&\quad a_{2008} + a_{2013} + a_{1120} + a_{1150} - a_{1172} - a_{1187} - \\
&\quad 2a_{1231} + a_{1274} - a_{1294} + a_{1325} - a_{1399} \\
a_{4038} &= \frac{a_{1990} - \sqrt{a_{1990}^2 - 4x}}{2} \\
x &= a_{248} + 2a_{464} - a_{504} + a_{271} - 2a_{976} + a_{985} - \\
&\quad a_{527} + a_{609} - a_{632} + a_{661} + a_{676} + 2a_{1991} - \\
&\quad a_{2009} + a_{2014} + a_{1121} + a_{1151} - a_{1173} - a_{1188} - \\
&\quad 2a_{1232} + a_{1275} - a_{1295} + a_{1326} - a_{1400} \\
a_{4039} &= \frac{a_{1991} + \sqrt{a_{1991}^2 - 4x}}{2} \\
x &= a_{249} + 2a_{465} - a_{505} + a_{272} - 2a_{977} + a_{986} - \\
&\quad a_{528} + a_{610} - a_{633} + a_{662} + a_{677} + 2a_{1992} - \\
&\quad a_{2010} + a_{2015} + a_{1122} + a_{1152} - a_{1174} - a_{1189} - \\
&\quad 2a_{1233} + a_{1276} - a_{1296} + a_{1327} - a_{1401}
\end{aligned}
$$

$$
\begin{aligned}
a_{4040} &= \frac{a_{1992} + \sqrt{a_{1992}^2 - 4x}}{2} \\
x &= a_{145} + 2a_{489} - a_{273} + a_{296} - 2a_{1001} + a_{1010} - \\
&\quad a_{552} + a_{634} - a_{657} + a_{686} + a_{701} + 2a_{2016} - \\
&\quad a_{2034} + a_{2039} + a_{1146} + a_{1176} - a_{1198} - a_{1213} - \\
&\quad 2a_{1257} + a_{1300} - a_{1320} + a_{1351} - a_{1425} \\
a_{4064} &= \frac{a_{2016} + \sqrt{a_{2016}^2 - 4x}}{2} \\
x &= a_{158} + 2a_{502} - a_{286} + a_{309} - 2a_{1014} + a_{511} - \\
&\quad a_{565} + a_{647} - a_{670} + a_{699} + a_{714} + 2a_{2029} - \\
&\quad a_{1023} + a_{1028} + a_{1159} + a_{1189} - a_{1211} - a_{1226} - \\
&\quad 2a_{1270} + a_{1313} - a_{1333} + a_{1364} - a_{1438} \\
a_{4077} &= \frac{a_{2029} - \sqrt{a_{2029}^2 - 4x}}{2} \\
x &= a_{159} + 2a_{503} - a_{287} + a_{310} - 2a_{1015} + a_{512} - \\
&\quad a_{566} + a_{648} - a_{671} + a_{700} + a_{715} + 2a_{2030} - \\
&\quad a_{1024} + a_{1029} + a_{1160} + a_{1190} - a_{1212} - a_{1227} - \\
&\quad 2a_{1271} + a_{1314} - a_{1334} + a_{1365} - a_{1439} \\
a_{4078} &= \frac{a_{2030} - \sqrt{a_{2030}^2 - 4x}}{2} \\
x &= a_{160} + 2a_{504} - a_{288} + a_{311} - 2a_{1016} + a_{513} - \\
&\quad a_{567} + a_{649} - a_{672} + a_{701} + a_{716} + 2a_{2031} - \\
&\quad a_{1025} + a_{1030} + a_{1161} + a_{1191} - a_{1213} - a_{1228} - \\
&\quad 2a_{1272} + a_{1315} - a_{1335} + a_{1366} - a_{1440} \\
