1 $N = 10$

$A = \{a_{i,j} | i = 0..\bar{1}0, j = 0..\bar{1}1\}$

$a_{0,0} = \max_i |a_{i,0}^{(1-1)}| = 1$

$a_{1,1} = \max_i |a_{i,1}^{(2-1)}| = 2$

$a_{2,2} = \max_i |a_{i,2}^{(3-1)}| = 3$

$a_{3,3} = \max_i |a_{i,3}^{(4-1)}| = 4$

$a_{4,4} = \max_i |a_{i,4}^{(5-1)}| = 5$

$a_{5,5} = \max_i |a_{i,5}^{(6-1)}| = 6$

$a_{6,6} = \max_i |a_{i,6}^{(7-1)}| = 7$

$a_{7,7} = \max_i |a_{i,7}^{(8-1)}| = 8$

$a_{8,8} = \max_i |a_{i,8}^{(9-1)}| = 9$

$a_{9,9} = \max_i |a_{i,9}^{(10-1)}| = 10$

$$\bar{x} = \begin{pmatrix} -53.00 \\ -50.50 \\ -31.33 \\ -21.25 \\ -14.80 \\ -10.17 \\ -6.57 \\ -3.62 \\ -1.11 \\ 1.10 \end{pmatrix}$$

$\Delta A = 3.6288e6$

2 $N = 11$

$A = \{a_{i,j} | i = 0..\bar{1}1, j = 0..\bar{1}2\}$

$a_{0,0} = \max_i |a_{i,0}^{(1-1)}| = 1$

$a_{1,1} = \max_i |a_{i,1}^{(2-1)}| = 2$

$a_{2,2} = \max_i |a_{i,2}^{(3-1)}| = 3$

$a_{3,3} = \max_i |a_{i,3}^{(4-1)}| = 4$

$a_{4,4} = \max_i |a_{i,4}^{(5-1)}| = 5$

$a_{5,5} = \max_i |a_{i,5}^{(6-1)}| = 6$

$a_{6,6} = \max_i |a_{i,6}^{(7-1)}| = 7$

$a_{7,7} = \max_i |a_{i,7}^{(8-1)}| = 8$

$$a_{8,8} = \max_i |a_{i,8}^{(9-1)}| = 9$$
$$a_{9,9} = \max_i |a_{i,9}^{(10-1)}| = 10$$
$$a_{10,10} = \max_i |a_{i,10}^{(11-1)}| = 11$$

$$\bar{x} = \begin{pmatrix} -64.00 \\ -61.50 \\ -38.67 \\ -26.75 \\ -19.20 \\ -13.83 \\ -9.71 \\ -6.38 \\ -3.56 \\ -1.10 \\ 1.09 \end{pmatrix}$$

$$\Delta A = 3.99168e7$$

3 $N = 12$

$$A = \{a_{i,j} | i = 0..\bar{1}2, j = 0..\bar{1}3\}$$
$$a_{0,0} = \max_i |a_{i,0}^{(1-1)}| = 1$$
$$a_{1,1} = \max_i |a_{i,1}^{(2-1)}| = 2$$
$$a_{2,2} = \max_i |a_{i,2}^{(3-1)}| = 3$$
$$a_{3,3} = \max_i |a_{i,3}^{(4-1)}| = 4$$
$$a_{4,4} = \max_i |a_{i,4}^{(5-1)}| = 5$$
$$a_{5,5} = \max_i |a_{i,5}^{(6-1)}| = 6$$
$$a_{6,6} = \max_i |a_{i,6}^{(7-1)}| = 7$$
$$a_{7,7} = \max_i |a_{i,7}^{(8-1)}| = 8$$
$$a_{8,8} = \max_i |a_{i,8}^{(9-1)}| = 9$$
$$a_{9,9} = \max_i |a_{i,9}^{(10-1)}| = 10$$
$$a_{10,10} = \max_i |a_{i,10}^{(11-1)}| = 11$$
$$a_{11,11} = \max_i |a_{i,11}^{(12-1)}| = 12$$

$$\bar{x} = \begin{pmatrix} -76.00 \\ -73.50 \\ -46.67 \\ -32.75 \\ -24.00 \\ -17.83 \\ -13.14 \\ -9.38 \\ -6.22 \\ -3.50 \\ -1.09 \\ 1.08 \end{pmatrix}$$

$\Delta A = 4.790016e8$

4 $\quad N = 13$

$A = \{a_{i,j} | i = 0..\bar{1}3, j = 0..\bar{1}4\}$

$a_{0,0} = \max_i |a_{i,0}^{(1-1)}| = 1$

$a_{1,1} = \max_i |a_{i,1}^{(2-1)}| = 2$

$a_{2,2} = \max_i |a_{i,2}^{(3-1)}| = 3$

$a_{3,3} = \max_i |a_{i,3}^{(4-1)}| = 4$

$a_{4,4} = \max_i |a_{i,4}^{(5-1)}| = 5$

$a_{5,5} = \max_i |a_{i,5}^{(6-1)}| = 6$

$a_{6,6} = \max_i |a_{i,6}^{(7-1)}| = 7$

$a_{7,7} = \max_i |a_{i,7}^{(8-1)}| = 8$

$a_{8,8} = \max_i |a_{i,8}^{(9-1)}| = 9$

$a_{9,9} = \max_i |a_{i,9}^{(10-1)}| = 10$

$a_{10,10} = \max_i |a_{i,10}^{(11-1)}| = 11$

$a_{11,11} = \max_i |a_{i,11}^{(12-1)}| = 12$

$a_{12,12} = \max_i |a_{i,12}^{(13-1)}| = 13$

$$\bar{x} = \begin{pmatrix} -89.00 \\ -86.50 \\ -55.33 \\ -39.25 \\ -29.20 \\ -22.17 \\ -16.86 \\ -12.62 \\ -9.11 \\ -6.10 \\ -3.45 \\ -1.08 \\ 1.08 \end{pmatrix}$$

$\Delta A = 6.2270208e9$

5 $\quad N = 14$

$A = \{a_{i,j} | i = 0..\bar{1}4, j = 0..\bar{1}5\}$

$a_{0,0} = \max_i |a_{i,0}^{(1-1)}| = 1$

$a_{1,1} = \max_i |a_{i,1}^{(2-1)}| = 2$

$a_{2,2} = \max_i |a_{i,2}^{(3-1)}| = 3$

$a_{3,3} = \max_i |a_{i,3}^{(4-1)}| = 4$

$a_{4,4} = \max_i |a_{i,4}^{(5-1)}| = 5$

$a_{5,5} = \max_i |a_{i,5}^{(6-1)}| = 6$

$a_{6,6} = \max_i |a_{i,6}^{(7-1)}| = 7$

$a_{7,7} = \max_i |a_{i,7}^{(8-1)}| = 8$

$a_{8,8} = \max_i |a_{i,8}^{(9-1)}| = 9$

$a_{9,9} = \max_i |a_{i,9}^{(10-1)}| = 10$

$a_{10,10} = \max_i |a_{i,10}^{(11-1)}| = 11$

$a_{11,11} = \max_i |a_{i,11}^{(12-1)}| = 12$

$a_{12,12} = \max_i |a_{i,12}^{(13-1)}| = 13$

$a_{13,13} = \max_i |a_{i,13}^{(14-1)}| = 14$

$$\bar{x} = \begin{pmatrix} -103.00 \\ -100.50 \\ -64.67 \\ -46.25 \\ -34.80 \\ -26.83 \\ -20.86 \\ -16.12 \\ -12.22 \\ -8.90 \\ -6.00 \\ -3.42 \\ -1.08 \\ 1.07 \end{pmatrix}$$

$$\Delta A = 8.71782912e10$$

6 $N = 15$

$A = \{a_{i,j} | i = 0..\bar{1}5, j = 0..\bar{1}6\}$

$a_{0,0} = \max_i |a_{i,0}^{(1-1)}| = 1$

$a_{1,1} = \max_i |a_{i,1}^{(2-1)}| = 2$

$a_{2,2} = \max_i |a_{i,2}^{(3-1)}| = 3$

$a_{3,3} = \max_i |a_{i,3}^{(4-1)}| = 4$

$a_{4,4} = \max_i |a_{i,4}^{(5-1)}| = 5$

$a_{5,5} = \max_i |a_{i,5}^{(6-1)}| = 6$

$a_{6,6} = \max_i |a_{i,6}^{(7-1)}| = 7$

$a_{7,7} = \max_i |a_{i,7}^{(8-1)}| = 8$

$a_{8,8} = \max_i |a_{i,8}^{(9-1)}| = 9$

$a_{9,9} = \max_i |a_{i,9}^{(10-1)}| = 10$

$a_{10,10} = \max_i |a_{i,10}^{(11-1)}| = 11$

$a_{11,11} = \max_i |a_{i,11}^{(12-1)}| = 12$

$a_{12,12} = \max_i |a_{i,12}^{(13-1)}| = 13$

$a_{13,13} = \max_i |a_{i,13}^{(14-1)}| = 14$

$a_{14,14} = \max_i |a_{i,14}^{(15-1)}| = 15$

$$\bar{x} = \begin{pmatrix} -118.00 \\ -115.50 \\ -74.67 \\ -53.75 \\ -40.80 \\ -31.83 \\ -25.14 \\ -19.88 \\ -15.56 \\ -11.90 \\ -8.73 \\ -5.92 \\ -3.38 \\ -1.07 \\ 1.07 \end{pmatrix}$$

$$\Delta A = 1.307674368e12$$

7 $N = 16$

$A = \{a_{i,j} | i = 0..\bar{1}6, j = 0..\bar{1}7\}$

$a_{0,0} = \max_i |a_{i,0}^{(1-1)}| = 1$

$a_{1,1} = \max_i |a_{i,1}^{(2-1)}| = 2$

$a_{2,2} = \max_i |a_{i,2}^{(3-1)}| = 3$

$a_{3,3} = \max_i |a_{i,3}^{(4-1)}| = 4$

$a_{4,4} = \max_i |a_{i,4}^{(5-1)}| = 5$

$a_{5,5} = \max_i |a_{i,5}^{(6-1)}| = 6$

$a_{6,6} = \max_i |a_{i,6}^{(7-1)}| = 7$

$a_{7,7} = \max_i |a_{i,7}^{(8-1)}| = 8$

$a_{8,8} = \max_i |a_{i,8}^{(9-1)}| = 9$

$a_{9,9} = \max_i |a_{i,9}^{(10-1)}| = 10$

$a_{10,10} = \max_i |a_{i,10}^{(11-1)}| = 11$

$a_{11,11} = \max_i |a_{i,11}^{(12-1)}| = 12$

$a_{12,12} = \max_i |a_{i,12}^{(13-1)}| = 13$

$a_{13,13} = \max_i |a_{i,13}^{(14-1)}| = 14$

$a_{14,14} = \max_i |a_{i,14}^{(15-1)}| = 15$

$a_{15,15} = \max_i |a_{i,15}^{(16-1)}| = 16$

$$\bar{x} = \begin{pmatrix} -134.00 \\ -131.50 \\ -85.33 \\ -61.75 \\ -47.20 \\ -37.17 \\ -29.71 \\ -23.88 \\ -19.11 \\ -15.10 \\ -11.64 \\ -8.58 \\ -5.85 \\ -3.36 \\ -1.07 \\ 1.06 \end{pmatrix}$$

$$\Delta A = 2.0922789888e13$$

8 $\quad N = 17$

$A = \{a_{i,j} | i = 0..\bar{1}7, j = 0..\bar{1}8\}$

$a_{0,0} = \max_i |a_{i,0}^{(1-1)}| = 1$

$a_{1,1} = \max_i |a_{i,1}^{(2-1)}| = 2$

$a_{2,2} = \max_i |a_{i,2}^{(3-1)}| = 3$

$a_{3,3} = \max_i |a_{i,3}^{(4-1)}| = 4$

$a_{4,4} = \max_i |a_{i,4}^{(5-1)}| = 5$

$a_{5,5} = \max_i |a_{i,5}^{(6-1)}| = 6$

$a_{6,6} = \max_i |a_{i,6}^{(7-1)}| = 7$

$a_{7,7} = \max_i |a_{i,7}^{(8-1)}| = 8$

$a_{8,8} = \max_i |a_{i,8}^{(9-1)}| = 9$

$a_{9,9} = \max_i |a_{i,9}^{(10-1)}| = 10$

$a_{10,10} = \max_i |a_{i,10}^{(11-1)}| = 11$

$a_{11,11} = \max_i |a_{i,11}^{(12-1)}| = 12$

$a_{12,12} = \max_i |a_{i,12}^{(13-1)}| = 13$

$a_{13,13} = \max_i |a_{i,13}^{(14-1)}| = 14$

$a_{14,14} = \max_i |a_{i,14}^{(15-1)}| = 15$

$a_{15,15} = \max_i |a_{i,15}^{(16-1)}| = 16$

$$a_{16,16} = \max_i |a_{i,16}^{(17-1)}| = 17$$

$$\bar{x} = \begin{pmatrix} -151.00 \\ -148.50 \\ -96.67 \\ -70.25 \\ -54.00 \\ -42.83 \\ -34.57 \\ -28.12 \\ -22.89 \\ -18.50 \\ -14.73 \\ -11.42 \\ -8.46 \\ -5.79 \\ -3.33 \\ -1.06 \\ 1.06 \end{pmatrix}$$

$$\Delta A = 3.55687428096e14$$

9 $\quad N = 18$

$$A = \{a_{i,j} | i = 0..\bar{1}8, j = 0..\bar{1}9\}$$

$$a_{0,0} = \max_i |a_{i,0}^{(1-1)}| = 1$$
$$a_{1,1} = \max_i |a_{i,1}^{(2-1)}| = 2$$
$$a_{2,2} = \max_i |a_{i,2}^{(3-1)}| = 3$$
$$a_{3,3} = \max_i |a_{i,3}^{(4-1)}| = 4$$
$$a_{4,4} = \max_i |a_{i,4}^{(5-1)}| = 5$$
$$a_{5,5} = \max_i |a_{i,5}^{(6-1)}| = 6$$
$$a_{6,6} = \max_i |a_{i,6}^{(7-1)}| = 7$$
$$a_{7,7} = \max_i |a_{i,7}^{(8-1)}| = 8$$
$$a_{8,8} = \max_i |a_{i,8}^{(9-1)}| = 9$$
$$a_{9,9} = \max_i |a_{i,9}^{(10-1)}| = 10$$
$$a_{10,10} = \max_i |a_{i,10}^{(11-1)}| = 11$$
$$a_{11,11} = \max_i |a_{i,11}^{(12-1)}| = 12$$
$$a_{12,12} = \max_i |a_{i,12}^{(13-1)}| = 13$$
$$a_{13,13} = \max_i |a_{i,13}^{(14-1)}| = 14$$

$$a_{14,14} = \max_i |a_{i,14}^{(15-1)}| = 15$$
$$a_{15,15} = \max_i |a_{i,15}^{(16-1)}| = 16$$
$$a_{16,16} = \max_i |a_{i,16}^{(17-1)}| = 17$$
$$a_{17,17} = \max_i |a_{i,17}^{(18-1)}| = 18$$

$$\bar{x} = \begin{pmatrix} -169.00 \\ -166.50 \\ -108.67 \\ -79.25 \\ -61.20 \\ -48.83 \\ -39.71 \\ -32.62 \\ -26.89 \\ -22.10 \\ -18.00 \\ -14.42 \\ -11.23 \\ -8.36 \\ -5.73 \\ -3.31 \\ -1.06 \\ 1.06 \end{pmatrix}$$

$$\Delta A = 6.402373705728e15$$

10 $N = 19$

$$A = \{a_{i,j} | i = 0..\bar{1}9, j = 0..\bar{2}0\}$$
$$a_{0,0} = \max_i |a_{i,0}^{(1-1)}| = 1$$
$$a_{1,1} = \max_i |a_{i,1}^{(2-1)}| = 2$$
$$a_{2,2} = \max_i |a_{i,2}^{(3-1)}| = 3$$
$$a_{3,3} = \max_i |a_{i,3}^{(4-1)}| = 4$$
$$a_{4,4} = \max_i |a_{i,4}^{(5-1)}| = 5$$
$$a_{5,5} = \max_i |a_{i,5}^{(6-1)}| = 6$$
$$a_{6,6} = \max_i |a_{i,6}^{(7-1)}| = 7$$
$$a_{7,7} = \max_i |a_{i,7}^{(8-1)}| = 8$$
$$a_{8,8} = \max_i |a_{i,8}^{(9-1)}| = 9$$
$$a_{9,9} = \max_i |a_{i,9}^{(10-1)}| = 10$$

$$a_{10,10} = \max_i |a_{i,10}^{(11-1)}| = 11$$
$$a_{11,11} = \max_i |a_{i,11}^{(12-1)}| = 12$$
$$a_{12,12} = \max_i |a_{i,12}^{(13-1)}| = 13$$
$$a_{13,13} = \max_i |a_{i,13}^{(14-1)}| = 14$$
$$a_{14,14} = \max_i |a_{i,14}^{(15-1)}| = 15$$
$$a_{15,15} = \max_i |a_{i,15}^{(16-1)}| = 16$$
$$a_{16,16} = \max_i |a_{i,16}^{(17-1)}| = 17$$
$$a_{17,17} = \max_i |a_{i,17}^{(18-1)}| = 18$$
$$a_{18,18} = \max_i |a_{i,18}^{(19-1)}| = 19$$

$$\bar{x} = \begin{pmatrix} -188.00 \\ -185.50 \\ -121.33 \\ -88.75 \\ -68.80 \\ -55.17 \\ -45.14 \\ -37.38 \\ -31.11 \\ -25.90 \\ -21.45 \\ -17.58 \\ -14.15 \\ -11.07 \\ -8.27 \\ -5.69 \\ -3.29 \\ -1.06 \\ 1.05 \end{pmatrix}$$

$$\Delta A = 1.21645100408832e17$$

11 $N = 20$

$$A = \{a_{i,j} | i = 0..\bar{2}0, j = 0..\bar{2}1\}$$
$$a_{0,0} = \max_i |a_{i,0}^{(1-1)}| = 1$$
$$a_{1,1} = \max_i |a_{i,1}^{(2-1)}| = 2$$
$$a_{2,2} = \max_i |a_{i,2}^{(3-1)}| = 3$$
$$a_{3,3} = \max_i |a_{i,3}^{(4-1)}| = 4$$

$$a_{4,4} = \max_i |a_{i,4}^{(5-1)}| = 5$$
$$a_{5,5} = \max_i |a_{i,5}^{(6-1)}| = 6$$
$$a_{6,6} = \max_i |a_{i,6}^{(7-1)}| = 7$$
$$a_{7,7} = \max_i |a_{i,7}^{(8-1)}| = 8$$
$$a_{8,8} = \max_i |a_{i,8}^{(9-1)}| = 9$$
$$a_{9,9} = \max_i |a_{i,9}^{(10-1)}| = 10$$
$$a_{10,10} = \max_i |a_{i,10}^{(11-1)}| = 11$$
$$a_{11,11} = \max_i |a_{i,11}^{(12-1)}| = 12$$
$$a_{12,12} = \max_i |a_{i,12}^{(13-1)}| = 13$$
$$a_{13,13} = \max_i |a_{i,13}^{(14-1)}| = 14$$
$$a_{14,14} = \max_i |a_{i,14}^{(15-1)}| = 15$$
$$a_{15,15} = \max_i |a_{i,15}^{(16-1)}| = 16$$
$$a_{16,16} = \max_i |a_{i,16}^{(17-1)}| = 17$$
$$a_{17,17} = \max_i |a_{i,17}^{(18-1)}| = 18$$
$$a_{18,18} = \max_i |a_{i,18}^{(19-1)}| = 19$$
$$a_{19,19} = \max_i |a_{i,19}^{(20-1)}| = 20$$

$$\bar{x} = \begin{pmatrix} -208.00 \\ -205.50 \\ -134.67 \\ -98.75 \\ -76.80 \\ -61.83 \\ -50.86 \\ -42.38 \\ -35.56 \\ -29.90 \\ -25.09 \\ -20.92 \\ -17.23 \\ -13.93 \\ -10.93 \\ -8.19 \\ -5.65 \\ -3.28 \\ -1.05 \\ 1.05 \end{pmatrix}$$

$$\Delta A = 2.43290200817664e18$$

12 $N = 21$

$A = \{a_{i,j} | i = 0..\overline{21}, j = 0..\overline{22}\}$

$a_{0,0} = \max_i |a_{i,0}^{(1-1)}| = 1$

$a_{1,1} = \max_i |a_{i,1}^{(2-1)}| = 2$

$a_{2,2} = \max_i |a_{i,2}^{(3-1)}| = 3$

$a_{3,3} = \max_i |a_{i,3}^{(4-1)}| = 4$

$a_{4,4} = \max_i |a_{i,4}^{(5-1)}| = 5$

$a_{5,5} = \max_i |a_{i,5}^{(6-1)}| = 6$

$a_{6,6} = \max_i |a_{i,6}^{(7-1)}| = 7$

$a_{7,7} = \max_i |a_{i,7}^{(8-1)}| = 8$

$a_{8,8} = \max_i |a_{i,8}^{(9-1)}| = 9$

$a_{9,9} = \max_i |a_{i,9}^{(10-1)}| = 10$

$a_{10,10} = \max_i |a_{i,10}^{(11-1)}| = 11$

$a_{11,11} = \max_i |a_{i,11}^{(12-1)}| = 12$

$a_{12,12} = \max_i |a_{i,12}^{(13-1)}| = 13$

$a_{13,13} = \max_i |a_{i,13}^{(14-1)}| = 14$

$a_{14,14} = \max_i |a_{i,14}^{(15-1)}| = 15$

$a_{15,15} = \max_i |a_{i,15}^{(16-1)}| = 16$

$a_{16,16} = \max_i |a_{i,16}^{(17-1)}| = 17$

$a_{17,17} = \max_i |a_{i,17}^{(18-1)}| = 18$

$a_{18,18} = \max_i |a_{i,18}^{(19-1)}| = 19$

$a_{19,19} = \max_i |a_{i,19}^{(20-1)}| = 20$

$a_{20,20} = \max_i |a_{i,20}^{(21-1)}| = 21$

$$\bar{x} = \begin{pmatrix} -229.00 \\ -226.50 \\ -148.67 \\ -109.25 \\ -85.20 \\ -68.83 \\ -56.86 \\ -47.62 \\ -40.22 \\ -34.10 \\ -28.91 \\ -24.42 \\ -20.46 \\ -16.93 \\ -13.73 \\ -10.81 \\ -8.12 \\ -5.61 \\ -3.26 \\ -1.05 \\ 1.05 \end{pmatrix}$$

$$\Delta A = 5.109094217170944e19$$

13 $N = 22$

$A = \{a_{i,j} | i = 0..\bar{2}2, j = 0..\bar{2}3\}$

$a_{0,0} = \max_i |a_{i,0}^{(1-1)}| = 1$

$a_{1,1} = \max_i |a_{i,1}^{(2-1)}| = 2$

$a_{2,2} = \max_i |a_{i,2}^{(3-1)}| = 3$

$a_{3,3} = \max_i |a_{i,3}^{(4-1)}| = 4$

$a_{4,4} = \max_i |a_{i,4}^{(5-1)}| = 5$

$a_{5,5} = \max_i |a_{i,5}^{(6-1)}| = 6$

$a_{6,6} = \max_i |a_{i,6}^{(7-1)}| = 7$

$a_{7,7} = \max_i |a_{i,7}^{(8-1)}| = 8$

$a_{8,8} = \max_i |a_{i,8}^{(9-1)}| = 9$

$a_{9,9} = \max_i |a_{i,9}^{(10-1)}| = 10$

$a_{10,10} = \max_i |a_{i,10}^{(11-1)}| = 11$

$a_{11,11} = \max_i |a_{i,11}^{(12-1)}| = 12$

$$a_{12,12} = \max_i |a_{i,12}^{(13-1)}| = 13$$
$$a_{13,13} = \max_i |a_{i,13}^{(14-1)}| = 14$$
$$a_{14,14} = \max_i |a_{i,14}^{(15-1)}| = 15$$
$$a_{15,15} = \max_i |a_{i,15}^{(16-1)}| = 16$$
$$a_{16,16} = \max_i |a_{i,16}^{(17-1)}| = 17$$
$$a_{17,17} = \max_i |a_{i,17}^{(18-1)}| = 18$$
$$a_{18,18} = \max_i |a_{i,18}^{(19-1)}| = 19$$
$$a_{19,19} = \max_i |a_{i,19}^{(20-1)}| = 20$$
$$a_{20,20} = \max_i |a_{i,20}^{(21-1)}| = 21$$
$$a_{21,21} = \max_i |a_{i,21}^{(22-1)}| = 22$$

$$\bar{x} = \begin{pmatrix} -251.00 \\ -248.50 \\ -163.33 \\ -120.25 \\ -94.00 \\ -76.17 \\ -63.14 \\ -53.12 \\ -45.11 \\ -38.50 \\ -32.91 \\ -28.08 \\ -23.85 \\ -20.07 \\ -16.67 \\ -13.56 \\ -10.71 \\ -8.06 \\ -5.58 \\ -3.25 \\ -1.05 \\ 1.05 \end{pmatrix}$$

$$\Delta A = 1.1240007277776077e21$$

14 $N = 23$

$$A = \{a_{i,j} | i = 0..\bar{2}3, j = 0..\bar{2}4\}$$
$$a_{0,0} = \max_i |a_{i,0}^{(1-1)}| = 1$$

$$a_{1,1} = \max_i |a_{i,1}^{(2-1)}| = 2$$
$$a_{2,2} = \max_i |a_{i,2}^{(3-1)}| = 3$$
$$a_{3,3} = \max_i |a_{i,3}^{(4-1)}| = 4$$
$$a_{4,4} = \max_i |a_{i,4}^{(5-1)}| = 5$$
$$a_{5,5} = \max_i |a_{i,5}^{(6-1)}| = 6$$
$$a_{6,6} = \max_i |a_{i,6}^{(7-1)}| = 7$$
$$a_{7,7} = \max_i |a_{i,7}^{(8-1)}| = 8$$
$$a_{8,8} = \max_i |a_{i,8}^{(9-1)}| = 9$$
$$a_{9,9} = \max_i |a_{i,9}^{(10-1)}| = 10$$
$$a_{10,10} = \max_i |a_{i,10}^{(11-1)}| = 11$$
$$a_{11,11} = \max_i |a_{i,11}^{(12-1)}| = 12$$
$$a_{12,12} = \max_i |a_{i,12}^{(13-1)}| = 13$$
$$a_{13,13} = \max_i |a_{i,13}^{(14-1)}| = 14$$
$$a_{14,14} = \max_i |a_{i,14}^{(15-1)}| = 15$$
$$a_{15,15} = \max_i |a_{i,15}^{(16-1)}| = 16$$
$$a_{16,16} = \max_i |a_{i,16}^{(17-1)}| = 17$$
$$a_{17,17} = \max_i |a_{i,17}^{(18-1)}| = 18$$
$$a_{18,18} = \max_i |a_{i,18}^{(19-1)}| = 19$$
$$a_{19,19} = \max_i |a_{i,19}^{(20-1)}| = 20$$
$$a_{20,20} = \max_i |a_{i,20}^{(21-1)}| = 21$$
$$a_{21,21} = \max_i |a_{i,21}^{(22-1)}| = 22$$
$$a_{22,22} = \max_i |a_{i,22}^{(23-1)}| = 23$$

$$\bar{x} = \begin{pmatrix} -274.00 \\ -271.50 \\ -178.67 \\ -131.75 \\ -103.20 \\ -83.83 \\ -69.71 \\ -58.88 \\ -50.22 \\ -43.10 \\ -37.09 \\ -31.92 \\ -27.38 \\ -23.36 \\ -19.73 \\ -16.44 \\ -13.41 \\ -10.61 \\ -8.00 \\ -5.55 \\ -3.24 \\ -1.05 \\ 1.04 \end{pmatrix}$$

$\Delta A = 2.585201673888498e22$

15 $N = 24$

$A = \{a_{i,j} | i = 0..\overline{24}, j = 0..\overline{25}\}$

$a_{0,0} = \max_i |a_{i,0}^{(1-1)}| = 1$

$a_{1,1} = \max_i |a_{i,1}^{(2-1)}| = 2$

$a_{2,2} = \max_i |a_{i,2}^{(3-1)}| = 3$

$a_{3,3} = \max_i |a_{i,3}^{(4-1)}| = 4$

$a_{4,4} = \max_i |a_{i,4}^{(5-1)}| = 5$

$a_{5,5} = \max_i |a_{i,5}^{(6-1)}| = 6$

$a_{6,6} = \max_i |a_{i,6}^{(7-1)}| = 7$

$a_{7,7} = \max_i |a_{i,7}^{(8-1)}| = 8$

$a_{8,8} = \max_i |a_{i,8}^{(9-1)}| = 9$

$a_{9,9} = \max_i |a_{i,9}^{(10-1)}| = 10$

$$a_{10,10} = \max_i |a_{i,10}^{(11-1)}| = 11$$
$$a_{11,11} = \max_i |a_{i,11}^{(12-1)}| = 12$$
$$a_{12,12} = \max_i |a_{i,12}^{(13-1)}| = 13$$
$$a_{13,13} = \max_i |a_{i,13}^{(14-1)}| = 14$$
$$a_{14,14} = \max_i |a_{i,14}^{(15-1)}| = 15$$
$$a_{15,15} = \max_i |a_{i,15}^{(16-1)}| = 16$$
$$a_{16,16} = \max_i |a_{i,16}^{(17-1)}| = 17$$
$$a_{17,17} = \max_i |a_{i,17}^{(18-1)}| = 18$$
$$a_{18,18} = \max_i |a_{i,18}^{(19-1)}| = 19$$
$$a_{19,19} = \max_i |a_{i,19}^{(20-1)}| = 20$$
$$a_{20,20} = \max_i |a_{i,20}^{(21-1)}| = 21$$
$$a_{21,21} = \max_i |a_{i,21}^{(22-1)}| = 22$$
$$a_{22,22} = \max_i |a_{i,22}^{(23-1)}| = 23$$
$$a_{23,23} = \max_i |a_{i,23}^{(24-1)}| = 24$$

$$\bar{x} = \begin{pmatrix} -298.00 \\ -295.50 \\ -194.67 \\ -143.75 \\ -112.80 \\ -91.83 \\ -76.57 \\ -64.88 \\ -55.56 \\ -47.90 \\ -41.45 \\ -35.92 \\ -31.08 \\ -26.79 \\ -22.93 \\ -19.44 \\ -16.24 \\ -13.28 \\ -10.53 \\ -7.95 \\ -5.52 \\ -3.23 \\ -1.04 \\ 1.04 \end{pmatrix}$$

$$\Delta A = 6.204484017332394e23$$

16 $N = 25$

$A = \{a_{i,j} | i = 0..\overline{2}5, j = 0..\overline{2}6\}$

$\quad a_{0,0} = \max_i |a_{i,0}^{(1-1)}| = 1$

$\quad a_{1,1} = \max_i |a_{i,1}^{(2-1)}| = 2$

$\quad a_{2,2} = \max_i |a_{i,2}^{(3-1)}| = 3$

$\quad a_{3,3} = \max_i |a_{i,3}^{(4-1)}| = 4$

$\quad a_{4,4} = \max_i |a_{i,4}^{(5-1)}| = 5$

$\quad a_{5,5} = \max_i |a_{i,5}^{(6-1)}| = 6$

$\quad a_{6,6} = \max_i |a_{i,6}^{(7-1)}| = 7$

$\quad a_{7,7} = \max_i |a_{i,7}^{(8-1)}| = 8$

$\quad a_{8,8} = \max_i |a_{i,8}^{(9-1)}| = 9$

$\quad a_{9,9} = \max_i |a_{i,9}^{(10-1)}| = 10$

$\quad a_{10,10} = \max_i |a_{i,10}^{(11-1)}| = 11$

$\quad a_{11,11} = \max_i |a_{i,11}^{(12-1)}| = 12$

$\quad a_{12,12} = \max_i |a_{i,12}^{(13-1)}| = 13$

$\quad a_{13,13} = \max_i |a_{i,13}^{(14-1)}| = 14$

$\quad a_{14,14} = \max_i |a_{i,14}^{(15-1)}| = 15$

$\quad a_{15,15} = \max_i |a_{i,15}^{(16-1)}| = 16$

$\quad a_{16,16} = \max_i |a_{i,16}^{(17-1)}| = 17$

$\quad a_{17,17} = \max_i |a_{i,17}^{(18-1)}| = 18$

$\quad a_{18,18} = \max_i |a_{i,18}^{(19-1)}| = 19$

$\quad a_{19,19} = \max_i |a_{i,19}^{(20-1)}| = 20$

$\quad a_{20,20} = \max_i |a_{i,20}^{(21-1)}| = 21$

$\quad a_{21,21} = \max_i |a_{i,21}^{(22-1)}| = 22$

$\quad a_{22,22} = \max_i |a_{i,22}^{(23-1)}| = 23$

$\quad a_{23,23} = \max_i |a_{i,23}^{(24-1)}| = 24$

$\quad a_{24,24} = \max_i |a_{i,24}^{(25-1)}| = 25$

$$\bar{x} = \begin{pmatrix} -323.00 \\ -320.50 \\ -211.33 \\ -156.25 \\ -122.80 \\ -100.17 \\ -83.71 \\ -71.12 \\ -61.11 \\ -52.90 \\ -46.00 \\ -40.08 \\ -34.92 \\ -30.36 \\ -26.27 \\ -22.56 \\ -19.18 \\ -16.06 \\ -13.16 \\ -10.45 \\ -7.90 \\ -5.50 \\ -3.22 \\ -1.04 \\ 1.04 \end{pmatrix}$$

$\Delta A = 1.5511210043330986e25$

17 $\quad N = 26$

$A = \{a_{i,j} | i = 0..\bar{2}6, j = 0..\bar{2}7\}$

$a_{0,0} = \max_i |a_{i,0}^{(1-1)}| = 1$

$a_{1,1} = \max_i |a_{i,1}^{(2-1)}| = 2$

$a_{2,2} = \max_i |a_{i,2}^{(3-1)}| = 3$

$a_{3,3} = \max_i |a_{i,3}^{(4-1)}| = 4$

$a_{4,4} = \max_i |a_{i,4}^{(5-1)}| = 5$

$a_{5,5} = \max_i |a_{i,5}^{(6-1)}| = 6$

$a_{6,6} = \max_i |a_{i,6}^{(7-1)}| = 7$

$a_{7,7} = \max_i |a_{i,7}^{(8-1)}| = 8$

$$a_{8,8} = \max_i |a_{i,8}^{(9-1)}| = 9$$
$$a_{9,9} = \max_i |a_{i,9}^{(10-1)}| = 10$$
$$a_{10,10} = \max_i |a_{i,10}^{(11-1)}| = 11$$
$$a_{11,11} = \max_i |a_{i,11}^{(12-1)}| = 12$$
$$a_{12,12} = \max_i |a_{i,12}^{(13-1)}| = 13$$
$$a_{13,13} = \max_i |a_{i,13}^{(14-1)}| = 14$$
$$a_{14,14} = \max_i |a_{i,14}^{(15-1)}| = 15$$
$$a_{15,15} = \max_i |a_{i,15}^{(16-1)}| = 16$$
$$a_{16,16} = \max_i |a_{i,16}^{(17-1)}| = 17$$
$$a_{17,17} = \max_i |a_{i,17}^{(18-1)}| = 18$$
$$a_{18,18} = \max_i |a_{i,18}^{(19-1)}| = 19$$
$$a_{19,19} = \max_i |a_{i,19}^{(20-1)}| = 20$$
$$a_{20,20} = \max_i |a_{i,20}^{(21-1)}| = 21$$
$$a_{21,21} = \max_i |a_{i,21}^{(22-1)}| = 22$$
$$a_{22,22} = \max_i |a_{i,22}^{(23-1)}| = 23$$
$$a_{23,23} = \max_i |a_{i,23}^{(24-1)}| = 24$$
$$a_{24,24} = \max_i |a_{i,24}^{(25-1)}| = 25$$
$$a_{25,25} = \max_i |a_{i,25}^{(26-1)}| = 26$$

$$\bar{x} = \begin{pmatrix} -349.00 \\ -346.50 \\ -228.67 \\ -169.25 \\ -133.20 \\ -108.83 \\ -91.14 \\ -77.62 \\ -66.89 \\ -58.10 \\ -50.73 \\ -44.42 \\ -38.92 \\ -34.07 \\ -29.73 \\ -25.81 \\ -22.24 \\ -18.94 \\ -15.89 \\ -13.05 \\ -10.38 \\ -7.86 \\ -5.48 \\ -3.21 \\ -1.04 \\ 1.04 \end{pmatrix}$$

$\Delta A = 4.0329146112660565e26$

18 $N = 27$

$A = \{a_{i,j} | i = 0..\bar{2}7, j = 0..\bar{2}8\}$

$a_{0,0} = \max_i |a_{i,0}^{(1-1)}| = 1$

$a_{1,1} = \max_i |a_{i,1}^{(2-1)}| = 2$

$a_{2,2} = \max_i |a_{i,2}^{(3-1)}| = 3$

$a_{3,3} = \max_i |a_{i,3}^{(4-1)}| = 4$

$a_{4,4} = \max_i |a_{i,4}^{(5-1)}| = 5$

$a_{5,5} = \max_i |a_{i,5}^{(6-1)}| = 6$

$a_{6,6} = \max_i |a_{i,6}^{(7-1)}| = 7$

$$a_{7,7} = \max_i |a_{i,7}^{(8-1)}| = 8$$
$$a_{8,8} = \max_i |a_{i,8}^{(9-1)}| = 9$$
$$a_{9,9} = \max_i |a_{i,9}^{(10-1)}| = 10$$
$$a_{10,10} = \max_i |a_{i,10}^{(11-1)}| = 11$$
$$a_{11,11} = \max_i |a_{i,11}^{(12-1)}| = 12$$
$$a_{12,12} = \max_i |a_{i,12}^{(13-1)}| = 13$$
$$a_{13,13} = \max_i |a_{i,13}^{(14-1)}| = 14$$
$$a_{14,14} = \max_i |a_{i,14}^{(15-1)}| = 15$$
$$a_{15,15} = \max_i |a_{i,15}^{(16-1)}| = 16$$
$$a_{16,16} = \max_i |a_{i,16}^{(17-1)}| = 17$$
$$a_{17,17} = \max_i |a_{i,17}^{(18-1)}| = 18$$
$$a_{18,18} = \max_i |a_{i,18}^{(19-1)}| = 19$$
$$a_{19,19} = \max_i |a_{i,19}^{(20-1)}| = 20$$
$$a_{20,20} = \max_i |a_{i,20}^{(21-1)}| = 21$$
$$a_{21,21} = \max_i |a_{i,21}^{(22-1)}| = 22$$
$$a_{22,22} = \max_i |a_{i,22}^{(23-1)}| = 23$$
$$a_{23,23} = \max_i |a_{i,23}^{(24-1)}| = 24$$
$$a_{24,24} = \max_i |a_{i,24}^{(25-1)}| = 25$$
$$a_{25,25} = \max_i |a_{i,25}^{(26-1)}| = 26$$
$$a_{26,26} = \max_i |a_{i,26}^{(27-1)}| = 27$$

$$\bar{x} = \begin{pmatrix} -376.00 \\ -373.50 \\ -246.67 \\ -182.75 \\ -144.00 \\ -117.83 \\ -98.86 \\ -84.38 \\ -72.89 \\ -63.50 \\ -55.64 \\ -48.92 \\ -43.08 \\ -37.93 \\ -33.33 \\ -29.19 \\ -25.41 \\ -21.94 \\ -18.74 \\ -15.75 \\ -12.95 \\ -10.32 \\ -7.83 \\ -5.46 \\ -3.20 \\ -1.04 \\ 1.04 \end{pmatrix}$$

$$\Delta A = 1.0888869450418352e28$$

19 $N = 28$

$A = \{a_{i,j} | i = 0..\bar{2}8, j = 0..\bar{2}9\}$

$\quad a_{0,0} = \max_i |a_{i,0}^{(1-1)}| = 1$

$\quad a_{1,1} = \max_i |a_{i,1}^{(2-1)}| = 2$

$\quad a_{2,2} = \max_i |a_{i,2}^{(3-1)}| = 3$

$\quad a_{3,3} = \max_i |a_{i,3}^{(4-1)}| = 4$

$\quad a_{4,4} = \max_i |a_{i,4}^{(5-1)}| = 5$

$\quad a_{5,5} = \max_i |a_{i,5}^{(6-1)}| = 6$

$\quad a_{6,6} = \max_i |a_{i,6}^{(7-1)}| = 7$

$$a_{7,7} = \max_i |a_{i,7}^{(8-1)}| = 8$$
$$a_{8,8} = \max_i |a_{i,8}^{(9-1)}| = 9$$
$$a_{9,9} = \max_i |a_{i,9}^{(10-1)}| = 10$$
$$a_{10,10} = \max_i |a_{i,10}^{(11-1)}| = 11$$
$$a_{11,11} = \max_i |a_{i,11}^{(12-1)}| = 12$$
$$a_{12,12} = \max_i |a_{i,12}^{(13-1)}| = 13$$
$$a_{13,13} = \max_i |a_{i,13}^{(14-1)}| = 14$$
$$a_{14,14} = \max_i |a_{i,14}^{(15-1)}| = 15$$
$$a_{15,15} = \max_i |a_{i,15}^{(16-1)}| = 16$$
$$a_{16,16} = \max_i |a_{i,16}^{(17-1)}| = 17$$
$$a_{17,17} = \max_i |a_{i,17}^{(18-1)}| = 18$$
$$a_{18,18} = \max_i |a_{i,18}^{(19-1)}| = 19$$
$$a_{19,19} = \max_i |a_{i,19}^{(20-1)}| = 20$$
$$a_{20,20} = \max_i |a_{i,20}^{(21-1)}| = 21$$
$$a_{21,21} = \max_i |a_{i,21}^{(22-1)}| = 22$$
$$a_{22,22} = \max_i |a_{i,22}^{(23-1)}| = 23$$
$$a_{23,23} = \max_i |a_{i,23}^{(24-1)}| = 24$$
$$a_{24,24} = \max_i |a_{i,24}^{(25-1)}| = 25$$
$$a_{25,25} = \max_i |a_{i,25}^{(26-1)}| = 26$$
$$a_{26,26} = \max_i |a_{i,26}^{(27-1)}| = 27$$
$$a_{27,27} = \max_i |a_{i,27}^{(28-1)}| = 28$$

$$\bar{x} = \begin{pmatrix} -404.00 \\ -401.50 \\ -265.33 \\ -196.75 \\ -155.20 \\ -127.17 \\ -106.86 \\ -91.38 \\ -79.11 \\ -69.10 \\ -60.73 \\ -53.58 \\ -47.38 \\ -41.93 \\ -37.07 \\ -32.69 \\ -28.71 \\ -25.06 \\ -21.68 \\ -18.55 \\ -15.62 \\ -12.86 \\ -10.26 \\ -7.79 \\ -5.44 \\ -3.19 \\ -1.04 \\ 1.04 \end{pmatrix}$$

$\Delta A = 3.0488834461171384e29$

20 $\quad N = 29$

$A = \{a_{i,j} | i = 0..\overline{29}, j = 0..\overline{30}\}$

$a_{0,0} = \max_i |a_{i,0}^{(1-1)}| = 1$

$a_{1,1} = \max_i |a_{i,1}^{(2-1)}| = 2$

$a_{2,2} = \max_i |a_{i,2}^{(3-1)}| = 3$

$a_{3,3} = \max_i |a_{i,3}^{(4-1)}| = 4$

$a_{4,4} = \max_i |a_{i,4}^{(5-1)}| = 5$

$a_{5,5} = \max_i |a_{i,5}^{(6-1)}| = 6$

$$a_{6,6} = \max_i |a_{i,6}^{(7-1)}| = 7$$
$$a_{7,7} = \max_i |a_{i,7}^{(8-1)}| = 8$$
$$a_{8,8} = \max_i |a_{i,8}^{(9-1)}| = 9$$
$$a_{9,9} = \max_i |a_{i,9}^{(10-1)}| = 10$$
$$a_{10,10} = \max_i |a_{i,10}^{(11-1)}| = 11$$
$$a_{11,11} = \max_i |a_{i,11}^{(12-1)}| = 12$$
$$a_{12,12} = \max_i |a_{i,12}^{(13-1)}| = 13$$
$$a_{13,13} = \max_i |a_{i,13}^{(14-1)}| = 14$$
$$a_{14,14} = \max_i |a_{i,14}^{(15-1)}| = 15$$
$$a_{15,15} = \max_i |a_{i,15}^{(16-1)}| = 16$$
$$a_{16,16} = \max_i |a_{i,16}^{(17-1)}| = 17$$
$$a_{17,17} = \max_i |a_{i,17}^{(18-1)}| = 18$$
$$a_{18,18} = \max_i |a_{i,18}^{(19-1)}| = 19$$
$$a_{19,19} = \max_i |a_{i,19}^{(20-1)}| = 20$$
$$a_{20,20} = \max_i |a_{i,20}^{(21-1)}| = 21$$
$$a_{21,21} = \max_i |a_{i,21}^{(22-1)}| = 22$$
$$a_{22,22} = \max_i |a_{i,22}^{(23-1)}| = 23$$
$$a_{23,23} = \max_i |a_{i,23}^{(24-1)}| = 24$$
$$a_{24,24} = \max_i |a_{i,24}^{(25-1)}| = 25$$
$$a_{25,25} = \max_i |a_{i,25}^{(26-1)}| = 26$$
$$a_{26,26} = \max_i |a_{i,26}^{(27-1)}| = 27$$
$$a_{27,27} = \max_i |a_{i,27}^{(28-1)}| = 28$$
$$a_{28,28} = \max_i |a_{i,28}^{(29-1)}| = 29$$

$$\bar{x} = \begin{pmatrix} -433.00 \\ -430.50 \\ -284.67 \\ -211.25 \\ -166.80 \\ -136.83 \\ -115.14 \\ -98.62 \\ -85.56 \\ -74.90 \\ -66.00 \\ -58.42 \\ -51.85 \\ -46.07 \\ -40.93 \\ -36.31 \\ -32.12 \\ -28.28 \\ -24.74 \\ -21.45 \\ -18.38 \\ -15.50 \\ -12.78 \\ -10.21 \\ -7.76 \\ -5.42 \\ -3.19 \\ -1.04 \\ 1.03 \end{pmatrix}$$