a_{4079} &= \frac{a_{2031} + \sqrt{a_{2031}^2 - 4x}}{2} \\
x &= a_{170} + 2a_{258} - a_{298} + a_{321} - 2a_{514} + a_{523} - \\
&\quad a_{577} + a_{659} - a_{682} + a_{711} + a_{726} + 2a_{2041} - \\
&\quad a_{1035} + a_{1040} + a_{1171} + a_{1201} - a_{1223} - a_{1238} - \\
&\quad 2a_{1282} + a_{1325} - a_{1345} + a_{1376} - a_{1450} \\
a_{4089} &= \frac{a_{2041} - \sqrt{a_{2041}^2 - 4x}}{2} \\
x &= a_{174} + 2a_{262} - a_{302} + a_{325} - 2a_{518} + a_{527} - \\
&\quad a_{581} + a_{663} - a_{686} + a_{715} + a_{730} + 2a_{2045} - \\
&\quad a_{1039} + a_{1044} + a_{1175} + a_{1205} - a_{1227} - a_{1242} - \\
&\quad 2a_{1286} + a_{1329} - a_{1349} + a_{1380} - a_{1454} \\
a_{4093} &= \frac{a_{2045} + \sqrt{a_{2045}^2 - 4x}}{2} \\
x &= a_{175} + 2a_{263} - a_{303} + a_{326} - 2a_{519} + a_{528} - \\
&\quad a_{582} + a_{664} - a_{687} + a_{716} + a_{731} + 2a_{2046} - \\
&\quad a_{1040} + a_{1045} + a_{1176} + a_{1206} - a_{1228} - a_{1243} - \\
&\quad 2a_{1287} + a_{1330} - a_{1350} + a_{1381} - a_{1455} \\
a_{4094} &= \frac{a_{2046} - \sqrt{a_{2046}^2 - 4x}}{2} \\
x &= a_{1190} + a_{1269} + a_{1354} + a_{2139} + a_{2140} + a_{2141} - \\
&\quad a_{2214} - a_{2293} - a_{2378} + a_{2916} + a_{2939} \\
a_{4187} &= \frac{a_{2139} - \sqrt{a_{2139}^2 - 4x}}{2} \\
x &= a_{1191} + a_{1270} + a_{1355} + a_{2140} + a_{2141} + a_{2142} - \\
&\quad a_{2215} - a_{2294} - a_{2379} + a_{2917} + a_{2940} \\
a_{4188} &= \frac{a_{2140} - \sqrt{a_{2140}^2 - 4x}}{2} \\
x &= a_{2030} + a_{1085} + a_{1170} + a_{2979} + a_{2980} + a_{2981} - \\
&\quad a_{3054} - a_{3133} - a_{3218} + a_{3756} + a_{3779}
\end{aligned}
$$

$$
\begin{aligned}
a_{5027} &= \frac{a_{2979} - \sqrt{a_{2979}^2 - 4x}}{2} \\
x &= a_{2031} + a_{1086} + a_{1171} + a_{2980} + a_{2981} + a_{2982} - \\
&\quad a_{3055} - a_{3134} - a_{3219} + a_{3757} + a_{3780} \\
a_{5028} &= \frac{a_{2980} - \sqrt{a_{2980}^2 - 4x}}{2} \\
x &= a_{1098} + a_{1177} + a_{1262} + a_{3071} + a_{3072} + a_{3073} - \\
&\quad a_{3146} - a_{3225} - a_{3310} + a_{3848} + a_{3871} \\
a_{5119} &= \frac{a_{3071} - \sqrt{a_{3071}^2 - 4x}}{2} \\
x &= a_{1099} + a_{1178} + a_{1263} + a_{3072} + a_{3073} + a_{3074} - \\
&\quad a_{3147} - a_{3226} - a_{3311} + a_{3849} + a_{3872} \\
a_{5120} &= \frac{a_{3072} - \sqrt{a_{3072}^2 - 4x}}{2} \\