$\Delta A = 8.841761993739701e30$

21 $\quad N = 30$

$A = \{a_{i,j} | i = 0..\bar{3}0, j = 0..\bar{3}1\}$

$a_{0,0} = \max_i |a_{i,0}^{(1-1)}| = 1$

$a_{1,1} = \max_i |a_{i,1}^{(2-1)}| = 2$

$a_{2,2} = \max_i |a_{i,2}^{(3-1)}| = 3$

$a_{3,3} = \max_i |a_{i,3}^{(4-1)}| = 4$

$a_{4,4} = \max_i |a_{i,4}^{(5-1)}| = 5$

$$a_{5,5} = \max_i |a_{i,5}^{(6-1)}| = 6$$
$$a_{6,6} = \max_i |a_{i,6}^{(7-1)}| = 7$$
$$a_{7,7} = \max_i |a_{i,7}^{(8-1)}| = 8$$
$$a_{8,8} = \max_i |a_{i,8}^{(9-1)}| = 9$$
$$a_{9,9} = \max_i |a_{i,9}^{(10-1)}| = 10$$
$$a_{10,10} = \max_i |a_{i,10}^{(11-1)}| = 11$$
$$a_{11,11} = \max_i |a_{i,11}^{(12-1)}| = 12$$
$$a_{12,12} = \max_i |a_{i,12}^{(13-1)}| = 13$$
$$a_{13,13} = \max_i |a_{i,13}^{(14-1)}| = 14$$
$$a_{14,14} = \max_i |a_{i,14}^{(15-1)}| = 15$$
$$a_{15,15} = \max_i |a_{i,15}^{(16-1)}| = 16$$
$$a_{16,16} = \max_i |a_{i,16}^{(17-1)}| = 17$$
$$a_{17,17} = \max_i |a_{i,17}^{(18-1)}| = 18$$
$$a_{18,18} = \max_i |a_{i,18}^{(19-1)}| = 19$$
$$a_{19,19} = \max_i |a_{i,19}^{(20-1)}| = 20$$
$$a_{20,20} = \max_i |a_{i,20}^{(21-1)}| = 21$$
$$a_{21,21} = \max_i |a_{i,21}^{(22-1)}| = 22$$
$$a_{22,22} = \max_i |a_{i,22}^{(23-1)}| = 23$$
$$a_{23,23} = \max_i |a_{i,23}^{(24-1)}| = 24$$
$$a_{24,24} = \max_i |a_{i,24}^{(25-1)}| = 25$$
$$a_{25,25} = \max_i |a_{i,25}^{(26-1)}| = 26$$
$$a_{26,26} = \max_i |a_{i,26}^{(27-1)}| = 27$$
$$a_{27,27} = \max_i |a_{i,27}^{(28-1)}| = 28$$
$$a_{28,28} = \max_i |a_{i,28}^{(29-1)}| = 29$$
$$a_{29,29} = \max_i |a_{i,29}^{(30-1)}| = 30$$

$$\bar{x} = \begin{pmatrix} -463.00 \\ -460.50 \\ -304.67 \\ -226.25 \\ -178.80 \\ -146.83 \\ -123.71 \\ -106.12 \\ -92.22 \\ -80.90 \\ -71.45 \\ -63.42 \\ -56.46 \\ -50.36 \\ -44.93 \\ -40.06 \\ -35.65 \\ -31.61 \\ -27.89 \\ -24.45 \\ -21.24 \\ -18.23 \\ -15.39 \\ -12.71 \\ -10.16 \\ -7.73 \\ -5.41 \\ -3.18 \\ -1.03 \\ 1.03 \end{pmatrix}$$

$$\Delta A = 2.6525285981219103e32$$

22 $N = 31$

$A = \{a_{i,j} | i = 0..\overline{31}, j = 0..\overline{32}\}$

$a_{0,0} = \max_i |a_{i,0}^{(1-1)}| = 1$

$a_{1,1} = \max_i |a_{i,1}^{(2-1)}| = 2$

$a_{2,2} = \max_i |a_{i,2}^{(3-1)}| = 3$

$a_{3,3} = \max_i |a_{i,3}^{(4-1)}| = 4$

$$a_{4,4} = \max_i |a_{i,4}^{(5-1)}| = 5$$
$$a_{5,5} = \max_i |a_{i,5}^{(6-1)}| = 6$$
$$a_{6,6} = \max_i |a_{i,6}^{(7-1)}| = 7$$
$$a_{7,7} = \max_i |a_{i,7}^{(8-1)}| = 8$$
$$a_{8,8} = \max_i |a_{i,8}^{(9-1)}| = 9$$
$$a_{9,9} = \max_i |a_{i,9}^{(10-1)}| = 10$$
$$a_{10,10} = \max_i |a_{i,10}^{(11-1)}| = 11$$
$$a_{11,11} = \max_i |a_{i,11}^{(12-1)}| = 12$$
$$a_{12,12} = \max_i |a_{i,12}^{(13-1)}| = 13$$
$$a_{13,13} = \max_i |a_{i,13}^{(14-1)}| = 14$$
$$a_{14,14} = \max_i |a_{i,14}^{(15-1)}| = 15$$
$$a_{15,15} = \max_i |a_{i,15}^{(16-1)}| = 16$$
$$a_{16,16} = \max_i |a_{i,16}^{(17-1)}| = 17$$
$$a_{17,17} = \max_i |a_{i,17}^{(18-1)}| = 18$$
$$a_{18,18} = \max_i |a_{i,18}^{(19-1)}| = 19$$
$$a_{19,19} = \max_i |a_{i,19}^{(20-1)}| = 20$$
$$a_{20,20} = \max_i |a_{i,20}^{(21-1)}| = 21$$
$$a_{21,21} = \max_i |a_{i,21}^{(22-1)}| = 22$$
$$a_{22,22} = \max_i |a_{i,22}^{(23-1)}| = 23$$
$$a_{23,23} = \max_i |a_{i,23}^{(24-1)}| = 24$$
$$a_{24,24} = \max_i |a_{i,24}^{(25-1)}| = 25$$
$$a_{25,25} = \max_i |a_{i,25}^{(26-1)}| = 26$$
$$a_{26,26} = \max_i |a_{i,26}^{(27-1)}| = 27$$
$$a_{27,27} = \max_i |a_{i,27}^{(28-1)}| = 28$$
$$a_{28,28} = \max_i |a_{i,28}^{(29-1)}| = 29$$
$$a_{29,29} = \max_i |a_{i,29}^{(30-1)}| = 30$$
$$a_{30,30} = \max_i |a_{i,30}^{(31-1)}| = 31$$

$$\bar{x} = \begin{pmatrix} -494.00 \\ -491.50 \\ -325.33 \\ -241.75 \\ -191.20 \\ -157.17 \\ -132.57 \\ -113.88 \\ -99.11 \\ -87.10 \\ -77.09 \\ -68.58 \\ -61.23 \\ -54.79 \\ -49.07 \\ -43.94 \\ -39.29 \\ -35.06 \\ -31.16 \\ -27.55 \\ -24.19 \\ -21.05 \\ -18.09 \\ -15.29 \\ -12.64 \\ -10.12 \\ -7.70 \\ -5.39 \\ -3.17 \\ -1.03 \\ 1.03 \end{pmatrix}$$

$\Delta A = 8.222838654177922e33$

23 $N = 32$

$A = \{a_{i,j} | i = 0..\overline{32}, j = 0..\overline{33}\}$

$a_{0,0} = \max_i |a_{i,0}^{(1-1)}| = 1$

$a_{1,1} = \max_i |a_{i,1}^{(2-1)}| = 2$

$a_{2,2} = \max_i |a_{i,2}^{(3-1)}| = 3$

$$a_{3,3} = \max_i |a_{i,3}^{(4-1)}| = 4$$
$$a_{4,4} = \max_i |a_{i,4}^{(5-1)}| = 5$$
$$a_{5,5} = \max_i |a_{i,5}^{(6-1)}| = 6$$
$$a_{6,6} = \max_i |a_{i,6}^{(7-1)}| = 7$$
$$a_{7,7} = \max_i |a_{i,7}^{(8-1)}| = 8$$
$$a_{8,8} = \max_i |a_{i,8}^{(9-1)}| = 9$$
$$a_{9,9} = \max_i |a_{i,9}^{(10-1)}| = 10$$
$$a_{10,10} = \max_i |a_{i,10}^{(11-1)}| = 11$$
$$a_{11,11} = \max_i |a_{i,11}^{(12-1)}| = 12$$
$$a_{12,12} = \max_i |a_{i,12}^{(13-1)}| = 13$$
$$a_{13,13} = \max_i |a_{i,13}^{(14-1)}| = 14$$
$$a_{14,14} = \max_i |a_{i,14}^{(15-1)}| = 15$$
$$a_{15,15} = \max_i |a_{i,15}^{(16-1)}| = 16$$
$$a_{16,16} = \max_i |a_{i,16}^{(17-1)}| = 17$$
$$a_{17,17} = \max_i |a_{i,17}^{(18-1)}| = 18$$
$$a_{18,18} = \max_i |a_{i,18}^{(19-1)}| = 19$$
$$a_{19,19} = \max_i |a_{i,19}^{(20-1)}| = 20$$
$$a_{20,20} = \max_i |a_{i,20}^{(21-1)}| = 21$$
$$a_{21,21} = \max_i |a_{i,21}^{(22-1)}| = 22$$
$$a_{22,22} = \max_i |a_{i,22}^{(23-1)}| = 23$$
$$a_{23,23} = \max_i |a_{i,23}^{(24-1)}| = 24$$
$$a_{24,24} = \max_i |a_{i,24}^{(25-1)}| = 25$$
$$a_{25,25} = \max_i |a_{i,25}^{(26-1)}| = 26$$
$$a_{26,26} = \max_i |a_{i,26}^{(27-1)}| = 27$$
$$a_{27,27} = \max_i |a_{i,27}^{(28-1)}| = 28$$
$$a_{28,28} = \max_i |a_{i,28}^{(29-1)}| = 29$$
$$a_{29,29} = \max_i |a_{i,29}^{(30-1)}| = 30$$
$$a_{30,30} = \max_i |a_{i,30}^{(31-1)}| = 31$$
$$a_{31,31} = \max_i |a_{i,31}^{(32-1)}| = 32$$

$$\bar{x} = \begin{pmatrix} -526.00 \\ -523.50 \\ -346.67 \\ -257.75 \\ -204.00 \\ -167.83 \\ -141.71 \\ -121.88 \\ -106.22 \\ -93.50 \\ -82.91 \\ -73.92 \\ -66.15 \\ -59.36 \\ -53.33 \\ -47.94 \\ -43.06 \\ -38.61 \\ -34.53 \\ -30.75 \\ -27.24 \\ -23.95 \\ -20.87 \\ -17.96 \\ -15.20 \\ -12.58 \\ -10.07 \\ -7.68 \\ -5.38 \\ -3.17 \\ -1.03 \\ 1.03 \end{pmatrix}$$

$\Delta A = 2.631308369336935e35$

24 $\quad N = 33$

$A = \{a_{i,j} | i = 0..\bar{3}3, j = 0..\bar{3}4\}$

$a_{0,0} = \max_i |a_{i,0}^{(1-1)}| = 1$

$a_{1,1} = \max_i |a_{i,1}^{(2-1)}| = 2$

$a_{2,2} = \max_i |a_{i,2}^{(3-1)}| = 3$

$$a_{3,3} = \max_i |a_{i,3}^{(4-1)}| = 4$$
$$a_{4,4} = \max_i |a_{i,4}^{(5-1)}| = 5$$
$$a_{5,5} = \max_i |a_{i,5}^{(6-1)}| = 6$$
$$a_{6,6} = \max_i |a_{i,6}^{(7-1)}| = 7$$
$$a_{7,7} = \max_i |a_{i,7}^{(8-1)}| = 8$$
$$a_{8,8} = \max_i |a_{i,8}^{(9-1)}| = 9$$
$$a_{9,9} = \max_i |a_{i,9}^{(10-1)}| = 10$$
$$a_{10,10} = \max_i |a_{i,10}^{(11-1)}| = 11$$
$$a_{11,11} = \max_i |a_{i,11}^{(12-1)}| = 12$$
$$a_{12,12} = \max_i |a_{i,12}^{(13-1)}| = 13$$
$$a_{13,13} = \max_i |a_{i,13}^{(14-1)}| = 14$$
$$a_{14,14} = \max_i |a_{i,14}^{(15-1)}| = 15$$
$$a_{15,15} = \max_i |a_{i,15}^{(16-1)}| = 16$$
$$a_{16,16} = \max_i |a_{i,16}^{(17-1)}| = 17$$
$$a_{17,17} = \max_i |a_{i,17}^{(18-1)}| = 18$$
$$a_{18,18} = \max_i |a_{i,18}^{(19-1)}| = 19$$
$$a_{19,19} = \max_i |a_{i,19}^{(20-1)}| = 20$$
$$a_{20,20} = \max_i |a_{i,20}^{(21-1)}| = 21$$
$$a_{21,21} = \max_i |a_{i,21}^{(22-1)}| = 22$$
$$a_{22,22} = \max_i |a_{i,22}^{(23-1)}| = 23$$
$$a_{23,23} = \max_i |a_{i,23}^{(24-1)}| = 24$$
$$a_{24,24} = \max_i |a_{i,24}^{(25-1)}| = 25$$
$$a_{25,25} = \max_i |a_{i,25}^{(26-1)}| = 26$$
$$a_{26,26} = \max_i |a_{i,26}^{(27-1)}| = 27$$
$$a_{27,27} = \max_i |a_{i,27}^{(28-1)}| = 28$$
$$a_{28,28} = \max_i |a_{i,28}^{(29-1)}| = 29$$
$$a_{29,29} = \max_i |a_{i,29}^{(30-1)}| = 30$$
$$a_{30,30} = \max_i |a_{i,30}^{(31-1)}| = 31$$
$$a_{31,31} = \max_i |a_{i,31}^{(32-1)}| = 32$$
$$a_{32,32} = \max_i |a_{i,32}^{(33-1)}| = 33$$

$$\bar{x} = \begin{pmatrix} -559.00 \\ -556.50 \\ -368.67 \\ -274.25 \\ -217.20 \\ -178.83 \\ -151.14 \\ -130.12 \\ -113.56 \\ -100.10 \\ -88.91 \\ -79.42 \\ -71.23 \\ -64.07 \\ -57.73 \\ -52.06 \\ -46.94 \\ -42.28 \\ -38.00 \\ -34.05 \\ -30.38 \\ -26.95 \\ -23.74 \\ -20.71 \\ -17.84 \\ -15.12 \\ -12.52 \\ -10.04 \\ -7.66 \\ -5.37 \\ -3.16 \\ -1.03 \\ 1.03 \end{pmatrix}$$

$\Delta A = 8.683317618811886e36$

25 $\quad N = 34$

$A = \{a_{i,j} | i = 0..\bar{3}4, j = 0..\bar{3}5\}$

$a_{0,0} = \max_i |a_{i,0}^{(1-1)}| = 1$

$a_{1,1} = \max_i |a_{i,1}^{(2-1)}| = 2$

$$a_{2,2} = \max_i |a_{i,2}^{(3-1)}| = 3$$
$$a_{3,3} = \max_i |a_{i,3}^{(4-1)}| = 4$$
$$a_{4,4} = \max_i |a_{i,4}^{(5-1)}| = 5$$
$$a_{5,5} = \max_i |a_{i,5}^{(6-1)}| = 6$$
$$a_{6,6} = \max_i |a_{i,6}^{(7-1)}| = 7$$
$$a_{7,7} = \max_i |a_{i,7}^{(8-1)}| = 8$$
$$a_{8,8} = \max_i |a_{i,8}^{(9-1)}| = 9$$
$$a_{9,9} = \max_i |a_{i,9}^{(10-1)}| = 10$$
$$a_{10,10} = \max_i |a_{i,10}^{(11-1)}| = 11$$
$$a_{11,11} = \max_i |a_{i,11}^{(12-1)}| = 12$$
$$a_{12,12} = \max_i |a_{i,12}^{(13-1)}| = 13$$
$$a_{13,13} = \max_i |a_{i,13}^{(14-1)}| = 14$$
$$a_{14,14} = \max_i |a_{i,14}^{(15-1)}| = 15$$
$$a_{15,15} = \max_i |a_{i,15}^{(16-1)}| = 16$$
$$a_{16,16} = \max_i |a_{i,16}^{(17-1)}| = 17$$
$$a_{17,17} = \max_i |a_{i,17}^{(18-1)}| = 18$$
$$a_{18,18} = \max_i |a_{i,18}^{(19-1)}| = 19$$
$$a_{19,19} = \max_i |a_{i,19}^{(20-1)}| = 20$$
$$a_{20,20} = \max_i |a_{i,20}^{(21-1)}| = 21$$
$$a_{21,21} = \max_i |a_{i,21}^{(22-1)}| = 22$$
$$a_{22,22} = \max_i |a_{i,22}^{(23-1)}| = 23$$
$$a_{23,23} = \max_i |a_{i,23}^{(24-1)}| = 24$$
$$a_{24,24} = \max_i |a_{i,24}^{(25-1)}| = 25$$
$$a_{25,25} = \max_i |a_{i,25}^{(26-1)}| = 26$$
$$a_{26,26} = \max_i |a_{i,26}^{(27-1)}| = 27$$
$$a_{27,27} = \max_i |a_{i,27}^{(28-1)}| = 28$$
$$a_{28,28} = \max_i |a_{i,28}^{(29-1)}| = 29$$
$$a_{29,29} = \max_i |a_{i,29}^{(30-1)}| = 30$$
$$a_{30,30} = \max_i |a_{i,30}^{(31-1)}| = 31$$
$$a_{31,31} = \max_i |a_{i,31}^{(32-1)}| = 32$$
$$a_{32,32} = \max_i |a_{i,32}^{(33-1)}| = 33$$
$$a_{33,33} = \max_i |a_{i,33}^{(34-1)}| = 34$$

$$\bar{x} = \begin{pmatrix} -593.00 \\ -590.50 \\ -391.33 \\ -291.25 \\ -230.80 \\ -190.17 \\ -160.86 \\ -138.62 \\ -121.11 \\ -106.90 \\ -95.09 \\ -85.08 \\ -76.46 \\ -68.93 \\ -62.27 \\ -56.31 \\ -50.94 \\ -46.06 \\ -41.58 \\ -37.45 \\ -33.62 \\ -30.05 \\ -26.70 \\ -23.54 \\ -20.56 \\ -17.73 \\ -15.04 \\ -12.46 \\ -10.00 \\ -7.63 \\ -5.35 \\ -3.16 \\ -1.03 \\ 1.03 \end{pmatrix}$$

$$\Delta A = 2.9523279903960412e38$$

26 $\quad N = 35$

$A = \{a_{i,j} | i = 0..\bar{3}5, j = 0..\bar{3}6\}$

$a_{0,0} = \max_i |a_{i,0}^{(1-1)}| = 1$

$$a_{1,1} = \max_i |a_{i,1}^{(2-1)}| = 2$$
$$a_{2,2} = \max_i |a_{i,2}^{(3-1)}| = 3$$
$$a_{3,3} = \max_i |a_{i,3}^{(4-1)}| = 4$$
$$a_{4,4} = \max_i |a_{i,4}^{(5-1)}| = 5$$
$$a_{5,5} = \max_i |a_{i,5}^{(6-1)}| = 6$$
$$a_{6,6} = \max_i |a_{i,6}^{(7-1)}| = 7$$
$$a_{7,7} = \max_i |a_{i,7}^{(8-1)}| = 8$$
$$a_{8,8} = \max_i |a_{i,8}^{(9-1)}| = 9$$
$$a_{9,9} = \max_i |a_{i,9}^{(10-1)}| = 10$$
$$a_{10,10} = \max_i |a_{i,10}^{(11-1)}| = 11$$
$$a_{11,11} = \max_i |a_{i,11}^{(12-1)}| = 12$$
$$a_{12,12} = \max_i |a_{i,12}^{(13-1)}| = 13$$
$$a_{13,13} = \max_i |a_{i,13}^{(14-1)}| = 14$$
$$a_{14,14} = \max_i |a_{i,14}^{(15-1)}| = 15$$
$$a_{15,15} = \max_i |a_{i,15}^{(16-1)}| = 16$$
$$a_{16,16} = \max_i |a_{i,16}^{(17-1)}| = 17$$
$$a_{17,17} = \max_i |a_{i,17}^{(18-1)}| = 18$$
$$a_{18,18} = \max_i |a_{i,18}^{(19-1)}| = 19$$
$$a_{19,19} = \max_i |a_{i,19}^{(20-1)}| = 20$$
$$a_{20,20} = \max_i |a_{i,20}^{(21-1)}| = 21$$
$$a_{21,21} = \max_i |a_{i,21}^{(22-1)}| = 22$$
$$a_{22,22} = \max_i |a_{i,22}^{(23-1)}| = 23$$
$$a_{23,23} = \max_i |a_{i,23}^{(24-1)}| = 24$$
$$a_{24,24} = \max_i |a_{i,24}^{(25-1)}| = 25$$
$$a_{25,25} = \max_i |a_{i,25}^{(26-1)}| = 26$$
$$a_{26,26} = \max_i |a_{i,26}^{(27-1)}| = 27$$
$$a_{27,27} = \max_i |a_{i,27}^{(28-1)}| = 28$$
$$a_{28,28} = \max_i |a_{i,28}^{(29-1)}| = 29$$
$$a_{29,29} = \max_i |a_{i,29}^{(30-1)}| = 30$$
$$a_{30,30} = \max_i |a_{i,30}^{(31-1)}| = 31$$
$$a_{31,31} = \max_i |a_{i,31}^{(32-1)}| = 32$$
$$a_{32,32} = \max_i |a_{i,32}^{(33-1)}| = 33$$
$$a_{33,33} = \max_i |a_{i,33}^{(34-1)}| = 34$$

$$a_{34,34} = \max_i |a_{i,34}^{(35-1)}| = 35$$

$$\bar{x} = \begin{pmatrix} -628.00 \\ -625.50 \\ -414.67 \\ -308.75 \\ -244.80 \\ -201.83 \\ -170.86 \\ -147.38 \\ -128.89 \\ -113.90 \\ -101.45 \\ -90.92 \\ -81.85 \\ -73.93 \\ -66.93 \\ -60.69 \\ -55.06 \\ -49.94 \\ -45.26 \\ -40.95 \\ -36.95 \\ -33.23 \\ -29.74 \\ -26.46 \\ -23.36 \\ -20.42 \\ -17.63 \\ -14.96 \\ -12.41 \\ -9.97 \\ -7.61 \\ -5.34 \\ -3.15 \\ -1.03 \\ 1.03 \end{pmatrix}$$

$$\Delta A = 1.0333147966386144e40$$

27 $N = 36$

$A = \{a_{i,j} | i = 0..\bar{3}6, j = 0..\bar{3}7\}$

$a_{0,0} = \max_i |a_{i,0}^{(1-1)}| = 1$

$a_{1,1} = \max_i |a_{i,1}^{(2-1)}| = 2$

$a_{2,2} = \max_i |a_{i,2}^{(3-1)}| = 3$

$a_{3,3} = \max_i |a_{i,3}^{(4-1)}| = 4$

$a_{4,4} = \max_i |a_{i,4}^{(5-1)}| = 5$

$a_{5,5} = \max_i |a_{i,5}^{(6-1)}| = 6$

$a_{6,6} = \max_i |a_{i,6}^{(7-1)}| = 7$

$a_{7,7} = \max_i |a_{i,7}^{(8-1)}| = 8$

$a_{8,8} = \max_i |a_{i,8}^{(9-1)}| = 9$

$a_{9,9} = \max_i |a_{i,9}^{(10-1)}| = 10$

$a_{10,10} = \max_i |a_{i,10}^{(11-1)}| = 11$

$a_{11,11} = \max_i |a_{i,11}^{(12-1)}| = 12$

$a_{12,12} = \max_i |a_{i,12}^{(13-1)}| = 13$

$a_{13,13} = \max_i |a_{i,13}^{(14-1)}| = 14$

$a_{14,14} = \max_i |a_{i,14}^{(15-1)}| = 15$

$a_{15,15} = \max_i |a_{i,15}^{(16-1)}| = 16$

$a_{16,16} = \max_i |a_{i,16}^{(17-1)}| = 17$

$a_{17,17} = \max_i |a_{i,17}^{(18-1)}| = 18$

$a_{18,18} = \max_i |a_{i,18}^{(19-1)}| = 19$

$a_{19,19} = \max_i |a_{i,19}^{(20-1)}| = 20$

$a_{20,20} = \max_i |a_{i,20}^{(21-1)}| = 21$

$a_{21,21} = \max_i |a_{i,21}^{(22-1)}| = 22$

$a_{22,22} = \max_i |a_{i,22}^{(23-1)}| = 23$

$a_{23,23} = \max_i |a_{i,23}^{(24-1)}| = 24$

$a_{24,24} = \max_i |a_{i,24}^{(25-1)}| = 25$

$a_{25,25} = \max_i |a_{i,25}^{(26-1)}| = 26$

$a_{26,26} = \max_i |a_{i,26}^{(27-1)}| = 27$

$a_{27,27} = \max_i |a_{i,27}^{(28-1)}| = 28$

$a_{28,28} = \max_i |a_{i,28}^{(29-1)}| = 29$

$a_{29,29} = \max_i |a_{i,29}^{(30-1)}| = 30$

$a_{30,30} = \max_i |a_{i,30}^{(31-1)}| = 31$

$$a_{31,31} = \max_i |a_{i,31}^{(32-1)}| = 32$$
$$a_{32,32} = \max_i |a_{i,32}^{(33-1)}| = 33$$
$$a_{33,33} = \max_i |a_{i,33}^{(34-1)}| = 34$$
$$a_{34,34} = \max_i |a_{i,34}^{(35-1)}| = 35$$
$$a_{35,35} = \max_i |a_{i,35}^{(36-1)}| = 36$$

$$\bar{x} = \begin{pmatrix} -664.00 \\ -661.50 \\ -438.67 \\ -326.75 \\ -259.20 \\ -213.83 \\ -181.14 \\ -156.38 \\ -136.89 \\ -121.10 \\ -108.00 \\ -96.92 \\ -87.38 \\ -79.07 \\ -71.73 \\ -65.19 \\ -59.29 \\ -53.94 \\ -49.05 \\ -44.55 \\ -40.38 \\ -36.50 \\ -32.87 \\ -29.46 \\ -26.24 \\ -23.19 \\ -20.30 \\ -17.54 \\ -14.90 \\ -12.37 \\ -9.94 \\ -7.59 \\ -5.33 \\ -3.15 \\ -1.03 \\ 1.03 \end{pmatrix}$$

$$\Delta A = 3.719933267899012e41$$

28 $N = 37$

$A = \{a_{i,j} | i = 0..\overline{37}, j = 0..\overline{38}\}$

$a_{0,0} = \max_i |a_{i,0}^{(1-1)}| = 1$

$a_{1,1} = \max_i |a_{i,1}^{(2-1)}| = 2$

$a_{2,2} = \max_i |a_{i,2}^{(3-1)}| = 3$

$a_{3,3} = \max_i |a_{i,3}^{(4-1)}| = 4$

$a_{4,4} = \max_i |a_{i,4}^{(5-1)}| = 5$

$a_{5,5} = \max_i |a_{i,5}^{(6-1)}| = 6$

$a_{6,6} = \max_i |a_{i,6}^{(7-1)}| = 7$

$a_{7,7} = \max_i |a_{i,7}^{(8-1)}| = 8$

$a_{8,8} = \max_i |a_{i,8}^{(9-1)}| = 9$

$a_{9,9} = \max_i |a_{i,9}^{(10-1)}| = 10$

$a_{10,10} = \max_i |a_{i,10}^{(11-1)}| = 11$

$a_{11,11} = \max_i |a_{i,11}^{(12-1)}| = 12$

$a_{12,12} = \max_i |a_{i,12}^{(13-1)}| = 13$

$a_{13,13} = \max_i |a_{i,13}^{(14-1)}| = 14$

$a_{14,14} = \max_i |a_{i,14}^{(15-1)}| = 15$

$a_{15,15} = \max_i |a_{i,15}^{(16-1)}| = 16$

$a_{16,16} = \max_i |a_{i,16}^{(17-1)}| = 17$

$a_{17,17} = \max_i |a_{i,17}^{(18-1)}| = 18$

$a_{18,18} = \max_i |a_{i,18}^{(19-1)}| = 19$

$a_{19,19} = \max_i |a_{i,19}^{(20-1)}| = 20$

$a_{20,20} = \max_i |a_{i,20}^{(21-1)}| = 21$

$a_{21,21} = \max_i |a_{i,21}^{(22-1)}| = 22$

$a_{22,22} = \max_i |a_{i,22}^{(23-1)}| = 23$

$a_{23,23} = \max_i |a_{i,23}^{(24-1)}| = 24$

$a_{24,24} = \max_i |a_{i,24}^{(25-1)}| = 25$

$a_{25,25} = \max_i |a_{i,25}^{(26-1)}| = 26$

$a_{26,26} = \max_i |a_{i,26}^{(27-1)}| = 27$

$a_{27,27} = \max_i |a_{i,27}^{(28-1)}| = 28$

$a_{28,28} = \max_i |a_{i,28}^{(29-1)}| = 29$

$a_{29,29} = \max_i |a_{i,29}^{(30-1)}| = 30$

$a_{30,30} = \max_i |a_{i,30}^{(31-1)}| = 31$

$$a_{31,31} = \max_i |a_{i,31}^{(32-1)}| = 32$$
$$a_{32,32} = \max_i |a_{i,32}^{(33-1)}| = 33$$
$$a_{33,33} = \max_i |a_{i,33}^{(34-1)}| = 34$$
$$a_{34,34} = \max_i |a_{i,34}^{(35-1)}| = 35$$
$$a_{35,35} = \max_i |a_{i,35}^{(36-1)}| = 36$$
$$a_{36,36} = \max_i |a_{i,36}^{(37-1)}| = 37$$

$$\bar{x} = \begin{pmatrix} -701.00 \\ -698.50 \\ -463.33 \\ -345.25 \\ -274.00 \\ -226.17 \\ -191.71 \\ -165.62 \\ -145.11 \\ -128.50 \\ -114.73 \\ -103.08 \\ -93.08 \\ -84.36 \\ -76.67 \\ -69.81 \\ -63.65 \\ -58.06 \\ -52.95 \\ -48.25 \\ -43.90 \\ -39.86 \\ -36.09 \\ -32.54 \\ -29.20 \\ -26.04 \\ -23.04 \\ -20.18 \\ -17.45 \\ -14.83 \\ -12.32 \\ -9.91 \\ -7.58 \\ -5.32 \\ -3.14 \\ -1.03 \\ 1.03 \end{pmatrix}$$

$\Delta A = 1.3763753091226343e43$

29 $N = 38$

$A = \{a_{i,j} | i = 0..\overline{38}, j = 0..\overline{39}\}$

$a_{0,0} = \max_i |a_{i,0}^{(1-1)}| = 1$

$a_{1,1} = \max_i |a_{i,1}^{(2-1)}| = 2$

$a_{2,2} = \max_i |a_{i,2}^{(3-1)}| = 3$

$a_{3,3} = \max_i |a_{i,3}^{(4-1)}| = 4$

$a_{4,4} = \max_i |a_{i,4}^{(5-1)}| = 5$

$a_{5,5} = \max_i |a_{i,5}^{(6-1)}| = 6$

$a_{6,6} = \max_i |a_{i,6}^{(7-1)}| = 7$

$a_{7,7} = \max_i |a_{i,7}^{(8-1)}| = 8$

$a_{8,8} = \max_i |a_{i,8}^{(9-1)}| = 9$

$a_{9,9} = \max_i |a_{i,9}^{(10-1)}| = 10$

$a_{10,10} = \max_i |a_{i,10}^{(11-1)}| = 11$

$a_{11,11} = \max_i |a_{i,11}^{(12-1)}| = 12$

$a_{12,12} = \max_i |a_{i,12}^{(13-1)}| = 13$

$a_{13,13} = \max_i |a_{i,13}^{(14-1)}| = 14$

$a_{14,14} = \max_i |a_{i,14}^{(15-1)}| = 15$

$a_{15,15} = \max_i |a_{i,15}^{(16-1)}| = 16$

$a_{16,16} = \max_i |a_{i,16}^{(17-1)}| = 17$

$a_{17,17} = \max_i |a_{i,17}^{(18-1)}| = 18$

$a_{18,18} = \max_i |a_{i,18}^{(19-1)}| = 19$

$a_{19,19} = \max_i |a_{i,19}^{(20-1)}| = 20$

$a_{20,20} = \max_i |a_{i,20}^{(21-1)}| = 21$

$a_{21,21} = \max_i |a_{i,21}^{(22-1)}| = 22$

$a_{22,22} = \max_i |a_{i,22}^{(23-1)}| = 23$

$a_{23,23} = \max_i |a_{i,23}^{(24-1)}| = 24$

$a_{24,24} = \max_i |a_{i,24}^{(25-1)}| = 25$

$a_{25,25} = \max_i |a_{i,25}^{(26-1)}| = 26$

$a_{26,26} = \max_i |a_{i,26}^{(27-1)}| = 27$

$a_{27,27} = \max_i |a_{i,27}^{(28-1)}| = 28$

$a_{28,28} = \max_i |a_{i,28}^{(29-1)}| = 29$

$a_{29,29} = \max_i |a_{i,29}^{(30-1)}| = 30$

$a_{30,30} = \max_i |a_{i,30}^{(31-1)}| = 31$

$$a_{31,31} = \max_i |a_{i,31}^{(32-1)}| = 32$$
$$a_{32,32} = \max_i |a_{i,32}^{(33-1)}| = 33$$
$$a_{33,33} = \max_i |a_{i,33}^{(34-1)}| = 34$$
$$a_{34,34} = \max_i |a_{i,34}^{(35-1)}| = 35$$
$$a_{35,35} = \max_i |a_{i,35}^{(36-1)}| = 36$$
$$a_{36,36} = \max_i |a_{i,36}^{(37-1)}| = 37$$
$$a_{37,37} = \max_i |a_{i,37}^{(38-1)}| = 38$$

$$\bar{x} = \begin{pmatrix} -739.00 \\ -736.50 \\ -488.67 \\ -364.25 \\ -289.20 \\ -238.83 \\ -202.57 \\ -175.12 \\ -153.56 \\ -136.10 \\ -121.64 \\ -109.42 \\ -98.92 \\ -89.79 \\ -81.73 \\ -74.56 \\ -68.12 \\ -62.28 \\ -56.95 \\ -52.05 \\ -47.52 \\ -43.32 \\ -39.39 \\ -35.71 \\ -32.24 \\ -28.96 \\ -25.85 \\ -22.89 \\ -20.07 \\ -17.37 \\ -14.77 \\ -12.28 \\ -9.88 \\ -7.56 \\ -5.31 \\ -3.14 \\ -1.03 \\ 1.03 \end{pmatrix}$$

$\Delta A = 5.23022617466601e44$

30 $N = 39$

$A = \{a_{i,j} | i = 0..\overline{39}, j = 0..\overline{40}\}$

$a_{0,0} = \max_i |a_{i,0}^{(1-1)}| = 1$

$a_{1,1} = \max_i |a_{i,1}^{(2-1)}| = 2$

$a_{2,2} = \max_i |a_{i,2}^{(3-1)}| = 3$

$a_{3,3} = \max_i |a_{i,3}^{(4-1)}| = 4$

$a_{4,4} = \max_i |a_{i,4}^{(5-1)}| = 5$

$a_{5,5} = \max_i |a_{i,5}^{(6-1)}| = 6$

$a_{6,6} = \max_i |a_{i,6}^{(7-1)}| = 7$

$a_{7,7} = \max_i |a_{i,7}^{(8-1)}| = 8$

$a_{8,8} = \max_i |a_{i,8}^{(9-1)}| = 9$

$a_{9,9} = \max_i |a_{i,9}^{(10-1)}| = 10$

$a_{10,10} = \max_i |a_{i,10}^{(11-1)}| = 11$

$a_{11,11} = \max_i |a_{i,11}^{(12-1)}| = 12$

$a_{12,12} = \max_i |a_{i,12}^{(13-1)}| = 13$

$a_{13,13} = \max_i |a_{i,13}^{(14-1)}| = 14$

$a_{14,14} = \max_i |a_{i,14}^{(15-1)}| = 15$

$a_{15,15} = \max_i |a_{i,15}^{(16-1)}| = 16$

$a_{16,16} = \max_i |a_{i,16}^{(17-1)}| = 17$

$a_{17,17} = \max_i |a_{i,17}^{(18-1)}| = 18$

$a_{18,18} = \max_i |a_{i,18}^{(19-1)}| = 19$

$a_{19,19} = \max_i |a_{i,19}^{(20-1)}| = 20$

$a_{20,20} = \max_i |a_{i,20}^{(21-1)}| = 21$

$a_{21,21} = \max_i |a_{i,21}^{(22-1)}| = 22$

$a_{22,22} = \max_i |a_{i,22}^{(23-1)}| = 23$

$a_{23,23} = \max_i |a_{i,23}^{(24-1)}| = 24$

$a_{24,24} = \max_i |a_{i,24}^{(25-1)}| = 25$

$a_{25,25} = \max_i |a_{i,25}^{(26-1)}| = 26$

$a_{26,26} = \max_i |a_{i,26}^{(27-1)}| = 27$

$a_{27,27} = \max_i |a_{i,27}^{(28-1)}| = 28$

$a_{28,28} = \max_i |a_{i,28}^{(29-1)}| = 29$

$a_{29,29} = \max_i |a_{i,29}^{(30-1)}| = 30$

$a_{30,30} = \max_i |a_{i,30}^{(31-1)}| = 31$

$$a_{31,31} = \max_i |a_{i,31}^{(32-1)}| = 32$$
$$a_{32,32} = \max_i |a_{i,32}^{(33-1)}| = 33$$
$$a_{33,33} = \max_i |a_{i,33}^{(34-1)}| = 34$$
$$a_{34,34} = \max_i |a_{i,34}^{(35-1)}| = 35$$
$$a_{35,35} = \max_i |a_{i,35}^{(36-1)}| = 36$$
$$a_{36,36} = \max_i |a_{i,36}^{(37-1)}| = 37$$
$$a_{37,37} = \max_i |a_{i,37}^{(38-1)}| = 38$$
$$a_{38,38} = \max_i |a_{i,38}^{(39-1)}| = 39$$

$$\bar{x} = \begin{pmatrix} -778.00 \\ -775.50 \\ -514.67 \\ -383.75 \\ -304.80 \\ -251.83 \\ -213.71 \\ -184.88 \\ -162.22 \\ -143.90 \\ -128.73 \\ -115.92 \\ -104.92 \\ -95.36 \\ -86.93 \\ -79.44 \\ -72.71 \\ -66.61 \\ -61.05 \\ -55.95 \\ -51.24 \\ -46.86 \\ -42.78 \\ -38.96 \\ -35.36 \\ -31.96 \\ -28.74 \\ -25.68 \\ -22.76 \\ -19.97 \\ -17.29 \\ -14.72 \\ -12.24 \\ -9.85 \\ -7.54 \\ -5.31 \\ -3.14 \\ -1.03 \\ 1.03 \end{pmatrix}$$

$\Delta A = 2.0397882081197442e46$

31 $N = 40$

$A = \{a_{i,j} | i = 0..\overline{40}, j = 0..\overline{41}\}$

$a_{0,0} = \max_i |a_{i,0}^{(1-1)}| = 1$

$a_{1,1} = \max_i |a_{i,1}^{(2-1)}| = 2$

$a_{2,2} = \max_i |a_{i,2}^{(3-1)}| = 3$

$a_{3,3} = \max_i |a_{i,3}^{(4-1)}| = 4$

$a_{4,4} = \max_i |a_{i,4}^{(5-1)}| = 5$

$a_{5,5} = \max_i |a_{i,5}^{(6-1)}| = 6$

$a_{6,6} = \max_i |a_{i,6}^{(7-1)}| = 7$

$a_{7,7} = \max_i |a_{i,7}^{(8-1)}| = 8$

$a_{8,8} = \max_i |a_{i,8}^{(9-1)}| = 9$

$a_{9,9} = \max_i |a_{i,9}^{(10-1)}| = 10$

$a_{10,10} = \max_i |a_{i,10}^{(11-1)}| = 11$

$a_{11,11} = \max_i |a_{i,11}^{(12-1)}| = 12$

$a_{12,12} = \max_i |a_{i,12}^{(13-1)}| = 13$

$a_{13,13} = \max_i |a_{i,13}^{(14-1)}| = 14$

$a_{14,14} = \max_i |a_{i,14}^{(15-1)}| = 15$

$a_{15,15} = \max_i |a_{i,15}^{(16-1)}| = 16$

$a_{16,16} = \max_i |a_{i,16}^{(17-1)}| = 17$

$a_{17,17} = \max_i |a_{i,17}^{(18-1)}| = 18$

$a_{18,18} = \max_i |a_{i,18}^{(19-1)}| = 19$

$a_{19,19} = \max_i |a_{i,19}^{(20-1)}| = 20$

$a_{20,20} = \max_i |a_{i,20}^{(21-1)}| = 21$

$a_{21,21} = \max_i |a_{i,21}^{(22-1)}| = 22$

$a_{22,22} = \max_i |a_{i,22}^{(23-1)}| = 23$

$a_{23,23} = \max_i |a_{i,23}^{(24-1)}| = 24$

$a_{24,24} = \max_i |a_{i,24}^{(25-1)}| = 25$

$a_{25,25} = \max_i |a_{i,25}^{(26-1)}| = 26$

$a_{26,26} = \max_i |a_{i,26}^{(27-1)}| = 27$

$a_{27,27} = \max_i |a_{i,27}^{(28-1)}| = 28$

$a_{28,28} = \max_i |a_{i,28}^{(29-1)}| = 29$

$a_{29,29} = \max_i |a_{i,29}^{(30-1)}| = 30$

$a_{30,30} = \max_i |a_{i,30}^{(31-1)}| = 31$

$$a_{31,31} = \max_i |a_{i,31}^{(32-1)}| = 32$$
$$a_{32,32} = \max_i |a_{i,32}^{(33-1)}| = 33$$
$$a_{33,33} = \max_i |a_{i,33}^{(34-1)}| = 34$$
$$a_{34,34} = \max_i |a_{i,34}^{(35-1)}| = 35$$
$$a_{35,35} = \max_i |a_{i,35}^{(36-1)}| = 36$$
$$a_{36,36} = \max_i |a_{i,36}^{(37-1)}| = 37$$
$$a_{37,37} = \max_i |a_{i,37}^{(38-1)}| = 38$$
$$a_{38,38} = \max_i |a_{i,38}^{(39-1)}| = 39$$
$$a_{39,39} = \max_i |a_{i,39}^{(40-1)}| = 40$$

$$\bar{x} = \begin{pmatrix} -818.00 \\ -815.50 \\ -541.33 \\ -403.75 \\ -320.80 \\ -265.17 \\ -225.14 \\ -194.88 \\ -171.11 \\ -151.90 \\ -136.00 \\ -122.58 \\ -111.08 \\ -101.07 \\ -92.27 \\ -84.44 \\ -77.41 \\ -71.06 \\ -65.26 \\ -59.95 \\ -55.05 \\ -50.50 \\ -46.26 \\ -42.29 \\ -38.56 \\ -35.04 \\ -31.70 \\ -28.54 \\ -25.52 \\ -22.63 \\ -19.87 \\ -17.22 \\ -14.67 \\ -12.21 \\ -9.83 \\ -7.53 \\ -5.30 \\ -3.13 \\ -1.03 \\ 1.03 \end{pmatrix}$$

$$\Delta A = 8.159152832478977e47$$

32 $N = 41$

$A = \{a_{i,j} | i = 0..\overline{41}, j = 0..\overline{42}\}$

$a_{0,0} = \max_i |a_{i,0}^{(1-1)}| = 1$

$a_{1,1} = \max_i |a_{i,1}^{(2-1)}| = 2$

$a_{2,2} = \max_i |a_{i,2}^{(3-1)}| = 3$

$a_{3,3} = \max_i |a_{i,3}^{(4-1)}| = 4$

$a_{4,4} = \max_i |a_{i,4}^{(5-1)}| = 5$

$a_{5,5} = \max_i |a_{i,5}^{(6-1)}| = 6$

$a_{6,6} = \max_i |a_{i,6}^{(7-1)}| = 7$

$a_{7,7} = \max_i |a_{i,7}^{(8-1)}| = 8$

$a_{8,8} = \max_i |a_{i,8}^{(9-1)}| = 9$

$a_{9,9} = \max_i |a_{i,9}^{(10-1)}| = 10$

$a_{10,10} = \max_i |a_{i,10}^{(11-1)}| = 11$

$a_{11,11} = \max_i |a_{i,11}^{(12-1)}| = 12$

$a_{12,12} = \max_i |a_{i,12}^{(13-1)}| = 13$

$a_{13,13} = \max_i |a_{i,13}^{(14-1)}| = 14$

$a_{14,14} = \max_i |a_{i,14}^{(15-1)}| = 15$

$a_{15,15} = \max_i |a_{i,15}^{(16-1)}| = 16$

$a_{16,16} = \max_i |a_{i,16}^{(17-1)}| = 17$

$a_{17,17} = \max_i |a_{i,17}^{(18-1)}| = 18$

$a_{18,18} = \max_i |a_{i,18}^{(19-1)}| = 19$

$a_{19,19} = \max_i |a_{i,19}^{(20-1)}| = 20$

$a_{20,20} = \max_i |a_{i,20}^{(21-1)}| = 21$

$a_{21,21} = \max_i |a_{i,21}^{(22-1)}| = 22$

$a_{22,22} = \max_i |a_{i,22}^{(23-1)}| = 23$

$a_{23,23} = \max_i |a_{i,23}^{(24-1)}| = 24$

$a_{24,24} = \max_i |a_{i,24}^{(25-1)}| = 25$

$a_{25,25} = \max_i |a_{i,25}^{(26-1)}| = 26$

$a_{26,26} = \max_i |a_{i,26}^{(27-1)}| = 27$

$a_{27,27} = \max_i |a_{i,27}^{(28-1)}| = 28$

$a_{28,28} = \max_i |a_{i,28}^{(29-1)}| = 29$

$a_{29,29} = \max_i |a_{i,29}^{(30-1)}| = 30$

$a_{30,30} = \max_i |a_{i,30}^{(31-1)}| = 31$

$$a_{31,31} = \max_i |a_{i,31}^{(32-1)}| = 32$$
$$a_{32,32} = \max_i |a_{i,32}^{(33-1)}| = 33$$
$$a_{33,33} = \max_i |a_{i,33}^{(34-1)}| = 34$$
$$a_{34,34} = \max_i |a_{i,34}^{(35-1)}| = 35$$
$$a_{35,35} = \max_i |a_{i,35}^{(36-1)}| = 36$$
$$a_{36,36} = \max_i |a_{i,36}^{(37-1)}| = 37$$
$$a_{37,37} = \max_i |a_{i,37}^{(38-1)}| = 38$$
$$a_{38,38} = \max_i |a_{i,38}^{(39-1)}| = 39$$
$$a_{39,39} = \max_i |a_{i,39}^{(40-1)}| = 40$$
$$a_{40,40} = \max_i |a_{i,40}^{(41-1)}| = 41$$

$$\bar{x} = \begin{pmatrix} -859.00 \\ -856.50 \\ -568.67 \\ -424.25 \\ -337.20 \\ -278.83 \\ -236.86 \\ -205.12 \\ -180.22 \\ -160.10 \\ -143.45 \\ -129.42 \\ -117.38 \\ -106.93 \\ -97.73 \\ -89.56 \\ -82.24 \\ -75.61 \\ -69.58 \\ -64.05 \\ -58.95 \\ -54.23 \\ -49.83 \\ -45.71 \\ -41.84 \\ -38.19 \\ -34.74 \\ -31.46 \\ -28.34 \\ -25.37 \\ -22.52 \\ -19.78 \\ -17.15 \\ -14.62 \\ -12.17 \\ -9.81 \\ -7.51 \\ -5.29 \\ -3.13 \\ -1.03 \\ 1.02 \end{pmatrix}$$

$$\Delta A = 3.3452526613163803e49$$

33 $N = 42$

$A = \{a_{i,j} | i = 0..\overline{42}, j = 0..\overline{43}\}$

$\quad a_{0,0} = \max_i |a_{i,0}^{(1-1)}| = 1$

$\quad a_{1,1} = \max_i |a_{i,1}^{(2-1)}| = 2$

$\quad a_{2,2} = \max_i |a_{i,2}^{(3-1)}| = 3$

$\quad a_{3,3} = \max_i |a_{i,3}^{(4-1)}| = 4$

$\quad a_{4,4} = \max_i |a_{i,4}^{(5-1)}| = 5$

$\quad a_{5,5} = \max_i |a_{i,5}^{(6-1)}| = 6$

$\quad a_{6,6} = \max_i |a_{i,6}^{(7-1)}| = 7$

$\quad a_{7,7} = \max_i |a_{i,7}^{(8-1)}| = 8$

$\quad a_{8,8} = \max_i |a_{i,8}^{(9-1)}| = 9$

$\quad a_{9,9} = \max_i |a_{i,9}^{(10-1)}| = 10$

$\quad a_{10,10} = \max_i |a_{i,10}^{(11-1)}| = 11$

$\quad a_{11,11} = \max_i |a_{i,11}^{(12-1)}| = 12$

$\quad a_{12,12} = \max_i |a_{i,12}^{(13-1)}| = 13$

$\quad a_{13,13} = \max_i |a_{i,13}^{(14-1)}| = 14$

$\quad a_{14,14} = \max_i |a_{i,14}^{(15-1)}| = 15$

$\quad a_{15,15} = \max_i |a_{i,15}^{(16-1)}| = 16$

$\quad a_{16,16} = \max_i |a_{i,16}^{(17-1)}| = 17$

$\quad a_{17,17} = \max_i |a_{i,17}^{(18-1)}| = 18$

$\quad a_{18,18} = \max_i |a_{i,18}^{(19-1)}| = 19$

$\quad a_{19,19} = \max_i |a_{i,19}^{(20-1)}| = 20$

$\quad a_{20,20} = \max_i |a_{i,20}^{(21-1)}| = 21$

$\quad a_{21,21} = \max_i |a_{i,21}^{(22-1)}| = 22$

$\quad a_{22,22} = \max_i |a_{i,22}^{(23-1)}| = 23$

$\quad a_{23,23} = \max_i |a_{i,23}^{(24-1)}| = 24$

$\quad a_{24,24} = \max_i |a_{i,24}^{(25-1)}| = 25$

$\quad a_{25,25} = \max_i |a_{i,25}^{(26-1)}| = 26$

$\quad a_{26,26} = \max_i |a_{i,26}^{(27-1)}| = 27$

$\quad a_{27,27} = \max_i |a_{i,27}^{(28-1)}| = 28$

$\quad a_{28,28} = \max_i |a_{i,28}^{(29-1)}| = 29$

$$a_{29,29} = \max_i |a_{i,29}^{(30-1)}| = 30$$
$$a_{30,30} = \max_i |a_{i,30}^{(31-1)}| = 31$$
$$a_{31,31} = \max_i |a_{i,31}^{(32-1)}| = 32$$
$$a_{32,32} = \max_i |a_{i,32}^{(33-1)}| = 33$$
$$a_{33,33} = \max_i |a_{i,33}^{(34-1)}| = 34$$
$$a_{34,34} = \max_i |a_{i,34}^{(35-1)}| = 35$$
$$a_{35,35} = \max_i |a_{i,35}^{(36-1)}| = 36$$
$$a_{36,36} = \max_i |a_{i,36}^{(37-1)}| = 37$$
$$a_{37,37} = \max_i |a_{i,37}^{(38-1)}| = 38$$
$$a_{38,38} = \max_i |a_{i,38}^{(39-1)}| = 39$$
$$a_{39,39} = \max_i |a_{i,39}^{(40-1)}| = 40$$
$$a_{40,40} = \max_i |a_{i,40}^{(41-1)}| = 41$$
$$a_{41,41} = \max_i |a_{i,41}^{(42-1)}| = 42$$

$$\bar{x} = \begin{pmatrix} -901.00 \\ -898.50 \\ -596.67 \\ -445.25 \\ -354.00 \\ -292.83 \\ -248.86 \\ -215.62 \\ -189.56 \\ -168.50 \\ -151.09 \\ -136.42 \\ -123.85 \\ -112.93 \\ -103.33 \\ -94.81 \\ -87.18 \\ -80.28 \\ -74.00 \\ -68.25 \\ -62.95 \\ -58.05 \\ -53.48 \\ -49.21 \\ -45.20 \\ -41.42 \\ -37.85 \\ -34.46 \\ -31.24 \\ -28.17 \\ -25.23 \\ -22.41 \\ -19.70 \\ -17.09 \\ -14.57 \\ -12.14 \\ -9.78 \\ -7.50 \\ -5.28 \\ -3.12 \\ -1.02 \\ 1.02 \end{pmatrix}$$

$$\Delta A = 1.4050061177528798e51$$

34 $N = 43$

$A = \{a_{i,j} | i = 0..\overline{4}3, j = 0..\overline{4}4\}$

$a_{0,0} = \max_i |a_{i,0}^{(1-1)}| = 1$

$a_{1,1} = \max_i |a_{i,1}^{(2-1)}| = 2$

$a_{2,2} = \max_i |a_{i,2}^{(3-1)}| = 3$

$a_{3,3} = \max_i |a_{i,3}^{(4-1)}| = 4$

$a_{4,4} = \max_i |a_{i,4}^{(5-1)}| = 5$

$a_{5,5} = \max_i |a_{i,5}^{(6-1)}| = 6$

$a_{6,6} = \max_i |a_{i,6}^{(7-1)}| = 7$

$a_{7,7} = \max_i |a_{i,7}^{(8-1)}| = 8$

$a_{8,8} = \max_i |a_{i,8}^{(9-1)}| = 9$

$a_{9,9} = \max_i |a_{i,9}^{(10-1)}| = 10$

$a_{10,10} = \max_i |a_{i,10}^{(11-1)}| = 11$

$a_{11,11} = \max_i |a_{i,11}^{(12-1)}| = 12$

$a_{12,12} = \max_i |a_{i,12}^{(13-1)}| = 13$

$a_{13,13} = \max_i |a_{i,13}^{(14-1)}| = 14$

$a_{14,14} = \max_i |a_{i,14}^{(15-1)}| = 15$

$a_{15,15} = \max_i |a_{i,15}^{(16-1)}| = 16$

$a_{16,16} = \max_i |a_{i,16}^{(17-1)}| = 17$

$a_{17,17} = \max_i |a_{i,17}^{(18-1)}| = 18$

$a_{18,18} = \max_i |a_{i,18}^{(19-1)}| = 19$

$a_{19,19} = \max_i |a_{i,19}^{(20-1)}| = 20$

$a_{20,20} = \max_i |a_{i,20}^{(21-1)}| = 21$

$a_{21,21} = \max_i |a_{i,21}^{(22-1)}| = 22$

$a_{22,22} = \max_i |a_{i,22}^{(23-1)}| = 23$

$a_{23,23} = \max_i |a_{i,23}^{(24-1)}| = 24$

$a_{24,24} = \max_i |a_{i,24}^{(25-1)}| = 25$

$a_{25,25} = \max_i |a_{i,25}^{(26-1)}| = 26$

$a_{26,26} = \max_i |a_{i,26}^{(27-1)}| = 27$

$a_{27,27} = \max_i |a_{i,27}^{(28-1)}| = 28$

$a_{28,28} = \max_i |a_{i,28}^{(29-1)}| = 29$

$$a_{29,29} = \max_i |a_{i,29}^{(30-1)}| = 30$$
$$a_{30,30} = \max_i |a_{i,30}^{(31-1)}| = 31$$
$$a_{31,31} = \max_i |a_{i,31}^{(32-1)}| = 32$$
$$a_{32,32} = \max_i |a_{i,32}^{(33-1)}| = 33$$
$$a_{33,33} = \max_i |a_{i,33}^{(34-1)}| = 34$$
$$a_{34,34} = \max_i |a_{i,34}^{(35-1)}| = 35$$
$$a_{35,35} = \max_i |a_{i,35}^{(36-1)}| = 36$$
$$a_{36,36} = \max_i |a_{i,36}^{(37-1)}| = 37$$
$$a_{37,37} = \max_i |a_{i,37}^{(38-1)}| = 38$$
$$a_{38,38} = \max_i |a_{i,38}^{(39-1)}| = 39$$
$$a_{39,39} = \max_i |a_{i,39}^{(40-1)}| = 40$$
$$a_{40,40} = \max_i |a_{i,40}^{(41-1)}| = 41$$
$$a_{41,41} = \max_i |a_{i,41}^{(42-1)}| = 42$$
$$a_{42,42} = \max_i |a_{i,42}^{(43-1)}| = 43$$

$$\bar{x} = \begin{pmatrix} -944.00 \\ -941.50 \\ -625.33 \\ -466.75 \\ -371.20 \\ -307.17 \\ -261.14 \\ -226.38 \\ -199.11 \\ -177.10 \\ -158.91 \\ -143.58 \\ -130.46 \\ -119.07 \\ -109.07 \\ -100.19 \\ -92.24 \\ -85.06 \\ -78.53 \\ -72.55 \\ -67.05 \\ -61.95 \\ -57.22 \\ -52.79 \\ -48.64 \\ -44.73 \\ -41.04 \\ -37.54 \\ -34.21 \\ -31.03 \\ -28.00 \\ -25.09 \\ -22.30 \\ -19.62 \\ -17.03 \\ -14.53 \\ -12.11 \\ -9.76 \\ -7.49 \\ -5.28 \\ -3.12 \\ -1.02 \\ 1.02 \end{pmatrix}$$

$$\Delta A = 6.041526306337383e52$$

35 $\quad N = 44$

$A = \{a_{i,j} | i = 0..\bar{4}4, j = 0..\bar{4}5\}$

$a_{0,0} = \max_i |a_{i,0}^{(1-1)}| = 1$

$a_{1,1} = \max_i |a_{i,1}^{(2-1)}| = 2$

$a_{2,2} = \max_i |a_{i,2}^{(3-1)}| = 3$

$a_{3,3} = \max_i |a_{i,3}^{(4-1)}| = 4$

$a_{4,4} = \max_i |a_{i,4}^{(5-1)}| = 5$

$a_{5,5} = \max_i |a_{i,5}^{(6-1)}| = 6$

$a_{6,6} = \max_i |a_{i,6}^{(7-1)}| = 7$

$a_{7,7} = \max_i |a_{i,7}^{(8-1)}| = 8$

$a_{8,8} = \max_i |a_{i,8}^{(9-1)}| = 9$

$a_{9,9} = \max_i |a_{i,9}^{(10-1)}| = 10$

$a_{10,10} = \max_i |a_{i,10}^{(11-1)}| = 11$

$a_{11,11} = \max_i |a_{i,11}^{(12-1)}| = 12$

$a_{12,12} = \max_i |a_{i,12}^{(13-1)}| = 13$

$a_{13,13} = \max_i |a_{i,13}^{(14-1)}| = 14$

$a_{14,14} = \max_i |a_{i,14}^{(15-1)}| = 15$

$a_{15,15} = \max_i |a_{i,15}^{(16-1)}| = 16$

$a_{16,16} = \max_i |a_{i,16}^{(17-1)}| = 17$

$a_{17,17} = \max_i |a_{i,17}^{(18-1)}| = 18$

$a_{18,18} = \max_i |a_{i,18}^{(19-1)}| = 19$

$a_{19,19} = \max_i |a_{i,19}^{(20-1)}| = 20$

$a_{20,20} = \max_i |a_{i,20}^{(21-1)}| = 21$

$a_{21,21} = \max_i |a_{i,21}^{(22-1)}| = 22$

$a_{22,22} = \max_i |a_{i,22}^{(23-1)}| = 23$

$a_{23,23} = \max_i |a_{i,23}^{(24-1)}| = 24$

$a_{24,24} = \max_i |a_{i,24}^{(25-1)}| = 25$

$a_{25,25} = \max_i |a_{i,25}^{(26-1)}| = 26$

$a_{26,26} = \max_i |a_{i,26}^{(27-1)}| = 27$

$a_{27,27} = \max_i |a_{i,27}^{(28-1)}| = 28$

$a_{28,28} = \max_i |a_{i,28}^{(29-1)}| = 29$

$$a_{29,29} = \max_i |a_{i,29}^{(30-1)}| = 30$$
$$a_{30,30} = \max_i |a_{i,30}^{(31-1)}| = 31$$
$$a_{31,31} = \max_i |a_{i,31}^{(32-1)}| = 32$$
$$a_{32,32} = \max_i |a_{i,32}^{(33-1)}| = 33$$
$$a_{33,33} = \max_i |a_{i,33}^{(34-1)}| = 34$$
$$a_{34,34} = \max_i |a_{i,34}^{(35-1)}| = 35$$
$$a_{35,35} = \max_i |a_{i,35}^{(36-1)}| = 36$$
$$a_{36,36} = \max_i |a_{i,36}^{(37-1)}| = 37$$
$$a_{37,37} = \max_i |a_{i,37}^{(38-1)}| = 38$$
$$a_{38,38} = \max_i |a_{i,38}^{(39-1)}| = 39$$
$$a_{39,39} = \max_i |a_{i,39}^{(40-1)}| = 40$$
$$a_{40,40} = \max_i |a_{i,40}^{(41-1)}| = 41$$
$$a_{41,41} = \max_i |a_{i,41}^{(42-1)}| = 42$$
$$a_{42,42} = \max_i |a_{i,42}^{(43-1)}| = 43$$
$$a_{43,43} = \max_i |a_{i,43}^{(44-1)}| = 44$$

$$\bar{x} = \begin{pmatrix} -988.00 \\ -985.50 \\ -654.67 \\ -488.75 \\ -388.80 \\ -321.83 \\ -273.71 \\ -237.38 \\ -208.89 \\ -185.90 \\ -166.91 \\ -150.92 \\ -137.23 \\ -125.36 \\ -114.93 \\ -105.69 \\ -97.41 \\ -89.94 \\ -83.16 \\ -76.95 \\ -71.24 \\ -65.95 \\ -61.04 \\ -56.46 \\ -52.16 \\ -48.12 \\ -44.30 \\ -40.68 \\ -37.24 \\ -33.97 \\ -30.84 \\ -27.84 \\ -24.97 \\ -22.21 \\ -19.54 \\ -16.97 \\ -14.49 \\ -12.08 \\ -9.74 \\ -7.48 \\ -5.27 \\ -3.12 \\ -1.02 \\ 1.02 \end{pmatrix}$$

$$\Delta A = 2.6582715747884485e54$$

36 $\quad N = 45$

$A = \{a_{i,j} | i = 0..\overline{4}5, j = 0..\overline{4}6\}$

$a_{0,0} = \max_i |a_{i,0}^{(1-1)}| = 1$

$a_{1,1} = \max_i |a_{i,1}^{(2-1)}| = 2$

$a_{2,2} = \max_i |a_{i,2}^{(3-1)}| = 3$

$a_{3,3} = \max_i |a_{i,3}^{(4-1)}| = 4$

$a_{4,4} = \max_i |a_{i,4}^{(5-1)}| = 5$

$a_{5,5} = \max_i |a_{i,5}^{(6-1)}| = 6$

$a_{6,6} = \max_i |a_{i,6}^{(7-1)}| = 7$

$a_{7,7} = \max_i |a_{i,7}^{(8-1)}| = 8$

$a_{8,8} = \max_i |a_{i,8}^{(9-1)}| = 9$

$a_{9,9} = \max_i |a_{i,9}^{(10-1)}| = 10$

$a_{10,10} = \max_i |a_{i,10}^{(11-1)}| = 11$

$a_{11,11} = \max_i |a_{i,11}^{(12-1)}| = 12$

$a_{12,12} = \max_i |a_{i,12}^{(13-1)}| = 13$

$a_{13,13} = \max_i |a_{i,13}^{(14-1)}| = 14$

$a_{14,14} = \max_i |a_{i,14}^{(15-1)}| = 15$

$a_{15,15} = \max_i |a_{i,15}^{(16-1)}| = 16$

$a_{16,16} = \max_i |a_{i,16}^{(17-1)}| = 17$

$a_{17,17} = \max_i |a_{i,17}^{(18-1)}| = 18$

$a_{18,18} = \max_i |a_{i,18}^{(19-1)}| = 19$

$a_{19,19} = \max_i |a_{i,19}^{(20-1)}| = 20$

$a_{20,20} = \max_i |a_{i,20}^{(21-1)}| = 21$

$a_{21,21} = \max_i |a_{i,21}^{(22-1)}| = 22$

$a_{22,22} = \max_i |a_{i,22}^{(23-1)}| = 23$

$a_{23,23} = \max_i |a_{i,23}^{(24-1)}| = 24$

$a_{24,24} = \max_i |a_{i,24}^{(25-1)}| = 25$

$a_{25,25} = \max_i |a_{i,25}^{(26-1)}| = 26$

$a_{26,26} = \max_i |a_{i,26}^{(27-1)}| = 27$

$a_{27,27} = \max_i |a_{i,27}^{(28-1)}| = 28$

$a_{28,28} = \max_i |a_{i,28}^{(29-1)}| = 29$

$$a_{29,29} = \max_i |a_{i,29}^{(30-1)}| = 30$$
$$a_{30,30} = \max_i |a_{i,30}^{(31-1)}| = 31$$
$$a_{31,31} = \max_i |a_{i,31}^{(32-1)}| = 32$$
$$a_{32,32} = \max_i |a_{i,32}^{(33-1)}| = 33$$
$$a_{33,33} = \max_i |a_{i,33}^{(34-1)}| = 34$$
$$a_{34,34} = \max_i |a_{i,34}^{(35-1)}| = 35$$
$$a_{35,35} = \max_i |a_{i,35}^{(36-1)}| = 36$$
$$a_{36,36} = \max_i |a_{i,36}^{(37-1)}| = 37$$
$$a_{37,37} = \max_i |a_{i,37}^{(38-1)}| = 38$$
$$a_{38,38} = \max_i |a_{i,38}^{(39-1)}| = 39$$
$$a_{39,39} = \max_i |a_{i,39}^{(40-1)}| = 40$$
$$a_{40,40} = \max_i |a_{i,40}^{(41-1)}| = 41$$
$$a_{41,41} = \max_i |a_{i,41}^{(42-1)}| = 42$$
$$a_{42,42} = \max_i |a_{i,42}^{(43-1)}| = 43$$
$$a_{43,43} = \max_i |a_{i,43}^{(44-1)}| = 44$$
$$a_{44,44} = \max_i |a_{i,44}^{(45-1)}| = 45$$

$$\bar{x} = \begin{pmatrix} -1033.00 \\ -1030.50 \\ -684.67 \\ -511.25 \\ -406.80 \\ -336.83 \\ -286.57 \\ -248.62 \\ -218.89 \\ -194.90 \\ -175.09 \\ -158.42 \\ -144.15 \\ -131.79 \\ -120.93 \\ -111.31 \\ -102.71 \\ -94.94 \\ -87.89 \\ -81.45 \\ -75.52 \\ -70.05 \\ -64.96 \\ -60.21 \\ -55.76 \\ -51.58 \\ -47.63 \\ -43.89 \\ -40.34 \\ -36.97 \\ -33.74 \\ -30.66 \\ -27.70 \\ -24.85 \\ -22.11 \\ -19.47 \\ -16.92 \\ -14.45 \\ -12.05 \\ -9.73 \\ -7.46 \\ -5.26 \\ -3.12 \\ -1.02 \\ 1.02 \end{pmatrix}$$

69

$$\Delta A = 1.1962222086548019e56$$

37 $N = 46$

$A = \{a_{i,j} | i = 0..\bar{4}6, j = 0..\bar{4}7\}$

$a_{0,0} = \max_i |a_{i,0}^{(1-1)}| = 1$

$a_{1,1} = \max_i |a_{i,1}^{(2-1)}| = 2$

$a_{2,2} = \max_i |a_{i,2}^{(3-1)}| = 3$

$a_{3,3} = \max_i |a_{i,3}^{(4-1)}| = 4$

$a_{4,4} = \max_i |a_{i,4}^{(5-1)}| = 5$

$a_{5,5} = \max_i |a_{i,5}^{(6-1)}| = 6$

$a_{6,6} = \max_i |a_{i,6}^{(7-1)}| = 7$

$a_{7,7} = \max_i |a_{i,7}^{(8-1)}| = 8$

$a_{8,8} = \max_i |a_{i,8}^{(9-1)}| = 9$

$a_{9,9} = \max_i |a_{i,9}^{(10-1)}| = 10$

$a_{10,10} = \max_i |a_{i,10}^{(11-1)}| = 11$

$a_{11,11} = \max_i |a_{i,11}^{(12-1)}| = 12$

$a_{12,12} = \max_i |a_{i,12}^{(13-1)}| = 13$

$a_{13,13} = \max_i |a_{i,13}^{(14-1)}| = 14$

$a_{14,14} = \max_i |a_{i,14}^{(15-1)}| = 15$

$a_{15,15} = \max_i |a_{i,15}^{(16-1)}| = 16$

$a_{16,16} = \max_i |a_{i,16}^{(17-1)}| = 17$

$a_{17,17} = \max_i |a_{i,17}^{(18-1)}| = 18$

$a_{18,18} = \max_i |a_{i,18}^{(19-1)}| = 19$

$a_{19,19} = \max_i |a_{i,19}^{(20-1)}| = 20$

$a_{20,20} = \max_i |a_{i,20}^{(21-1)}| = 21$

$a_{21,21} = \max_i |a_{i,21}^{(22-1)}| = 22$

$a_{22,22} = \max_i |a_{i,22}^{(23-1)}| = 23$

$a_{23,23} = \max_i |a_{i,23}^{(24-1)}| = 24$

$a_{24,24} = \max_i |a_{i,24}^{(25-1)}| = 25$

$a_{25,25} = \max_i |a_{i,25}^{(26-1)}| = 26$

$a_{26,26} = \max_i |a_{i,26}^{(27-1)}| = 27$

$a_{27,27} = \max_i |a_{i,27}^{(28-1)}| = 28$

$a_{28,28} = \max_i |a_{i,28}^{(29-1)}| = 29$

$$a_{29,29} = \max_i |a_{i,29}^{(30-1)}| = 30$$
$$a_{30,30} = \max_i |a_{i,30}^{(31-1)}| = 31$$
$$a_{31,31} = \max_i |a_{i,31}^{(32-1)}| = 32$$
$$a_{32,32} = \max_i |a_{i,32}^{(33-1)}| = 33$$
$$a_{33,33} = \max_i |a_{i,33}^{(34-1)}| = 34$$
$$a_{34,34} = \max_i |a_{i,34}^{(35-1)}| = 35$$
$$a_{35,35} = \max_i |a_{i,35}^{(36-1)}| = 36$$
$$a_{36,36} = \max_i |a_{i,36}^{(37-1)}| = 37$$
$$a_{37,37} = \max_i |a_{i,37}^{(38-1)}| = 38$$
$$a_{38,38} = \max_i |a_{i,38}^{(39-1)}| = 39$$
$$a_{39,39} = \max_i |a_{i,39}^{(40-1)}| = 40$$
$$a_{40,40} = \max_i |a_{i,40}^{(41-1)}| = 41$$
$$a_{41,41} = \max_i |a_{i,41}^{(42-1)}| = 42$$
$$a_{42,42} = \max_i |a_{i,42}^{(43-1)}| = 43$$
$$a_{43,43} = \max_i |a_{i,43}^{(44-1)}| = 44$$
$$a_{44,44} = \max_i |a_{i,44}^{(45-1)}| = 45$$
$$a_{45,45} = \max_i |a_{i,45}^{(46-1)}| = 46$$

$$\bar{x} = \begin{pmatrix} -1079.00 \\ -1076.50 \\ -715.33 \\ -534.25 \\ -425.20 \\ -352.17 \\ -299.71 \\ -260.12 \\ -229.11 \\ -204.10 \\ -183.45 \\ -166.08 \\ -151.23 \\ -138.36 \\ -127.07 \\ -117.06 \\ -108.12 \\ -100.06 \\ -92.74 \\ -86.05 \\ -79.90 \\ -74.23 \\ -68.96 \\ -64.04 \\ -59.44 \\ -55.12 \\ -51.04 \\ -47.18 \\ -43.52 \\ -40.03 \\ -36.71 \\ -33.53 \\ -30.48 \\ -27.56 \\ -24.74 \\ -22.03 \\ -19.41 \\ -16.87 \\ -14.41 \\ -12.03 \\ -9.71 \\ -7.45 \\ -5.26 \\ -3.11 \\ -1.02 \\ 1.02 \end{pmatrix}$$

$$\Delta A = 5.5026221598120885e57$$

38 $N = 47$

$A = \{a_{i,j} | i = 0..\bar{4}7, j = 0..\bar{4}8\}$

$a_{0,0} = \max_i |a_{i,0}^{(1-1)}| = 1$

$a_{1,1} = \max_i |a_{i,1}^{(2-1)}| = 2$

$a_{2,2} = \max_i |a_{i,2}^{(3-1)}| = 3$

$a_{3,3} = \max_i |a_{i,3}^{(4-1)}| = 4$

$a_{4,4} = \max_i |a_{i,4}^{(5-1)}| = 5$

$a_{5,5} = \max_i |a_{i,5}^{(6-1)}| = 6$

$a_{6,6} = \max_i |a_{i,6}^{(7-1)}| = 7$

$a_{7,7} = \max_i |a_{i,7}^{(8-1)}| = 8$

$a_{8,8} = \max_i |a_{i,8}^{(9-1)}| = 9$

$a_{9,9} = \max_i |a_{i,9}^{(10-1)}| = 10$

$a_{10,10} = \max_i |a_{i,10}^{(11-1)}| = 11$

$a_{11,11} = \max_i |a_{i,11}^{(12-1)}| = 12$

$a_{12,12} = \max_i |a_{i,12}^{(13-1)}| = 13$

$a_{13,13} = \max_i |a_{i,13}^{(14-1)}| = 14$

$a_{14,14} = \max_i |a_{i,14}^{(15-1)}| = 15$

$a_{15,15} = \max_i |a_{i,15}^{(16-1)}| = 16$

$a_{16,16} = \max_i |a_{i,16}^{(17-1)}| = 17$

$a_{17,17} = \max_i |a_{i,17}^{(18-1)}| = 18$

$a_{18,18} = \max_i |a_{i,18}^{(19-1)}| = 19$

$a_{19,19} = \max_i |a_{i,19}^{(20-1)}| = 20$

$a_{20,20} = \max_i |a_{i,20}^{(21-1)}| = 21$

$a_{21,21} = \max_i |a_{i,21}^{(22-1)}| = 22$

$a_{22,22} = \max_i |a_{i,22}^{(23-1)}| = 23$

$a_{23,23} = \max_i |a_{i,23}^{(24-1)}| = 24$

$a_{24,24} = \max_i |a_{i,24}^{(25-1)}| = 25$

$a_{25,25} = \max_i |a_{i,25}^{(26-1)}| = 26$

$a_{26,26} = \max_i |a_{i,26}^{(27-1)}| = 27$

$a_{27,27} = \max_i |a_{i,27}^{(28-1)}| = 28$

$a_{28,28} = \max_i |a_{i,28}^{(29-1)}| = 29$

$$a_{29,29} = \max_i |a_{i,29}^{(30-1)}| = 30$$
$$a_{30,30} = \max_i |a_{i,30}^{(31-1)}| = 31$$
$$a_{31,31} = \max_i |a_{i,31}^{(32-1)}| = 32$$
$$a_{32,32} = \max_i |a_{i,32}^{(33-1)}| = 33$$
$$a_{33,33} = \max_i |a_{i,33}^{(34-1)}| = 34$$
$$a_{34,34} = \max_i |a_{i,34}^{(35-1)}| = 35$$
$$a_{35,35} = \max_i |a_{i,35}^{(36-1)}| = 36$$
$$a_{36,36} = \max_i |a_{i,36}^{(37-1)}| = 37$$
$$a_{37,37} = \max_i |a_{i,37}^{(38-1)}| = 38$$
$$a_{38,38} = \max_i |a_{i,38}^{(39-1)}| = 39$$
$$a_{39,39} = \max_i |a_{i,39}^{(40-1)}| = 40$$
$$a_{40,40} = \max_i |a_{i,40}^{(41-1)}| = 41$$
$$a_{41,41} = \max_i |a_{i,41}^{(42-1)}| = 42$$
$$a_{42,42} = \max_i |a_{i,42}^{(43-1)}| = 43$$
$$a_{43,43} = \max_i |a_{i,43}^{(44-1)}| = 44$$
$$a_{44,44} = \max_i |a_{i,44}^{(45-1)}| = 45$$
$$a_{45,45} = \max_i |a_{i,45}^{(46-1)}| = 46$$
$$a_{46,46} = \max_i |a_{i,46}^{(47-1)}| = 47$$

$$\bar{x} = \begin{pmatrix} -1126.00 \\ -1123.50 \\ -746.67 \\ -557.75 \\ -444.00 \\ -367.83 \\ -313.14 \\ -271.88 \\ -239.56 \\ -213.50 \\ -192.00 \\ -173.92 \\ -158.46 \\ -145.07 \\ -133.33 \\ -122.94 \\ -113.65 \\ -105.28 \\ -97.68 \\ -90.75 \\ -84.38 \\ -78.50 \\ -73.04 \\ -67.96 \\ -63.20 \\ -58.73 \\ -54.52 \\ -50.54 \\ -46.76 \\ -43.17 \\ -39.74 \\ -36.47 \\ -33.33 \\ -30.32 \\ -27.43 \\ -24.64 \\ -21.95 \\ -19.34 \\ -16.82 \\ -14.38 \\ -12.00 \\ -9.69 \\ -7.44 \\ -5.25 \\ -3.11 \\ -1.02 \\ 1.02 \end{pmatrix}$$

75

$$\Delta A = 2.5862324151116818e59$$

39 $N = 48$

$A = \{a_{i,j} | i = 0..\bar{4}8, j = 0..\bar{4}9\}$

$a_{0,0} = \max_i |a_{i,0}^{(1-1)}| = 1$

$a_{1,1} = \max_i |a_{i,1}^{(2-1)}| = 2$

$a_{2,2} = \max_i |a_{i,2}^{(3-1)}| = 3$

$a_{3,3} = \max_i |a_{i,3}^{(4-1)}| = 4$

$a_{4,4} = \max_i |a_{i,4}^{(5-1)}| = 5$

$a_{5,5} = \max_i |a_{i,5}^{(6-1)}| = 6$

$a_{6,6} = \max_i |a_{i,6}^{(7-1)}| = 7$

$a_{7,7} = \max_i |a_{i,7}^{(8-1)}| = 8$

$a_{8,8} = \max_i |a_{i,8}^{(9-1)}| = 9$

$a_{9,9} = \max_i |a_{i,9}^{(10-1)}| = 10$

$a_{10,10} = \max_i |a_{i,10}^{(11-1)}| = 11$

$a_{11,11} = \max_i |a_{i,11}^{(12-1)}| = 12$

$a_{12,12} = \max_i |a_{i,12}^{(13-1)}| = 13$

$a_{13,13} = \max_i |a_{i,13}^{(14-1)}| = 14$

$a_{14,14} = \max_i |a_{i,14}^{(15-1)}| = 15$

$a_{15,15} = \max_i |a_{i,15}^{(16-1)}| = 16$

$a_{16,16} = \max_i |a_{i,16}^{(17-1)}| = 17$

$a_{17,17} = \max_i |a_{i,17}^{(18-1)}| = 18$

$a_{18,18} = \max_i |a_{i,18}^{(19-1)}| = 19$

$a_{19,19} = \max_i |a_{i,19}^{(20-1)}| = 20$

$a_{20,20} = \max_i |a_{i,20}^{(21-1)}| = 21$

$a_{21,21} = \max_i |a_{i,21}^{(22-1)}| = 22$

$a_{22,22} = \max_i |a_{i,22}^{(23-1)}| = 23$

$a_{23,23} = \max_i |a_{i,23}^{(24-1)}| = 24$

$a_{24,24} = \max_i |a_{i,24}^{(25-1)}| = 25$

$a_{25,25} = \max_i |a_{i,25}^{(26-1)}| = 26$

$a_{26,26} = \max_i |a_{i,26}^{(27-1)}| = 27$

$a_{27,27} = \max_i |a_{i,27}^{(28-1)}| = 28$

$a_{28,28} = \max_i |a_{i,28}^{(29-1)}| = 29$

$$a_{29,29} = \max_i |a_{i,29}^{(30-1)}| = 30$$
$$a_{30,30} = \max_i |a_{i,30}^{(31-1)}| = 31$$
$$a_{31,31} = \max_i |a_{i,31}^{(32-1)}| = 32$$
$$a_{32,32} = \max_i |a_{i,32}^{(33-1)}| = 33$$
$$a_{33,33} = \max_i |a_{i,33}^{(34-1)}| = 34$$
$$a_{34,34} = \max_i |a_{i,34}^{(35-1)}| = 35$$
$$a_{35,35} = \max_i |a_{i,35}^{(36-1)}| = 36$$
$$a_{36,36} = \max_i |a_{i,36}^{(37-1)}| = 37$$
$$a_{37,37} = \max_i |a_{i,37}^{(38-1)}| = 38$$
$$a_{38,38} = \max_i |a_{i,38}^{(39-1)}| = 39$$
$$a_{39,39} = \max_i |a_{i,39}^{(40-1)}| = 40$$
$$a_{40,40} = \max_i |a_{i,40}^{(41-1)}| = 41$$
$$a_{41,41} = \max_i |a_{i,41}^{(42-1)}| = 42$$
$$a_{42,42} = \max_i |a_{i,42}^{(43-1)}| = 43$$
$$a_{43,43} = \max_i |a_{i,43}^{(44-1)}| = 44$$
$$a_{44,44} = \max_i |a_{i,44}^{(45-1)}| = 45$$
$$a_{45,45} = \max_i |a_{i,45}^{(46-1)}| = 46$$
$$a_{46,46} = \max_i |a_{i,46}^{(47-1)}| = 47$$
$$a_{47,47} = \max_i |a_{i,47}^{(48-1)}| = 48$$

$$\bar{x} = \begin{pmatrix} -1174.00 \\ -1171.50 \\ -778.67 \\ -581.75 \\ -463.20 \\ -383.83 \\ -326.86 \\ -283.88 \\ -250.22 \\ -223.10 \\ -200.73 \\ -181.92 \\ -165.85 \\ -151.93 \\ -139.73 \\ -128.94 \\ -119.29 \\ -110.61 \\ -102.74 \\ -95.55 \\ -88.95 \\ -82.86 \\ -77.22 \\ -71.96 \\ -67.04 \\ -62.42 \\ -58.07 \\ -53.96 \\ -50.07 \\ -46.37 \\ -42.84 \\ -39.47 \\ -36.24 \\ -33.15 \\ -30.17 \\ -27.31 \\ -24.54 \\ -21.87 \\ -19.28 \\ -16.78 \\ -14.34 \\ -11.98 \\ -9.67 \\ -7.43 \\ -5.24 \\ -3.11 \\ -1.02 \\ 1.02 \end{pmatrix}$$

$$\Delta A = 1.2413915592536073e61$$

40 $N = 49$

$A = \{a_{i,j} | i = 0..\bar{4}9, j = 0..\bar{5}0\}$

$a_{0,0} = \max_i |a_{i,0}^{(1-1)}| = 1$

$a_{1,1} = \max_i |a_{i,1}^{(2-1)}| = 2$

$a_{2,2} = \max_i |a_{i,2}^{(3-1)}| = 3$

$a_{3,3} = \max_i |a_{i,3}^{(4-1)}| = 4$

$a_{4,4} = \max_i |a_{i,4}^{(5-1)}| = 5$

$a_{5,5} = \max_i |a_{i,5}^{(6-1)}| = 6$

$a_{6,6} = \max_i |a_{i,6}^{(7-1)}| = 7$

$a_{7,7} = \max_i |a_{i,7}^{(8-1)}| = 8$

$a_{8,8} = \max_i |a_{i,8}^{(9-1)}| = 9$

$a_{9,9} = \max_i |a_{i,9}^{(10-1)}| = 10$

$a_{10,10} = \max_i |a_{i,10}^{(11-1)}| = 11$

$a_{11,11} = \max_i |a_{i,11}^{(12-1)}| = 12$

$a_{12,12} = \max_i |a_{i,12}^{(13-1)}| = 13$

$a_{13,13} = \max_i |a_{i,13}^{(14-1)}| = 14$

$a_{14,14} = \max_i |a_{i,14}^{(15-1)}| = 15$

$a_{15,15} = \max_i |a_{i,15}^{(16-1)}| = 16$

$a_{16,16} = \max_i |a_{i,16}^{(17-1)}| = 17$

$a_{17,17} = \max_i |a_{i,17}^{(18-1)}| = 18$

$a_{18,18} = \max_i |a_{i,18}^{(19-1)}| = 19$

$a_{19,19} = \max_i |a_{i,19}^{(20-1)}| = 20$

$a_{20,20} = \max_i |a_{i,20}^{(21-1)}| = 21$

$a_{21,21} = \max_i |a_{i,21}^{(22-1)}| = 22$

$a_{22,22} = \max_i |a_{i,22}^{(23-1)}| = 23$

$a_{23,23} = \max_i |a_{i,23}^{(24-1)}| = 24$

$a_{24,24} = \max_i |a_{i,24}^{(25-1)}| = 25$

$a_{25,25} = \max_i |a_{i,25}^{(26-1)}| = 26$

$a_{26,26} = \max_i |a_{i,26}^{(27-1)}| = 27$

$a_{27,27} = \max_i |a_{i,27}^{(28-1)}| = 28$

$a_{28,28} = \max_i |a_{i,28}^{(29-1)}| = 29$

$$a_{29,29} = \max_i |a_{i,29}^{(30-1)}| = 30$$
$$a_{30,30} = \max_i |a_{i,30}^{(31-1)}| = 31$$
$$a_{31,31} = \max_i |a_{i,31}^{(32-1)}| = 32$$
$$a_{32,32} = \max_i |a_{i,32}^{(33-1)}| = 33$$
$$a_{33,33} = \max_i |a_{i,33}^{(34-1)}| = 34$$
$$a_{34,34} = \max_i |a_{i,34}^{(35-1)}| = 35$$
$$a_{35,35} = \max_i |a_{i,35}^{(36-1)}| = 36$$
$$a_{36,36} = \max_i |a_{i,36}^{(37-1)}| = 37$$
$$a_{37,37} = \max_i |a_{i,37}^{(38-1)}| = 38$$
$$a_{38,38} = \max_i |a_{i,38}^{(39-1)}| = 39$$
$$a_{39,39} = \max_i |a_{i,39}^{(40-1)}| = 40$$
$$a_{40,40} = \max_i |a_{i,40}^{(41-1)}| = 41$$
$$a_{41,41} = \max_i |a_{i,41}^{(42-1)}| = 42$$
$$a_{42,42} = \max_i |a_{i,42}^{(43-1)}| = 43$$
$$a_{43,43} = \max_i |a_{i,43}^{(44-1)}| = 44$$
$$a_{44,44} = \max_i |a_{i,44}^{(45-1)}| = 45$$
$$a_{45,45} = \max_i |a_{i,45}^{(46-1)}| = 46$$
$$a_{46,46} = \max_i |a_{i,46}^{(47-1)}| = 47$$
$$a_{47,47} = \max_i |a_{i,47}^{(48-1)}| = 48$$
$$a_{48,48} = \max_i |a_{i,48}^{(49-1)}| = 49$$

$$\bar{x} = \begin{pmatrix} -1223.00 \\ -1220.50 \\ -811.33 \\ -606.25 \\ -482.80 \\ -400.17 \\ -340.86 \\ -296.12 \\ -261.11 \\ -232.90 \\ -209.64 \\ -190.08 \\ -173.38 \\ -158.93 \\ -146.27 \\ -135.06 \\ -125.06 \\ -116.06 \\ -107.89 \\ -100.45 \\ -93.62 \\ -87.32 \\ -81.48 \\ -76.04 \\ -70.96 \\ -66.19 \\ -61.70 \\ -57.46 \\ -53.45 \\ -49.63 \\ -46.00 \\ -42.53 \\ -39.21 \\ -36.03 \\ -32.97 \\ -30.03 \\ -27.19 \\ -24.45 \\ -21.79 \\ -19.23 \\ -16.73 \\ -14.31 \\ -11.95 \\ -9.66 \\ -7.42 \\ -5.24 \\ -3.11 \\ -1.02 \\ 1.02 \end{pmatrix}$$