x &= a_{1190} + a_{1269} + a_{1354} + a_{3163} + a_{3164} + a_{3165} - \\
&\quad a_{3238} - a_{3317} - a_{3402} + a_{3940} + a_{3963} \\
a_{5211} &= \frac{a_{3163} - \sqrt{a_{3163}^2 - 4x}}{2} \\
x &= a_{1191} + a_{1270} + a_{1355} + a_{3164} + a_{3165} + a_{3166} - \\
&\quad a_{3239} - a_{3318} - a_{3403} + a_{3941} + a_{3964} \\
a_{5212} &= \frac{a_{3164} - \sqrt{a_{3164}^2 - 4x}}{2} \\
x &= a_{1431} + a_{1510} + a_{1595} + a_{3404} + a_{3405} + a_{3406} - \\
&\quad a_{3479} - a_{3558} - a_{3643} + a_{2133} + a_{2156} \\
a_{5452} &= \frac{a_{3404} - \sqrt{a_{3404}^2 - 4x}}{2}
\end{aligned}
$$

$$
\begin{aligned}
x &= a_{2030} + a_{1085} + a_{1170} + a_{4003} + a_{4004} + a_{4005} - \\
&\quad a_{4078} - a_{2109} - a_{2194} + a_{2732} + a_{2755} \\
a_{6051} &= \frac{a_{4003} - \sqrt{a_{4003}^2 - 4x}}{2} \\
x &= a_{2031} + a_{1086} + a_{1171} + a_{4004} + a_{4005} + a_{4006} - \\
&\quad a_{4079} - a_{2110} - a_{2195} + a_{2733} + a_{2756} \\
a_{6052} &= \frac{a_{4004} - \sqrt{a_{4004}^2 - 4x}}{2} \\
x &= a_{1041} + a_{1120} + a_{1205} + a_{4038} + a_{4039} + a_{4040} - \\
&\quad a_{2065} - a_{2144} - a_{2229} + a_{2767} + a_{2790} \\
a_{6086} &= \frac{a_{4038} - \sqrt{a_{4038}^2 - 4x}}{2} \\
x &= a_{1097} + a_{1176} + a_{1261} + a_{4094} + a_{2047} + a_{2048} - \\
&\quad a_{2121} - a_{2200} - a_{2285} + a_{2823} + a_{2846}
\end{aligned}
$$

$$
\begin{aligned}
a_{6142} &= \frac{a_{4094} + \sqrt{a_{4094}^2 - 4x}}{2} \\
x &= a_{1098} + a_{1177} + a_{1262} + a_{2047} + a_{2048} + a_{2049} - \\
&\quad a_{2122} - a_{2201} - a_{2286} + a_{2824} + a_{2847} \\
a_{6143} &= \frac{a_{2047} - \sqrt{a_{2047}^2 - 4x}}{2} \\
x &= a_{1099} + a_{1178} + a_{1263} + a_{2048} + a_{2049} + a_{2050} - \\
&\quad a_{2123} - a_{2202} - a_{2287} + a_{2825} + a_{2848} \\
a_{6144} &= \frac{a_{2048} - \sqrt{a_{2048}^2 - 4x}}{2} \\
x &= a_{1247} + a_{1326} + a_{1411} + a_{2196} + a_{2197} + a_{2198} - \\
&\quad a_{2271} - a_{2350} - a_{2435} + a_{2973} + a_{2996} \\
a_{6292} &= \frac{a_{2196} - \sqrt{a_{2196}^2 - 4x}}{2} \\
x &= a_{1339} + a_{1418} + a_{1503} + a_{2288} + a_{2289} + a_{2290} - \\
&\quad a_{2363} - a_{2442} - a_{2527} + a_{3065} + a_{3088} \\
a_{6384} &= \frac{a_{2288} - \sqrt{a_{2288}^2 - 4x}}{2} \\