81

$$\Delta A = 6.082818640342675e62$$

41 $\quad N = 50$

$A = \{a_{i,j} | i = 0..\overline{50}, j = 0..\overline{51}\}$

$\quad a_{0,0} = \max_i |a_{i,0}^{(1-1)}| = 1$

$\quad a_{1,1} = \max_i |a_{i,1}^{(2-1)}| = 2$

$\quad a_{2,2} = \max_i |a_{i,2}^{(3-1)}| = 3$

$\quad a_{3,3} = \max_i |a_{i,3}^{(4-1)}| = 4$

$\quad a_{4,4} = \max_i |a_{i,4}^{(5-1)}| = 5$

$\quad a_{5,5} = \max_i |a_{i,5}^{(6-1)}| = 6$

$\quad a_{6,6} = \max_i |a_{i,6}^{(7-1)}| = 7$

$\quad a_{7,7} = \max_i |a_{i,7}^{(8-1)}| = 8$

$\quad a_{8,8} = \max_i |a_{i,8}^{(9-1)}| = 9$

$\quad a_{9,9} = \max_i |a_{i,9}^{(10-1)}| = 10$

$\quad a_{10,10} = \max_i |a_{i,10}^{(11-1)}| = 11$

$\quad a_{11,11} = \max_i |a_{i,11}^{(12-1)}| = 12$

$\quad a_{12,12} = \max_i |a_{i,12}^{(13-1)}| = 13$

$\quad a_{13,13} = \max_i |a_{i,13}^{(14-1)}| = 14$

$\quad a_{14,14} = \max_i |a_{i,14}^{(15-1)}| = 15$

$\quad a_{15,15} = \max_i |a_{i,15}^{(16-1)}| = 16$

$\quad a_{16,16} = \max_i |a_{i,16}^{(17-1)}| = 17$

$\quad a_{17,17} = \max_i |a_{i,17}^{(18-1)}| = 18$

$\quad a_{18,18} = \max_i |a_{i,18}^{(19-1)}| = 19$

$\quad a_{19,19} = \max_i |a_{i,19}^{(20-1)}| = 20$

$\quad a_{20,20} = \max_i |a_{i,20}^{(21-1)}| = 21$

$\quad a_{21,21} = \max_i |a_{i,21}^{(22-1)}| = 22$

$\quad a_{22,22} = \max_i |a_{i,22}^{(23-1)}| = 23$

$\quad a_{23,23} = \max_i |a_{i,23}^{(24-1)}| = 24$

$\quad a_{24,24} = \max_i |a_{i,24}^{(25-1)}| = 25$

$\quad a_{25,25} = \max_i |a_{i,25}^{(26-1)}| = 26$

$\quad a_{26,26} = \max_i |a_{i,26}^{(27-1)}| = 27$

$\quad a_{27,27} = \max_i |a_{i,27}^{(28-1)}| = 28$

$\quad a_{28,28} = \max_i |a_{i,28}^{(29-1)}| = 29$

$$a_{29,29} = \max_i |a_{i,29}^{(30-1)}| = 30$$
$$a_{30,30} = \max_i |a_{i,30}^{(31-1)}| = 31$$
$$a_{31,31} = \max_i |a_{i,31}^{(32-1)}| = 32$$
$$a_{32,32} = \max_i |a_{i,32}^{(33-1)}| = 33$$
$$a_{33,33} = \max_i |a_{i,33}^{(34-1)}| = 34$$
$$a_{34,34} = \max_i |a_{i,34}^{(35-1)}| = 35$$
$$a_{35,35} = \max_i |a_{i,35}^{(36-1)}| = 36$$
$$a_{36,36} = \max_i |a_{i,36}^{(37-1)}| = 37$$
$$a_{37,37} = \max_i |a_{i,37}^{(38-1)}| = 38$$
$$a_{38,38} = \max_i |a_{i,38}^{(39-1)}| = 39$$
$$a_{39,39} = \max_i |a_{i,39}^{(40-1)}| = 40$$
$$a_{40,40} = \max_i |a_{i,40}^{(41-1)}| = 41$$
$$a_{41,41} = \max_i |a_{i,41}^{(42-1)}| = 42$$
$$a_{42,42} = \max_i |a_{i,42}^{(43-1)}| = 43$$
$$a_{43,43} = \max_i |a_{i,43}^{(44-1)}| = 44$$
$$a_{44,44} = \max_i |a_{i,44}^{(45-1)}| = 45$$
$$a_{45,45} = \max_i |a_{i,45}^{(46-1)}| = 46$$
$$a_{46,46} = \max_i |a_{i,46}^{(47-1)}| = 47$$
$$a_{47,47} = \max_i |a_{i,47}^{(48-1)}| = 48$$
$$a_{48,48} = \max_i |a_{i,48}^{(49-1)}| = 49$$
$$a_{49,49} = \max_i |a_{i,49}^{(50-1)}| = 50$$

$$\bar{x} = \begin{pmatrix} -1273.00 \\ -1270.50 \\ -844.67 \\ -631.25 \\ -502.80 \\ -416.83 \\ -355.14 \\ -308.62 \\ -272.22 \\ -242.90 \\ -218.73 \\ -198.42 \\ -181.08 \\ -166.07 \\ -152.93 \\ -141.31 \\ -130.94 \\ -121.61 \\ -113.16 \\ -105.45 \\ -98.38 \\ -91.86 \\ -85.83 \\ -80.21 \\ -74.96 \\ -70.04 \\ -65.41 \\ -61.04 \\ -56.90 \\ -52.97 \\ -49.23 \\ -45.66 \\ -42.24 \\ -38.97 \\ -35.83 \\ -32.81 \\ -29.89 \\ -27.08 \\ -24.36 \\ -21.73 \\ -19.17 \\ -16.69 \\ -14.28 \\ -11.93 \\ -9.64 \\ -7.41 \\ -5.23 \\ -3.10 \\ -1.02 \end{pmatrix}$$

84

$$\Delta A = 3.0414093201713376e64$$

42 $N = 51$

$A = \{a_{i,j} | i = 0..\overline{51}, j = 0..\overline{52}\}$

$a_{0,0} = \max_i |a_{i,0}^{(1-1)}| = 1$

$a_{1,1} = \max_i |a_{i,1}^{(2-1)}| = 2$

$a_{2,2} = \max_i |a_{i,2}^{(3-1)}| = 3$

$a_{3,3} = \max_i |a_{i,3}^{(4-1)}| = 4$

$a_{4,4} = \max_i |a_{i,4}^{(5-1)}| = 5$

$a_{5,5} = \max_i |a_{i,5}^{(6-1)}| = 6$

$a_{6,6} = \max_i |a_{i,6}^{(7-1)}| = 7$

$a_{7,7} = \max_i |a_{i,7}^{(8-1)}| = 8$

$a_{8,8} = \max_i |a_{i,8}^{(9-1)}| = 9$

$a_{9,9} = \max_i |a_{i,9}^{(10-1)}| = 10$

$a_{10,10} = \max_i |a_{i,10}^{(11-1)}| = 11$

$a_{11,11} = \max_i |a_{i,11}^{(12-1)}| = 12$

$a_{12,12} = \max_i |a_{i,12}^{(13-1)}| = 13$

$a_{13,13} = \max_i |a_{i,13}^{(14-1)}| = 14$

$a_{14,14} = \max_i |a_{i,14}^{(15-1)}| = 15$

$a_{15,15} = \max_i |a_{i,15}^{(16-1)}| = 16$

$a_{16,16} = \max_i |a_{i,16}^{(17-1)}| = 17$

$a_{17,17} = \max_i |a_{i,17}^{(18-1)}| = 18$

$a_{18,18} = \max_i |a_{i,18}^{(19-1)}| = 19$

$a_{19,19} = \max_i |a_{i,19}^{(20-1)}| = 20$

$a_{20,20} = \max_i |a_{i,20}^{(21-1)}| = 21$

$a_{21,21} = \max_i |a_{i,21}^{(22-1)}| = 22$

$a_{22,22} = \max_i |a_{i,22}^{(23-1)}| = 23$

$a_{23,23} = \max_i |a_{i,23}^{(24-1)}| = 24$

$a_{24,24} = \max_i |a_{i,24}^{(25-1)}| = 25$

$a_{25,25} = \max_i |a_{i,25}^{(26-1)}| = 26$

$a_{26,26} = \max_i |a_{i,26}^{(27-1)}| = 27$

$a_{27,27} = \max_i |a_{i,27}^{(28-1)}| = 28$

$a_{28,28} = \max_i |a_{i,28}^{(29-1)}| = 29$

$$a_{29,29} = \max_i |a_{i,29}^{(30-1)}| = 30$$
$$a_{30,30} = \max_i |a_{i,30}^{(31-1)}| = 31$$
$$a_{31,31} = \max_i |a_{i,31}^{(32-1)}| = 32$$
$$a_{32,32} = \max_i |a_{i,32}^{(33-1)}| = 33$$
$$a_{33,33} = \max_i |a_{i,33}^{(34-1)}| = 34$$
$$a_{34,34} = \max_i |a_{i,34}^{(35-1)}| = 35$$
$$a_{35,35} = \max_i |a_{i,35}^{(36-1)}| = 36$$
$$a_{36,36} = \max_i |a_{i,36}^{(37-1)}| = 37$$
$$a_{37,37} = \max_i |a_{i,37}^{(38-1)}| = 38$$
$$a_{38,38} = \max_i |a_{i,38}^{(39-1)}| = 39$$
$$a_{39,39} = \max_i |a_{i,39}^{(40-1)}| = 40$$
$$a_{40,40} = \max_i |a_{i,40}^{(41-1)}| = 41$$
$$a_{41,41} = \max_i |a_{i,41}^{(42-1)}| = 42$$
$$a_{42,42} = \max_i |a_{i,42}^{(43-1)}| = 43$$
$$a_{43,43} = \max_i |a_{i,43}^{(44-1)}| = 44$$
$$a_{44,44} = \max_i |a_{i,44}^{(45-1)}| = 45$$
$$a_{45,45} = \max_i |a_{i,45}^{(46-1)}| = 46$$
$$a_{46,46} = \max_i |a_{i,46}^{(47-1)}| = 47$$
$$a_{47,47} = \max_i |a_{i,47}^{(48-1)}| = 48$$
$$a_{48,48} = \max_i |a_{i,48}^{(49-1)}| = 49$$
$$a_{49,49} = \max_i |a_{i,49}^{(50-1)}| = 50$$
$$a_{50,50} = \max_i |a_{i,50}^{(51-1)}| = 51$$

$$\bar{x} = \begin{pmatrix} -1324.00 \\ -1321.50 \\ -878.67 \\ -656.75 \\ -523.20 \\ -433.83 \\ -369.71 \\ -321.38 \\ -283.56 \\ -253.10 \\ -228.00 \\ -206.92 \\ -188.92 \\ -173.36 \\ -159.73 \\ -147.69 \\ -136.94 \\ -127.28 \\ -118.53 \\ -110.55 \\ -103.24 \\ -96.50 \\ -90.26 \\ -84.46 \\ -79.04 \\ -73.96 \\ -69.19 \\ -64.68 \\ -60.41 \\ -56.37 \\ -52.52 \\ -48.84 \\ -45.33 \\ -41.97 \\ -38.74 \\ -35.64 \\ -32.65 \\ -29.76 \\ -26.97 \\ -24.28 \\ -21.66 \\ -19.12 \\ -16.65 \\ -14.25 \\ -11.91 \\ -9.63 \\ -7.40 \\ -5.23 \\ -3.10 \end{pmatrix}$$

87

$$\Delta A = 1.5511187532873822e66$$

43 $N = 52$

$A = \{a_{i,j} | i = 0..\bar{5}2, j = 0..\bar{5}3\}$

$a_{0,0} = \max_i |a_{i,0}^{(1-1)}| = 1$

$a_{1,1} = \max_i |a_{i,1}^{(2-1)}| = 2$

$a_{2,2} = \max_i |a_{i,2}^{(3-1)}| = 3$

$a_{3,3} = \max_i |a_{i,3}^{(4-1)}| = 4$

$a_{4,4} = \max_i |a_{i,4}^{(5-1)}| = 5$

$a_{5,5} = \max_i |a_{i,5}^{(6-1)}| = 6$

$a_{6,6} = \max_i |a_{i,6}^{(7-1)}| = 7$

$a_{7,7} = \max_i |a_{i,7}^{(8-1)}| = 8$

$a_{8,8} = \max_i |a_{i,8}^{(9-1)}| = 9$

$a_{9,9} = \max_i |a_{i,9}^{(10-1)}| = 10$

$a_{10,10} = \max_i |a_{i,10}^{(11-1)}| = 11$

$a_{11,11} = \max_i |a_{i,11}^{(12-1)}| = 12$

$a_{12,12} = \max_i |a_{i,12}^{(13-1)}| = 13$

$a_{13,13} = \max_i |a_{i,13}^{(14-1)}| = 14$

$a_{14,14} = \max_i |a_{i,14}^{(15-1)}| = 15$

$a_{15,15} = \max_i |a_{i,15}^{(16-1)}| = 16$

$a_{16,16} = \max_i |a_{i,16}^{(17-1)}| = 17$

$a_{17,17} = \max_i |a_{i,17}^{(18-1)}| = 18$

$a_{18,18} = \max_i |a_{i,18}^{(19-1)}| = 19$

$a_{19,19} = \max_i |a_{i,19}^{(20-1)}| = 20$

$a_{20,20} = \max_i |a_{i,20}^{(21-1)}| = 21$

$a_{21,21} = \max_i |a_{i,21}^{(22-1)}| = 22$

$a_{22,22} = \max_i |a_{i,22}^{(23-1)}| = 23$

$a_{23,23} = \max_i |a_{i,23}^{(24-1)}| = 24$

$a_{24,24} = \max_i |a_{i,24}^{(25-1)}| = 25$

$a_{25,25} = \max_i |a_{i,25}^{(26-1)}| = 26$

$a_{26,26} = \max_i |a_{i,26}^{(27-1)}| = 27$

$a_{27,27} = \max_i |a_{i,27}^{(28-1)}| = 28$

$a_{28,28} = \max_i |a_{i,28}^{(29-1)}| = 29$

$$a_{29,29} = \max_i |a_{i,29}^{(30-1)}| = 30$$
$$a_{30,30} = \max_i |a_{i,30}^{(31-1)}| = 31$$
$$a_{31,31} = \max_i |a_{i,31}^{(32-1)}| = 32$$
$$a_{32,32} = \max_i |a_{i,32}^{(33-1)}| = 33$$
$$a_{33,33} = \max_i |a_{i,33}^{(34-1)}| = 34$$
$$a_{34,34} = \max_i |a_{i,34}^{(35-1)}| = 35$$
$$a_{35,35} = \max_i |a_{i,35}^{(36-1)}| = 36$$
$$a_{36,36} = \max_i |a_{i,36}^{(37-1)}| = 37$$
$$a_{37,37} = \max_i |a_{i,37}^{(38-1)}| = 38$$
$$a_{38,38} = \max_i |a_{i,38}^{(39-1)}| = 39$$
$$a_{39,39} = \max_i |a_{i,39}^{(40-1)}| = 40$$
$$a_{40,40} = \max_i |a_{i,40}^{(41-1)}| = 41$$
$$a_{41,41} = \max_i |a_{i,41}^{(42-1)}| = 42$$
$$a_{42,42} = \max_i |a_{i,42}^{(43-1)}| = 43$$
$$a_{43,43} = \max_i |a_{i,43}^{(44-1)}| = 44$$
$$a_{44,44} = \max_i |a_{i,44}^{(45-1)}| = 45$$
$$a_{45,45} = \max_i |a_{i,45}^{(46-1)}| = 46$$
$$a_{46,46} = \max_i |a_{i,46}^{(47-1)}| = 47$$
$$a_{47,47} = \max_i |a_{i,47}^{(48-1)}| = 48$$
$$a_{48,48} = \max_i |a_{i,48}^{(49-1)}| = 49$$
$$a_{49,49} = \max_i |a_{i,49}^{(50-1)}| = 50$$
$$a_{50,50} = \max_i |a_{i,50}^{(51-1)}| = 51$$
$$a_{51,51} = \max_i |a_{i,51}^{(52-1)}| = 52$$

$$\bar{x} = \begin{pmatrix} -1376.00 \\ -1373.50 \\ -913.33 \\ -682.75 \\ -544.00 \\ -451.17 \\ -384.57 \\ -334.38 \\ -295.11 \\ -263.50 \\ -237.45 \\ -215.58 \\ -196.92 \\ -180.79 \\ -166.67 \\ -154.19 \\ -143.06 \\ -133.06 \\ -124.00 \\ -115.75 \\ -108.19 \\ -101.23 \\ -94.78 \\ -88.79 \\ -83.20 \\ -77.96 \\ -73.04 \\ -68.39 \\ -64.00 \\ -59.83 \\ -55.87 \\ -52.09 \\ -48.48 \\ -45.03 \\ -41.71 \\ -38.53 \\ -35.46 \\ -32.50 \\ -29.64 \\ -26.88 \\ -24.20 \\ -21.60 \\ -19.07 \\ -16.61 \\ -14.22 \\ -11.89 \\ -9.62 \\ -7.40 \\ -5.22 \end{pmatrix}$$

$$\Delta A = 8.065817517094388e67$$

44 $\quad N = 53$

$A = \{a_{i,j} | i = 0..\bar{5}3, j = 0..\bar{5}4\}$

$a_{0,0} = \max_i |a_{i,0}^{(1-1)}| = 1$

$a_{1,1} = \max_i |a_{i,1}^{(2-1)}| = 2$

$a_{2,2} = \max_i |a_{i,2}^{(3-1)}| = 3$

$a_{3,3} = \max_i |a_{i,3}^{(4-1)}| = 4$

$a_{4,4} = \max_i |a_{i,4}^{(5-1)}| = 5$

$a_{5,5} = \max_i |a_{i,5}^{(6-1)}| = 6$

$a_{6,6} = \max_i |a_{i,6}^{(7-1)}| = 7$

$a_{7,7} = \max_i |a_{i,7}^{(8-1)}| = 8$

$a_{8,8} = \max_i |a_{i,8}^{(9-1)}| = 9$

$a_{9,9} = \max_i |a_{i,9}^{(10-1)}| = 10$

$a_{10,10} = \max_i |a_{i,10}^{(11-1)}| = 11$

$a_{11,11} = \max_i |a_{i,11}^{(12-1)}| = 12$

$a_{12,12} = \max_i |a_{i,12}^{(13-1)}| = 13$

$a_{13,13} = \max_i |a_{i,13}^{(14-1)}| = 14$

$a_{14,14} = \max_i |a_{i,14}^{(15-1)}| = 15$

$a_{15,15} = \max_i |a_{i,15}^{(16-1)}| = 16$

$a_{16,16} = \max_i |a_{i,16}^{(17-1)}| = 17$

$a_{17,17} = \max_i |a_{i,17}^{(18-1)}| = 18$

$a_{18,18} = \max_i |a_{i,18}^{(19-1)}| = 19$

$a_{19,19} = \max_i |a_{i,19}^{(20-1)}| = 20$

$a_{20,20} = \max_i |a_{i,20}^{(21-1)}| = 21$

$a_{21,21} = \max_i |a_{i,21}^{(22-1)}| = 22$

$a_{22,22} = \max_i |a_{i,22}^{(23-1)}| = 23$

$a_{23,23} = \max_i |a_{i,23}^{(24-1)}| = 24$

$a_{24,24} = \max_i |a_{i,24}^{(25-1)}| = 25$

$a_{25,25} = \max_i |a_{i,25}^{(26-1)}| = 26$

$a_{26,26} = \max_i |a_{i,26}^{(27-1)}| = 27$

$a_{27,27} = \max_i |a_{i,27}^{(28-1)}| = 28$

$a_{28,28} = \max_i |a_{i,28}^{(29-1)}| = 29$

$$a_{29,29} = \max_i |a_{i,29}^{(30-1)}| = 30$$
$$a_{30,30} = \max_i |a_{i,30}^{(31-1)}| = 31$$
$$a_{31,31} = \max_i |a_{i,31}^{(32-1)}| = 32$$
$$a_{32,32} = \max_i |a_{i,32}^{(33-1)}| = 33$$
$$a_{33,33} = \max_i |a_{i,33}^{(34-1)}| = 34$$
$$a_{34,34} = \max_i |a_{i,34}^{(35-1)}| = 35$$
$$a_{35,35} = \max_i |a_{i,35}^{(36-1)}| = 36$$
$$a_{36,36} = \max_i |a_{i,36}^{(37-1)}| = 37$$
$$a_{37,37} = \max_i |a_{i,37}^{(38-1)}| = 38$$
$$a_{38,38} = \max_i |a_{i,38}^{(39-1)}| = 39$$
$$a_{39,39} = \max_i |a_{i,39}^{(40-1)}| = 40$$
$$a_{40,40} = \max_i |a_{i,40}^{(41-1)}| = 41$$
$$a_{41,41} = \max_i |a_{i,41}^{(42-1)}| = 42$$
$$a_{42,42} = \max_i |a_{i,42}^{(43-1)}| = 43$$
$$a_{43,43} = \max_i |a_{i,43}^{(44-1)}| = 44$$
$$a_{44,44} = \max_i |a_{i,44}^{(45-1)}| = 45$$
$$a_{45,45} = \max_i |a_{i,45}^{(46-1)}| = 46$$
$$a_{46,46} = \max_i |a_{i,46}^{(47-1)}| = 47$$
$$a_{47,47} = \max_i |a_{i,47}^{(48-1)}| = 48$$
$$a_{48,48} = \max_i |a_{i,48}^{(49-1)}| = 49$$
$$a_{49,49} = \max_i |a_{i,49}^{(50-1)}| = 50$$
$$a_{50,50} = \max_i |a_{i,50}^{(51-1)}| = 51$$
$$a_{51,51} = \max_i |a_{i,51}^{(52-1)}| = 52$$
$$a_{52,52} = \max_i |a_{i,52}^{(53-1)}| = 53$$

$$\bar{x} = \begin{pmatrix} -1429.00 \\ -1426.50 \\ -948.67 \\ -709.25 \\ -565.20 \\ -468.83 \\ -399.71 \\ -347.62 \\ -306.89 \\ -274.10 \\ -247.09 \\ -224.42 \\ -205.08 \\ -188.36 \\ -173.73 \\ -160.81 \\ -149.29 \\ -138.94 \\ -129.58 \\ -121.05 \\ -113.24 \\ -106.05 \\ -99.39 \\ -93.21 \\ -87.44 \\ -82.04 \\ -76.96 \\ -72.18 \\ -67.66 \\ -63.37 \\ -59.29 \\ -55.41 \\ -51.70 \\ -48.15 \\ -44.74 \\ -41.47 \\ -38.32 \\ -35.29 \\ -32.36 \\ -29.53 \\ -26.78 \\ -24.12 \\ -21.53 \\ -19.02 \\ -16.58 \\ -14.20 \\ -11.87 \\ -9.60 \\ -7.39 \end{pmatrix}$$

$$\Delta A = 4.2748832840600255e69$$

45 $\quad N = 54$

$A = \{a_{i,j} | i = 0..\bar{5}4, j = 0..\bar{5}5\}$

$\qquad a_{0,0} = \max_i |a_{i,0}^{(1-1)}| = 1$

$\qquad a_{1,1} = \max_i |a_{i,1}^{(2-1)}| = 2$

$\qquad a_{2,2} = \max_i |a_{i,2}^{(3-1)}| = 3$

$\qquad a_{3,3} = \max_i |a_{i,3}^{(4-1)}| = 4$

$\qquad a_{4,4} = \max_i |a_{i,4}^{(5-1)}| = 5$

$\qquad a_{5,5} = \max_i |a_{i,5}^{(6-1)}| = 6$

$\qquad a_{6,6} = \max_i |a_{i,6}^{(7-1)}| = 7$

$\qquad a_{7,7} = \max_i |a_{i,7}^{(8-1)}| = 8$

$\qquad a_{8,8} = \max_i |a_{i,8}^{(9-1)}| = 9$

$\qquad a_{9,9} = \max_i |a_{i,9}^{(10-1)}| = 10$

$\qquad a_{10,10} = \max_i |a_{i,10}^{(11-1)}| = 11$

$\qquad a_{11,11} = \max_i |a_{i,11}^{(12-1)}| = 12$

$\qquad a_{12,12} = \max_i |a_{i,12}^{(13-1)}| = 13$

$\qquad a_{13,13} = \max_i |a_{i,13}^{(14-1)}| = 14$

$\qquad a_{14,14} = \max_i |a_{i,14}^{(15-1)}| = 15$

$\qquad a_{15,15} = \max_i |a_{i,15}^{(16-1)}| = 16$

$\qquad a_{16,16} = \max_i |a_{i,16}^{(17-1)}| = 17$

$\qquad a_{17,17} = \max_i |a_{i,17}^{(18-1)}| = 18$

$\qquad a_{18,18} = \max_i |a_{i,18}^{(19-1)}| = 19$

$\qquad a_{19,19} = \max_i |a_{i,19}^{(20-1)}| = 20$

$\qquad a_{20,20} = \max_i |a_{i,20}^{(21-1)}| = 21$

$\qquad a_{21,21} = \max_i |a_{i,21}^{(22-1)}| = 22$

$\qquad a_{22,22} = \max_i |a_{i,22}^{(23-1)}| = 23$

$\qquad a_{23,23} = \max_i |a_{i,23}^{(24-1)}| = 24$

$\qquad a_{24,24} = \max_i |a_{i,24}^{(25-1)}| = 25$

$\qquad a_{25,25} = \max_i |a_{i,25}^{(26-1)}| = 26$

$\qquad a_{26,26} = \max_i |a_{i,26}^{(27-1)}| = 27$

$\qquad a_{27,27} = \max_i |a_{i,27}^{(28-1)}| = 28$

$\qquad a_{28,28} = \max_i |a_{i,28}^{(29-1)}| = 29$

$$a_{29,29} = \max_i |a_{i,29}^{(30-1)}| = 30$$
$$a_{30,30} = \max_i |a_{i,30}^{(31-1)}| = 31$$
$$a_{31,31} = \max_i |a_{i,31}^{(32-1)}| = 32$$
$$a_{32,32} = \max_i |a_{i,32}^{(33-1)}| = 33$$
$$a_{33,33} = \max_i |a_{i,33}^{(34-1)}| = 34$$
$$a_{34,34} = \max_i |a_{i,34}^{(35-1)}| = 35$$
$$a_{35,35} = \max_i |a_{i,35}^{(36-1)}| = 36$$
$$a_{36,36} = \max_i |a_{i,36}^{(37-1)}| = 37$$
$$a_{37,37} = \max_i |a_{i,37}^{(38-1)}| = 38$$
$$a_{38,38} = \max_i |a_{i,38}^{(39-1)}| = 39$$
$$a_{39,39} = \max_i |a_{i,39}^{(40-1)}| = 40$$
$$a_{40,40} = \max_i |a_{i,40}^{(41-1)}| = 41$$
$$a_{41,41} = \max_i |a_{i,41}^{(42-1)}| = 42$$
$$a_{42,42} = \max_i |a_{i,42}^{(43-1)}| = 43$$
$$a_{43,43} = \max_i |a_{i,43}^{(44-1)}| = 44$$
$$a_{44,44} = \max_i |a_{i,44}^{(45-1)}| = 45$$
$$a_{45,45} = \max_i |a_{i,45}^{(46-1)}| = 46$$
$$a_{46,46} = \max_i |a_{i,46}^{(47-1)}| = 47$$
$$a_{47,47} = \max_i |a_{i,47}^{(48-1)}| = 48$$
$$a_{48,48} = \max_i |a_{i,48}^{(49-1)}| = 49$$
$$a_{49,49} = \max_i |a_{i,49}^{(50-1)}| = 50$$
$$a_{50,50} = \max_i |a_{i,50}^{(51-1)}| = 51$$
$$a_{51,51} = \max_i |a_{i,51}^{(52-1)}| = 52$$
$$a_{52,52} = \max_i |a_{i,52}^{(53-1)}| = 53$$
$$a_{53,53} = \max_i |a_{i,53}^{(54-1)}| = 54$$

$$\bar{x} = \begin{pmatrix} -1483.00 \\ -1480.50 \\ -984.67 \\ -736.25 \\ -586.80 \\ -486.83 \\ -415.14 \\ -361.12 \\ -318.89 \\ -284.90 \\ -256.91 \\ -233.42 \\ -213.38 \\ -196.07 \\ -180.93 \\ -167.56 \\ -155.65 \\ -144.94 \\ -135.26 \\ -126.45 \\ -118.38 \\ -110.95 \\ -104.09 \\ -97.71 \\ -91.76 \\ -86.19 \\ -80.96 \\ -76.04 \\ -71.38 \\ -66.97 \\ -62.77 \\ -58.78 \\ -54.97 \\ -51.32 \\ -47.83 \\ -44.47 \\ -41.24 \\ -38.13 \\ -35.13 \\ -32.23 \\ -29.41 \\ -26.69 \\ -24.05 \\ -21.48 \\ -18.98 \\ -16.54 \\ -14.17 \\ -11.85 \\ -9.59 \end{pmatrix}$$

$$\Delta A = 2.308436973392414e71$$

46 $\quad N = 55$

$A = \{a_{i,j} | i = 0..\overline{55}, j = 0..\overline{56}\}$

$\quad a_{0,0} = \max_i |a_{i,0}^{(1-1)}| = 1$

$\quad a_{1,1} = \max_i |a_{i,1}^{(2-1)}| = 2$

$\quad a_{2,2} = \max_i |a_{i,2}^{(3-1)}| = 3$

$\quad a_{3,3} = \max_i |a_{i,3}^{(4-1)}| = 4$

$\quad a_{4,4} = \max_i |a_{i,4}^{(5-1)}| = 5$

$\quad a_{5,5} = \max_i |a_{i,5}^{(6-1)}| = 6$

$\quad a_{6,6} = \max_i |a_{i,6}^{(7-1)}| = 7$

$\quad a_{7,7} = \max_i |a_{i,7}^{(8-1)}| = 8$

$\quad a_{8,8} = \max_i |a_{i,8}^{(9-1)}| = 9$

$\quad a_{9,9} = \max_i |a_{i,9}^{(10-1)}| = 10$

$\quad a_{10,10} = \max_i |a_{i,10}^{(11-1)}| = 11$

$\quad a_{11,11} = \max_i |a_{i,11}^{(12-1)}| = 12$

$\quad a_{12,12} = \max_i |a_{i,12}^{(13-1)}| = 13$

$\quad a_{13,13} = \max_i |a_{i,13}^{(14-1)}| = 14$

$\quad a_{14,14} = \max_i |a_{i,14}^{(15-1)}| = 15$

$\quad a_{15,15} = \max_i |a_{i,15}^{(16-1)}| = 16$

$\quad a_{16,16} = \max_i |a_{i,16}^{(17-1)}| = 17$

$\quad a_{17,17} = \max_i |a_{i,17}^{(18-1)}| = 18$

$\quad a_{18,18} = \max_i |a_{i,18}^{(19-1)}| = 19$

$\quad a_{19,19} = \max_i |a_{i,19}^{(20-1)}| = 20$

$\quad a_{20,20} = \max_i |a_{i,20}^{(21-1)}| = 21$

$\quad a_{21,21} = \max_i |a_{i,21}^{(22-1)}| = 22$

$\quad a_{22,22} = \max_i |a_{i,22}^{(23-1)}| = 23$

$\quad a_{23,23} = \max_i |a_{i,23}^{(24-1)}| = 24$

$\quad a_{24,24} = \max_i |a_{i,24}^{(25-1)}| = 25$

$\quad a_{25,25} = \max_i |a_{i,25}^{(26-1)}| = 26$

$\quad a_{26,26} = \max_i |a_{i,26}^{(27-1)}| = 27$

$\quad a_{27,27} = \max_i |a_{i,27}^{(28-1)}| = 28$

$\quad a_{28,28} = \max_i |a_{i,28}^{(29-1)}| = 29$

$$a_{29,29} = \max_i |a_{i,29}^{(30-1)}| = 30$$
$$a_{30,30} = \max_i |a_{i,30}^{(31-1)}| = 31$$
$$a_{31,31} = \max_i |a_{i,31}^{(32-1)}| = 32$$
$$a_{32,32} = \max_i |a_{i,32}^{(33-1)}| = 33$$
$$a_{33,33} = \max_i |a_{i,33}^{(34-1)}| = 34$$
$$a_{34,34} = \max_i |a_{i,34}^{(35-1)}| = 35$$
$$a_{35,35} = \max_i |a_{i,35}^{(36-1)}| = 36$$
$$a_{36,36} = \max_i |a_{i,36}^{(37-1)}| = 37$$
$$a_{37,37} = \max_i |a_{i,37}^{(38-1)}| = 38$$
$$a_{38,38} = \max_i |a_{i,38}^{(39-1)}| = 39$$
$$a_{39,39} = \max_i |a_{i,39}^{(40-1)}| = 40$$
$$a_{40,40} = \max_i |a_{i,40}^{(41-1)}| = 41$$
$$a_{41,41} = \max_i |a_{i,41}^{(42-1)}| = 42$$
$$a_{42,42} = \max_i |a_{i,42}^{(43-1)}| = 43$$
$$a_{43,43} = \max_i |a_{i,43}^{(44-1)}| = 44$$
$$a_{44,44} = \max_i |a_{i,44}^{(45-1)}| = 45$$
$$a_{45,45} = \max_i |a_{i,45}^{(46-1)}| = 46$$
$$a_{46,46} = \max_i |a_{i,46}^{(47-1)}| = 47$$
$$a_{47,47} = \max_i |a_{i,47}^{(48-1)}| = 48$$
$$a_{48,48} = \max_i |a_{i,48}^{(49-1)}| = 49$$
$$a_{49,49} = \max_i |a_{i,49}^{(50-1)}| = 50$$
$$a_{50,50} = \max_i |a_{i,50}^{(51-1)}| = 51$$
$$a_{51,51} = \max_i |a_{i,51}^{(52-1)}| = 52$$
$$a_{52,52} = \max_i |a_{i,52}^{(53-1)}| = 53$$
$$a_{53,53} = \max_i |a_{i,53}^{(54-1)}| = 54$$
$$a_{54,54} = \max_i |a_{i,54}^{(55-1)}| = 55$$

$$
\bar{x} = \begin{pmatrix}
-1538.00 \\
-1535.50 \\
-1021.33 \\
-763.75 \\
-608.80 \\
-505.17 \\
-430.86 \\
-374.88 \\
-331.11 \\
-295.90 \\
-266.91 \\
-242.58 \\
-221.85 \\
-203.93 \\
-188.27 \\
-174.44 \\
-162.12 \\
-151.06 \\
-141.05 \\
-131.95 \\
-123.62 \\
-115.95 \\
-108.87 \\
-102.29 \\
-96.16 \\
-90.42 \\
-85.04 \\
-79.96 \\
-75.17 \\
-70.63 \\
-66.32 \\
-62.22 \\
-58.30 \\
-54.56 \\
-50.97 \\
-47.53 \\
-44.22 \\
-41.03 \\
-37.95 \\
-34.98 \\
-32.10 \\
-29.31 \\
-26.60 \\
-23.98 \\
-21.42 \\
-18.93 \\
-16.51 \\
-14.15 \\
-11.84
\end{pmatrix}
$$

$$\Delta A = 1.2696403353658276e73$$

47 $N = 56$

$A = \{a_{i,j} | i = 0..\bar{5}6, j = 0..\bar{5}7\}$

$a_{0,0} = \max_i |a_{i,0}^{(1-1)}| = 1$

$a_{1,1} = \max_i |a_{i,1}^{(2-1)}| = 2$

$a_{2,2} = \max_i |a_{i,2}^{(3-1)}| = 3$

$a_{3,3} = \max_i |a_{i,3}^{(4-1)}| = 4$

$a_{4,4} = \max_i |a_{i,4}^{(5-1)}| = 5$

$a_{5,5} = \max_i |a_{i,5}^{(6-1)}| = 6$

$a_{6,6} = \max_i |a_{i,6}^{(7-1)}| = 7$

$a_{7,7} = \max_i |a_{i,7}^{(8-1)}| = 8$

$a_{8,8} = \max_i |a_{i,8}^{(9-1)}| = 9$

$a_{9,9} = \max_i |a_{i,9}^{(10-1)}| = 10$

$a_{10,10} = \max_i |a_{i,10}^{(11-1)}| = 11$

$a_{11,11} = \max_i |a_{i,11}^{(12-1)}| = 12$

$a_{12,12} = \max_i |a_{i,12}^{(13-1)}| = 13$

$a_{13,13} = \max_i |a_{i,13}^{(14-1)}| = 14$

$a_{14,14} = \max_i |a_{i,14}^{(15-1)}| = 15$

$a_{15,15} = \max_i |a_{i,15}^{(16-1)}| = 16$

$a_{16,16} = \max_i |a_{i,16}^{(17-1)}| = 17$

$a_{17,17} = \max_i |a_{i,17}^{(18-1)}| = 18$

$a_{18,18} = \max_i |a_{i,18}^{(19-1)}| = 19$

$a_{19,19} = \max_i |a_{i,19}^{(20-1)}| = 20$

$a_{20,20} = \max_i |a_{i,20}^{(21-1)}| = 21$

$a_{21,21} = \max_i |a_{i,21}^{(22-1)}| = 22$

$a_{22,22} = \max_i |a_{i,22}^{(23-1)}| = 23$

$a_{23,23} = \max_i |a_{i,23}^{(24-1)}| = 24$

$a_{24,24} = \max_i |a_{i,24}^{(25-1)}| = 25$

$a_{25,25} = \max_i |a_{i,25}^{(26-1)}| = 26$

$a_{26,26} = \max_i |a_{i,26}^{(27-1)}| = 27$

$a_{27,27} = \max_i |a_{i,27}^{(28-1)}| = 28$

$a_{28,28} = \max_i |a_{i,28}^{(29-1)}| = 29$

$$a_{29,29} = \max_i |a_{i,29}^{(30-1)}| = 30$$
$$a_{30,30} = \max_i |a_{i,30}^{(31-1)}| = 31$$
$$a_{31,31} = \max_i |a_{i,31}^{(32-1)}| = 32$$
$$a_{32,32} = \max_i |a_{i,32}^{(33-1)}| = 33$$
$$a_{33,33} = \max_i |a_{i,33}^{(34-1)}| = 34$$
$$a_{34,34} = \max_i |a_{i,34}^{(35-1)}| = 35$$
$$a_{35,35} = \max_i |a_{i,35}^{(36-1)}| = 36$$
$$a_{36,36} = \max_i |a_{i,36}^{(37-1)}| = 37$$
$$a_{37,37} = \max_i |a_{i,37}^{(38-1)}| = 38$$
$$a_{38,38} = \max_i |a_{i,38}^{(39-1)}| = 39$$
$$a_{39,39} = \max_i |a_{i,39}^{(40-1)}| = 40$$
$$a_{40,40} = \max_i |a_{i,40}^{(41-1)}| = 41$$
$$a_{41,41} = \max_i |a_{i,41}^{(42-1)}| = 42$$
$$a_{42,42} = \max_i |a_{i,42}^{(43-1)}| = 43$$
$$a_{43,43} = \max_i |a_{i,43}^{(44-1)}| = 44$$
$$a_{44,44} = \max_i |a_{i,44}^{(45-1)}| = 45$$
$$a_{45,45} = \max_i |a_{i,45}^{(46-1)}| = 46$$
$$a_{46,46} = \max_i |a_{i,46}^{(47-1)}| = 47$$
$$a_{47,47} = \max_i |a_{i,47}^{(48-1)}| = 48$$
$$a_{48,48} = \max_i |a_{i,48}^{(49-1)}| = 49$$
$$a_{49,49} = \max_i |a_{i,49}^{(50-1)}| = 50$$
$$a_{50,50} = \max_i |a_{i,50}^{(51-1)}| = 51$$
$$a_{51,51} = \max_i |a_{i,51}^{(52-1)}| = 52$$
$$a_{52,52} = \max_i |a_{i,52}^{(53-1)}| = 53$$
$$a_{53,53} = \max_i |a_{i,53}^{(54-1)}| = 54$$
$$a_{54,54} = \max_i |a_{i,54}^{(55-1)}| = 55$$
$$a_{55,55} = \max_i |a_{i,55}^{(56-1)}| = 56$$

$$\bar{x} = \begin{pmatrix} -1594.00 \\ -1591.50 \\ -1058.67 \\ -791.75 \\ -631.20 \\ -523.83 \\ -446.86 \\ -388.88 \\ -343.56 \\ -307.10 \\ -277.09 \\ -251.92 \\ -230.46 \\ -211.93 \\ -195.73 \\ -181.44 \\ -168.71 \\ -157.28 \\ -146.95 \\ -137.55 \\ -128.95 \\ -121.05 \\ -113.74 \\ -106.96 \\ -100.64 \\ -94.73 \\ -89.19 \\ -83.96 \\ -79.03 \\ -74.37 \\ -69.94 \\ -65.72 \\ -61.70 \\ -57.85 \\ -54.17 \\ -50.64 \\ -47.24 \\ -43.97 \\ -40.82 \\ -37.78 \\ -34.83 \\ -31.98 \\ -29.21 \\ -26.52 \\ -23.91 \\ -21.37 \\ -18.89 \\ -16.48 \\ -14.12 \end{pmatrix}$$

102

$$\Delta A = 7.109985878048635e74$$

48 $N = 57$

$A = \{a_{i,j} | i = 0..\overline{5}7, j = 0..\overline{5}8\}$

$\qquad a_{0,0} = \max_i |a_{i,0}^{(1-1)}| = 1$

$\qquad a_{1,1} = \max_i |a_{i,1}^{(2-1)}| = 2$

$\qquad a_{2,2} = \max_i |a_{i,2}^{(3-1)}| = 3$

$\qquad a_{3,3} = \max_i |a_{i,3}^{(4-1)}| = 4$

$\qquad a_{4,4} = \max_i |a_{i,4}^{(5-1)}| = 5$

$\qquad a_{5,5} = \max_i |a_{i,5}^{(6-1)}| = 6$

$\qquad a_{6,6} = \max_i |a_{i,6}^{(7-1)}| = 7$

$\qquad a_{7,7} = \max_i |a_{i,7}^{(8-1)}| = 8$

$\qquad a_{8,8} = \max_i |a_{i,8}^{(9-1)}| = 9$

$\qquad a_{9,9} = \max_i |a_{i,9}^{(10-1)}| = 10$

$\qquad a_{10,10} = \max_i |a_{i,10}^{(11-1)}| = 11$

$\qquad a_{11,11} = \max_i |a_{i,11}^{(12-1)}| = 12$

$\qquad a_{12,12} = \max_i |a_{i,12}^{(13-1)}| = 13$

$\qquad a_{13,13} = \max_i |a_{i,13}^{(14-1)}| = 14$

$\qquad a_{14,14} = \max_i |a_{i,14}^{(15-1)}| = 15$

$\qquad a_{15,15} = \max_i |a_{i,15}^{(16-1)}| = 16$

$\qquad a_{16,16} = \max_i |a_{i,16}^{(17-1)}| = 17$

$\qquad a_{17,17} = \max_i |a_{i,17}^{(18-1)}| = 18$

$\qquad a_{18,18} = \max_i |a_{i,18}^{(19-1)}| = 19$

$\qquad a_{19,19} = \max_i |a_{i,19}^{(20-1)}| = 20$

$\qquad a_{20,20} = \max_i |a_{i,20}^{(21-1)}| = 21$

$\qquad a_{21,21} = \max_i |a_{i,21}^{(22-1)}| = 22$

$\qquad a_{22,22} = \max_i |a_{i,22}^{(23-1)}| = 23$

$\qquad a_{23,23} = \max_i |a_{i,23}^{(24-1)}| = 24$

$\qquad a_{24,24} = \max_i |a_{i,24}^{(25-1)}| = 25$

$\qquad a_{25,25} = \max_i |a_{i,25}^{(26-1)}| = 26$

$\qquad a_{26,26} = \max_i |a_{i,26}^{(27-1)}| = 27$

$\qquad a_{27,27} = \max_i |a_{i,27}^{(28-1)}| = 28$

$\qquad a_{28,28} = \max_i |a_{i,28}^{(29-1)}| = 29$

$$a_{29,29} = \max_i |a_{i,29}^{(30-1)}| = 30$$
$$a_{30,30} = \max_i |a_{i,30}^{(31-1)}| = 31$$
$$a_{31,31} = \max_i |a_{i,31}^{(32-1)}| = 32$$
$$a_{32,32} = \max_i |a_{i,32}^{(33-1)}| = 33$$
$$a_{33,33} = \max_i |a_{i,33}^{(34-1)}| = 34$$
$$a_{34,34} = \max_i |a_{i,34}^{(35-1)}| = 35$$
$$a_{35,35} = \max_i |a_{i,35}^{(36-1)}| = 36$$
$$a_{36,36} = \max_i |a_{i,36}^{(37-1)}| = 37$$
$$a_{37,37} = \max_i |a_{i,37}^{(38-1)}| = 38$$
$$a_{38,38} = \max_i |a_{i,38}^{(39-1)}| = 39$$
$$a_{39,39} = \max_i |a_{i,39}^{(40-1)}| = 40$$
$$a_{40,40} = \max_i |a_{i,40}^{(41-1)}| = 41$$
$$a_{41,41} = \max_i |a_{i,41}^{(42-1)}| = 42$$
$$a_{42,42} = \max_i |a_{i,42}^{(43-1)}| = 43$$
$$a_{43,43} = \max_i |a_{i,43}^{(44-1)}| = 44$$
$$a_{44,44} = \max_i |a_{i,44}^{(45-1)}| = 45$$
$$a_{45,45} = \max_i |a_{i,45}^{(46-1)}| = 46$$
$$a_{46,46} = \max_i |a_{i,46}^{(47-1)}| = 47$$
$$a_{47,47} = \max_i |a_{i,47}^{(48-1)}| = 48$$
$$a_{48,48} = \max_i |a_{i,48}^{(49-1)}| = 49$$
$$a_{49,49} = \max_i |a_{i,49}^{(50-1)}| = 50$$
$$a_{50,50} = \max_i |a_{i,50}^{(51-1)}| = 51$$
$$a_{51,51} = \max_i |a_{i,51}^{(52-1)}| = 52$$
$$a_{52,52} = \max_i |a_{i,52}^{(53-1)}| = 53$$
$$a_{53,53} = \max_i |a_{i,53}^{(54-1)}| = 54$$
$$a_{54,54} = \max_i |a_{i,54}^{(55-1)}| = 55$$
$$a_{55,55} = \max_i |a_{i,55}^{(56-1)}| = 56$$
$$a_{56,56} = \max_i |a_{i,56}^{(57-1)}| = 57$$

$$\bar{x} = \begin{pmatrix} -1651.00 \\ -1648.50 \\ -1096.67 \\ -820.25 \\ -654.00 \\ -542.83 \\ -463.14 \\ -403.12 \\ -356.22 \\ -318.50 \\ -287.45 \\ -261.42 \\ -239.23 \\ -220.07 \\ -203.33 \\ -188.56 \\ -175.41 \\ -163.61 \\ -152.95 \\ -143.25 \\ -134.38 \\ -126.23 \\ -118.70 \\ -111.71 \\ -105.20 \\ -99.12 \\ -93.41 \\ -88.04 \\ -82.97 \\ -78.17 \\ -73.61 \\ -69.28 \\ -65.15 \\ -61.21 \\ -57.43 \\ -53.81 \\ -50.32 \\ -46.97 \\ -43.74 \\ -40.63 \\ -37.61 \\ -34.69 \\ -31.86 \\ -29.11 \\ -26.44 \\ -23.85 \\ -21.32 \\ -18.85 \\ -16.45 \end{pmatrix}$$

$$\Delta A = 4.052691950487722e76$$

49 $\quad N = 58$

$A = \{a_{i,j} | i = 0..\bar{5}8, j = 0..\bar{5}9\}$

$a_{0,0} = \max_i |a_{i,0}^{(1-1)}| = 1$

$a_{1,1} = \max_i |a_{i,1}^{(2-1)}| = 2$

$a_{2,2} = \max_i |a_{i,2}^{(3-1)}| = 3$

$a_{3,3} = \max_i |a_{i,3}^{(4-1)}| = 4$

$a_{4,4} = \max_i |a_{i,4}^{(5-1)}| = 5$

$a_{5,5} = \max_i |a_{i,5}^{(6-1)}| = 6$

$a_{6,6} = \max_i |a_{i,6}^{(7-1)}| = 7$

$a_{7,7} = \max_i |a_{i,7}^{(8-1)}| = 8$

$a_{8,8} = \max_i |a_{i,8}^{(9-1)}| = 9$

$a_{9,9} = \max_i |a_{i,9}^{(10-1)}| = 10$

$a_{10,10} = \max_i |a_{i,10}^{(11-1)}| = 11$

$a_{11,11} = \max_i |a_{i,11}^{(12-1)}| = 12$

$a_{12,12} = \max_i |a_{i,12}^{(13-1)}| = 13$

$a_{13,13} = \max_i |a_{i,13}^{(14-1)}| = 14$

$a_{14,14} = \max_i |a_{i,14}^{(15-1)}| = 15$

$a_{15,15} = \max_i |a_{i,15}^{(16-1)}| = 16$

$a_{16,16} = \max_i |a_{i,16}^{(17-1)}| = 17$

$a_{17,17} = \max_i |a_{i,17}^{(18-1)}| = 18$

$a_{18,18} = \max_i |a_{i,18}^{(19-1)}| = 19$

$a_{19,19} = \max_i |a_{i,19}^{(20-1)}| = 20$

$a_{20,20} = \max_i |a_{i,20}^{(21-1)}| = 21$

$a_{21,21} = \max_i |a_{i,21}^{(22-1)}| = 22$

$a_{22,22} = \max_i |a_{i,22}^{(23-1)}| = 23$

$a_{23,23} = \max_i |a_{i,23}^{(24-1)}| = 24$

$a_{24,24} = \max_i |a_{i,24}^{(25-1)}| = 25$

$a_{25,25} = \max_i |a_{i,25}^{(26-1)}| = 26$

$a_{26,26} = \max_i |a_{i,26}^{(27-1)}| = 27$

$a_{27,27} = \max_i |a_{i,27}^{(28-1)}| = 28$

$a_{28,28} = \max_i |a_{i,28}^{(29-1)}| = 29$

$$a_{29,29} = \max_i |a_{i,29}^{(30-1)}| = 30$$
$$a_{30,30} = \max_i |a_{i,30}^{(31-1)}| = 31$$
$$a_{31,31} = \max_i |a_{i,31}^{(32-1)}| = 32$$
$$a_{32,32} = \max_i |a_{i,32}^{(33-1)}| = 33$$
$$a_{33,33} = \max_i |a_{i,33}^{(34-1)}| = 34$$
$$a_{34,34} = \max_i |a_{i,34}^{(35-1)}| = 35$$
$$a_{35,35} = \max_i |a_{i,35}^{(36-1)}| = 36$$
$$a_{36,36} = \max_i |a_{i,36}^{(37-1)}| = 37$$
$$a_{37,37} = \max_i |a_{i,37}^{(38-1)}| = 38$$
$$a_{38,38} = \max_i |a_{i,38}^{(39-1)}| = 39$$
$$a_{39,39} = \max_i |a_{i,39}^{(40-1)}| = 40$$
$$a_{40,40} = \max_i |a_{i,40}^{(41-1)}| = 41$$
$$a_{41,41} = \max_i |a_{i,41}^{(42-1)}| = 42$$
$$a_{42,42} = \max_i |a_{i,42}^{(43-1)}| = 43$$
$$a_{43,43} = \max_i |a_{i,43}^{(44-1)}| = 44$$
$$a_{44,44} = \max_i |a_{i,44}^{(45-1)}| = 45$$
$$a_{45,45} = \max_i |a_{i,45}^{(46-1)}| = 46$$
$$a_{46,46} = \max_i |a_{i,46}^{(47-1)}| = 47$$
$$a_{47,47} = \max_i |a_{i,47}^{(48-1)}| = 48$$
$$a_{48,48} = \max_i |a_{i,48}^{(49-1)}| = 49$$
$$a_{49,49} = \max_i |a_{i,49}^{(50-1)}| = 50$$
$$a_{50,50} = \max_i |a_{i,50}^{(51-1)}| = 51$$
$$a_{51,51} = \max_i |a_{i,51}^{(52-1)}| = 52$$
$$a_{52,52} = \max_i |a_{i,52}^{(53-1)}| = 53$$
$$a_{53,53} = \max_i |a_{i,53}^{(54-1)}| = 54$$
$$a_{54,54} = \max_i |a_{i,54}^{(55-1)}| = 55$$
$$a_{55,55} = \max_i |a_{i,55}^{(56-1)}| = 56$$
$$a_{56,56} = \max_i |a_{i,56}^{(57-1)}| = 57$$
$$a_{57,57} = \max_i |a_{i,57}^{(58-1)}| = 58$$

$$
\bar{x} = \begin{pmatrix}
-1709.00 \\
-1706.50 \\
-1135.33 \\
-849.25 \\
-677.20 \\
-562.17 \\
-479.71 \\
-417.62 \\
-369.11 \\
-330.10 \\
-298.00 \\
-271.08 \\
-248.15 \\
-228.36 \\
-211.07 \\
-195.81 \\
-182.24 \\
-170.06 \\
-159.05 \\
-149.05 \\
-139.90 \\
-131.50 \\
-123.74 \\
-116.54 \\
-109.84 \\
-103.58 \\
-97.70 \\
-92.18 \\
-86.97 \\
-82.03 \\
-77.35 \\
-72.91 \\
-68.67 \\
-64.62 \\
-60.74 \\
-57.03 \\
-53.46 \\
-50.03 \\
-46.72 \\
-43.53 \\
-40.44 \\
-37.45 \\
-34.56 \\
-31.75 \\
-29.02 \\
-26.37 \\
-23.79 \\
-21.27 \\
-18.82 \\
\end{pmatrix}
$$

108

$$\Delta A = 2.350561331282879e78$$

50 $N = 59$

$A = \{a_{i,j} | i = 0..\overline{5}9, j = 0..\overline{6}0\}$

$a_{0,0} = \max_i |a_{i,0}^{(1-1)}| = 1$

$a_{1,1} = \max_i |a_{i,1}^{(2-1)}| = 2$

$a_{2,2} = \max_i |a_{i,2}^{(3-1)}| = 3$

$a_{3,3} = \max_i |a_{i,3}^{(4-1)}| = 4$

$a_{4,4} = \max_i |a_{i,4}^{(5-1)}| = 5$

$a_{5,5} = \max_i |a_{i,5}^{(6-1)}| = 6$

$a_{6,6} = \max_i |a_{i,6}^{(7-1)}| = 7$

$a_{7,7} = \max_i |a_{i,7}^{(8-1)}| = 8$

$a_{8,8} = \max_i |a_{i,8}^{(9-1)}| = 9$

$a_{9,9} = \max_i |a_{i,9}^{(10-1)}| = 10$

$a_{10,10} = \max_i |a_{i,10}^{(11-1)}| = 11$

$a_{11,11} = \max_i |a_{i,11}^{(12-1)}| = 12$

$a_{12,12} = \max_i |a_{i,12}^{(13-1)}| = 13$

$a_{13,13} = \max_i |a_{i,13}^{(14-1)}| = 14$

$a_{14,14} = \max_i |a_{i,14}^{(15-1)}| = 15$

$a_{15,15} = \max_i |a_{i,15}^{(16-1)}| = 16$

$a_{16,16} = \max_i |a_{i,16}^{(17-1)}| = 17$

$a_{17,17} = \max_i |a_{i,17}^{(18-1)}| = 18$

$a_{18,18} = \max_i |a_{i,18}^{(19-1)}| = 19$

$a_{19,19} = \max_i |a_{i,19}^{(20-1)}| = 20$

$a_{20,20} = \max_i |a_{i,20}^{(21-1)}| = 21$

$a_{21,21} = \max_i |a_{i,21}^{(22-1)}| = 22$

$a_{22,22} = \max_i |a_{i,22}^{(23-1)}| = 23$

$a_{23,23} = \max_i |a_{i,23}^{(24-1)}| = 24$

$a_{24,24} = \max_i |a_{i,24}^{(25-1)}| = 25$

$a_{25,25} = \max_i |a_{i,25}^{(26-1)}| = 26$

$a_{26,26} = \max_i |a_{i,26}^{(27-1)}| = 27$

$a_{27,27} = \max_i |a_{i,27}^{(28-1)}| = 28$

$a_{28,28} = \max_i |a_{i,28}^{(29-1)}| = 29$

$$a_{29,29} = \max_i |a_{i,29}^{(30-1)}| = 30$$
$$a_{30,30} = \max_i |a_{i,30}^{(31-1)}| = 31$$
$$a_{31,31} = \max_i |a_{i,31}^{(32-1)}| = 32$$
$$a_{32,32} = \max_i |a_{i,32}^{(33-1)}| = 33$$
$$a_{33,33} = \max_i |a_{i,33}^{(34-1)}| = 34$$
$$a_{34,34} = \max_i |a_{i,34}^{(35-1)}| = 35$$
$$a_{35,35} = \max_i |a_{i,35}^{(36-1)}| = 36$$
$$a_{36,36} = \max_i |a_{i,36}^{(37-1)}| = 37$$
$$a_{37,37} = \max_i |a_{i,37}^{(38-1)}| = 38$$
$$a_{38,38} = \max_i |a_{i,38}^{(39-1)}| = 39$$
$$a_{39,39} = \max_i |a_{i,39}^{(40-1)}| = 40$$
$$a_{40,40} = \max_i |a_{i,40}^{(41-1)}| = 41$$
$$a_{41,41} = \max_i |a_{i,41}^{(42-1)}| = 42$$
$$a_{42,42} = \max_i |a_{i,42}^{(43-1)}| = 43$$
$$a_{43,43} = \max_i |a_{i,43}^{(44-1)}| = 44$$
$$a_{44,44} = \max_i |a_{i,44}^{(45-1)}| = 45$$
$$a_{45,45} = \max_i |a_{i,45}^{(46-1)}| = 46$$
$$a_{46,46} = \max_i |a_{i,46}^{(47-1)}| = 47$$
$$a_{47,47} = \max_i |a_{i,47}^{(48-1)}| = 48$$
$$a_{48,48} = \max_i |a_{i,48}^{(49-1)}| = 49$$
$$a_{49,49} = \max_i |a_{i,49}^{(50-1)}| = 50$$
$$a_{50,50} = \max_i |a_{i,50}^{(51-1)}| = 51$$
$$a_{51,51} = \max_i |a_{i,51}^{(52-1)}| = 52$$
$$a_{52,52} = \max_i |a_{i,52}^{(53-1)}| = 53$$
$$a_{53,53} = \max_i |a_{i,53}^{(54-1)}| = 54$$
$$a_{54,54} = \max_i |a_{i,54}^{(55-1)}| = 55$$
$$a_{55,55} = \max_i |a_{i,55}^{(56-1)}| = 56$$
$$a_{56,56} = \max_i |a_{i,56}^{(57-1)}| = 57$$
$$a_{57,57} = \max_i |a_{i,57}^{(58-1)}| = 58$$
$$a_{58,58} = \max_i |a_{i,58}^{(59-1)}| = 59$$

$$\bar{x} = \begin{pmatrix} -1768.00 \\ -1765.50 \\ -1174.67 \\ -878.75 \\ -700.80 \\ -581.83 \\ -496.57 \\ -432.38 \\ -382.22 \\ -341.90 \\ -308.73 \\ -280.92 \\ -257.23 \\ -236.79 \\ -218.93 \\ -203.19 \\ -189.18 \\ -176.61 \\ -165.26 \\ -154.95 \\ -145.52 \\ -136.86 \\ -128.87 \\ -121.46 \\ -114.56 \\ -108.12 \\ -102.07 \\ -96.39 \\ -91.03 \\ -85.97 \\ -81.16 \\ -76.59 \\ -72.24 \\ -68.09 \\ -64.11 \\ -60.31 \\ -56.65 \\ -53.13 \\ -49.74 \\ -46.48 \\ -43.32 \\ -40.26 \\ -37.30 \\ -34.43 \\ -31.64 \\ -28.93 \\ -26.30 \\ -23.73 \\ -21.22 \end{pmatrix}$$

111

$$\Delta A = 1.3868311854568986e80$$

51 $N = 60$

$A = \{a_{i,j} | i = 0..\overline{60}, j = 0..\overline{61}\}$

$a_{0,0} = \max_i |a_{i,0}^{(1-1)}| = 1$

$a_{1,1} = \max_i |a_{i,1}^{(2-1)}| = 2$

$a_{2,2} = \max_i |a_{i,2}^{(3-1)}| = 3$

$a_{3,3} = \max_i |a_{i,3}^{(4-1)}| = 4$

$a_{4,4} = \max_i |a_{i,4}^{(5-1)}| = 5$

$a_{5,5} = \max_i |a_{i,5}^{(6-1)}| = 6$

$a_{6,6} = \max_i |a_{i,6}^{(7-1)}| = 7$

$a_{7,7} = \max_i |a_{i,7}^{(8-1)}| = 8$

$a_{8,8} = \max_i |a_{i,8}^{(9-1)}| = 9$

$a_{9,9} = \max_i |a_{i,9}^{(10-1)}| = 10$

$a_{10,10} = \max_i |a_{i,10}^{(11-1)}| = 11$

$a_{11,11} = \max_i |a_{i,11}^{(12-1)}| = 12$

$a_{12,12} = \max_i |a_{i,12}^{(13-1)}| = 13$

$a_{13,13} = \max_i |a_{i,13}^{(14-1)}| = 14$

$a_{14,14} = \max_i |a_{i,14}^{(15-1)}| = 15$

$a_{15,15} = \max_i |a_{i,15}^{(16-1)}| = 16$

$a_{16,16} = \max_i |a_{i,16}^{(17-1)}| = 17$

$a_{17,17} = \max_i |a_{i,17}^{(18-1)}| = 18$

$a_{18,18} = \max_i |a_{i,18}^{(19-1)}| = 19$

$a_{19,19} = \max_i |a_{i,19}^{(20-1)}| = 20$

$a_{20,20} = \max_i |a_{i,20}^{(21-1)}| = 21$

$a_{21,21} = \max_i |a_{i,21}^{(22-1)}| = 22$

$a_{22,22} = \max_i |a_{i,22}^{(23-1)}| = 23$

$a_{23,23} = \max_i |a_{i,23}^{(24-1)}| = 24$

$a_{24,24} = \max_i |a_{i,24}^{(25-1)}| = 25$

$a_{25,25} = \max_i |a_{i,25}^{(26-1)}| = 26$

$a_{26,26} = \max_i |a_{i,26}^{(27-1)}| = 27$

$a_{27,27} = \max_i |a_{i,27}^{(28-1)}| = 28$

$a_{28,28} = \max_i |a_{i,28}^{(29-1)}| = 29$

$$a_{29,29} = \max_i |a_{i,29}^{(30-1)}| = 30$$
$$a_{30,30} = \max_i |a_{i,30}^{(31-1)}| = 31$$
$$a_{31,31} = \max_i |a_{i,31}^{(32-1)}| = 32$$
$$a_{32,32} = \max_i |a_{i,32}^{(33-1)}| = 33$$
$$a_{33,33} = \max_i |a_{i,33}^{(34-1)}| = 34$$
$$a_{34,34} = \max_i |a_{i,34}^{(35-1)}| = 35$$
$$a_{35,35} = \max_i |a_{i,35}^{(36-1)}| = 36$$
$$a_{36,36} = \max_i |a_{i,36}^{(37-1)}| = 37$$
$$a_{37,37} = \max_i |a_{i,37}^{(38-1)}| = 38$$
$$a_{38,38} = \max_i |a_{i,38}^{(39-1)}| = 39$$
$$a_{39,39} = \max_i |a_{i,39}^{(40-1)}| = 40$$
$$a_{40,40} = \max_i |a_{i,40}^{(41-1)}| = 41$$
$$a_{41,41} = \max_i |a_{i,41}^{(42-1)}| = 42$$
$$a_{42,42} = \max_i |a_{i,42}^{(43-1)}| = 43$$
$$a_{43,43} = \max_i |a_{i,43}^{(44-1)}| = 44$$
$$a_{44,44} = \max_i |a_{i,44}^{(45-1)}| = 45$$
$$a_{45,45} = \max_i |a_{i,45}^{(46-1)}| = 46$$
$$a_{46,46} = \max_i |a_{i,46}^{(47-1)}| = 47$$
$$a_{47,47} = \max_i |a_{i,47}^{(48-1)}| = 48$$
$$a_{48,48} = \max_i |a_{i,48}^{(49-1)}| = 49$$
$$a_{49,49} = \max_i |a_{i,49}^{(50-1)}| = 50$$
$$a_{50,50} = \max_i |a_{i,50}^{(51-1)}| = 51$$
$$a_{51,51} = \max_i |a_{i,51}^{(52-1)}| = 52$$
$$a_{52,52} = \max_i |a_{i,52}^{(53-1)}| = 53$$
$$a_{53,53} = \max_i |a_{i,53}^{(54-1)}| = 54$$
$$a_{54,54} = \max_i |a_{i,54}^{(55-1)}| = 55$$
$$a_{55,55} = \max_i |a_{i,55}^{(56-1)}| = 56$$
$$a_{56,56} = \max_i |a_{i,56}^{(57-1)}| = 57$$
$$a_{57,57} = \max_i |a_{i,57}^{(58-1)}| = 58$$
$$a_{58,58} = \max_i |a_{i,58}^{(59-1)}| = 59$$
$$a_{59,59} = \max_i |a_{i,59}^{(60-1)}| = 60$$

$$\bar{x} = \begin{pmatrix} -1828.00 \\ -1825.50 \\ -1214.67 \\ -908.75 \\ -724.80 \\ -601.83 \\ -513.71 \\ -447.38 \\ -395.56 \\ -353.90 \\ -319.64 \\ -290.92 \\ -266.46 \\ -245.36 \\ -226.93 \\ -210.69 \\ -196.24 \\ -183.28 \\ -171.58 \\ -160.95 \\ -151.24 \\ -142.32 \\ -134.09 \\ -126.46 \\ -119.36 \\ -112.73 \\ -106.52 \\ -100.68 \\ -95.17 \\ -89.97 \\ -85.03 \\ -80.34 \\ -75.88 \\ -71.62 \\ -67.54 \\ -63.64 \\ -59.89 \\ -56.29 \\ -52.82 \\ -49.48 \\ -46.24 \\ -43.12 \\ -40.09 \\ -37.16 \\ -34.31 \\ -31.54 \\ -28.85 \\ -26.23 \\ -23.67 \end{pmatrix}$$

114

$$\Delta A = 8.320987112741392e81$$

52 $N = 61$

$A = \{a_{i,j} | i = 0..\bar{6}1, j = 0..\bar{6}2\}$

$a_{0,0} = \max_i |a_{i,0}^{(1-1)}| = 1$

$a_{1,1} = \max_i |a_{i,1}^{(2-1)}| = 2$

$a_{2,2} = \max_i |a_{i,2}^{(3-1)}| = 3$

$a_{3,3} = \max_i |a_{i,3}^{(4-1)}| = 4$

$a_{4,4} = \max_i |a_{i,4}^{(5-1)}| = 5$

$a_{5,5} = \max_i |a_{i,5}^{(6-1)}| = 6$

$a_{6,6} = \max_i |a_{i,6}^{(7-1)}| = 7$

$a_{7,7} = \max_i |a_{i,7}^{(8-1)}| = 8$

$a_{8,8} = \max_i |a_{i,8}^{(9-1)}| = 9$

$a_{9,9} = \max_i |a_{i,9}^{(10-1)}| = 10$

$a_{10,10} = \max_i |a_{i,10}^{(11-1)}| = 11$

$a_{11,11} = \max_i |a_{i,11}^{(12-1)}| = 12$

$a_{12,12} = \max_i |a_{i,12}^{(13-1)}| = 13$

$a_{13,13} = \max_i |a_{i,13}^{(14-1)}| = 14$

$a_{14,14} = \max_i |a_{i,14}^{(15-1)}| = 15$

$a_{15,15} = \max_i |a_{i,15}^{(16-1)}| = 16$

$a_{16,16} = \max_i |a_{i,16}^{(17-1)}| = 17$

$a_{17,17} = \max_i |a_{i,17}^{(18-1)}| = 18$

$a_{18,18} = \max_i |a_{i,18}^{(19-1)}| = 19$

$a_{19,19} = \max_i |a_{i,19}^{(20-1)}| = 20$

$a_{20,20} = \max_i |a_{i,20}^{(21-1)}| = 21$

$a_{21,21} = \max_i |a_{i,21}^{(22-1)}| = 22$

$a_{22,22} = \max_i |a_{i,22}^{(23-1)}| = 23$

$a_{23,23} = \max_i |a_{i,23}^{(24-1)}| = 24$

$a_{24,24} = \max_i |a_{i,24}^{(25-1)}| = 25$

$a_{25,25} = \max_i |a_{i,25}^{(26-1)}| = 26$

$a_{26,26} = \max_i |a_{i,26}^{(27-1)}| = 27$

$a_{27,27} = \max_i |a_{i,27}^{(28-1)}| = 28$

$a_{28,28} = \max_i |a_{i,28}^{(29-1)}| = 29$

$$a_{29,29} = \max_i |a_{i,29}^{(30-1)}| = 30$$
$$a_{30,30} = \max_i |a_{i,30}^{(31-1)}| = 31$$
$$a_{31,31} = \max_i |a_{i,31}^{(32-1)}| = 32$$
$$a_{32,32} = \max_i |a_{i,32}^{(33-1)}| = 33$$
$$a_{33,33} = \max_i |a_{i,33}^{(34-1)}| = 34$$
$$a_{34,34} = \max_i |a_{i,34}^{(35-1)}| = 35$$
$$a_{35,35} = \max_i |a_{i,35}^{(36-1)}| = 36$$
$$a_{36,36} = \max_i |a_{i,36}^{(37-1)}| = 37$$
$$a_{37,37} = \max_i |a_{i,37}^{(38-1)}| = 38$$
$$a_{38,38} = \max_i |a_{i,38}^{(39-1)}| = 39$$
$$a_{39,39} = \max_i |a_{i,39}^{(40-1)}| = 40$$
$$a_{40,40} = \max_i |a_{i,40}^{(41-1)}| = 41$$
$$a_{41,41} = \max_i |a_{i,41}^{(42-1)}| = 42$$
$$a_{42,42} = \max_i |a_{i,42}^{(43-1)}| = 43$$
$$a_{43,43} = \max_i |a_{i,43}^{(44-1)}| = 44$$
$$a_{44,44} = \max_i |a_{i,44}^{(45-1)}| = 45$$
$$a_{45,45} = \max_i |a_{i,45}^{(46-1)}| = 46$$
$$a_{46,46} = \max_i |a_{i,46}^{(47-1)}| = 47$$
$$a_{47,47} = \max_i |a_{i,47}^{(48-1)}| = 48$$
$$a_{48,48} = \max_i |a_{i,48}^{(49-1)}| = 49$$
$$a_{49,49} = \max_i |a_{i,49}^{(50-1)}| = 50$$
$$a_{50,50} = \max_i |a_{i,50}^{(51-1)}| = 51$$
$$a_{51,51} = \max_i |a_{i,51}^{(52-1)}| = 52$$
$$a_{52,52} = \max_i |a_{i,52}^{(53-1)}| = 53$$
$$a_{53,53} = \max_i |a_{i,53}^{(54-1)}| = 54$$
$$a_{54,54} = \max_i |a_{i,54}^{(55-1)}| = 55$$
$$a_{55,55} = \max_i |a_{i,55}^{(56-1)}| = 56$$
$$a_{56,56} = \max_i |a_{i,56}^{(57-1)}| = 57$$
$$a_{57,57} = \max_i |a_{i,57}^{(58-1)}| = 58$$
$$a_{58,58} = \max_i |a_{i,58}^{(59-1)}| = 59$$
$$a_{59,59} = \max_i |a_{i,59}^{(60-1)}| = 60$$
$$a_{60,60} = \max_i |a_{i,60}^{(61-1)}| = 61$$

$$\bar{x} = \begin{pmatrix} -1889.00 \\ -1886.50 \\ -1255.33 \\ -939.25 \\ -749.20 \\ -622.17 \\ -531.14 \\ -462.62 \\ -409.11 \\ -366.10 \\ -330.73 \\ -301.08 \\ -275.85 \\ -254.07 \\ -235.07 \\ -218.31 \\ -203.41 \\ -190.06 \\ -178.00 \\ -167.05 \\ -157.05 \\ -147.86 \\ -139.39 \\ -131.54 \\ -124.24 \\ -117.42 \\ -111.04 \\ -105.04 \\ -99.38 \\ -94.03 \\ -88.97 \\ -84.16 \\ -79.58 \\ -75.21 \\ -71.03 \\ -67.03 \\ -63.19 \\ -59.50 \\ -55.95 \\ -52.53 \\ -49.22 \\ -46.02 \\ -42.93 \\ -39.93 \\ -37.02 \\ -34.20 \\ -31.45 \\ -28.77 \\ -26.16 \end{pmatrix}$$

117

$$\Delta A = 5.075802138772248e83$$

53 $N = 62$

$A = \{a_{i,j} | i = 0..\bar{6}2, j = 0..\bar{6}3\}$

$a_{0,0} = \max_i |a_{i,0}^{(1-1)}| = 1$

$a_{1,1} = \max_i |a_{i,1}^{(2-1)}| = 2$

$a_{2,2} = \max_i |a_{i,2}^{(3-1)}| = 3$

$a_{3,3} = \max_i |a_{i,3}^{(4-1)}| = 4$

$a_{4,4} = \max_i |a_{i,4}^{(5-1)}| = 5$

$a_{5,5} = \max_i |a_{i,5}^{(6-1)}| = 6$

$a_{6,6} = \max_i |a_{i,6}^{(7-1)}| = 7$

$a_{7,7} = \max_i |a_{i,7}^{(8-1)}| = 8$

$a_{8,8} = \max_i |a_{i,8}^{(9-1)}| = 9$

$a_{9,9} = \max_i |a_{i,9}^{(10-1)}| = 10$

$a_{10,10} = \max_i |a_{i,10}^{(11-1)}| = 11$

$a_{11,11} = \max_i |a_{i,11}^{(12-1)}| = 12$

$a_{12,12} = \max_i |a_{i,12}^{(13-1)}| = 13$

$a_{13,13} = \max_i |a_{i,13}^{(14-1)}| = 14$

$a_{14,14} = \max_i |a_{i,14}^{(15-1)}| = 15$

$a_{15,15} = \max_i |a_{i,15}^{(16-1)}| = 16$

$a_{16,16} = \max_i |a_{i,16}^{(17-1)}| = 17$

$a_{17,17} = \max_i |a_{i,17}^{(18-1)}| = 18$

$a_{18,18} = \max_i |a_{i,18}^{(19-1)}| = 19$

$a_{19,19} = \max_i |a_{i,19}^{(20-1)}| = 20$

$a_{20,20} = \max_i |a_{i,20}^{(21-1)}| = 21$

$a_{21,21} = \max_i |a_{i,21}^{(22-1)}| = 22$

$a_{22,22} = \max_i |a_{i,22}^{(23-1)}| = 23$

$a_{23,23} = \max_i |a_{i,23}^{(24-1)}| = 24$

$a_{24,24} = \max_i |a_{i,24}^{(25-1)}| = 25$

$a_{25,25} = \max_i |a_{i,25}^{(26-1)}| = 26$

$a_{26,26} = \max_i |a_{i,26}^{(27-1)}| = 27$

$a_{27,27} = \max_i |a_{i,27}^{(28-1)}| = 28$

$a_{28,28} = \max_i |a_{i,28}^{(29-1)}| = 29$

$$a_{29,29} = \max_i |a_{i,29}^{(30-1)}| = 30$$
$$a_{30,30} = \max_i |a_{i,30}^{(31-1)}| = 31$$
$$a_{31,31} = \max_i |a_{i,31}^{(32-1)}| = 32$$
$$a_{32,32} = \max_i |a_{i,32}^{(33-1)}| = 33$$
$$a_{33,33} = \max_i |a_{i,33}^{(34-1)}| = 34$$
$$a_{34,34} = \max_i |a_{i,34}^{(35-1)}| = 35$$
$$a_{35,35} = \max_i |a_{i,35}^{(36-1)}| = 36$$
$$a_{36,36} = \max_i |a_{i,36}^{(37-1)}| = 37$$
$$a_{37,37} = \max_i |a_{i,37}^{(38-1)}| = 38$$
$$a_{38,38} = \max_i |a_{i,38}^{(39-1)}| = 39$$
$$a_{39,39} = \max_i |a_{i,39}^{(40-1)}| = 40$$
$$a_{40,40} = \max_i |a_{i,40}^{(41-1)}| = 41$$
$$a_{41,41} = \max_i |a_{i,41}^{(42-1)}| = 42$$
$$a_{42,42} = \max_i |a_{i,42}^{(43-1)}| = 43$$
$$a_{43,43} = \max_i |a_{i,43}^{(44-1)}| = 44$$
$$a_{44,44} = \max_i |a_{i,44}^{(45-1)}| = 45$$
$$a_{45,45} = \max_i |a_{i,45}^{(46-1)}| = 46$$
$$a_{46,46} = \max_i |a_{i,46}^{(47-1)}| = 47$$
$$a_{47,47} = \max_i |a_{i,47}^{(48-1)}| = 48$$
$$a_{48,48} = \max_i |a_{i,48}^{(49-1)}| = 49$$
$$a_{49,49} = \max_i |a_{i,49}^{(50-1)}| = 50$$
$$a_{50,50} = \max_i |a_{i,50}^{(51-1)}| = 51$$
$$a_{51,51} = \max_i |a_{i,51}^{(52-1)}| = 52$$
$$a_{52,52} = \max_i |a_{i,52}^{(53-1)}| = 53$$
$$a_{53,53} = \max_i |a_{i,53}^{(54-1)}| = 54$$
$$a_{54,54} = \max_i |a_{i,54}^{(55-1)}| = 55$$
$$a_{55,55} = \max_i |a_{i,55}^{(56-1)}| = 56$$
$$a_{56,56} = \max_i |a_{i,56}^{(57-1)}| = 57$$
$$a_{57,57} = \max_i |a_{i,57}^{(58-1)}| = 58$$
$$a_{58,58} = \max_i |a_{i,58}^{(59-1)}| = 59$$
$$a_{59,59} = \max_i |a_{i,59}^{(60-1)}| = 60$$
$$a_{60,60} = \max_i |a_{i,60}^{(61-1)}| = 61$$
$$a_{61,61} = \max_i |a_{i,61}^{(62-1)}| = 62$$

$$\bar{x} = \begin{pmatrix} -1951.00 \\ -1948.50 \\ -1296.67 \\ -970.25 \\ -774.00 \\ -642.83 \\ -548.86 \\ -478.12 \\ -422.89 \\ -378.50 \\ -342.00 \\ -311.42 \\ -285.38 \\ -262.93 \\ -243.33 \\ -226.06 \\ -210.71 \\ -196.94 \\ -184.53 \\ -173.25 \\ -162.95 \\ -153.50 \\ -144.78 \\ -136.71 \\ -129.20 \\ -122.19 \\ -115.63 \\ -109.46 \\ -103.66 \\ -98.17 \\ -92.97 \\ -88.03 \\ -83.33 \\ -78.85 \\ -74.57 \\ -70.47 \\ -66.54 \\ -62.76 \\ -59.13 \\ -55.63 \\ -52.24 \\ -48.98 \\ -45.81 \\ -42.75 \\ -39.78 \\ -36.89 \\ -34.09 \\ -31.35 \\ -28.69 \\ \end{pmatrix}$$

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$$\Delta A = 3.146997326038794e85$$

54 $N = 63$

$A = \{a_{i,j} | i = 0..\bar{6}3, j = 0..\bar{6}4\}$

$\quad a_{0,0} = \max_i |a_{i,0}^{(1-1)}| = 1$

$\quad a_{1,1} = \max_i |a_{i,1}^{(2-1)}| = 2$

$\quad a_{2,2} = \max_i |a_{i,2}^{(3-1)}| = 3$

$\quad a_{3,3} = \max_i |a_{i,3}^{(4-1)}| = 4$

$\quad a_{4,4} = \max_i |a_{i,4}^{(5-1)}| = 5$

$\quad a_{5,5} = \max_i |a_{i,5}^{(6-1)}| = 6$

$\quad a_{6,6} = \max_i |a_{i,6}^{(7-1)}| = 7$

$\quad a_{7,7} = \max_i |a_{i,7}^{(8-1)}| = 8$

$\quad a_{8,8} = \max_i |a_{i,8}^{(9-1)}| = 9$

$\quad a_{9,9} = \max_i |a_{i,9}^{(10-1)}| = 10$

$\quad a_{10,10} = \max_i |a_{i,10}^{(11-1)}| = 11$

$\quad a_{11,11} = \max_i |a_{i,11}^{(12-1)}| = 12$

$\quad a_{12,12} = \max_i |a_{i,12}^{(13-1)}| = 13$

$\quad a_{13,13} = \max_i |a_{i,13}^{(14-1)}| = 14$

$\quad a_{14,14} = \max_i |a_{i,14}^{(15-1)}| = 15$

$\quad a_{15,15} = \max_i |a_{i,15}^{(16-1)}| = 16$

$\quad a_{16,16} = \max_i |a_{i,16}^{(17-1)}| = 17$

$\quad a_{17,17} = \max_i |a_{i,17}^{(18-1)}| = 18$

$\quad a_{18,18} = \max_i |a_{i,18}^{(19-1)}| = 19$

$\quad a_{19,19} = \max_i |a_{i,19}^{(20-1)}| = 20$

$\quad a_{20,20} = \max_i |a_{i,20}^{(21-1)}| = 21$

$\quad a_{21,21} = \max_i |a_{i,21}^{(22-1)}| = 22$

$\quad a_{22,22} = \max_i |a_{i,22}^{(23-1)}| = 23$

$\quad a_{23,23} = \max_i |a_{i,23}^{(24-1)}| = 24$

$\quad a_{24,24} = \max_i |a_{i,24}^{(25-1)}| = 25$

$\quad a_{25,25} = \max_i |a_{i,25}^{(26-1)}| = 26$

$\quad a_{26,26} = \max_i |a_{i,26}^{(27-1)}| = 27$

$\quad a_{27,27} = \max_i |a_{i,27}^{(28-1)}| = 28$

$\quad a_{28,28} = \max_i |a_{i,28}^{(29-1)}| = 29$

$$a_{29,29} = \max_i |a_{i,29}^{(30-1)}| = 30$$
$$a_{30,30} = \max_i |a_{i,30}^{(31-1)}| = 31$$
$$a_{31,31} = \max_i |a_{i,31}^{(32-1)}| = 32$$
$$a_{32,32} = \max_i |a_{i,32}^{(33-1)}| = 33$$
$$a_{33,33} = \max_i |a_{i,33}^{(34-1)}| = 34$$
$$a_{34,34} = \max_i |a_{i,34}^{(35-1)}| = 35$$
$$a_{35,35} = \max_i |a_{i,35}^{(36-1)}| = 36$$
$$a_{36,36} = \max_i |a_{i,36}^{(37-1)}| = 37$$
$$a_{37,37} = \max_i |a_{i,37}^{(38-1)}| = 38$$
$$a_{38,38} = \max_i |a_{i,38}^{(39-1)}| = 39$$
$$a_{39,39} = \max_i |a_{i,39}^{(40-1)}| = 40$$
$$a_{40,40} = \max_i |a_{i,40}^{(41-1)}| = 41$$
$$a_{41,41} = \max_i |a_{i,41}^{(42-1)}| = 42$$
$$a_{42,42} = \max_i |a_{i,42}^{(43-1)}| = 43$$
$$a_{43,43} = \max_i |a_{i,43}^{(44-1)}| = 44$$
$$a_{44,44} = \max_i |a_{i,44}^{(45-1)}| = 45$$
$$a_{45,45} = \max_i |a_{i,45}^{(46-1)}| = 46$$
$$a_{46,46} = \max_i |a_{i,46}^{(47-1)}| = 47$$
$$a_{47,47} = \max_i |a_{i,47}^{(48-1)}| = 48$$
$$a_{48,48} = \max_i |a_{i,48}^{(49-1)}| = 49$$
$$a_{49,49} = \max_i |a_{i,49}^{(50-1)}| = 50$$
$$a_{50,50} = \max_i |a_{i,50}^{(51-1)}| = 51$$
$$a_{51,51} = \max_i |a_{i,51}^{(52-1)}| = 52$$
$$a_{52,52} = \max_i |a_{i,52}^{(53-1)}| = 53$$
$$a_{53,53} = \max_i |a_{i,53}^{(54-1)}| = 54$$
$$a_{54,54} = \max_i |a_{i,54}^{(55-1)}| = 55$$
$$a_{55,55} = \max_i |a_{i,55}^{(56-1)}| = 56$$
$$a_{56,56} = \max_i |a_{i,56}^{(57-1)}| = 57$$
$$a_{57,57} = \max_i |a_{i,57}^{(58-1)}| = 58$$
$$a_{58,58} = \max_i |a_{i,58}^{(59-1)}| = 59$$
$$a_{59,59} = \max_i |a_{i,59}^{(60-1)}| = 60$$
$$a_{60,60} = \max_i |a_{i,60}^{(61-1)}| = 61$$
$$a_{61,61} = \max_i |a_{i,61}^{(62-1)}| = 62$$

$$a_{62,62} = \max_i |a_{i,62}^{(63-1)}| = 63$$

$$\bar{x} = \begin{pmatrix} -2014.00 \\ -2011.50 \\ -1338.67 \\ -1001.75 \\ -799.20 \\ -663.83 \\ -566.86 \\ -493.88 \\ -436.89 \\ -391.10 \\ -353.45 \\ -321.92 \\ -295.08 \\ -271.93 \\ -251.73 \\ -233.94 \\ -218.12 \\ -203.94 \\ -191.16 \\ -179.55 \\ -168.95 \\ -159.23 \\ -150.26 \\ -141.96 \\ -134.24 \\ -127.04 \\ -120.30 \\ -113.96 \\ -108.00 \\ -102.37 \\ -97.03 \\ -91.97 \\ -87.15 \\ -82.56 \\ -78.17 \\ -73.97 \\ -69.95 \\ -66.08 \\ -62.36 \\ -58.78 \\ -55.32 \\ -51.98 \\ -48.74 \\ -45.61 \\ -42.58 \\ -39.63 \\ -36.77 \\ -33.98 \\ -31.27 \end{pmatrix}$$