x &= a_{1431} + a_{1510} + a_{1595} + a_{2380} + a_{2381} + a_{2382} - \\
&\quad a_{2455} - a_{2534} - a_{2619} + a_{3157} + a_{3180} \\
a_{6476} &= \frac{a_{2380} - \sqrt{a_{2380}^2 - 4x}}{2} \\
x &= a_{1881} + a_{1960} + a_{2045} + a_{2830} + a_{2831} + a_{2832} - \\
&\quad a_{2905} - a_{2984} - a_{3069} + a_{3607} + a_{3630} \\
a_{6926} &= \frac{a_{2830} - \sqrt{a_{2830}^2 - 4x}}{2} \\
x &= a_{1937} + a_{2016} + a_{1077} + a_{2886} + a_{2887} + a_{2888} - \\
&\quad a_{2961} - a_{3040} - a_{3125} + a_{3663} + a_{3686} \\
a_{6982} &= \frac{a_{2886} + \sqrt{a_{2886}^2 - 4x}}{2} \\
x &= a_{1973} + a_{1028} + a_{1113} + a_{2922} + a_{2923} + a_{2924} - \\
&\quad a_{2997} - a_{3076} - a_{3161} + a_{3699} + a_{3722} \\
a_{7018} &= \frac{a_{2922} - \sqrt{a_{2922}^2 - 4x}}{2} \\
x &= a_{2029} + a_{1084} + a_{1169} + a_{2978} + a_{2979} + a_{2980} - \\
&\quad a_{3053} - a_{3132} - a_{3217} + a_{3755} + a_{3778} \\
a_{7074} &= \frac{a_{2978} + \sqrt{a_{2978}^2 - 4x}}{2}
\end{aligned}
$$

$$
\begin{aligned}
x &= a_{2030} + a_{1085} + a_{1170} + a_{2979} + a_{2980} + a_{2981} - \\
&\quad a_{3054} - a_{3133} - a_{3218} + a_{3756} + a_{3779} \\
a_{7075} &= \frac{a_{2979} + \sqrt{a_{2979}^2 - 4x}}{2} \\
x &= a_{1041} + a_{1120} + a_{1205} + a_{3014} + a_{3015} + a_{3016} - \\
&\quad a_{3089} - a_{3168} - a_{3253} + a_{3791} + a_{3814} \\
a_{7110} &= \frac{a_{3014} - \sqrt{a_{3014}^2 - 4x}}{2} \\
x &= a_{1097} + a_{1176} + a_{1261} + a_{3070} + a_{3071} + a_{3072} - \\
&\quad a_{3145} - a_{3224} - a_{3309} + a_{3847} + a_{3870} \\
a_{7166} &= \frac{a_{3070} + \sqrt{a_{3070}^2 - 4x}}{2} \\
x &= a_{1247} + a_{1326} + a_{1411} + a_{3220} + a_{3221} + a_{3222} - \\
&\quad a_{3295} - a_{3374} - a_{3459} + a_{3997} + a_{4020} \\
a_{7316} &= \frac{a_{3220} - \sqrt{a_{3220}^2 - 4x}}{2} \\
x &= a_{1339} + a_{1418} + a_{1503} + a_{3312} + a_{3313} + a_{3314} - \\
&\quad a_{3387} - a_{3466} - a_{3551} + a_{4089} + a_{2064} \\
a_{7408} &= \frac{a_{3312} - \sqrt{a_{3312}^2 - 4x}}{2} \\
x &= a_{1881} + a_{1960} + a_{2045} + a_{3854} + a_{3855} + a_{3856} - \\
&\quad a_{3929} - a_{4008} - a_{4093} + a_{2583} + a_{2606} \\
a_{7950} &= \frac{a_{3854} - \sqrt{a_{3854}^2 - 4x}}{2} \\
x &= a_{1937} + a_{2016} + a_{1077} + a_{3910} + a_{3911} + a_{3912} - \\