$$\Delta A = 1.98260831540444e87$$

55 $N = 64$

$A = \{a_{i,j} | i = 0..\bar{6}4, j = 0..\bar{6}5\}$

$a_{0,0} = \max_i |a_{i,0}^{(1-1)}| = 1$

$a_{1,1} = \max_i |a_{i,1}^{(2-1)}| = 2$

$a_{2,2} = \max_i |a_{i,2}^{(3-1)}| = 3$

$a_{3,3} = \max_i |a_{i,3}^{(4-1)}| = 4$

$a_{4,4} = \max_i |a_{i,4}^{(5-1)}| = 5$

$a_{5,5} = \max_i |a_{i,5}^{(6-1)}| = 6$

$a_{6,6} = \max_i |a_{i,6}^{(7-1)}| = 7$

$a_{7,7} = \max_i |a_{i,7}^{(8-1)}| = 8$

$a_{8,8} = \max_i |a_{i,8}^{(9-1)}| = 9$

$a_{9,9} = \max_i |a_{i,9}^{(10-1)}| = 10$

$a_{10,10} = \max_i |a_{i,10}^{(11-1)}| = 11$

$a_{11,11} = \max_i |a_{i,11}^{(12-1)}| = 12$

$a_{12,12} = \max_i |a_{i,12}^{(13-1)}| = 13$

$a_{13,13} = \max_i |a_{i,13}^{(14-1)}| = 14$

$a_{14,14} = \max_i |a_{i,14}^{(15-1)}| = 15$

$a_{15,15} = \max_i |a_{i,15}^{(16-1)}| = 16$

$a_{16,16} = \max_i |a_{i,16}^{(17-1)}| = 17$

$a_{17,17} = \max_i |a_{i,17}^{(18-1)}| = 18$

$a_{18,18} = \max_i |a_{i,18}^{(19-1)}| = 19$

$a_{19,19} = \max_i |a_{i,19}^{(20-1)}| = 20$

$a_{20,20} = \max_i |a_{i,20}^{(21-1)}| = 21$

$a_{21,21} = \max_i |a_{i,21}^{(22-1)}| = 22$

$a_{22,22} = \max_i |a_{i,22}^{(23-1)}| = 23$

$a_{23,23} = \max_i |a_{i,23}^{(24-1)}| = 24$

$a_{24,24} = \max_i |a_{i,24}^{(25-1)}| = 25$

$a_{25,25} = \max_i |a_{i,25}^{(26-1)}| = 26$

$a_{26,26} = \max_i |a_{i,26}^{(27-1)}| = 27$

$a_{27,27} = \max_i |a_{i,27}^{(28-1)}| = 28$

$a_{28,28} = \max_i |a_{i,28}^{(29-1)}| = 29$

$$a_{29,29} = \max_i |a_{i,29}^{(30-1)}| = 30$$
$$a_{30,30} = \max_i |a_{i,30}^{(31-1)}| = 31$$
$$a_{31,31} = \max_i |a_{i,31}^{(32-1)}| = 32$$
$$a_{32,32} = \max_i |a_{i,32}^{(33-1)}| = 33$$
$$a_{33,33} = \max_i |a_{i,33}^{(34-1)}| = 34$$
$$a_{34,34} = \max_i |a_{i,34}^{(35-1)}| = 35$$
$$a_{35,35} = \max_i |a_{i,35}^{(36-1)}| = 36$$
$$a_{36,36} = \max_i |a_{i,36}^{(37-1)}| = 37$$
$$a_{37,37} = \max_i |a_{i,37}^{(38-1)}| = 38$$
$$a_{38,38} = \max_i |a_{i,38}^{(39-1)}| = 39$$
$$a_{39,39} = \max_i |a_{i,39}^{(40-1)}| = 40$$
$$a_{40,40} = \max_i |a_{i,40}^{(41-1)}| = 41$$
$$a_{41,41} = \max_i |a_{i,41}^{(42-1)}| = 42$$
$$a_{42,42} = \max_i |a_{i,42}^{(43-1)}| = 43$$
$$a_{43,43} = \max_i |a_{i,43}^{(44-1)}| = 44$$
$$a_{44,44} = \max_i |a_{i,44}^{(45-1)}| = 45$$
$$a_{45,45} = \max_i |a_{i,45}^{(46-1)}| = 46$$
$$a_{46,46} = \max_i |a_{i,46}^{(47-1)}| = 47$$
$$a_{47,47} = \max_i |a_{i,47}^{(48-1)}| = 48$$
$$a_{48,48} = \max_i |a_{i,48}^{(49-1)}| = 49$$
$$a_{49,49} = \max_i |a_{i,49}^{(50-1)}| = 50$$
$$a_{50,50} = \max_i |a_{i,50}^{(51-1)}| = 51$$
$$a_{51,51} = \max_i |a_{i,51}^{(52-1)}| = 52$$
$$a_{52,52} = \max_i |a_{i,52}^{(53-1)}| = 53$$
$$a_{53,53} = \max_i |a_{i,53}^{(54-1)}| = 54$$
$$a_{54,54} = \max_i |a_{i,54}^{(55-1)}| = 55$$
$$a_{55,55} = \max_i |a_{i,55}^{(56-1)}| = 56$$
$$a_{56,56} = \max_i |a_{i,56}^{(57-1)}| = 57$$
$$a_{57,57} = \max_i |a_{i,57}^{(58-1)}| = 58$$
$$a_{58,58} = \max_i |a_{i,58}^{(59-1)}| = 59$$
$$a_{59,59} = \max_i |a_{i,59}^{(60-1)}| = 60$$
$$a_{60,60} = \max_i |a_{i,60}^{(61-1)}| = 61$$
$$a_{61,61} = \max_i |a_{i,61}^{(62-1)}| = 62$$

$$a_{62,62} = \max_i |a_{i,62}^{(63-1)}| = 63$$
$$a_{63,63} = \max_i |a_{i,63}^{(64-1)}| = 64$$

$$\bar{x} = \begin{pmatrix} -2078.00 \\ -2075.50 \\ -1381.33 \\ -1033.75 \\ -824.80 \\ -685.17 \\ -585.14 \\ -509.88 \\ -451.11 \\ -403.90 \\ -365.09 \\ -332.58 \\ -304.92 \\ -281.07 \\ -260.27 \\ -241.94 \\ -225.65 \\ -211.06 \\ -197.89 \\ -185.95 \\ -175.05 \\ -165.05 \\ -155.83 \\ -147.29 \\ -139.36 \\ -131.96 \\ -125.04 \\ -118.54 \\ -112.41 \\ -106.63 \\ -101.16 \\ -95.97 \\ -91.03 \\ -86.32 \\ -81.83 \\ -77.53 \\ -73.41 \\ -69.45 \\ -65.64 \\ -61.98 \\ -58.44 \\ -55.02 \\ -51.72 \\ -48.52 \\ -45.42 \\ -42.41 \\ -39.49 \\ -36.65 \\ -33.88 \end{pmatrix}$$

$$\Delta A = 1.2688693218588417e89$$

56 $N = 65$

$A = \{a_{i,j} | i = 0..\bar{6}5, j = 0..\bar{6}6\}$

$a_{0,0} = \max_i |a_{i,0}^{(1-1)}| = 1$

$a_{1,1} = \max_i |a_{i,1}^{(2-1)}| = 2$

$a_{2,2} = \max_i |a_{i,2}^{(3-1)}| = 3$

$a_{3,3} = \max_i |a_{i,3}^{(4-1)}| = 4$

$a_{4,4} = \max_i |a_{i,4}^{(5-1)}| = 5$

$a_{5,5} = \max_i |a_{i,5}^{(6-1)}| = 6$

$a_{6,6} = \max_i |a_{i,6}^{(7-1)}| = 7$

$a_{7,7} = \max_i |a_{i,7}^{(8-1)}| = 8$

$a_{8,8} = \max_i |a_{i,8}^{(9-1)}| = 9$

$a_{9,9} = \max_i |a_{i,9}^{(10-1)}| = 10$

$a_{10,10} = \max_i |a_{i,10}^{(11-1)}| = 11$

$a_{11,11} = \max_i |a_{i,11}^{(12-1)}| = 12$

$a_{12,12} = \max_i |a_{i,12}^{(13-1)}| = 13$

$a_{13,13} = \max_i |a_{i,13}^{(14-1)}| = 14$

$a_{14,14} = \max_i |a_{i,14}^{(15-1)}| = 15$

$a_{15,15} = \max_i |a_{i,15}^{(16-1)}| = 16$

$a_{16,16} = \max_i |a_{i,16}^{(17-1)}| = 17$

$a_{17,17} = \max_i |a_{i,17}^{(18-1)}| = 18$

$a_{18,18} = \max_i |a_{i,18}^{(19-1)}| = 19$

$a_{19,19} = \max_i |a_{i,19}^{(20-1)}| = 20$

$a_{20,20} = \max_i |a_{i,20}^{(21-1)}| = 21$

$a_{21,21} = \max_i |a_{i,21}^{(22-1)}| = 22$

$a_{22,22} = \max_i |a_{i,22}^{(23-1)}| = 23$

$a_{23,23} = \max_i |a_{i,23}^{(24-1)}| = 24$

$a_{24,24} = \max_i |a_{i,24}^{(25-1)}| = 25$

$a_{25,25} = \max_i |a_{i,25}^{(26-1)}| = 26$

$a_{26,26} = \max_i |a_{i,26}^{(27-1)}| = 27$

$a_{27,27} = \max_i |a_{i,27}^{(28-1)}| = 28$

$a_{28,28} = \max_i |a_{i,28}^{(29-1)}| = 29$

$$a_{29,29} = \max_i |a_{i,29}^{(30-1)}| = 30$$

$$a_{30,30} = \max_i |a_{i,30}^{(31-1)}| = 31$$

$$a_{31,31} = \max_i |a_{i,31}^{(32-1)}| = 32$$

$$a_{32,32} = \max_i |a_{i,32}^{(33-1)}| = 33$$

$$a_{33,33} = \max_i |a_{i,33}^{(34-1)}| = 34$$

$$a_{34,34} = \max_i |a_{i,34}^{(35-1)}| = 35$$

$$a_{35,35} = \max_i |a_{i,35}^{(36-1)}| = 36$$

$$a_{36,36} = \max_i |a_{i,36}^{(37-1)}| = 37$$

$$a_{37,37} = \max_i |a_{i,37}^{(38-1)}| = 38$$

$$a_{38,38} = \max_i |a_{i,38}^{(39-1)}| = 39$$

$$a_{39,39} = \max_i |a_{i,39}^{(40-1)}| = 40$$

$$a_{40,40} = \max_i |a_{i,40}^{(41-1)}| = 41$$

$$a_{41,41} = \max_i |a_{i,41}^{(42-1)}| = 42$$

$$a_{42,42} = \max_i |a_{i,42}^{(43-1)}| = 43$$

$$a_{43,43} = \max_i |a_{i,43}^{(44-1)}| = 44$$

$$a_{44,44} = \max_i |a_{i,44}^{(45-1)}| = 45$$

$$a_{45,45} = \max_i |a_{i,45}^{(46-1)}| = 46$$

$$a_{46,46} = \max_i |a_{i,46}^{(47-1)}| = 47$$

$$a_{47,47} = \max_i |a_{i,47}^{(48-1)}| = 48$$

$$a_{48,48} = \max_i |a_{i,48}^{(49-1)}| = 49$$

$$a_{49,49} = \max_i |a_{i,49}^{(50-1)}| = 50$$

$$a_{50,50} = \max_i |a_{i,50}^{(51-1)}| = 51$$

$$a_{51,51} = \max_i |a_{i,51}^{(52-1)}| = 52$$

$$a_{52,52} = \max_i |a_{i,52}^{(53-1)}| = 53$$

$$a_{53,53} = \max_i |a_{i,53}^{(54-1)}| = 54$$

$$a_{54,54} = \max_i |a_{i,54}^{(55-1)}| = 55$$

$$a_{55,55} = \max_i |a_{i,55}^{(56-1)}| = 56$$

$$a_{56,56} = \max_i |a_{i,56}^{(57-1)}| = 57$$

$$a_{57,57} = \max_i |a_{i,57}^{(58-1)}| = 58$$

$$a_{58,58} = \max_i |a_{i,58}^{(59-1)}| = 59$$

$$a_{59,59} = \max_i |a_{i,59}^{(60-1)}| = 60$$

$$a_{60,60} = \max_i |a_{i,60}^{(61-1)}| = 61$$

$$a_{61,61} = \max_i |a_{i,61}^{(62-1)}| = 62$$

$$a_{62,62} = \max_i |a_{i,62}^{(63-1)}| = 63$$
$$a_{63,63} = \max_i |a_{i,63}^{(64-1)}| = 64$$
$$a_{64,64} = \max_i |a_{i,64}^{(65-1)}| = 65$$

$$\bar{x} = \begin{pmatrix} -2143.00 \\ -2140.50 \\ -1424.67 \\ -1066.25 \\ -850.80 \\ -706.83 \\ -603.71 \\ -526.12 \\ -465.56 \\ -416.90 \\ -376.91 \\ -343.42 \\ -314.92 \\ -290.36 \\ -268.93 \\ -250.06 \\ -233.29 \\ -218.28 \\ -204.74 \\ -192.45 \\ -181.24 \\ -170.95 \\ -161.48 \\ -152.71 \\ -144.56 \\ -136.96 \\ -129.85 \\ -123.18 \\ -116.90 \\ -110.97 \\ -105.35 \\ -100.03 \\ -94.97 \\ -90.15 \\ -85.54 \\ -81.14 \\ -76.92 \\ -72.87 \\ -68.97 \\ -65.23 \\ -61.61 \\ -58.12 \\ -54.74 \\ -51.48 \\ -48.31 \\ -45.24 \\ -42.26 \\ -39.35 \\ -36.53 \end{pmatrix}$$

$$\Delta A = 8.247650592082472e90$$

57 $N = 66$

$A = \{a_{i,j} | i = 0..\bar{6}6, j = 0..\bar{6}7\}$

$a_{0,0} = \max_i |a_{i,0}^{(1-1)}| = 1$

$a_{1,1} = \max_i |a_{i,1}^{(2-1)}| = 2$

$a_{2,2} = \max_i |a_{i,2}^{(3-1)}| = 3$

$a_{3,3} = \max_i |a_{i,3}^{(4-1)}| = 4$

$a_{4,4} = \max_i |a_{i,4}^{(5-1)}| = 5$

$a_{5,5} = \max_i |a_{i,5}^{(6-1)}| = 6$

$a_{6,6} = \max_i |a_{i,6}^{(7-1)}| = 7$

$a_{7,7} = \max_i |a_{i,7}^{(8-1)}| = 8$

$a_{8,8} = \max_i |a_{i,8}^{(9-1)}| = 9$

$a_{9,9} = \max_i |a_{i,9}^{(10-1)}| = 10$

$a_{10,10} = \max_i |a_{i,10}^{(11-1)}| = 11$

$a_{11,11} = \max_i |a_{i,11}^{(12-1)}| = 12$

$a_{12,12} = \max_i |a_{i,12}^{(13-1)}| = 13$

$a_{13,13} = \max_i |a_{i,13}^{(14-1)}| = 14$

$a_{14,14} = \max_i |a_{i,14}^{(15-1)}| = 15$

$a_{15,15} = \max_i |a_{i,15}^{(16-1)}| = 16$

$a_{16,16} = \max_i |a_{i,16}^{(17-1)}| = 17$

$a_{17,17} = \max_i |a_{i,17}^{(18-1)}| = 18$

$a_{18,18} = \max_i |a_{i,18}^{(19-1)}| = 19$

$a_{19,19} = \max_i |a_{i,19}^{(20-1)}| = 20$

$a_{20,20} = \max_i |a_{i,20}^{(21-1)}| = 21$

$a_{21,21} = \max_i |a_{i,21}^{(22-1)}| = 22$

$a_{22,22} = \max_i |a_{i,22}^{(23-1)}| = 23$

$a_{23,23} = \max_i |a_{i,23}^{(24-1)}| = 24$

$a_{24,24} = \max_i |a_{i,24}^{(25-1)}| = 25$

$a_{25,25} = \max_i |a_{i,25}^{(26-1)}| = 26$

$a_{26,26} = \max_i |a_{i,26}^{(27-1)}| = 27$

$a_{27,27} = \max_i |a_{i,27}^{(28-1)}| = 28$

$a_{28,28} = \max_i |a_{i,28}^{(29-1)}| = 29$

$$a_{29,29} = \max_i |a_{i,29}^{(30-1)}| = 30$$
$$a_{30,30} = \max_i |a_{i,30}^{(31-1)}| = 31$$
$$a_{31,31} = \max_i |a_{i,31}^{(32-1)}| = 32$$
$$a_{32,32} = \max_i |a_{i,32}^{(33-1)}| = 33$$
$$a_{33,33} = \max_i |a_{i,33}^{(34-1)}| = 34$$
$$a_{34,34} = \max_i |a_{i,34}^{(35-1)}| = 35$$
$$a_{35,35} = \max_i |a_{i,35}^{(36-1)}| = 36$$
$$a_{36,36} = \max_i |a_{i,36}^{(37-1)}| = 37$$
$$a_{37,37} = \max_i |a_{i,37}^{(38-1)}| = 38$$
$$a_{38,38} = \max_i |a_{i,38}^{(39-1)}| = 39$$
$$a_{39,39} = \max_i |a_{i,39}^{(40-1)}| = 40$$
$$a_{40,40} = \max_i |a_{i,40}^{(41-1)}| = 41$$
$$a_{41,41} = \max_i |a_{i,41}^{(42-1)}| = 42$$
$$a_{42,42} = \max_i |a_{i,42}^{(43-1)}| = 43$$
$$a_{43,43} = \max_i |a_{i,43}^{(44-1)}| = 44$$
$$a_{44,44} = \max_i |a_{i,44}^{(45-1)}| = 45$$
$$a_{45,45} = \max_i |a_{i,45}^{(46-1)}| = 46$$
$$a_{46,46} = \max_i |a_{i,46}^{(47-1)}| = 47$$
$$a_{47,47} = \max_i |a_{i,47}^{(48-1)}| = 48$$
$$a_{48,48} = \max_i |a_{i,48}^{(49-1)}| = 49$$
$$a_{49,49} = \max_i |a_{i,49}^{(50-1)}| = 50$$
$$a_{50,50} = \max_i |a_{i,50}^{(51-1)}| = 51$$
$$a_{51,51} = \max_i |a_{i,51}^{(52-1)}| = 52$$
$$a_{52,52} = \max_i |a_{i,52}^{(53-1)}| = 53$$
$$a_{53,53} = \max_i |a_{i,53}^{(54-1)}| = 54$$
$$a_{54,54} = \max_i |a_{i,54}^{(55-1)}| = 55$$
$$a_{55,55} = \max_i |a_{i,55}^{(56-1)}| = 56$$
$$a_{56,56} = \max_i |a_{i,56}^{(57-1)}| = 57$$
$$a_{57,57} = \max_i |a_{i,57}^{(58-1)}| = 58$$
$$a_{58,58} = \max_i |a_{i,58}^{(59-1)}| = 59$$
$$a_{59,59} = \max_i |a_{i,59}^{(60-1)}| = 60$$
$$a_{60,60} = \max_i |a_{i,60}^{(61-1)}| = 61$$
$$a_{61,61} = \max_i |a_{i,61}^{(62-1)}| = 62$$

$$a_{62,62} = \max_i |a_{i,62}^{(63-1)}| = 63$$
$$a_{63,63} = \max_i |a_{i,63}^{(64-1)}| = 64$$
$$a_{64,64} = \max_i |a_{i,64}^{(65-1)}| = 65$$
$$a_{65,65} = \max_i |a_{i,65}^{(66-1)}| = 66$$

$$\bar{x} = \begin{pmatrix} -2209.00 \\ -2206.50 \\ -1468.67 \\ -1099.25 \\ -877.20 \\ -728.83 \\ -622.57 \\ -542.62 \\ -480.22 \\ -430.10 \\ -388.91 \\ -354.42 \\ -325.08 \\ -299.79 \\ -277.73 \\ -258.31 \\ -241.06 \\ -225.61 \\ -211.68 \\ -199.05 \\ -187.52 \\ -176.95 \\ -167.22 \\ -158.21 \\ -149.84 \\ -142.04 \\ -134.74 \\ -127.89 \\ -121.45 \\ -115.37 \\ -109.61 \\ -104.16 \\ -98.97 \\ -94.03 \\ -89.31 \\ -84.81 \\ -80.49 \\ -76.34 \\ -72.36 \\ -68.53 \\ -64.83 \\ -61.26 \\ -57.81 \\ -54.48 \\ -51.24 \\ -48.11 \\ -45.06 \\ -42.10 \\ -39.22 \end{pmatrix}$$

136

$$\Delta A = 5.443449390774431e92$$

58 $N = 67$

$A = \{a_{i,j} | i = 0..\overline{67}, j = 0..\overline{68}\}$

$a_{0,0} = \max_i |a_{i,0}^{(1-1)}| = 1$

$a_{1,1} = \max_i |a_{i,1}^{(2-1)}| = 2$

$a_{2,2} = \max_i |a_{i,2}^{(3-1)}| = 3$

$a_{3,3} = \max_i |a_{i,3}^{(4-1)}| = 4$

$a_{4,4} = \max_i |a_{i,4}^{(5-1)}| = 5$

$a_{5,5} = \max_i |a_{i,5}^{(6-1)}| = 6$

$a_{6,6} = \max_i |a_{i,6}^{(7-1)}| = 7$

$a_{7,7} = \max_i |a_{i,7}^{(8-1)}| = 8$

$a_{8,8} = \max_i |a_{i,8}^{(9-1)}| = 9$

$a_{9,9} = \max_i |a_{i,9}^{(10-1)}| = 10$

$a_{10,10} = \max_i |a_{i,10}^{(11-1)}| = 11$

$a_{11,11} = \max_i |a_{i,11}^{(12-1)}| = 12$

$a_{12,12} = \max_i |a_{i,12}^{(13-1)}| = 13$

$a_{13,13} = \max_i |a_{i,13}^{(14-1)}| = 14$

$a_{14,14} = \max_i |a_{i,14}^{(15-1)}| = 15$

$a_{15,15} = \max_i |a_{i,15}^{(16-1)}| = 16$

$a_{16,16} = \max_i |a_{i,16}^{(17-1)}| = 17$

$a_{17,17} = \max_i |a_{i,17}^{(18-1)}| = 18$

$a_{18,18} = \max_i |a_{i,18}^{(19-1)}| = 19$

$a_{19,19} = \max_i |a_{i,19}^{(20-1)}| = 20$

$a_{20,20} = \max_i |a_{i,20}^{(21-1)}| = 21$

$a_{21,21} = \max_i |a_{i,21}^{(22-1)}| = 22$

$a_{22,22} = \max_i |a_{i,22}^{(23-1)}| = 23$

$a_{23,23} = \max_i |a_{i,23}^{(24-1)}| = 24$

$a_{24,24} = \max_i |a_{i,24}^{(25-1)}| = 25$

$a_{25,25} = \max_i |a_{i,25}^{(26-1)}| = 26$

$a_{26,26} = \max_i |a_{i,26}^{(27-1)}| = 27$

$a_{27,27} = \max_i |a_{i,27}^{(28-1)}| = 28$

$a_{28,28} = \max_i |a_{i,28}^{(29-1)}| = 29$

$$a_{29,29} = \max_i |a_{i,29}^{(30-1)}| = 30$$
$$a_{30,30} = \max_i |a_{i,30}^{(31-1)}| = 31$$
$$a_{31,31} = \max_i |a_{i,31}^{(32-1)}| = 32$$
$$a_{32,32} = \max_i |a_{i,32}^{(33-1)}| = 33$$
$$a_{33,33} = \max_i |a_{i,33}^{(34-1)}| = 34$$
$$a_{34,34} = \max_i |a_{i,34}^{(35-1)}| = 35$$
$$a_{35,35} = \max_i |a_{i,35}^{(36-1)}| = 36$$
$$a_{36,36} = \max_i |a_{i,36}^{(37-1)}| = 37$$
$$a_{37,37} = \max_i |a_{i,37}^{(38-1)}| = 38$$
$$a_{38,38} = \max_i |a_{i,38}^{(39-1)}| = 39$$
$$a_{39,39} = \max_i |a_{i,39}^{(40-1)}| = 40$$
$$a_{40,40} = \max_i |a_{i,40}^{(41-1)}| = 41$$
$$a_{41,41} = \max_i |a_{i,41}^{(42-1)}| = 42$$
$$a_{42,42} = \max_i |a_{i,42}^{(43-1)}| = 43$$
$$a_{43,43} = \max_i |a_{i,43}^{(44-1)}| = 44$$
$$a_{44,44} = \max_i |a_{i,44}^{(45-1)}| = 45$$
$$a_{45,45} = \max_i |a_{i,45}^{(46-1)}| = 46$$
$$a_{46,46} = \max_i |a_{i,46}^{(47-1)}| = 47$$
$$a_{47,47} = \max_i |a_{i,47}^{(48-1)}| = 48$$
$$a_{48,48} = \max_i |a_{i,48}^{(49-1)}| = 49$$
$$a_{49,49} = \max_i |a_{i,49}^{(50-1)}| = 50$$
$$a_{50,50} = \max_i |a_{i,50}^{(51-1)}| = 51$$
$$a_{51,51} = \max_i |a_{i,51}^{(52-1)}| = 52$$
$$a_{52,52} = \max_i |a_{i,52}^{(53-1)}| = 53$$
$$a_{53,53} = \max_i |a_{i,53}^{(54-1)}| = 54$$
$$a_{54,54} = \max_i |a_{i,54}^{(55-1)}| = 55$$
$$a_{55,55} = \max_i |a_{i,55}^{(56-1)}| = 56$$
$$a_{56,56} = \max_i |a_{i,56}^{(57-1)}| = 57$$
$$a_{57,57} = \max_i |a_{i,57}^{(58-1)}| = 58$$
$$a_{58,58} = \max_i |a_{i,58}^{(59-1)}| = 59$$
$$a_{59,59} = \max_i |a_{i,59}^{(60-1)}| = 60$$
$$a_{60,60} = \max_i |a_{i,60}^{(61-1)}| = 61$$
$$a_{61,61} = \max_i |a_{i,61}^{(62-1)}| = 62$$

$$a_{62,62} = \max_i |a_{i,62}^{(63-1)}| = 63$$
$$a_{63,63} = \max_i |a_{i,63}^{(64-1)}| = 64$$
$$a_{64,64} = \max_i |a_{i,64}^{(65-1)}| = 65$$
$$a_{65,65} = \max_i |a_{i,65}^{(66-1)}| = 66$$
$$a_{66,66} = \max_i |a_{i,66}^{(67-1)}| = 67$$

$$\bar{x} = \begin{pmatrix} -2276.00 \\ -2273.50 \\ -1513.33 \\ -1132.75 \\ -904.00 \\ -751.17 \\ -641.71 \\ -559.38 \\ -495.11 \\ -443.50 \\ -401.09 \\ -365.58 \\ -335.38 \\ -309.36 \\ -286.67 \\ -266.69 \\ -248.94 \\ -233.06 \\ -218.74 \\ -205.75 \\ -193.90 \\ -183.05 \\ -173.04 \\ -163.79 \\ -155.20 \\ -147.19 \\ -139.70 \\ -132.68 \\ -126.07 \\ -119.83 \\ -113.94 \\ -108.34 \\ -103.03 \\ -97.97 \\ -93.14 \\ -88.53 \\ -84.11 \\ -79.87 \\ -75.79 \\ -71.88 \\ -68.10 \\ -64.45 \\ -60.93 \\ -57.52 \\ -54.22 \\ -51.02 \\ -47.91 \\ -44.90 \\ -41.96 \end{pmatrix}$$

140

$$\Delta A = 3.647111091818868e94$$

59 $N = 68$

$A = \{a_{i,j} | i = 0..\bar{6}8, j = 0..\bar{6}9\}$

$a_{0,0} = \max_i |a_{i,0}^{(1-1)}| = 1$

$a_{1,1} = \max_i |a_{i,1}^{(2-1)}| = 2$

$a_{2,2} = \max_i |a_{i,2}^{(3-1)}| = 3$

$a_{3,3} = \max_i |a_{i,3}^{(4-1)}| = 4$

$a_{4,4} = \max_i |a_{i,4}^{(5-1)}| = 5$

$a_{5,5} = \max_i |a_{i,5}^{(6-1)}| = 6$

$a_{6,6} = \max_i |a_{i,6}^{(7-1)}| = 7$

$a_{7,7} = \max_i |a_{i,7}^{(8-1)}| = 8$

$a_{8,8} = \max_i |a_{i,8}^{(9-1)}| = 9$

$a_{9,9} = \max_i |a_{i,9}^{(10-1)}| = 10$

$a_{10,10} = \max_i |a_{i,10}^{(11-1)}| = 11$

$a_{11,11} = \max_i |a_{i,11}^{(12-1)}| = 12$

$a_{12,12} = \max_i |a_{i,12}^{(13-1)}| = 13$

$a_{13,13} = \max_i |a_{i,13}^{(14-1)}| = 14$

$a_{14,14} = \max_i |a_{i,14}^{(15-1)}| = 15$

$a_{15,15} = \max_i |a_{i,15}^{(16-1)}| = 16$

$a_{16,16} = \max_i |a_{i,16}^{(17-1)}| = 17$

$a_{17,17} = \max_i |a_{i,17}^{(18-1)}| = 18$

$a_{18,18} = \max_i |a_{i,18}^{(19-1)}| = 19$

$a_{19,19} = \max_i |a_{i,19}^{(20-1)}| = 20$

$a_{20,20} = \max_i |a_{i,20}^{(21-1)}| = 21$

$a_{21,21} = \max_i |a_{i,21}^{(22-1)}| = 22$

$a_{22,22} = \max_i |a_{i,22}^{(23-1)}| = 23$

$a_{23,23} = \max_i |a_{i,23}^{(24-1)}| = 24$

$a_{24,24} = \max_i |a_{i,24}^{(25-1)}| = 25$

$a_{25,25} = \max_i |a_{i,25}^{(26-1)}| = 26$

$a_{26,26} = \max_i |a_{i,26}^{(27-1)}| = 27$

$a_{27,27} = \max_i |a_{i,27}^{(28-1)}| = 28$

$a_{28,28} = \max_i |a_{i,28}^{(29-1)}| = 29$

$$a_{29,29} = \max_i |a_{i,29}^{(30-1)}| = 30$$
$$a_{30,30} = \max_i |a_{i,30}^{(31-1)}| = 31$$
$$a_{31,31} = \max_i |a_{i,31}^{(32-1)}| = 32$$
$$a_{32,32} = \max_i |a_{i,32}^{(33-1)}| = 33$$
$$a_{33,33} = \max_i |a_{i,33}^{(34-1)}| = 34$$
$$a_{34,34} = \max_i |a_{i,34}^{(35-1)}| = 35$$
$$a_{35,35} = \max_i |a_{i,35}^{(36-1)}| = 36$$
$$a_{36,36} = \max_i |a_{i,36}^{(37-1)}| = 37$$
$$a_{37,37} = \max_i |a_{i,37}^{(38-1)}| = 38$$
$$a_{38,38} = \max_i |a_{i,38}^{(39-1)}| = 39$$
$$a_{39,39} = \max_i |a_{i,39}^{(40-1)}| = 40$$
$$a_{40,40} = \max_i |a_{i,40}^{(41-1)}| = 41$$
$$a_{41,41} = \max_i |a_{i,41}^{(42-1)}| = 42$$
$$a_{42,42} = \max_i |a_{i,42}^{(43-1)}| = 43$$
$$a_{43,43} = \max_i |a_{i,43}^{(44-1)}| = 44$$
$$a_{44,44} = \max_i |a_{i,44}^{(45-1)}| = 45$$
$$a_{45,45} = \max_i |a_{i,45}^{(46-1)}| = 46$$
$$a_{46,46} = \max_i |a_{i,46}^{(47-1)}| = 47$$
$$a_{47,47} = \max_i |a_{i,47}^{(48-1)}| = 48$$
$$a_{48,48} = \max_i |a_{i,48}^{(49-1)}| = 49$$
$$a_{49,49} = \max_i |a_{i,49}^{(50-1)}| = 50$$
$$a_{50,50} = \max_i |a_{i,50}^{(51-1)}| = 51$$
$$a_{51,51} = \max_i |a_{i,51}^{(52-1)}| = 52$$
$$a_{52,52} = \max_i |a_{i,52}^{(53-1)}| = 53$$
$$a_{53,53} = \max_i |a_{i,53}^{(54-1)}| = 54$$
$$a_{54,54} = \max_i |a_{i,54}^{(55-1)}| = 55$$
$$a_{55,55} = \max_i |a_{i,55}^{(56-1)}| = 56$$
$$a_{56,56} = \max_i |a_{i,56}^{(57-1)}| = 57$$
$$a_{57,57} = \max_i |a_{i,57}^{(58-1)}| = 58$$
$$a_{58,58} = \max_i |a_{i,58}^{(59-1)}| = 59$$
$$a_{59,59} = \max_i |a_{i,59}^{(60-1)}| = 60$$
$$a_{60,60} = \max_i |a_{i,60}^{(61-1)}| = 61$$
$$a_{61,61} = \max_i |a_{i,61}^{(62-1)}| = 62$$

$$a_{62,62} = \max_i |a_{i,62}^{(63-1)}| = 63$$
$$a_{63,63} = \max_i |a_{i,63}^{(64-1)}| = 64$$
$$a_{64,64} = \max_i |a_{i,64}^{(65-1)}| = 65$$
$$a_{65,65} = \max_i |a_{i,65}^{(66-1)}| = 66$$
$$a_{66,66} = \max_i |a_{i,66}^{(67-1)}| = 67$$
$$a_{67,67} = \max_i |a_{i,67}^{(68-1)}| = 68$$

$$\bar{x} = \begin{pmatrix} -2344.00 \\ -2341.50 \\ -1558.67 \\ -1166.75 \\ -931.20 \\ -773.83 \\ -661.14 \\ -576.38 \\ -510.22 \\ -457.10 \\ -413.45 \\ -376.92 \\ -345.85 \\ -319.07 \\ -295.73 \\ -275.19 \\ -256.94 \\ -240.61 \\ -225.89 \\ -212.55 \\ -200.38 \\ -189.23 \\ -178.96 \\ -169.46 \\ -160.64 \\ -152.42 \\ -144.74 \\ -137.54 \\ -130.76 \\ -124.37 \\ -118.32 \\ -112.59 \\ -107.15 \\ -101.97 \\ -97.03 \\ -92.31 \\ -87.78 \\ -83.45 \\ -79.28 \\ -75.28 \\ -71.41 \\ -67.69 \\ -64.09 \\ -60.61 \\ -57.24 \\ -53.98 \\ -50.81 \\ -47.73 \\ -44.73 \end{pmatrix}$$

$$\Delta A = 2.4800355424368305e96$$

60 $N = 69$

$A = \{a_{i,j} | i = 0..\overline{6}9, j = 0..\overline{7}0\}$

$a_{0,0} = \max_i |a_{i,0}^{(1-1)}| = 1$

$a_{1,1} = \max_i |a_{i,1}^{(2-1)}| = 2$

$a_{2,2} = \max_i |a_{i,2}^{(3-1)}| = 3$

$a_{3,3} = \max_i |a_{i,3}^{(4-1)}| = 4$

$a_{4,4} = \max_i |a_{i,4}^{(5-1)}| = 5$

$a_{5,5} = \max_i |a_{i,5}^{(6-1)}| = 6$

$a_{6,6} = \max_i |a_{i,6}^{(7-1)}| = 7$

$a_{7,7} = \max_i |a_{i,7}^{(8-1)}| = 8$

$a_{8,8} = \max_i |a_{i,8}^{(9-1)}| = 9$

$a_{9,9} = \max_i |a_{i,9}^{(10-1)}| = 10$

$a_{10,10} = \max_i |a_{i,10}^{(11-1)}| = 11$

$a_{11,11} = \max_i |a_{i,11}^{(12-1)}| = 12$

$a_{12,12} = \max_i |a_{i,12}^{(13-1)}| = 13$

$a_{13,13} = \max_i |a_{i,13}^{(14-1)}| = 14$

$a_{14,14} = \max_i |a_{i,14}^{(15-1)}| = 15$

$a_{15,15} = \max_i |a_{i,15}^{(16-1)}| = 16$

$a_{16,16} = \max_i |a_{i,16}^{(17-1)}| = 17$

$a_{17,17} = \max_i |a_{i,17}^{(18-1)}| = 18$

$a_{18,18} = \max_i |a_{i,18}^{(19-1)}| = 19$

$a_{19,19} = \max_i |a_{i,19}^{(20-1)}| = 20$

$a_{20,20} = \max_i |a_{i,20}^{(21-1)}| = 21$

$a_{21,21} = \max_i |a_{i,21}^{(22-1)}| = 22$

$a_{22,22} = \max_i |a_{i,22}^{(23-1)}| = 23$

$a_{23,23} = \max_i |a_{i,23}^{(24-1)}| = 24$

$a_{24,24} = \max_i |a_{i,24}^{(25-1)}| = 25$

$a_{25,25} = \max_i |a_{i,25}^{(26-1)}| = 26$

$a_{26,26} = \max_i |a_{i,26}^{(27-1)}| = 27$

$a_{27,27} = \max_i |a_{i,27}^{(28-1)}| = 28$

$a_{28,28} = \max_i |a_{i,28}^{(29-1)}| = 29$

$$a_{29,29} = \max_i |a_{i,29}^{(30-1)}| = 30$$
$$a_{30,30} = \max_i |a_{i,30}^{(31-1)}| = 31$$
$$a_{31,31} = \max_i |a_{i,31}^{(32-1)}| = 32$$
$$a_{32,32} = \max_i |a_{i,32}^{(33-1)}| = 33$$
$$a_{33,33} = \max_i |a_{i,33}^{(34-1)}| = 34$$
$$a_{34,34} = \max_i |a_{i,34}^{(35-1)}| = 35$$
$$a_{35,35} = \max_i |a_{i,35}^{(36-1)}| = 36$$
$$a_{36,36} = \max_i |a_{i,36}^{(37-1)}| = 37$$
$$a_{37,37} = \max_i |a_{i,37}^{(38-1)}| = 38$$
$$a_{38,38} = \max_i |a_{i,38}^{(39-1)}| = 39$$
$$a_{39,39} = \max_i |a_{i,39}^{(40-1)}| = 40$$
$$a_{40,40} = \max_i |a_{i,40}^{(41-1)}| = 41$$
$$a_{41,41} = \max_i |a_{i,41}^{(42-1)}| = 42$$
$$a_{42,42} = \max_i |a_{i,42}^{(43-1)}| = 43$$
$$a_{43,43} = \max_i |a_{i,43}^{(44-1)}| = 44$$
$$a_{44,44} = \max_i |a_{i,44}^{(45-1)}| = 45$$
$$a_{45,45} = \max_i |a_{i,45}^{(46-1)}| = 46$$
$$a_{46,46} = \max_i |a_{i,46}^{(47-1)}| = 47$$
$$a_{47,47} = \max_i |a_{i,47}^{(48-1)}| = 48$$
$$a_{48,48} = \max_i |a_{i,48}^{(49-1)}| = 49$$
$$a_{49,49} = \max_i |a_{i,49}^{(50-1)}| = 50$$
$$a_{50,50} = \max_i |a_{i,50}^{(51-1)}| = 51$$
$$a_{51,51} = \max_i |a_{i,51}^{(52-1)}| = 52$$
$$a_{52,52} = \max_i |a_{i,52}^{(53-1)}| = 53$$
$$a_{53,53} = \max_i |a_{i,53}^{(54-1)}| = 54$$
$$a_{54,54} = \max_i |a_{i,54}^{(55-1)}| = 55$$
$$a_{55,55} = \max_i |a_{i,55}^{(56-1)}| = 56$$
$$a_{56,56} = \max_i |a_{i,56}^{(57-1)}| = 57$$
$$a_{57,57} = \max_i |a_{i,57}^{(58-1)}| = 58$$
$$a_{58,58} = \max_i |a_{i,58}^{(59-1)}| = 59$$
$$a_{59,59} = \max_i |a_{i,59}^{(60-1)}| = 60$$
$$a_{60,60} = \max_i |a_{i,60}^{(61-1)}| = 61$$
$$a_{61,61} = \max_i |a_{i,61}^{(62-1)}| = 62$$

$$a_{62,62} = \max_i |a_{i,62}^{(63-1)}| = 63$$
$$a_{63,63} = \max_i |a_{i,63}^{(64-1)}| = 64$$
$$a_{64,64} = \max_i |a_{i,64}^{(65-1)}| = 65$$
$$a_{65,65} = \max_i |a_{i,65}^{(66-1)}| = 66$$
$$a_{66,66} = \max_i |a_{i,66}^{(67-1)}| = 67$$
$$a_{67,67} = \max_i |a_{i,67}^{(68-1)}| = 68$$
$$a_{68,68} = \max_i |a_{i,68}^{(69-1)}| = 69$$

$$\bar{x} = \begin{pmatrix} -2413.00 \\ -2410.50 \\ -1604.67 \\ -1201.25 \\ -958.80 \\ -796.83 \\ -680.86 \\ -593.62 \\ -525.56 \\ -470.90 \\ -426.00 \\ -388.42 \\ -356.46 \\ -328.93 \\ -304.93 \\ -283.81 \\ -265.06 \\ -248.28 \\ -233.16 \\ -219.45 \\ -206.95 \\ -195.50 \\ -184.96 \\ -175.21 \\ -166.16 \\ -157.73 \\ -149.85 \\ -142.46 \\ -135.52 \\ -128.97 \\ -122.77 \\ -116.91 \\ -111.33 \\ -106.03 \\ -100.97 \\ -96.14 \\ -91.51 \\ -87.08 \\ -82.82 \\ -78.73 \\ -74.78 \\ -70.98 \\ -67.30 \\ -63.75 \\ -60.31 \\ -56.98 \\ -53.74 \\ -50.60 \\ -47.55 \\ -44.58 \end{pmatrix}$$

$$\Delta A = 1.711224524281413e98$$

61 $\quad N = 70$

$A = \{a_{i,j} | i = 0..\overline{7}0, j = 0..\overline{7}1\}$

$a_{0,0} = \max_i |a_{i,0}^{(1-1)}| = 1$

$a_{1,1} = \max_i |a_{i,1}^{(2-1)}| = 2$

$a_{2,2} = \max_i |a_{i,2}^{(3-1)}| = 3$

$a_{3,3} = \max_i |a_{i,3}^{(4-1)}| = 4$

$a_{4,4} = \max_i |a_{i,4}^{(5-1)}| = 5$

$a_{5,5} = \max_i |a_{i,5}^{(6-1)}| = 6$

$a_{6,6} = \max_i |a_{i,6}^{(7-1)}| = 7$

$a_{7,7} = \max_i |a_{i,7}^{(8-1)}| = 8$

$a_{8,8} = \max_i |a_{i,8}^{(9-1)}| = 9$

$a_{9,9} = \max_i |a_{i,9}^{(10-1)}| = 10$

$a_{10,10} = \max_i |a_{i,10}^{(11-1)}| = 11$

$a_{11,11} = \max_i |a_{i,11}^{(12-1)}| = 12$

$a_{12,12} = \max_i |a_{i,12}^{(13-1)}| = 13$

$a_{13,13} = \max_i |a_{i,13}^{(14-1)}| = 14$

$a_{14,14} = \max_i |a_{i,14}^{(15-1)}| = 15$

$a_{15,15} = \max_i |a_{i,15}^{(16-1)}| = 16$

$a_{16,16} = \max_i |a_{i,16}^{(17-1)}| = 17$

$a_{17,17} = \max_i |a_{i,17}^{(18-1)}| = 18$

$a_{18,18} = \max_i |a_{i,18}^{(19-1)}| = 19$

$a_{19,19} = \max_i |a_{i,19}^{(20-1)}| = 20$

$a_{20,20} = \max_i |a_{i,20}^{(21-1)}| = 21$

$a_{21,21} = \max_i |a_{i,21}^{(22-1)}| = 22$

$a_{22,22} = \max_i |a_{i,22}^{(23-1)}| = 23$

$a_{23,23} = \max_i |a_{i,23}^{(24-1)}| = 24$

$a_{24,24} = \max_i |a_{i,24}^{(25-1)}| = 25$

$a_{25,25} = \max_i |a_{i,25}^{(26-1)}| = 26$

$a_{26,26} = \max_i |a_{i,26}^{(27-1)}| = 27$

$a_{27,27} = \max_i |a_{i,27}^{(28-1)}| = 28$

$a_{28,28} = \max_i |a_{i,28}^{(29-1)}| = 29$

$$a_{29,29} = \max_i |a_{i,29}^{(30-1)}| = 30$$
$$a_{30,30} = \max_i |a_{i,30}^{(31-1)}| = 31$$
$$a_{31,31} = \max_i |a_{i,31}^{(32-1)}| = 32$$
$$a_{32,32} = \max_i |a_{i,32}^{(33-1)}| = 33$$
$$a_{33,33} = \max_i |a_{i,33}^{(34-1)}| = 34$$
$$a_{34,34} = \max_i |a_{i,34}^{(35-1)}| = 35$$
$$a_{35,35} = \max_i |a_{i,35}^{(36-1)}| = 36$$
$$a_{36,36} = \max_i |a_{i,36}^{(37-1)}| = 37$$
$$a_{37,37} = \max_i |a_{i,37}^{(38-1)}| = 38$$
$$a_{38,38} = \max_i |a_{i,38}^{(39-1)}| = 39$$
$$a_{39,39} = \max_i |a_{i,39}^{(40-1)}| = 40$$
$$a_{40,40} = \max_i |a_{i,40}^{(41-1)}| = 41$$
$$a_{41,41} = \max_i |a_{i,41}^{(42-1)}| = 42$$
$$a_{42,42} = \max_i |a_{i,42}^{(43-1)}| = 43$$
$$a_{43,43} = \max_i |a_{i,43}^{(44-1)}| = 44$$
$$a_{44,44} = \max_i |a_{i,44}^{(45-1)}| = 45$$
$$a_{45,45} = \max_i |a_{i,45}^{(46-1)}| = 46$$
$$a_{46,46} = \max_i |a_{i,46}^{(47-1)}| = 47$$
$$a_{47,47} = \max_i |a_{i,47}^{(48-1)}| = 48$$
$$a_{48,48} = \max_i |a_{i,48}^{(49-1)}| = 49$$
$$a_{49,49} = \max_i |a_{i,49}^{(50-1)}| = 50$$
$$a_{50,50} = \max_i |a_{i,50}^{(51-1)}| = 51$$
$$a_{51,51} = \max_i |a_{i,51}^{(52-1)}| = 52$$
$$a_{52,52} = \max_i |a_{i,52}^{(53-1)}| = 53$$
$$a_{53,53} = \max_i |a_{i,53}^{(54-1)}| = 54$$
$$a_{54,54} = \max_i |a_{i,54}^{(55-1)}| = 55$$
$$a_{55,55} = \max_i |a_{i,55}^{(56-1)}| = 56$$
$$a_{56,56} = \max_i |a_{i,56}^{(57-1)}| = 57$$
$$a_{57,57} = \max_i |a_{i,57}^{(58-1)}| = 58$$
$$a_{58,58} = \max_i |a_{i,58}^{(59-1)}| = 59$$
$$a_{59,59} = \max_i |a_{i,59}^{(60-1)}| = 60$$
$$a_{60,60} = \max_i |a_{i,60}^{(61-1)}| = 61$$
$$a_{61,61} = \max_i |a_{i,61}^{(62-1)}| = 62$$

$$a_{62,62} = \max_i |a_{i,62}^{(63-1)}| = 63$$
$$a_{63,63} = \max_i |a_{i,63}^{(64-1)}| = 64$$
$$a_{64,64} = \max_i |a_{i,64}^{(65-1)}| = 65$$
$$a_{65,65} = \max_i |a_{i,65}^{(66-1)}| = 66$$
$$a_{66,66} = \max_i |a_{i,66}^{(67-1)}| = 67$$
$$a_{67,67} = \max_i |a_{i,67}^{(68-1)}| = 68$$
$$a_{68,68} = \max_i |a_{i,68}^{(69-1)}| = 69$$
$$a_{69,69} = \max_i |a_{i,69}^{(70-1)}| = 70$$

$$\bar{x} = \begin{pmatrix} -2483.00 \\ -2480.50 \\ -1651.33 \\ -1236.25 \\ -986.80 \\ -820.17 \\ -700.86 \\ -611.12 \\ -541.11 \\ -484.90 \\ -438.73 \\ -400.08 \\ -367.23 \\ -338.93 \\ -314.27 \\ -292.56 \\ -273.29 \\ -256.06 \\ -240.53 \\ -226.45 \\ -213.62 \\ -201.86 \\ -191.04 \\ -181.04 \\ -171.76 \\ -163.12 \\ -155.04 \\ -147.46 \\ -140.34 \\ -133.63 \\ -127.29 \\ -121.28 \\ -115.58 \\ -110.15 \\ -104.97 \\ -100.03 \\ -95.30 \\ -90.76 \\ -86.41 \\ -82.23 \\ -78.20 \\ -74.31 \\ -70.56 \\ -66.93 \\ -63.42 \\ -60.02 \\ -56.72 \\ -53.52 \\ -50.41 \end{pmatrix}$$

152

$$\Delta A = 1.197857166996989e100$$

62 $\quad N = 71$

$A = \{a_{i,j} | i = 0..\overline{71}, j = 0..\overline{72}\}$

$\quad a_{0,0} = \max_i |a_{i,0}^{(1-1)}| = 1$

$\quad a_{1,1} = \max_i |a_{i,1}^{(2-1)}| = 2$

$\quad a_{2,2} = \max_i |a_{i,2}^{(3-1)}| = 3$

$\quad a_{3,3} = \max_i |a_{i,3}^{(4-1)}| = 4$

$\quad a_{4,4} = \max_i |a_{i,4}^{(5-1)}| = 5$

$\quad a_{5,5} = \max_i |a_{i,5}^{(6-1)}| = 6$

$\quad a_{6,6} = \max_i |a_{i,6}^{(7-1)}| = 7$

$\quad a_{7,7} = \max_i |a_{i,7}^{(8-1)}| = 8$

$\quad a_{8,8} = \max_i |a_{i,8}^{(9-1)}| = 9$

$\quad a_{9,9} = \max_i |a_{i,9}^{(10-1)}| = 10$

$\quad a_{10,10} = \max_i |a_{i,10}^{(11-1)}| = 11$

$\quad a_{11,11} = \max_i |a_{i,11}^{(12-1)}| = 12$

$\quad a_{12,12} = \max_i |a_{i,12}^{(13-1)}| = 13$

$\quad a_{13,13} = \max_i |a_{i,13}^{(14-1)}| = 14$

$\quad a_{14,14} = \max_i |a_{i,14}^{(15-1)}| = 15$

$\quad a_{15,15} = \max_i |a_{i,15}^{(16-1)}| = 16$

$\quad a_{16,16} = \max_i |a_{i,16}^{(17-1)}| = 17$

$\quad a_{17,17} = \max_i |a_{i,17}^{(18-1)}| = 18$

$\quad a_{18,18} = \max_i |a_{i,18}^{(19-1)}| = 19$

$\quad a_{19,19} = \max_i |a_{i,19}^{(20-1)}| = 20$

$\quad a_{20,20} = \max_i |a_{i,20}^{(21-1)}| = 21$

$\quad a_{21,21} = \max_i |a_{i,21}^{(22-1)}| = 22$

$\quad a_{22,22} = \max_i |a_{i,22}^{(23-1)}| = 23$

$\quad a_{23,23} = \max_i |a_{i,23}^{(24-1)}| = 24$

$\quad a_{24,24} = \max_i |a_{i,24}^{(25-1)}| = 25$

$\quad a_{25,25} = \max_i |a_{i,25}^{(26-1)}| = 26$

$\quad a_{26,26} = \max_i |a_{i,26}^{(27-1)}| = 27$

$\quad a_{27,27} = \max_i |a_{i,27}^{(28-1)}| = 28$

$\quad a_{28,28} = \max_i |a_{i,28}^{(29-1)}| = 29$

$$a_{29,29} = \max_i |a_{i,29}^{(30-1)}| = 30$$
$$a_{30,30} = \max_i |a_{i,30}^{(31-1)}| = 31$$
$$a_{31,31} = \max_i |a_{i,31}^{(32-1)}| = 32$$
$$a_{32,32} = \max_i |a_{i,32}^{(33-1)}| = 33$$
$$a_{33,33} = \max_i |a_{i,33}^{(34-1)}| = 34$$
$$a_{34,34} = \max_i |a_{i,34}^{(35-1)}| = 35$$
$$a_{35,35} = \max_i |a_{i,35}^{(36-1)}| = 36$$
$$a_{36,36} = \max_i |a_{i,36}^{(37-1)}| = 37$$
$$a_{37,37} = \max_i |a_{i,37}^{(38-1)}| = 38$$
$$a_{38,38} = \max_i |a_{i,38}^{(39-1)}| = 39$$
$$a_{39,39} = \max_i |a_{i,39}^{(40-1)}| = 40$$
$$a_{40,40} = \max_i |a_{i,40}^{(41-1)}| = 41$$
$$a_{41,41} = \max_i |a_{i,41}^{(42-1)}| = 42$$
$$a_{42,42} = \max_i |a_{i,42}^{(43-1)}| = 43$$
$$a_{43,43} = \max_i |a_{i,43}^{(44-1)}| = 44$$
$$a_{44,44} = \max_i |a_{i,44}^{(45-1)}| = 45$$
$$a_{45,45} = \max_i |a_{i,45}^{(46-1)}| = 46$$
$$a_{46,46} = \max_i |a_{i,46}^{(47-1)}| = 47$$
$$a_{47,47} = \max_i |a_{i,47}^{(48-1)}| = 48$$
$$a_{48,48} = \max_i |a_{i,48}^{(49-1)}| = 49$$
$$a_{49,49} = \max_i |a_{i,49}^{(50-1)}| = 50$$
$$a_{50,50} = \max_i |a_{i,50}^{(51-1)}| = 51$$
$$a_{51,51} = \max_i |a_{i,51}^{(52-1)}| = 52$$
$$a_{52,52} = \max_i |a_{i,52}^{(53-1)}| = 53$$
$$a_{53,53} = \max_i |a_{i,53}^{(54-1)}| = 54$$
$$a_{54,54} = \max_i |a_{i,54}^{(55-1)}| = 55$$
$$a_{55,55} = \max_i |a_{i,55}^{(56-1)}| = 56$$
$$a_{56,56} = \max_i |a_{i,56}^{(57-1)}| = 57$$
$$a_{57,57} = \max_i |a_{i,57}^{(58-1)}| = 58$$
$$a_{58,58} = \max_i |a_{i,58}^{(59-1)}| = 59$$
$$a_{59,59} = \max_i |a_{i,59}^{(60-1)}| = 60$$
$$a_{60,60} = \max_i |a_{i,60}^{(61-1)}| = 61$$
$$a_{61,61} = \max_i |a_{i,61}^{(62-1)}| = 62$$

$$a_{62,62} = \max_i |a_{i,62}^{(63-1)}| = 63$$
$$a_{63,63} = \max_i |a_{i,63}^{(64-1)}| = 64$$
$$a_{64,64} = \max_i |a_{i,64}^{(65-1)}| = 65$$
$$a_{65,65} = \max_i |a_{i,65}^{(66-1)}| = 66$$
$$a_{66,66} = \max_i |a_{i,66}^{(67-1)}| = 67$$
$$a_{67,67} = \max_i |a_{i,67}^{(68-1)}| = 68$$
$$a_{68,68} = \max_i |a_{i,68}^{(69-1)}| = 69$$
$$a_{69,69} = \max_i |a_{i,69}^{(70-1)}| = 70$$
$$a_{70,70} = \max_i |a_{i,70}^{(71-1)}| = 71$$

$$
\bar{x} = \begin{pmatrix}
-2554.00 \\
-2551.50 \\
-1698.67 \\
-1271.75 \\
-1015.20 \\
-843.83 \\
-721.14 \\
-628.88 \\
-556.89 \\
-499.10 \\
-451.64 \\
-411.92 \\
-378.15 \\
-349.07 \\
-323.73 \\
-301.44 \\
-281.65 \\
-263.94 \\
-248.00 \\
-233.55 \\
-220.38 \\
-208.32 \\
-197.22 \\
-186.96 \\
-177.44 \\
-168.58 \\
-160.30 \\
-152.54 \\
-145.24 \\
-138.37 \\
-131.87 \\
-125.72 \\
-119.88 \\
-114.32 \\
-109.03 \\
-103.97 \\
-99.14 \\
-94.50 \\
-90.05 \\
-85.78 \\
-81.66 \\
-77.69 \\
-73.86 \\
-70.16 \\
-66.58 \\
-63.11 \\
-59.74 \\
-56.48 \\
-53.31 \\
\end{pmatrix}
$$

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$$\Delta A = 8.504785885678622e101$$

63 $N = 72$

$A = \{a_{i,j} | i = 0..\overline{72}, j = 0..\overline{73}\}$

$a_{0,0} = \max_i |a_{i,0}^{(1-1)}| = 1$

$a_{1,1} = \max_i |a_{i,1}^{(2-1)}| = 2$

$a_{2,2} = \max_i |a_{i,2}^{(3-1)}| = 3$

$a_{3,3} = \max_i |a_{i,3}^{(4-1)}| = 4$

$a_{4,4} = \max_i |a_{i,4}^{(5-1)}| = 5$

$a_{5,5} = \max_i |a_{i,5}^{(6-1)}| = 6$

$a_{6,6} = \max_i |a_{i,6}^{(7-1)}| = 7$

$a_{7,7} = \max_i |a_{i,7}^{(8-1)}| = 8$

$a_{8,8} = \max_i |a_{i,8}^{(9-1)}| = 9$

$a_{9,9} = \max_i |a_{i,9}^{(10-1)}| = 10$

$a_{10,10} = \max_i |a_{i,10}^{(11-1)}| = 11$

$a_{11,11} = \max_i |a_{i,11}^{(12-1)}| = 12$

$a_{12,12} = \max_i |a_{i,12}^{(13-1)}| = 13$

$a_{13,13} = \max_i |a_{i,13}^{(14-1)}| = 14$

$a_{14,14} = \max_i |a_{i,14}^{(15-1)}| = 15$

$a_{15,15} = \max_i |a_{i,15}^{(16-1)}| = 16$

$a_{16,16} = \max_i |a_{i,16}^{(17-1)}| = 17$

$a_{17,17} = \max_i |a_{i,17}^{(18-1)}| = 18$

$a_{18,18} = \max_i |a_{i,18}^{(19-1)}| = 19$

$a_{19,19} = \max_i |a_{i,19}^{(20-1)}| = 20$

$a_{20,20} = \max_i |a_{i,20}^{(21-1)}| = 21$

$a_{21,21} = \max_i |a_{i,21}^{(22-1)}| = 22$

$a_{22,22} = \max_i |a_{i,22}^{(23-1)}| = 23$

$a_{23,23} = \max_i |a_{i,23}^{(24-1)}| = 24$

$a_{24,24} = \max_i |a_{i,24}^{(25-1)}| = 25$

$a_{25,25} = \max_i |a_{i,25}^{(26-1)}| = 26$

$a_{26,26} = \max_i |a_{i,26}^{(27-1)}| = 27$

$a_{27,27} = \max_i |a_{i,27}^{(28-1)}| = 28$

$a_{28,28} = \max_i |a_{i,28}^{(29-1)}| = 29$

$$a_{29,29} = \max_i |a_{i,29}^{(30-1)}| = 30$$
$$a_{30,30} = \max_i |a_{i,30}^{(31-1)}| = 31$$
$$a_{31,31} = \max_i |a_{i,31}^{(32-1)}| = 32$$
$$a_{32,32} = \max_i |a_{i,32}^{(33-1)}| = 33$$
$$a_{33,33} = \max_i |a_{i,33}^{(34-1)}| = 34$$
$$a_{34,34} = \max_i |a_{i,34}^{(35-1)}| = 35$$
$$a_{35,35} = \max_i |a_{i,35}^{(36-1)}| = 36$$
$$a_{36,36} = \max_i |a_{i,36}^{(37-1)}| = 37$$
$$a_{37,37} = \max_i |a_{i,37}^{(38-1)}| = 38$$
$$a_{38,38} = \max_i |a_{i,38}^{(39-1)}| = 39$$
$$a_{39,39} = \max_i |a_{i,39}^{(40-1)}| = 40$$
$$a_{40,40} = \max_i |a_{i,40}^{(41-1)}| = 41$$
$$a_{41,41} = \max_i |a_{i,41}^{(42-1)}| = 42$$
$$a_{42,42} = \max_i |a_{i,42}^{(43-1)}| = 43$$
$$a_{43,43} = \max_i |a_{i,43}^{(44-1)}| = 44$$
$$a_{44,44} = \max_i |a_{i,44}^{(45-1)}| = 45$$
$$a_{45,45} = \max_i |a_{i,45}^{(46-1)}| = 46$$
$$a_{46,46} = \max_i |a_{i,46}^{(47-1)}| = 47$$
$$a_{47,47} = \max_i |a_{i,47}^{(48-1)}| = 48$$
$$a_{48,48} = \max_i |a_{i,48}^{(49-1)}| = 49$$
$$a_{49,49} = \max_i |a_{i,49}^{(50-1)}| = 50$$
$$a_{50,50} = \max_i |a_{i,50}^{(51-1)}| = 51$$
$$a_{51,51} = \max_i |a_{i,51}^{(52-1)}| = 52$$
$$a_{52,52} = \max_i |a_{i,52}^{(53-1)}| = 53$$
$$a_{53,53} = \max_i |a_{i,53}^{(54-1)}| = 54$$
$$a_{54,54} = \max_i |a_{i,54}^{(55-1)}| = 55$$
$$a_{55,55} = \max_i |a_{i,55}^{(56-1)}| = 56$$
$$a_{56,56} = \max_i |a_{i,56}^{(57-1)}| = 57$$
$$a_{57,57} = \max_i |a_{i,57}^{(58-1)}| = 58$$
$$a_{58,58} = \max_i |a_{i,58}^{(59-1)}| = 59$$
$$a_{59,59} = \max_i |a_{i,59}^{(60-1)}| = 60$$
$$a_{60,60} = \max_i |a_{i,60}^{(61-1)}| = 61$$
$$a_{61,61} = \max_i |a_{i,61}^{(62-1)}| = 62$$

$$a_{62,62} = \max_i |a_{i,62}^{(63-1)}| = 63$$
$$a_{63,63} = \max_i |a_{i,63}^{(64-1)}| = 64$$
$$a_{64,64} = \max_i |a_{i,64}^{(65-1)}| = 65$$
$$a_{65,65} = \max_i |a_{i,65}^{(66-1)}| = 66$$
$$a_{66,66} = \max_i |a_{i,66}^{(67-1)}| = 67$$
$$a_{67,67} = \max_i |a_{i,67}^{(68-1)}| = 68$$
$$a_{68,68} = \max_i |a_{i,68}^{(69-1)}| = 69$$
$$a_{69,69} = \max_i |a_{i,69}^{(70-1)}| = 70$$
$$a_{70,70} = \max_i |a_{i,70}^{(71-1)}| = 71$$
$$a_{71,71} = \max_i |a_{i,71}^{(72-1)}| = 72$$

$$\bar{x} = \begin{pmatrix} -2626.00 \\ -2623.50 \\ -1746.67 \\ -1307.75 \\ -1044.00 \\ -867.83 \\ -741.71 \\ -646.88 \\ -572.89 \\ -513.50 \\ -464.73 \\ -423.92 \\ -389.23 \\ -359.36 \\ -333.33 \\ -310.44 \\ -290.12 \\ -271.94 \\ -255.58 \\ -240.75 \\ -227.24 \\ -214.86 \\ -203.48 \\ -192.96 \\ -183.20 \\ -174.12 \\ -165.63 \\ -157.68 \\ -150.21 \\ -143.17 \\ -136.52 \\ -130.22 \\ -124.24 \\ -118.56 \\ -113.14 \\ -107.97 \\ -103.03 \\ -98.29 \\ -93.74 \\ -89.38 \\ -85.17 \\ -81.12 \\ -77.21 \\ -73.43 \\ -69.78 \\ -66.24 \\ -62.81 \\ -59.48 \\ -56.24 \end{pmatrix}$$

$$\Delta A = 6.123445837688608e103$$

64 $N = 73$

$A = \{a_{i,j} | i = 0..\overline{73}, j = 0..\overline{74}\}$

$a_{0,0} = \max_i |a_{i,0}^{(1-1)}| = 1$

$a_{1,1} = \max_i |a_{i,1}^{(2-1)}| = 2$

$a_{2,2} = \max_i |a_{i,2}^{(3-1)}| = 3$

$a_{3,3} = \max_i |a_{i,3}^{(4-1)}| = 4$

$a_{4,4} = \max_i |a_{i,4}^{(5-1)}| = 5$

$a_{5,5} = \max_i |a_{i,5}^{(6-1)}| = 6$

$a_{6,6} = \max_i |a_{i,6}^{(7-1)}| = 7$

$a_{7,7} = \max_i |a_{i,7}^{(8-1)}| = 8$

$a_{8,8} = \max_i |a_{i,8}^{(9-1)}| = 9$

$a_{9,9} = \max_i |a_{i,9}^{(10-1)}| = 10$

$a_{10,10} = \max_i |a_{i,10}^{(11-1)}| = 11$

$a_{11,11} = \max_i |a_{i,11}^{(12-1)}| = 12$

$a_{12,12} = \max_i |a_{i,12}^{(13-1)}| = 13$

$a_{13,13} = \max_i |a_{i,13}^{(14-1)}| = 14$

$a_{14,14} = \max_i |a_{i,14}^{(15-1)}| = 15$

$a_{15,15} = \max_i |a_{i,15}^{(16-1)}| = 16$

$a_{16,16} = \max_i |a_{i,16}^{(17-1)}| = 17$

$a_{17,17} = \max_i |a_{i,17}^{(18-1)}| = 18$

$a_{18,18} = \max_i |a_{i,18}^{(19-1)}| = 19$

$a_{19,19} = \max_i |a_{i,19}^{(20-1)}| = 20$

$a_{20,20} = \max_i |a_{i,20}^{(21-1)}| = 21$

$a_{21,21} = \max_i |a_{i,21}^{(22-1)}| = 22$

$a_{22,22} = \max_i |a_{i,22}^{(23-1)}| = 23$

$a_{23,23} = \max_i |a_{i,23}^{(24-1)}| = 24$

$a_{24,24} = \max_i |a_{i,24}^{(25-1)}| = 25$

$a_{25,25} = \max_i |a_{i,25}^{(26-1)}| = 26$

$a_{26,26} = \max_i |a_{i,26}^{(27-1)}| = 27$

$a_{27,27} = \max_i |a_{i,27}^{(28-1)}| = 28$

$a_{28,28} = \max_i |a_{i,28}^{(29-1)}| = 29$

$$a_{29,29} = \max_i |a_{i,29}^{(30-1)}| = 30$$
$$a_{30,30} = \max_i |a_{i,30}^{(31-1)}| = 31$$
$$a_{31,31} = \max_i |a_{i,31}^{(32-1)}| = 32$$
$$a_{32,32} = \max_i |a_{i,32}^{(33-1)}| = 33$$
$$a_{33,33} = \max_i |a_{i,33}^{(34-1)}| = 34$$
$$a_{34,34} = \max_i |a_{i,34}^{(35-1)}| = 35$$
$$a_{35,35} = \max_i |a_{i,35}^{(36-1)}| = 36$$
$$a_{36,36} = \max_i |a_{i,36}^{(37-1)}| = 37$$
$$a_{37,37} = \max_i |a_{i,37}^{(38-1)}| = 38$$
$$a_{38,38} = \max_i |a_{i,38}^{(39-1)}| = 39$$
$$a_{39,39} = \max_i |a_{i,39}^{(40-1)}| = 40$$
$$a_{40,40} = \max_i |a_{i,40}^{(41-1)}| = 41$$
$$a_{41,41} = \max_i |a_{i,41}^{(42-1)}| = 42$$
$$a_{42,42} = \max_i |a_{i,42}^{(43-1)}| = 43$$
$$a_{43,43} = \max_i |a_{i,43}^{(44-1)}| = 44$$
$$a_{44,44} = \max_i |a_{i,44}^{(45-1)}| = 45$$
$$a_{45,45} = \max_i |a_{i,45}^{(46-1)}| = 46$$
$$a_{46,46} = \max_i |a_{i,46}^{(47-1)}| = 47$$
$$a_{47,47} = \max_i |a_{i,47}^{(48-1)}| = 48$$
$$a_{48,48} = \max_i |a_{i,48}^{(49-1)}| = 49$$
$$a_{49,49} = \max_i |a_{i,49}^{(50-1)}| = 50$$
$$a_{50,50} = \max_i |a_{i,50}^{(51-1)}| = 51$$
$$a_{51,51} = \max_i |a_{i,51}^{(52-1)}| = 52$$
$$a_{52,52} = \max_i |a_{i,52}^{(53-1)}| = 53$$
$$a_{53,53} = \max_i |a_{i,53}^{(54-1)}| = 54$$
$$a_{54,54} = \max_i |a_{i,54}^{(55-1)}| = 55$$
$$a_{55,55} = \max_i |a_{i,55}^{(56-1)}| = 56$$
$$a_{56,56} = \max_i |a_{i,56}^{(57-1)}| = 57$$
$$a_{57,57} = \max_i |a_{i,57}^{(58-1)}| = 58$$
$$a_{58,58} = \max_i |a_{i,58}^{(59-1)}| = 59$$
$$a_{59,59} = \max_i |a_{i,59}^{(60-1)}| = 60$$
$$a_{60,60} = \max_i |a_{i,60}^{(61-1)}| = 61$$
$$a_{61,61} = \max_i |a_{i,61}^{(62-1)}| = 62$$

$$a_{62,62} = \max_i |a_{i,62}^{(63-1)}| = 63$$
$$a_{63,63} = \max_i |a_{i,63}^{(64-1)}| = 64$$
$$a_{64,64} = \max_i |a_{i,64}^{(65-1)}| = 65$$
$$a_{65,65} = \max_i |a_{i,65}^{(66-1)}| = 66$$
$$a_{66,66} = \max_i |a_{i,66}^{(67-1)}| = 67$$
$$a_{67,67} = \max_i |a_{i,67}^{(68-1)}| = 68$$
$$a_{68,68} = \max_i |a_{i,68}^{(69-1)}| = 69$$
$$a_{69,69} = \max_i |a_{i,69}^{(70-1)}| = 70$$
$$a_{70,70} = \max_i |a_{i,70}^{(71-1)}| = 71$$
$$a_{71,71} = \max_i |a_{i,71}^{(72-1)}| = 72$$
$$a_{72,72} = \max_i |a_{i,72}^{(73-1)}| = 73$$

$$\bar{x} = \begin{pmatrix} -2699.00 \\ -2696.50 \\ -1795.33 \\ -1344.25 \\ -1073.20 \\ -892.17 \\ -762.57 \\ -665.12 \\ -589.11 \\ -528.10 \\ -478.00 \\ -436.08 \\ -400.46 \\ -369.79 \\ -343.07 \\ -319.56 \\ -298.71 \\ -280.06 \\ -263.26 \\ -248.05 \\ -234.19 \\ -221.50 \\ -209.83 \\ -199.04 \\ -189.04 \\ -179.73 \\ -171.04 \\ -162.89 \\ -155.24 \\ -148.03 \\ -141.23 \\ -134.78 \\ -128.67 \\ -122.85 \\ -117.31 \\ -112.03 \\ -106.97 \\ -102.13 \\ -97.49 \\ -93.03 \\ -88.73 \\ -84.60 \\ -80.60 \\ -76.75 \\ -73.02 \\ -69.41 \\ -65.91 \\ -62.52 \\ -59.22 \\ -56.02 \end{pmatrix}$$

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$$\Delta A = 4.4701154615126834e105$$

65 $\quad N = 74$

$A = \{a_{i,j} | i = 0..\overline{74}, j = 0..\overline{75}\}$

$a_{0,0} = \max_i |a_{i,0}^{(1-1)}| = 1$

$a_{1,1} = \max_i |a_{i,1}^{(2-1)}| = 2$

$a_{2,2} = \max_i |a_{i,2}^{(3-1)}| = 3$

$a_{3,3} = \max_i |a_{i,3}^{(4-1)}| = 4$

$a_{4,4} = \max_i |a_{i,4}^{(5-1)}| = 5$

$a_{5,5} = \max_i |a_{i,5}^{(6-1)}| = 6$

$a_{6,6} = \max_i |a_{i,6}^{(7-1)}| = 7$

$a_{7,7} = \max_i |a_{i,7}^{(8-1)}| = 8$

$a_{8,8} = \max_i |a_{i,8}^{(9-1)}| = 9$

$a_{9,9} = \max_i |a_{i,9}^{(10-1)}| = 10$

$a_{10,10} = \max_i |a_{i,10}^{(11-1)}| = 11$

$a_{11,11} = \max_i |a_{i,11}^{(12-1)}| = 12$

$a_{12,12} = \max_i |a_{i,12}^{(13-1)}| = 13$

$a_{13,13} = \max_i |a_{i,13}^{(14-1)}| = 14$

$a_{14,14} = \max_i |a_{i,14}^{(15-1)}| = 15$

$a_{15,15} = \max_i |a_{i,15}^{(16-1)}| = 16$

$a_{16,16} = \max_i |a_{i,16}^{(17-1)}| = 17$

$a_{17,17} = \max_i |a_{i,17}^{(18-1)}| = 18$

$a_{18,18} = \max_i |a_{i,18}^{(19-1)}| = 19$

$a_{19,19} = \max_i |a_{i,19}^{(20-1)}| = 20$

$a_{20,20} = \max_i |a_{i,20}^{(21-1)}| = 21$

$a_{21,21} = \max_i |a_{i,21}^{(22-1)}| = 22$

$a_{22,22} = \max_i |a_{i,22}^{(23-1)}| = 23$

$a_{23,23} = \max_i |a_{i,23}^{(24-1)}| = 24$

$a_{24,24} = \max_i |a_{i,24}^{(25-1)}| = 25$

$a_{25,25} = \max_i |a_{i,25}^{(26-1)}| = 26$

$a_{26,26} = \max_i |a_{i,26}^{(27-1)}| = 27$

$a_{27,27} = \max_i |a_{i,27}^{(28-1)}| = 28$

$a_{28,28} = \max_i |a_{i,28}^{(29-1)}| = 29$

$$a_{29,29} = \max_i |a_{i,29}^{(30-1)}| = 30$$
$$a_{30,30} = \max_i |a_{i,30}^{(31-1)}| = 31$$
$$a_{31,31} = \max_i |a_{i,31}^{(32-1)}| = 32$$
$$a_{32,32} = \max_i |a_{i,32}^{(33-1)}| = 33$$
$$a_{33,33} = \max_i |a_{i,33}^{(34-1)}| = 34$$
$$a_{34,34} = \max_i |a_{i,34}^{(35-1)}| = 35$$
$$a_{35,35} = \max_i |a_{i,35}^{(36-1)}| = 36$$
$$a_{36,36} = \max_i |a_{i,36}^{(37-1)}| = 37$$
$$a_{37,37} = \max_i |a_{i,37}^{(38-1)}| = 38$$
$$a_{38,38} = \max_i |a_{i,38}^{(39-1)}| = 39$$
$$a_{39,39} = \max_i |a_{i,39}^{(40-1)}| = 40$$
$$a_{40,40} = \max_i |a_{i,40}^{(41-1)}| = 41$$
$$a_{41,41} = \max_i |a_{i,41}^{(42-1)}| = 42$$
$$a_{42,42} = \max_i |a_{i,42}^{(43-1)}| = 43$$
$$a_{43,43} = \max_i |a_{i,43}^{(44-1)}| = 44$$
$$a_{44,44} = \max_i |a_{i,44}^{(45-1)}| = 45$$
$$a_{45,45} = \max_i |a_{i,45}^{(46-1)}| = 46$$
$$a_{46,46} = \max_i |a_{i,46}^{(47-1)}| = 47$$
$$a_{47,47} = \max_i |a_{i,47}^{(48-1)}| = 48$$
$$a_{48,48} = \max_i |a_{i,48}^{(49-1)}| = 49$$
$$a_{49,49} = \max_i |a_{i,49}^{(50-1)}| = 50$$
$$a_{50,50} = \max_i |a_{i,50}^{(51-1)}| = 51$$
$$a_{51,51} = \max_i |a_{i,51}^{(52-1)}| = 52$$
$$a_{52,52} = \max_i |a_{i,52}^{(53-1)}| = 53$$
$$a_{53,53} = \max_i |a_{i,53}^{(54-1)}| = 54$$
$$a_{54,54} = \max_i |a_{i,54}^{(55-1)}| = 55$$
$$a_{55,55} = \max_i |a_{i,55}^{(56-1)}| = 56$$
$$a_{56,56} = \max_i |a_{i,56}^{(57-1)}| = 57$$
$$a_{57,57} = \max_i |a_{i,57}^{(58-1)}| = 58$$
$$a_{58,58} = \max_i |a_{i,58}^{(59-1)}| = 59$$
$$a_{59,59} = \max_i |a_{i,59}^{(60-1)}| = 60$$
$$a_{60,60} = \max_i |a_{i,60}^{(61-1)}| = 61$$
$$a_{61,61} = \max_i |a_{i,61}^{(62-1)}| = 62$$

$$a_{62,62} = \max_i |a_{i,62}^{(63-1)}| = 63$$
$$a_{63,63} = \max_i |a_{i,63}^{(64-1)}| = 64$$
$$a_{64,64} = \max_i |a_{i,64}^{(65-1)}| = 65$$
$$a_{65,65} = \max_i |a_{i,65}^{(66-1)}| = 66$$
$$a_{66,66} = \max_i |a_{i,66}^{(67-1)}| = 67$$
$$a_{67,67} = \max_i |a_{i,67}^{(68-1)}| = 68$$
$$a_{68,68} = \max_i |a_{i,68}^{(69-1)}| = 69$$
$$a_{69,69} = \max_i |a_{i,69}^{(70-1)}| = 70$$
$$a_{70,70} = \max_i |a_{i,70}^{(71-1)}| = 71$$
$$a_{71,71} = \max_i |a_{i,71}^{(72-1)}| = 72$$
$$a_{72,72} = \max_i |a_{i,72}^{(73-1)}| = 73$$
$$a_{73,73} = \max_i |a_{i,73}^{(74-1)}| = 74$$

$$\bar{x} = \begin{pmatrix} -2773.00 \\ -2770.50 \\ -1844.67 \\ -1381.25 \\ -1102.80 \\ -916.83 \\ -783.71 \\ -683.62 \\ -605.56 \\ -542.90 \\ -491.45 \\ -448.42 \\ -411.85 \\ -380.36 \\ -352.93 \\ -328.81 \\ -307.41 \\ -288.28 \\ -271.05 \\ -255.45 \\ -241.24 \\ -228.23 \\ -216.26 \\ -205.21 \\ -194.96 \\ -185.42 \\ -176.52 \\ -168.18 \\ -160.34 \\ -152.97 \\ -146.00 \\ -139.41 \\ -133.15 \\ -127.21 \\ -121.54 \\ -116.14 \\ -110.97 \\ -106.03 \\ -101.28 \\ -96.73 \\ -92.34 \\ -88.12 \\ -84.05 \\ -80.11 \\ -76.31 \\ -72.63 \\ -69.06 \\ -65.60 \\ -62.24 \\ \end{pmatrix}$$

$$\Delta A = 3.3078854415193856e107$$

66 $N = 75$

$A = \{a_{i,j} | i = 0..\overline{75}, j = 0..\overline{76}\}$

$a_{0,0} = \max_i |a_{i,0}^{(1-1)}| = 1$

$a_{1,1} = \max_i |a_{i,1}^{(2-1)}| = 2$

$a_{2,2} = \max_i |a_{i,2}^{(3-1)}| = 3$

$a_{3,3} = \max_i |a_{i,3}^{(4-1)}| = 4$

$a_{4,4} = \max_i |a_{i,4}^{(5-1)}| = 5$

$a_{5,5} = \max_i |a_{i,5}^{(6-1)}| = 6$

$a_{6,6} = \max_i |a_{i,6}^{(7-1)}| = 7$

$a_{7,7} = \max_i |a_{i,7}^{(8-1)}| = 8$

$a_{8,8} = \max_i |a_{i,8}^{(9-1)}| = 9$

$a_{9,9} = \max_i |a_{i,9}^{(10-1)}| = 10$

$a_{10,10} = \max_i |a_{i,10}^{(11-1)}| = 11$

$a_{11,11} = \max_i |a_{i,11}^{(12-1)}| = 12$

$a_{12,12} = \max_i |a_{i,12}^{(13-1)}| = 13$

$a_{13,13} = \max_i |a_{i,13}^{(14-1)}| = 14$

$a_{14,14} = \max_i |a_{i,14}^{(15-1)}| = 15$

$a_{15,15} = \max_i |a_{i,15}^{(16-1)}| = 16$

$a_{16,16} = \max_i |a_{i,16}^{(17-1)}| = 17$

$a_{17,17} = \max_i |a_{i,17}^{(18-1)}| = 18$

$a_{18,18} = \max_i |a_{i,18}^{(19-1)}| = 19$

$a_{19,19} = \max_i |a_{i,19}^{(20-1)}| = 20$

$a_{20,20} = \max_i |a_{i,20}^{(21-1)}| = 21$

$a_{21,21} = \max_i |a_{i,21}^{(22-1)}| = 22$

$a_{22,22} = \max_i |a_{i,22}^{(23-1)}| = 23$

$a_{23,23} = \max_i |a_{i,23}^{(24-1)}| = 24$

$a_{24,24} = \max_i |a_{i,24}^{(25-1)}| = 25$

$a_{25,25} = \max_i |a_{i,25}^{(26-1)}| = 26$

$a_{26,26} = \max_i |a_{i,26}^{(27-1)}| = 27$

$a_{27,27} = \max_i |a_{i,27}^{(28-1)}| = 28$

$a_{28,28} = \max_i |a_{i,28}^{(29-1)}| = 29$

$$a_{29,29} = \max_i |a_{i,29}^{(30-1)}| = 30$$
$$a_{30,30} = \max_i |a_{i,30}^{(31-1)}| = 31$$
$$a_{31,31} = \max_i |a_{i,31}^{(32-1)}| = 32$$
$$a_{32,32} = \max_i |a_{i,32}^{(33-1)}| = 33$$
$$a_{33,33} = \max_i |a_{i,33}^{(34-1)}| = 34$$
$$a_{34,34} = \max_i |a_{i,34}^{(35-1)}| = 35$$
$$a_{35,35} = \max_i |a_{i,35}^{(36-1)}| = 36$$
$$a_{36,36} = \max_i |a_{i,36}^{(37-1)}| = 37$$
$$a_{37,37} = \max_i |a_{i,37}^{(38-1)}| = 38$$
$$a_{38,38} = \max_i |a_{i,38}^{(39-1)}| = 39$$
$$a_{39,39} = \max_i |a_{i,39}^{(40-1)}| = 40$$
$$a_{40,40} = \max_i |a_{i,40}^{(41-1)}| = 41$$
$$a_{41,41} = \max_i |a_{i,41}^{(42-1)}| = 42$$
$$a_{42,42} = \max_i |a_{i,42}^{(43-1)}| = 43$$
$$a_{43,43} = \max_i |a_{i,43}^{(44-1)}| = 44$$
$$a_{44,44} = \max_i |a_{i,44}^{(45-1)}| = 45$$
$$a_{45,45} = \max_i |a_{i,45}^{(46-1)}| = 46$$
$$a_{46,46} = \max_i |a_{i,46}^{(47-1)}| = 47$$
$$a_{47,47} = \max_i |a_{i,47}^{(48-1)}| = 48$$
$$a_{48,48} = \max_i |a_{i,48}^{(49-1)}| = 49$$
$$a_{49,49} = \max_i |a_{i,49}^{(50-1)}| = 50$$
$$a_{50,50} = \max_i |a_{i,50}^{(51-1)}| = 51$$
$$a_{51,51} = \max_i |a_{i,51}^{(52-1)}| = 52$$
$$a_{52,52} = \max_i |a_{i,52}^{(53-1)}| = 53$$
$$a_{53,53} = \max_i |a_{i,53}^{(54-1)}| = 54$$
$$a_{54,54} = \max_i |a_{i,54}^{(55-1)}| = 55$$
$$a_{55,55} = \max_i |a_{i,55}^{(56-1)}| = 56$$
$$a_{56,56} = \max_i |a_{i,56}^{(57-1)}| = 57$$
$$a_{57,57} = \max_i |a_{i,57}^{(58-1)}| = 58$$
$$a_{58,58} = \max_i |a_{i,58}^{(59-1)}| = 59$$
$$a_{59,59} = \max_i |a_{i,59}^{(60-1)}| = 60$$
$$a_{60,60} = \max_i |a_{i,60}^{(61-1)}| = 61$$
$$a_{61,61} = \max_i |a_{i,61}^{(62-1)}| = 62$$

$$a_{62,62} = \max_i |a_{i,62}^{(63-1)}| = 63$$
$$a_{63,63} = \max_i |a_{i,63}^{(64-1)}| = 64$$
$$a_{64,64} = \max_i |a_{i,64}^{(65-1)}| = 65$$
$$a_{65,65} = \max_i |a_{i,65}^{(66-1)}| = 66$$
$$a_{66,66} = \max_i |a_{i,66}^{(67-1)}| = 67$$
$$a_{67,67} = \max_i |a_{i,67}^{(68-1)}| = 68$$
$$a_{68,68} = \max_i |a_{i,68}^{(69-1)}| = 69$$
$$a_{69,69} = \max_i |a_{i,69}^{(70-1)}| = 70$$
$$a_{70,70} = \max_i |a_{i,70}^{(71-1)}| = 71$$
$$a_{71,71} = \max_i |a_{i,71}^{(72-1)}| = 72$$
$$a_{72,72} = \max_i |a_{i,72}^{(73-1)}| = 73$$
$$a_{73,73} = \max_i |a_{i,73}^{(74-1)}| = 74$$
$$a_{74,74} = \max_i |a_{i,74}^{(75-1)}| = 75$$

$$\bar{x} = \begin{pmatrix} -2848.00 \\ -2845.50 \\ -1894.67 \\ -1418.75 \\ -1132.80 \\ -941.83 \\ -805.14 \\ -702.38 \\ -622.22 \\ -557.90 \\ -505.09 \\ -460.92 \\ -423.38 \\ -391.07 \\ -362.93 \\ -338.19 \\ -316.24 \\ -296.61 \\ -278.95 \\ -262.95 \\ -248.38 \\ -235.05 \\ -222.78 \\ -211.46 \\ -200.96 \\ -191.19 \\ -182.07 \\ -173.54 \\ -165.52 \\ -157.97 \\ -150.84 \\ -144.09 \\ -137.70 \\ -131.62 \\ -125.83 \\ -120.31 \\ -115.03 \\ -109.97 \\ -105.13 \\ -100.48 \\ -96.00 \\ -91.69 \\ -87.53 \\ -83.52 \\ -79.64 \\ -75.89 \\ -72.26 \\ -68.73 \\ -65.31 \\ -61.98 \end{pmatrix}$$

172

$$\Delta A = 2.480914081139539e109$$

67 $N = 76$

$A = \{a_{i,j} | i = 0..\overline{7}6, j = 0..\overline{7}7\}$

$a_{0,0} = \max_i |a_{i,0}^{(1-1)}| = 1$

$a_{1,1} = \max_i |a_{i,1}^{(2-1)}| = 2$

$a_{2,2} = \max_i |a_{i,2}^{(3-1)}| = 3$

$a_{3,3} = \max_i |a_{i,3}^{(4-1)}| = 4$

$a_{4,4} = \max_i |a_{i,4}^{(5-1)}| = 5$

$a_{5,5} = \max_i |a_{i,5}^{(6-1)}| = 6$

$a_{6,6} = \max_i |a_{i,6}^{(7-1)}| = 7$

$a_{7,7} = \max_i |a_{i,7}^{(8-1)}| = 8$

$a_{8,8} = \max_i |a_{i,8}^{(9-1)}| = 9$

$a_{9,9} = \max_i |a_{i,9}^{(10-1)}| = 10$

$a_{10,10} = \max_i |a_{i,10}^{(11-1)}| = 11$

$a_{11,11} = \max_i |a_{i,11}^{(12-1)}| = 12$

$a_{12,12} = \max_i |a_{i,12}^{(13-1)}| = 13$

$a_{13,13} = \max_i |a_{i,13}^{(14-1)}| = 14$

$a_{14,14} = \max_i |a_{i,14}^{(15-1)}| = 15$

$a_{15,15} = \max_i |a_{i,15}^{(16-1)}| = 16$

$a_{16,16} = \max_i |a_{i,16}^{(17-1)}| = 17$

$a_{17,17} = \max_i |a_{i,17}^{(18-1)}| = 18$

$a_{18,18} = \max_i |a_{i,18}^{(19-1)}| = 19$

$a_{19,19} = \max_i |a_{i,19}^{(20-1)}| = 20$

$a_{20,20} = \max_i |a_{i,20}^{(21-1)}| = 21$

$a_{21,21} = \max_i |a_{i,21}^{(22-1)}| = 22$

$a_{22,22} = \max_i |a_{i,22}^{(23-1)}| = 23$

$a_{23,23} = \max_i |a_{i,23}^{(24-1)}| = 24$

$a_{24,24} = \max_i |a_{i,24}^{(25-1)}| = 25$

$a_{25,25} = \max_i |a_{i,25}^{(26-1)}| = 26$

$a_{26,26} = \max_i |a_{i,26}^{(27-1)}| = 27$

$a_{27,27} = \max_i |a_{i,27}^{(28-1)}| = 28$

$a_{28,28} = \max_i |a_{i,28}^{(29-1)}| = 29$

$$a_{29,29} = \max_i |a_{i,29}^{(30-1)}| = 30$$
$$a_{30,30} = \max_i |a_{i,30}^{(31-1)}| = 31$$
$$a_{31,31} = \max_i |a_{i,31}^{(32-1)}| = 32$$
$$a_{32,32} = \max_i |a_{i,32}^{(33-1)}| = 33$$
$$a_{33,33} = \max_i |a_{i,33}^{(34-1)}| = 34$$
$$a_{34,34} = \max_i |a_{i,34}^{(35-1)}| = 35$$
$$a_{35,35} = \max_i |a_{i,35}^{(36-1)}| = 36$$
$$a_{36,36} = \max_i |a_{i,36}^{(37-1)}| = 37$$
$$a_{37,37} = \max_i |a_{i,37}^{(38-1)}| = 38$$
$$a_{38,38} = \max_i |a_{i,38}^{(39-1)}| = 39$$
$$a_{39,39} = \max_i |a_{i,39}^{(40-1)}| = 40$$
$$a_{40,40} = \max_i |a_{i,40}^{(41-1)}| = 41$$
$$a_{41,41} = \max_i |a_{i,41}^{(42-1)}| = 42$$
$$a_{42,42} = \max_i |a_{i,42}^{(43-1)}| = 43$$
$$a_{43,43} = \max_i |a_{i,43}^{(44-1)}| = 44$$
$$a_{44,44} = \max_i |a_{i,44}^{(45-1)}| = 45$$
$$a_{45,45} = \max_i |a_{i,45}^{(46-1)}| = 46$$
$$a_{46,46} = \max_i |a_{i,46}^{(47-1)}| = 47$$
$$a_{47,47} = \max_i |a_{i,47}^{(48-1)}| = 48$$
$$a_{48,48} = \max_i |a_{i,48}^{(49-1)}| = 49$$
$$a_{49,49} = \max_i |a_{i,49}^{(50-1)}| = 50$$
$$a_{50,50} = \max_i |a_{i,50}^{(51-1)}| = 51$$
$$a_{51,51} = \max_i |a_{i,51}^{(52-1)}| = 52$$
$$a_{52,52} = \max_i |a_{i,52}^{(53-1)}| = 53$$
$$a_{53,53} = \max_i |a_{i,53}^{(54-1)}| = 54$$
$$a_{54,54} = \max_i |a_{i,54}^{(55-1)}| = 55$$
$$a_{55,55} = \max_i |a_{i,55}^{(56-1)}| = 56$$
$$a_{56,56} = \max_i |a_{i,56}^{(57-1)}| = 57$$
$$a_{57,57} = \max_i |a_{i,57}^{(58-1)}| = 58$$
$$a_{58,58} = \max_i |a_{i,58}^{(59-1)}| = 59$$
$$a_{59,59} = \max_i |a_{i,59}^{(60-1)}| = 60$$
$$a_{60,60} = \max_i |a_{i,60}^{(61-1)}| = 61$$
$$a_{61,61} = \max_i |a_{i,61}^{(62-1)}| = 62$$

$$a_{62,62} = \max_i |a_{i,62}^{(63-1)}| = 63$$
$$a_{63,63} = \max_i |a_{i,63}^{(64-1)}| = 64$$
$$a_{64,64} = \max_i |a_{i,64}^{(65-1)}| = 65$$
$$a_{65,65} = \max_i |a_{i,65}^{(66-1)}| = 66$$
$$a_{66,66} = \max_i |a_{i,66}^{(67-1)}| = 67$$
$$a_{67,67} = \max_i |a_{i,67}^{(68-1)}| = 68$$
$$a_{68,68} = \max_i |a_{i,68}^{(69-1)}| = 69$$
$$a_{69,69} = \max_i |a_{i,69}^{(70-1)}| = 70$$
$$a_{70,70} = \max_i |a_{i,70}^{(71-1)}| = 71$$
$$a_{71,71} = \max_i |a_{i,71}^{(72-1)}| = 72$$
$$a_{72,72} = \max_i |a_{i,72}^{(73-1)}| = 73$$
$$a_{73,73} = \max_i |a_{i,73}^{(74-1)}| = 74$$
$$a_{74,74} = \max_i |a_{i,74}^{(75-1)}| = 75$$
$$a_{75,75} = \max_i |a_{i,75}^{(76-1)}| = 76$$

$$\bar{x} = \begin{pmatrix} -2924.00 \\ -2921.50 \\ -1945.33 \\ -1456.75 \\ -1163.20 \\ -967.17 \\ -826.86 \\ -721.38 \\ -639.11 \\ -573.10 \\ -518.91 \\ -473.58 \\ -435.08 \\ -401.93 \\ -373.07 \\ -347.69 \\ -325.18 \\ -305.06 \\ -286.95 \\ -270.55 \\ -255.62 \\ -241.95 \\ -229.39 \\ -217.79 \\ -207.04 \\ -197.04 \\ -187.70 \\ -178.96 \\ -170.76 \\ -163.03 \\ -155.74 \\ -148.84 \\ -142.30 \\ -136.09 \\ -130.17 \\ -124.53 \\ -119.14 \\ -113.97 \\ -109.03 \\ -104.28 \\ -99.71 \\ -95.31 \\ -91.07 \\ -86.98 \\ -83.02 \\ -79.20 \\ -75.49 \\ -71.90 \\ -68.41 \\ -65.02 \end{pmatrix}$$