&\quad a_{3985} - a_{4064} - a_{2101} + a_{2639} + a_{2662} \\
a_{8006} &= \frac{a_{3910} + \sqrt{a_{3910}^2 - 4x}}{2} \\
x &= a_{1973} + a_{1028} + a_{1113} + a_{3946} + a_{3947} + a_{3948} - \\
&\quad a_{4021} - a_{2052} - a_{2137} + a_{2675} + a_{2698} \\
a_{8042} &= \frac{a_{3946} - \sqrt{a_{3946}^2 - 4x}}{2} \\
x &= a_{2029} + a_{1084} + a_{1169} + a_{4002} + a_{4003} + a_{4004} - \\
&\quad a_{4077} - a_{2108} - a_{2193} + a_{2731} + a_{2754} \\
a_{8098} &= \frac{a_{4002} + \sqrt{a_{4002}^2 - 4x}}{2} \\
x &= a_{2030} + a_{1085} + a_{1170} + a_{4003} + a_{4004} + a_{4005} - \\
&\quad a_{4078} - a_{2109} - a_{2194} + a_{2732} + a_{2755} \\
a_{8099} &= \frac{a_{4003} + \sqrt{a_{4003}^2 - 4x}}{2} \\
x &= a_{162} - a_{290} - a_{674} - a_{1442} - a_{4002} + a_{5120} + \\
&\quad a_{6384} + a_{7018} - a_{7074}
\end{aligned}
$$

$$
\begin{aligned}
a_{9215} &= \frac{a_{5119} + \sqrt{a_{5119}^2 - 4x}}{2} \\
x &= a_{254} - a_{382} - a_{766} - a_{1534} - a_{4094} + a_{5212} + \\
&\quad a_{6476} + a_{7110} - a_{7166} \\
a_{9307} &= \frac{a_{5211} + \sqrt{a_{5211}^2 - 4x}}{2} \\
x &= a_{198} - a_{454} - a_{582} - a_{1350} - a_{2886} + a_{6052} + \\
&\quad a_{7316} + a_{7950} - a_{8006}
\end{aligned}
$$

$$
\begin{aligned}
a_{10147} &= \frac{a_{6051} - \sqrt{a_{6051}^2 - 4x}}{2} \\
x &= a_{254} - a_{382} - a_{766} - a_{1534} - a_{3070} + a_{4188} + \\
&\quad a_{5452} + a_{6086} - a_{6142} \\
a_{12379} &= \frac{a_{4187} + \sqrt{a_{4187}^2 - 4x}}{2} \\
x &= a_{198} - a_{454} - a_{582} - a_{1350} - a_{3910} + a_{5028} + \\
&\quad a_{6292} + a_{6926} - a_{6982} \\
a_{13219} &= \frac{a_{5027} - \sqrt{a_{5027}^2 - 4x}}{2} \\
x &= a_{162} - a_{290} - a_{674} - a_{1442} - a_{2978} + a_{6144} + \\
&\quad a_{7408} + a_{8042} - a_{8098} \\
a_{14335} &= \frac{a_{6143} + \sqrt{a_{6143}^2 - 4x}}{2} \\
x &= a_{163} - a_{291} - a_{675} - a_{1443} - a_{4003} - a_{7075} + \\
&\quad a_{12379} - a_{13219} \\
a_{17407} &= \frac{a_{9215} - \sqrt{a_{9215}^2 - 4x}}{2} \\
x &= a_{163} - a_{291} - a_{675} - a_{1443} - a_{2979} - a_{8099} + \\
&\quad a_{9307} - a_{10147} \\
a_{30719} &= \frac{a_{14335} - \sqrt{a_{14335}^2 - 4x}}{2} \\
x &= a_{17407} \\
a_{63487} &= \frac{a_{30719} - \sqrt{a_{30719}^2 - 4x}}{2} \\
x_{8192} &= \frac{a_{63487}}{2}
\end{aligned}
$$