176

$$\Delta A = 1.8854947016660498e111$$

68 $N = 77$

$A = \{a_{i,j} | i = 0..\overline{77}, j = 0..\overline{78}\}$

$a_{0,0} = \max_i |a_{i,0}^{(1-1)}| = 1$

$a_{1,1} = \max_i |a_{i,1}^{(2-1)}| = 2$

$a_{2,2} = \max_i |a_{i,2}^{(3-1)}| = 3$

$a_{3,3} = \max_i |a_{i,3}^{(4-1)}| = 4$

$a_{4,4} = \max_i |a_{i,4}^{(5-1)}| = 5$

$a_{5,5} = \max_i |a_{i,5}^{(6-1)}| = 6$

$a_{6,6} = \max_i |a_{i,6}^{(7-1)}| = 7$

$a_{7,7} = \max_i |a_{i,7}^{(8-1)}| = 8$

$a_{8,8} = \max_i |a_{i,8}^{(9-1)}| = 9$

$a_{9,9} = \max_i |a_{i,9}^{(10-1)}| = 10$

$a_{10,10} = \max_i |a_{i,10}^{(11-1)}| = 11$

$a_{11,11} = \max_i |a_{i,11}^{(12-1)}| = 12$

$a_{12,12} = \max_i |a_{i,12}^{(13-1)}| = 13$

$a_{13,13} = \max_i |a_{i,13}^{(14-1)}| = 14$

$a_{14,14} = \max_i |a_{i,14}^{(15-1)}| = 15$

$a_{15,15} = \max_i |a_{i,15}^{(16-1)}| = 16$

$a_{16,16} = \max_i |a_{i,16}^{(17-1)}| = 17$

$a_{17,17} = \max_i |a_{i,17}^{(18-1)}| = 18$

$a_{18,18} = \max_i |a_{i,18}^{(19-1)}| = 19$

$a_{19,19} = \max_i |a_{i,19}^{(20-1)}| = 20$

$a_{20,20} = \max_i |a_{i,20}^{(21-1)}| = 21$

$a_{21,21} = \max_i |a_{i,21}^{(22-1)}| = 22$

$a_{22,22} = \max_i |a_{i,22}^{(23-1)}| = 23$

$a_{23,23} = \max_i |a_{i,23}^{(24-1)}| = 24$

$a_{24,24} = \max_i |a_{i,24}^{(25-1)}| = 25$

$a_{25,25} = \max_i |a_{i,25}^{(26-1)}| = 26$

$a_{26,26} = \max_i |a_{i,26}^{(27-1)}| = 27$

$a_{27,27} = \max_i |a_{i,27}^{(28-1)}| = 28$

$a_{28,28} = \max_i |a_{i,28}^{(29-1)}| = 29$

$$a_{29,29} = \max_i |a_{i,29}^{(30-1)}| = 30$$
$$a_{30,30} = \max_i |a_{i,30}^{(31-1)}| = 31$$
$$a_{31,31} = \max_i |a_{i,31}^{(32-1)}| = 32$$
$$a_{32,32} = \max_i |a_{i,32}^{(33-1)}| = 33$$
$$a_{33,33} = \max_i |a_{i,33}^{(34-1)}| = 34$$
$$a_{34,34} = \max_i |a_{i,34}^{(35-1)}| = 35$$
$$a_{35,35} = \max_i |a_{i,35}^{(36-1)}| = 36$$
$$a_{36,36} = \max_i |a_{i,36}^{(37-1)}| = 37$$
$$a_{37,37} = \max_i |a_{i,37}^{(38-1)}| = 38$$
$$a_{38,38} = \max_i |a_{i,38}^{(39-1)}| = 39$$
$$a_{39,39} = \max_i |a_{i,39}^{(40-1)}| = 40$$
$$a_{40,40} = \max_i |a_{i,40}^{(41-1)}| = 41$$
$$a_{41,41} = \max_i |a_{i,41}^{(42-1)}| = 42$$
$$a_{42,42} = \max_i |a_{i,42}^{(43-1)}| = 43$$
$$a_{43,43} = \max_i |a_{i,43}^{(44-1)}| = 44$$
$$a_{44,44} = \max_i |a_{i,44}^{(45-1)}| = 45$$
$$a_{45,45} = \max_i |a_{i,45}^{(46-1)}| = 46$$
$$a_{46,46} = \max_i |a_{i,46}^{(47-1)}| = 47$$
$$a_{47,47} = \max_i |a_{i,47}^{(48-1)}| = 48$$
$$a_{48,48} = \max_i |a_{i,48}^{(49-1)}| = 49$$
$$a_{49,49} = \max_i |a_{i,49}^{(50-1)}| = 50$$
$$a_{50,50} = \max_i |a_{i,50}^{(51-1)}| = 51$$
$$a_{51,51} = \max_i |a_{i,51}^{(52-1)}| = 52$$
$$a_{52,52} = \max_i |a_{i,52}^{(53-1)}| = 53$$
$$a_{53,53} = \max_i |a_{i,53}^{(54-1)}| = 54$$
$$a_{54,54} = \max_i |a_{i,54}^{(55-1)}| = 55$$
$$a_{55,55} = \max_i |a_{i,55}^{(56-1)}| = 56$$
$$a_{56,56} = \max_i |a_{i,56}^{(57-1)}| = 57$$
$$a_{57,57} = \max_i |a_{i,57}^{(58-1)}| = 58$$
$$a_{58,58} = \max_i |a_{i,58}^{(59-1)}| = 59$$
$$a_{59,59} = \max_i |a_{i,59}^{(60-1)}| = 60$$
$$a_{60,60} = \max_i |a_{i,60}^{(61-1)}| = 61$$
$$a_{61,61} = \max_i |a_{i,61}^{(62-1)}| = 62$$

$$a_{62,62} = \max_i |a_{i,62}^{(63-1)}| = 63$$
$$a_{63,63} = \max_i |a_{i,63}^{(64-1)}| = 64$$
$$a_{64,64} = \max_i |a_{i,64}^{(65-1)}| = 65$$
$$a_{65,65} = \max_i |a_{i,65}^{(66-1)}| = 66$$
$$a_{66,66} = \max_i |a_{i,66}^{(67-1)}| = 67$$
$$a_{67,67} = \max_i |a_{i,67}^{(68-1)}| = 68$$
$$a_{68,68} = \max_i |a_{i,68}^{(69-1)}| = 69$$
$$a_{69,69} = \max_i |a_{i,69}^{(70-1)}| = 70$$
$$a_{70,70} = \max_i |a_{i,70}^{(71-1)}| = 71$$
$$a_{71,71} = \max_i |a_{i,71}^{(72-1)}| = 72$$
$$a_{72,72} = \max_i |a_{i,72}^{(73-1)}| = 73$$
$$a_{73,73} = \max_i |a_{i,73}^{(74-1)}| = 74$$
$$a_{74,74} = \max_i |a_{i,74}^{(75-1)}| = 75$$
$$a_{75,75} = \max_i |a_{i,75}^{(76-1)}| = 76$$
$$a_{76,76} = \max_i |a_{i,76}^{(77-1)}| = 77$$

$$\bar{x} = \begin{pmatrix} -3001.00 \\ -2998.50 \\ -1996.67 \\ -1495.25 \\ -1194.00 \\ -992.83 \\ -848.86 \\ -740.62 \\ -656.22 \\ -588.50 \\ -532.91 \\ -486.42 \\ -446.92 \\ -412.93 \\ -383.33 \\ -357.31 \\ -334.24 \\ -313.61 \\ -295.05 \\ -278.25 \\ -262.95 \\ -248.95 \\ -236.09 \\ -224.21 \\ -213.20 \\ -202.96 \\ -193.41 \\ -184.46 \\ -176.07 \\ -168.17 \\ -160.71 \\ -153.66 \\ -146.97 \\ -140.62 \\ -134.57 \\ -128.81 \\ -123.30 \\ -118.03 \\ -112.97 \\ -108.12 \\ -103.46 \\ -98.98 \\ -94.65 \\ -90.48 \\ -86.44 \\ -82.54 \\ -78.77 \\ -75.10 \\ -71.55 \\ -68.10 \end{pmatrix}$$

180

$$\Delta A = 1.4518309202828584e113$$

69 $N = 78$

$A = \{a_{i,j} | i = 0..\overline{7}8, j = 0..\overline{7}9\}$

$a_{0,0} = \max_i |a_{i,0}^{(1-1)}| = 1$

$a_{1,1} = \max_i |a_{i,1}^{(2-1)}| = 2$

$a_{2,2} = \max_i |a_{i,2}^{(3-1)}| = 3$

$a_{3,3} = \max_i |a_{i,3}^{(4-1)}| = 4$

$a_{4,4} = \max_i |a_{i,4}^{(5-1)}| = 5$

$a_{5,5} = \max_i |a_{i,5}^{(6-1)}| = 6$

$a_{6,6} = \max_i |a_{i,6}^{(7-1)}| = 7$

$a_{7,7} = \max_i |a_{i,7}^{(8-1)}| = 8$

$a_{8,8} = \max_i |a_{i,8}^{(9-1)}| = 9$

$a_{9,9} = \max_i |a_{i,9}^{(10-1)}| = 10$

$a_{10,10} = \max_i |a_{i,10}^{(11-1)}| = 11$

$a_{11,11} = \max_i |a_{i,11}^{(12-1)}| = 12$

$a_{12,12} = \max_i |a_{i,12}^{(13-1)}| = 13$

$a_{13,13} = \max_i |a_{i,13}^{(14-1)}| = 14$

$a_{14,14} = \max_i |a_{i,14}^{(15-1)}| = 15$

$a_{15,15} = \max_i |a_{i,15}^{(16-1)}| = 16$

$a_{16,16} = \max_i |a_{i,16}^{(17-1)}| = 17$

$a_{17,17} = \max_i |a_{i,17}^{(18-1)}| = 18$

$a_{18,18} = \max_i |a_{i,18}^{(19-1)}| = 19$

$a_{19,19} = \max_i |a_{i,19}^{(20-1)}| = 20$

$a_{20,20} = \max_i |a_{i,20}^{(21-1)}| = 21$

$a_{21,21} = \max_i |a_{i,21}^{(22-1)}| = 22$

$a_{22,22} = \max_i |a_{i,22}^{(23-1)}| = 23$

$a_{23,23} = \max_i |a_{i,23}^{(24-1)}| = 24$

$a_{24,24} = \max_i |a_{i,24}^{(25-1)}| = 25$

$a_{25,25} = \max_i |a_{i,25}^{(26-1)}| = 26$

$a_{26,26} = \max_i |a_{i,26}^{(27-1)}| = 27$

$a_{27,27} = \max_i |a_{i,27}^{(28-1)}| = 28$

$a_{28,28} = \max_i |a_{i,28}^{(29-1)}| = 29$

$$a_{29,29} = \max_i |a_{i,29}^{(30-1)}| = 30$$
$$a_{30,30} = \max_i |a_{i,30}^{(31-1)}| = 31$$
$$a_{31,31} = \max_i |a_{i,31}^{(32-1)}| = 32$$
$$a_{32,32} = \max_i |a_{i,32}^{(33-1)}| = 33$$
$$a_{33,33} = \max_i |a_{i,33}^{(34-1)}| = 34$$
$$a_{34,34} = \max_i |a_{i,34}^{(35-1)}| = 35$$
$$a_{35,35} = \max_i |a_{i,35}^{(36-1)}| = 36$$
$$a_{36,36} = \max_i |a_{i,36}^{(37-1)}| = 37$$
$$a_{37,37} = \max_i |a_{i,37}^{(38-1)}| = 38$$
$$a_{38,38} = \max_i |a_{i,38}^{(39-1)}| = 39$$
$$a_{39,39} = \max_i |a_{i,39}^{(40-1)}| = 40$$
$$a_{40,40} = \max_i |a_{i,40}^{(41-1)}| = 41$$
$$a_{41,41} = \max_i |a_{i,41}^{(42-1)}| = 42$$
$$a_{42,42} = \max_i |a_{i,42}^{(43-1)}| = 43$$
$$a_{43,43} = \max_i |a_{i,43}^{(44-1)}| = 44$$
$$a_{44,44} = \max_i |a_{i,44}^{(45-1)}| = 45$$
$$a_{45,45} = \max_i |a_{i,45}^{(46-1)}| = 46$$
$$a_{46,46} = \max_i |a_{i,46}^{(47-1)}| = 47$$
$$a_{47,47} = \max_i |a_{i,47}^{(48-1)}| = 48$$
$$a_{48,48} = \max_i |a_{i,48}^{(49-1)}| = 49$$
$$a_{49,49} = \max_i |a_{i,49}^{(50-1)}| = 50$$
$$a_{50,50} = \max_i |a_{i,50}^{(51-1)}| = 51$$
$$a_{51,51} = \max_i |a_{i,51}^{(52-1)}| = 52$$
$$a_{52,52} = \max_i |a_{i,52}^{(53-1)}| = 53$$
$$a_{53,53} = \max_i |a_{i,53}^{(54-1)}| = 54$$
$$a_{54,54} = \max_i |a_{i,54}^{(55-1)}| = 55$$
$$a_{55,55} = \max_i |a_{i,55}^{(56-1)}| = 56$$
$$a_{56,56} = \max_i |a_{i,56}^{(57-1)}| = 57$$
$$a_{57,57} = \max_i |a_{i,57}^{(58-1)}| = 58$$
$$a_{58,58} = \max_i |a_{i,58}^{(59-1)}| = 59$$
$$a_{59,59} = \max_i |a_{i,59}^{(60-1)}| = 60$$
$$a_{60,60} = \max_i |a_{i,60}^{(61-1)}| = 61$$
$$a_{61,61} = \max_i |a_{i,61}^{(62-1)}| = 62$$

$$a_{62,62} = \max_i |a_{i,62}^{(63-1)}| = 63$$
$$a_{63,63} = \max_i |a_{i,63}^{(64-1)}| = 64$$
$$a_{64,64} = \max_i |a_{i,64}^{(65-1)}| = 65$$
$$a_{65,65} = \max_i |a_{i,65}^{(66-1)}| = 66$$
$$a_{66,66} = \max_i |a_{i,66}^{(67-1)}| = 67$$
$$a_{67,67} = \max_i |a_{i,67}^{(68-1)}| = 68$$
$$a_{68,68} = \max_i |a_{i,68}^{(69-1)}| = 69$$
$$a_{69,69} = \max_i |a_{i,69}^{(70-1)}| = 70$$
$$a_{70,70} = \max_i |a_{i,70}^{(71-1)}| = 71$$
$$a_{71,71} = \max_i |a_{i,71}^{(72-1)}| = 72$$
$$a_{72,72} = \max_i |a_{i,72}^{(73-1)}| = 73$$
$$a_{73,73} = \max_i |a_{i,73}^{(74-1)}| = 74$$
$$a_{74,74} = \max_i |a_{i,74}^{(75-1)}| = 75$$
$$a_{75,75} = \max_i |a_{i,75}^{(76-1)}| = 76$$
$$a_{76,76} = \max_i |a_{i,76}^{(77-1)}| = 77$$
$$a_{77,77} = \max_i |a_{i,77}^{(78-1)}| = 78$$

$$\bar{x} = \begin{pmatrix} -3079.00 \\ -3076.50 \\ -2048.67 \\ -1534.25 \\ -1225.20 \\ -1018.83 \\ -871.14 \\ -760.12 \\ -673.56 \\ -604.10 \\ -547.09 \\ -499.42 \\ -458.92 \\ -424.07 \\ -393.73 \\ -367.06 \\ -343.41 \\ -322.28 \\ -303.26 \\ -286.05 \\ -270.38 \\ -256.05 \\ -242.87 \\ -230.71 \\ -219.44 \\ -208.96 \\ -199.19 \\ -190.04 \\ -181.45 \\ -173.37 \\ -165.74 \\ -158.53 \\ -151.70 \\ -145.21 \\ -139.03 \\ -133.14 \\ -127.51 \\ -122.13 \\ -116.97 \\ -112.03 \\ -107.27 \\ -102.69 \\ -98.28 \\ -94.02 \\ -89.91 \\ -85.93 \\ -82.09 \\ -78.35 \\ -74.73 \end{pmatrix}$$

184

$$\Delta A = 1.1324281178206295e115$$

70 $N = 79$

$A = \{a_{i,j} | i = 0..\overline{7}9, j = 0..\overline{8}0\}$

$a_{0,0} = \max_i |a_{i,0}^{(1-1)}| = 1$

$a_{1,1} = \max_i |a_{i,1}^{(2-1)}| = 2$

$a_{2,2} = \max_i |a_{i,2}^{(3-1)}| = 3$

$a_{3,3} = \max_i |a_{i,3}^{(4-1)}| = 4$

$a_{4,4} = \max_i |a_{i,4}^{(5-1)}| = 5$

$a_{5,5} = \max_i |a_{i,5}^{(6-1)}| = 6$

$a_{6,6} = \max_i |a_{i,6}^{(7-1)}| = 7$

$a_{7,7} = \max_i |a_{i,7}^{(8-1)}| = 8$

$a_{8,8} = \max_i |a_{i,8}^{(9-1)}| = 9$

$a_{9,9} = \max_i |a_{i,9}^{(10-1)}| = 10$

$a_{10,10} = \max_i |a_{i,10}^{(11-1)}| = 11$

$a_{11,11} = \max_i |a_{i,11}^{(12-1)}| = 12$

$a_{12,12} = \max_i |a_{i,12}^{(13-1)}| = 13$

$a_{13,13} = \max_i |a_{i,13}^{(14-1)}| = 14$

$a_{14,14} = \max_i |a_{i,14}^{(15-1)}| = 15$

$a_{15,15} = \max_i |a_{i,15}^{(16-1)}| = 16$

$a_{16,16} = \max_i |a_{i,16}^{(17-1)}| = 17$

$a_{17,17} = \max_i |a_{i,17}^{(18-1)}| = 18$

$a_{18,18} = \max_i |a_{i,18}^{(19-1)}| = 19$

$a_{19,19} = \max_i |a_{i,19}^{(20-1)}| = 20$

$a_{20,20} = \max_i |a_{i,20}^{(21-1)}| = 21$

$a_{21,21} = \max_i |a_{i,21}^{(22-1)}| = 22$

$a_{22,22} = \max_i |a_{i,22}^{(23-1)}| = 23$

$a_{23,23} = \max_i |a_{i,23}^{(24-1)}| = 24$

$a_{24,24} = \max_i |a_{i,24}^{(25-1)}| = 25$

$a_{25,25} = \max_i |a_{i,25}^{(26-1)}| = 26$

$a_{26,26} = \max_i |a_{i,26}^{(27-1)}| = 27$

$a_{27,27} = \max_i |a_{i,27}^{(28-1)}| = 28$

$a_{28,28} = \max_i |a_{i,28}^{(29-1)}| = 29$

$$a_{29,29} = \max_i |a_{i,29}^{(30-1)}| = 30$$
$$a_{30,30} = \max_i |a_{i,30}^{(31-1)}| = 31$$
$$a_{31,31} = \max_i |a_{i,31}^{(32-1)}| = 32$$
$$a_{32,32} = \max_i |a_{i,32}^{(33-1)}| = 33$$
$$a_{33,33} = \max_i |a_{i,33}^{(34-1)}| = 34$$
$$a_{34,34} = \max_i |a_{i,34}^{(35-1)}| = 35$$
$$a_{35,35} = \max_i |a_{i,35}^{(36-1)}| = 36$$
$$a_{36,36} = \max_i |a_{i,36}^{(37-1)}| = 37$$
$$a_{37,37} = \max_i |a_{i,37}^{(38-1)}| = 38$$
$$a_{38,38} = \max_i |a_{i,38}^{(39-1)}| = 39$$
$$a_{39,39} = \max_i |a_{i,39}^{(40-1)}| = 40$$
$$a_{40,40} = \max_i |a_{i,40}^{(41-1)}| = 41$$
$$a_{41,41} = \max_i |a_{i,41}^{(42-1)}| = 42$$
$$a_{42,42} = \max_i |a_{i,42}^{(43-1)}| = 43$$
$$a_{43,43} = \max_i |a_{i,43}^{(44-1)}| = 44$$
$$a_{44,44} = \max_i |a_{i,44}^{(45-1)}| = 45$$
$$a_{45,45} = \max_i |a_{i,45}^{(46-1)}| = 46$$
$$a_{46,46} = \max_i |a_{i,46}^{(47-1)}| = 47$$
$$a_{47,47} = \max_i |a_{i,47}^{(48-1)}| = 48$$
$$a_{48,48} = \max_i |a_{i,48}^{(49-1)}| = 49$$
$$a_{49,49} = \max_i |a_{i,49}^{(50-1)}| = 50$$
$$a_{50,50} = \max_i |a_{i,50}^{(51-1)}| = 51$$
$$a_{51,51} = \max_i |a_{i,51}^{(52-1)}| = 52$$
$$a_{52,52} = \max_i |a_{i,52}^{(53-1)}| = 53$$
$$a_{53,53} = \max_i |a_{i,53}^{(54-1)}| = 54$$
$$a_{54,54} = \max_i |a_{i,54}^{(55-1)}| = 55$$
$$a_{55,55} = \max_i |a_{i,55}^{(56-1)}| = 56$$
$$a_{56,56} = \max_i |a_{i,56}^{(57-1)}| = 57$$
$$a_{57,57} = \max_i |a_{i,57}^{(58-1)}| = 58$$
$$a_{58,58} = \max_i |a_{i,58}^{(59-1)}| = 59$$
$$a_{59,59} = \max_i |a_{i,59}^{(60-1)}| = 60$$
$$a_{60,60} = \max_i |a_{i,60}^{(61-1)}| = 61$$
$$a_{61,61} = \max_i |a_{i,61}^{(62-1)}| = 62$$

$$a_{62,62} = \max_i |a_{i,62}^{(63-1)}| = 63$$
$$a_{63,63} = \max_i |a_{i,63}^{(64-1)}| = 64$$
$$a_{64,64} = \max_i |a_{i,64}^{(65-1)}| = 65$$
$$a_{65,65} = \max_i |a_{i,65}^{(66-1)}| = 66$$
$$a_{66,66} = \max_i |a_{i,66}^{(67-1)}| = 67$$
$$a_{67,67} = \max_i |a_{i,67}^{(68-1)}| = 68$$
$$a_{68,68} = \max_i |a_{i,68}^{(69-1)}| = 69$$
$$a_{69,69} = \max_i |a_{i,69}^{(70-1)}| = 70$$
$$a_{70,70} = \max_i |a_{i,70}^{(71-1)}| = 71$$
$$a_{71,71} = \max_i |a_{i,71}^{(72-1)}| = 72$$
$$a_{72,72} = \max_i |a_{i,72}^{(73-1)}| = 73$$
$$a_{73,73} = \max_i |a_{i,73}^{(74-1)}| = 74$$
$$a_{74,74} = \max_i |a_{i,74}^{(75-1)}| = 75$$
$$a_{75,75} = \max_i |a_{i,75}^{(76-1)}| = 76$$
$$a_{76,76} = \max_i |a_{i,76}^{(77-1)}| = 77$$
$$a_{77,77} = \max_i |a_{i,77}^{(78-1)}| = 78$$
$$a_{78,78} = \max_i |a_{i,78}^{(79-1)}| = 79$$

$$\bar{x} = \begin{pmatrix} -3158.00 \\ -3155.50 \\ -2101.33 \\ -1573.75 \\ -1256.80 \\ -1045.17 \\ -893.71 \\ -779.88 \\ -691.11 \\ -619.90 \\ -561.45 \\ -512.58 \\ -471.08 \\ -435.36 \\ -404.27 \\ -376.94 \\ -352.71 \\ -331.06 \\ -311.58 \\ -293.95 \\ -277.90 \\ -263.23 \\ -249.74 \\ -237.29 \\ -225.76 \\ -215.04 \\ -205.04 \\ -195.68 \\ -186.90 \\ -178.63 \\ -170.84 \\ -163.47 \\ -156.48 \\ -149.85 \\ -143.54 \\ -137.53 \\ -131.78 \\ -126.29 \\ -121.03 \\ -115.98 \\ -111.12 \\ -106.45 \\ -101.95 \\ -97.61 \\ -93.42 \\ -89.37 \\ -85.45 \\ -81.65 \\ -77.96 \end{pmatrix}$$

188

$$\Delta A = 8.946182130782973e116$$

71 $N = 80$

$A = \{a_{i,j} | i = 0..\bar{8}0, j = 0..\bar{8}1\}$

$\quad a_{0,0} = \max_i |a_{i,0}^{(1-1)}| = 1$

$\quad a_{1,1} = \max_i |a_{i,1}^{(2-1)}| = 2$

$\quad a_{2,2} = \max_i |a_{i,2}^{(3-1)}| = 3$

$\quad a_{3,3} = \max_i |a_{i,3}^{(4-1)}| = 4$

$\quad a_{4,4} = \max_i |a_{i,4}^{(5-1)}| = 5$

$\quad a_{5,5} = \max_i |a_{i,5}^{(6-1)}| = 6$

$\quad a_{6,6} = \max_i |a_{i,6}^{(7-1)}| = 7$

$\quad a_{7,7} = \max_i |a_{i,7}^{(8-1)}| = 8$

$\quad a_{8,8} = \max_i |a_{i,8}^{(9-1)}| = 9$

$\quad a_{9,9} = \max_i |a_{i,9}^{(10-1)}| = 10$

$\quad a_{10,10} = \max_i |a_{i,10}^{(11-1)}| = 11$

$\quad a_{11,11} = \max_i |a_{i,11}^{(12-1)}| = 12$

$\quad a_{12,12} = \max_i |a_{i,12}^{(13-1)}| = 13$

$\quad a_{13,13} = \max_i |a_{i,13}^{(14-1)}| = 14$

$\quad a_{14,14} = \max_i |a_{i,14}^{(15-1)}| = 15$

$\quad a_{15,15} = \max_i |a_{i,15}^{(16-1)}| = 16$

$\quad a_{16,16} = \max_i |a_{i,16}^{(17-1)}| = 17$

$\quad a_{17,17} = \max_i |a_{i,17}^{(18-1)}| = 18$

$\quad a_{18,18} = \max_i |a_{i,18}^{(19-1)}| = 19$

$\quad a_{19,19} = \max_i |a_{i,19}^{(20-1)}| = 20$

$\quad a_{20,20} = \max_i |a_{i,20}^{(21-1)}| = 21$

$\quad a_{21,21} = \max_i |a_{i,21}^{(22-1)}| = 22$

$\quad a_{22,22} = \max_i |a_{i,22}^{(23-1)}| = 23$

$\quad a_{23,23} = \max_i |a_{i,23}^{(24-1)}| = 24$

$\quad a_{24,24} = \max_i |a_{i,24}^{(25-1)}| = 25$

$\quad a_{25,25} = \max_i |a_{i,25}^{(26-1)}| = 26$

$\quad a_{26,26} = \max_i |a_{i,26}^{(27-1)}| = 27$

$\quad a_{27,27} = \max_i |a_{i,27}^{(28-1)}| = 28$

$\quad a_{28,28} = \max_i |a_{i,28}^{(29-1)}| = 29$

$$a_{29,29} = \max_i |a_{i,29}^{(30-1)}| = 30$$
$$a_{30,30} = \max_i |a_{i,30}^{(31-1)}| = 31$$
$$a_{31,31} = \max_i |a_{i,31}^{(32-1)}| = 32$$
$$a_{32,32} = \max_i |a_{i,32}^{(33-1)}| = 33$$
$$a_{33,33} = \max_i |a_{i,33}^{(34-1)}| = 34$$
$$a_{34,34} = \max_i |a_{i,34}^{(35-1)}| = 35$$
$$a_{35,35} = \max_i |a_{i,35}^{(36-1)}| = 36$$
$$a_{36,36} = \max_i |a_{i,36}^{(37-1)}| = 37$$
$$a_{37,37} = \max_i |a_{i,37}^{(38-1)}| = 38$$
$$a_{38,38} = \max_i |a_{i,38}^{(39-1)}| = 39$$
$$a_{39,39} = \max_i |a_{i,39}^{(40-1)}| = 40$$
$$a_{40,40} = \max_i |a_{i,40}^{(41-1)}| = 41$$
$$a_{41,41} = \max_i |a_{i,41}^{(42-1)}| = 42$$
$$a_{42,42} = \max_i |a_{i,42}^{(43-1)}| = 43$$
$$a_{43,43} = \max_i |a_{i,43}^{(44-1)}| = 44$$
$$a_{44,44} = \max_i |a_{i,44}^{(45-1)}| = 45$$
$$a_{45,45} = \max_i |a_{i,45}^{(46-1)}| = 46$$
$$a_{46,46} = \max_i |a_{i,46}^{(47-1)}| = 47$$
$$a_{47,47} = \max_i |a_{i,47}^{(48-1)}| = 48$$
$$a_{48,48} = \max_i |a_{i,48}^{(49-1)}| = 49$$
$$a_{49,49} = \max_i |a_{i,49}^{(50-1)}| = 50$$
$$a_{50,50} = \max_i |a_{i,50}^{(51-1)}| = 51$$
$$a_{51,51} = \max_i |a_{i,51}^{(52-1)}| = 52$$
$$a_{52,52} = \max_i |a_{i,52}^{(53-1)}| = 53$$
$$a_{53,53} = \max_i |a_{i,53}^{(54-1)}| = 54$$
$$a_{54,54} = \max_i |a_{i,54}^{(55-1)}| = 55$$
$$a_{55,55} = \max_i |a_{i,55}^{(56-1)}| = 56$$
$$a_{56,56} = \max_i |a_{i,56}^{(57-1)}| = 57$$
$$a_{57,57} = \max_i |a_{i,57}^{(58-1)}| = 58$$
$$a_{58,58} = \max_i |a_{i,58}^{(59-1)}| = 59$$
$$a_{59,59} = \max_i |a_{i,59}^{(60-1)}| = 60$$
$$a_{60,60} = \max_i |a_{i,60}^{(61-1)}| = 61$$
$$a_{61,61} = \max_i |a_{i,61}^{(62-1)}| = 62$$

$$a_{62,62} = \max_i |a_{i,62}^{(63-1)}| = 63$$
$$a_{63,63} = \max_i |a_{i,63}^{(64-1)}| = 64$$
$$a_{64,64} = \max_i |a_{i,64}^{(65-1)}| = 65$$
$$a_{65,65} = \max_i |a_{i,65}^{(66-1)}| = 66$$
$$a_{66,66} = \max_i |a_{i,66}^{(67-1)}| = 67$$
$$a_{67,67} = \max_i |a_{i,67}^{(68-1)}| = 68$$
$$a_{68,68} = \max_i |a_{i,68}^{(69-1)}| = 69$$
$$a_{69,69} = \max_i |a_{i,69}^{(70-1)}| = 70$$
$$a_{70,70} = \max_i |a_{i,70}^{(71-1)}| = 71$$
$$a_{71,71} = \max_i |a_{i,71}^{(72-1)}| = 72$$
$$a_{72,72} = \max_i |a_{i,72}^{(73-1)}| = 73$$
$$a_{73,73} = \max_i |a_{i,73}^{(74-1)}| = 74$$
$$a_{74,74} = \max_i |a_{i,74}^{(75-1)}| = 75$$
$$a_{75,75} = \max_i |a_{i,75}^{(76-1)}| = 76$$
$$a_{76,76} = \max_i |a_{i,76}^{(77-1)}| = 77$$
$$a_{77,77} = \max_i |a_{i,77}^{(78-1)}| = 78$$
$$a_{78,78} = \max_i |a_{i,78}^{(79-1)}| = 79$$
$$a_{79,79} = \max_i |a_{i,79}^{(80-1)}| = 80$$

$$
\bar{x} = \begin{pmatrix}
-3238.00 \\
-3235.50 \\
-2154.67 \\
-1613.75 \\
-1288.80 \\
-1071.83 \\
-916.57 \\
-799.88 \\
-708.89 \\
-635.90 \\
-576.00 \\
-525.92 \\
-483.38 \\
-446.79 \\
-414.93 \\
-386.94 \\
-362.12 \\
-339.94 \\
-320.00 \\
-301.95 \\
-285.52 \\
-270.50 \\
-256.70 \\
-243.96 \\
-232.16 \\
-221.19 \\
-210.96 \\
-201.39 \\
-192.41 \\
-183.97 \\
-176.00 \\
-168.47 \\
-161.33 \\
-154.56 \\
-148.11 \\
-141.97 \\
-136.11 \\
-130.50 \\
-125.13 \\
-119.98 \\
-115.02 \\
-110.26 \\
-105.67 \\
-101.25 \\
-96.98 \\
-92.85 \\
-88.85 \\
-84.98 \\
-81.22 \\
\end{pmatrix}
$$

192

$$\Delta A = 7.156945704626378e118$$

72 $N = 81$

$A = \{a_{i,j} | i = 0..\overline{81}, j = 0..\overline{82}\}$

$a_{0,0} = \max_i |a_{i,0}^{(1-1)}| = 1$

$a_{1,1} = \max_i |a_{i,1}^{(2-1)}| = 2$

$a_{2,2} = \max_i |a_{i,2}^{(3-1)}| = 3$

$a_{3,3} = \max_i |a_{i,3}^{(4-1)}| = 4$

$a_{4,4} = \max_i |a_{i,4}^{(5-1)}| = 5$

$a_{5,5} = \max_i |a_{i,5}^{(6-1)}| = 6$

$a_{6,6} = \max_i |a_{i,6}^{(7-1)}| = 7$

$a_{7,7} = \max_i |a_{i,7}^{(8-1)}| = 8$

$a_{8,8} = \max_i |a_{i,8}^{(9-1)}| = 9$

$a_{9,9} = \max_i |a_{i,9}^{(10-1)}| = 10$

$a_{10,10} = \max_i |a_{i,10}^{(11-1)}| = 11$

$a_{11,11} = \max_i |a_{i,11}^{(12-1)}| = 12$

$a_{12,12} = \max_i |a_{i,12}^{(13-1)}| = 13$

$a_{13,13} = \max_i |a_{i,13}^{(14-1)}| = 14$

$a_{14,14} = \max_i |a_{i,14}^{(15-1)}| = 15$

$a_{15,15} = \max_i |a_{i,15}^{(16-1)}| = 16$

$a_{16,16} = \max_i |a_{i,16}^{(17-1)}| = 17$

$a_{17,17} = \max_i |a_{i,17}^{(18-1)}| = 18$

$a_{18,18} = \max_i |a_{i,18}^{(19-1)}| = 19$

$a_{19,19} = \max_i |a_{i,19}^{(20-1)}| = 20$

$a_{20,20} = \max_i |a_{i,20}^{(21-1)}| = 21$

$a_{21,21} = \max_i |a_{i,21}^{(22-1)}| = 22$

$a_{22,22} = \max_i |a_{i,22}^{(23-1)}| = 23$

$a_{23,23} = \max_i |a_{i,23}^{(24-1)}| = 24$

$a_{24,24} = \max_i |a_{i,24}^{(25-1)}| = 25$

$a_{25,25} = \max_i |a_{i,25}^{(26-1)}| = 26$

$a_{26,26} = \max_i |a_{i,26}^{(27-1)}| = 27$

$a_{27,27} = \max_i |a_{i,27}^{(28-1)}| = 28$

$a_{28,28} = \max_i |a_{i,28}^{(29-1)}| = 29$

$$a_{29,29} = \max_i |a_{i,29}^{(30-1)}| = 30$$
$$a_{30,30} = \max_i |a_{i,30}^{(31-1)}| = 31$$
$$a_{31,31} = \max_i |a_{i,31}^{(32-1)}| = 32$$
$$a_{32,32} = \max_i |a_{i,32}^{(33-1)}| = 33$$
$$a_{33,33} = \max_i |a_{i,33}^{(34-1)}| = 34$$
$$a_{34,34} = \max_i |a_{i,34}^{(35-1)}| = 35$$
$$a_{35,35} = \max_i |a_{i,35}^{(36-1)}| = 36$$
$$a_{36,36} = \max_i |a_{i,36}^{(37-1)}| = 37$$
$$a_{37,37} = \max_i |a_{i,37}^{(38-1)}| = 38$$
$$a_{38,38} = \max_i |a_{i,38}^{(39-1)}| = 39$$
$$a_{39,39} = \max_i |a_{i,39}^{(40-1)}| = 40$$
$$a_{40,40} = \max_i |a_{i,40}^{(41-1)}| = 41$$
$$a_{41,41} = \max_i |a_{i,41}^{(42-1)}| = 42$$
$$a_{42,42} = \max_i |a_{i,42}^{(43-1)}| = 43$$
$$a_{43,43} = \max_i |a_{i,43}^{(44-1)}| = 44$$
$$a_{44,44} = \max_i |a_{i,44}^{(45-1)}| = 45$$
$$a_{45,45} = \max_i |a_{i,45}^{(46-1)}| = 46$$
$$a_{46,46} = \max_i |a_{i,46}^{(47-1)}| = 47$$
$$a_{47,47} = \max_i |a_{i,47}^{(48-1)}| = 48$$
$$a_{48,48} = \max_i |a_{i,48}^{(49-1)}| = 49$$
$$a_{49,49} = \max_i |a_{i,49}^{(50-1)}| = 50$$
$$a_{50,50} = \max_i |a_{i,50}^{(51-1)}| = 51$$
$$a_{51,51} = \max_i |a_{i,51}^{(52-1)}| = 52$$
$$a_{52,52} = \max_i |a_{i,52}^{(53-1)}| = 53$$
$$a_{53,53} = \max_i |a_{i,53}^{(54-1)}| = 54$$
$$a_{54,54} = \max_i |a_{i,54}^{(55-1)}| = 55$$
$$a_{55,55} = \max_i |a_{i,55}^{(56-1)}| = 56$$
$$a_{56,56} = \max_i |a_{i,56}^{(57-1)}| = 57$$
$$a_{57,57} = \max_i |a_{i,57}^{(58-1)}| = 58$$
$$a_{58,58} = \max_i |a_{i,58}^{(59-1)}| = 59$$
$$a_{59,59} = \max_i |a_{i,59}^{(60-1)}| = 60$$
$$a_{60,60} = \max_i |a_{i,60}^{(61-1)}| = 61$$
$$a_{61,61} = \max_i |a_{i,61}^{(62-1)}| = 62$$

$$a_{62,62} = \max_i |a_{i,62}^{(63-1)}| = 63$$
$$a_{63,63} = \max_i |a_{i,63}^{(64-1)}| = 64$$
$$a_{64,64} = \max_i |a_{i,64}^{(65-1)}| = 65$$
$$a_{65,65} = \max_i |a_{i,65}^{(66-1)}| = 66$$
$$a_{66,66} = \max_i |a_{i,66}^{(67-1)}| = 67$$
$$a_{67,67} = \max_i |a_{i,67}^{(68-1)}| = 68$$
$$a_{68,68} = \max_i |a_{i,68}^{(69-1)}| = 69$$
$$a_{69,69} = \max_i |a_{i,69}^{(70-1)}| = 70$$
$$a_{70,70} = \max_i |a_{i,70}^{(71-1)}| = 71$$
$$a_{71,71} = \max_i |a_{i,71}^{(72-1)}| = 72$$
$$a_{72,72} = \max_i |a_{i,72}^{(73-1)}| = 73$$
$$a_{73,73} = \max_i |a_{i,73}^{(74-1)}| = 74$$
$$a_{74,74} = \max_i |a_{i,74}^{(75-1)}| = 75$$
$$a_{75,75} = \max_i |a_{i,75}^{(76-1)}| = 76$$
$$a_{76,76} = \max_i |a_{i,76}^{(77-1)}| = 77$$
$$a_{77,77} = \max_i |a_{i,77}^{(78-1)}| = 78$$
$$a_{78,78} = \max_i |a_{i,78}^{(79-1)}| = 79$$
$$a_{79,79} = \max_i |a_{i,79}^{(80-1)}| = 80$$
$$a_{80,80} = \max_i |a_{i,80}^{(81-1)}| = 81$$

$$\bar{x} = \begin{pmatrix} -3319.00 \\ -3316.50 \\ -2208.67 \\ -1654.25 \\ -1321.20 \\ -1098.83 \\ -939.71 \\ -820.12 \\ -726.89 \\ -652.10 \\ -590.73 \\ -539.42 \\ -495.85 \\ -458.36 \\ -425.73 \\ -397.06 \\ -371.65 \\ -348.94 \\ -328.53 \\ -310.05 \\ -293.24 \\ -277.86 \\ -263.74 \\ -250.71 \\ -238.64 \\ -227.42 \\ -216.96 \\ -207.18 \\ -198.00 \\ -189.37 \\ -181.23 \\ -173.53 \\ -166.24 \\ -159.32 \\ -152.74 \\ -146.47 \\ -140.49 \\ -134.76 \\ -129.28 \\ -124.03 \\ -118.98 \\ -114.12 \\ -109.44 \\ -104.93 \\ -100.58 \\ -96.37 \\ -92.30 \\ -88.35 \\ -84.53 \end{pmatrix}$$

196

$$\Delta A = 5.797126020747366e120$$

73 $N = 82$

$A = \{a_{i,j} | i = 0..\bar{8}2, j = 0..\bar{8}3\}$

$a_{0,0} = \max_i |a_{i,0}^{(1-1)}| = 1$

$a_{1,1} = \max_i |a_{i,1}^{(2-1)}| = 2$

$a_{2,2} = \max_i |a_{i,2}^{(3-1)}| = 3$

$a_{3,3} = \max_i |a_{i,3}^{(4-1)}| = 4$

$a_{4,4} = \max_i |a_{i,4}^{(5-1)}| = 5$

$a_{5,5} = \max_i |a_{i,5}^{(6-1)}| = 6$

$a_{6,6} = \max_i |a_{i,6}^{(7-1)}| = 7$

$a_{7,7} = \max_i |a_{i,7}^{(8-1)}| = 8$

$a_{8,8} = \max_i |a_{i,8}^{(9-1)}| = 9$

$a_{9,9} = \max_i |a_{i,9}^{(10-1)}| = 10$

$a_{10,10} = \max_i |a_{i,10}^{(11-1)}| = 11$

$a_{11,11} = \max_i |a_{i,11}^{(12-1)}| = 12$

$a_{12,12} = \max_i |a_{i,12}^{(13-1)}| = 13$

$a_{13,13} = \max_i |a_{i,13}^{(14-1)}| = 14$

$a_{14,14} = \max_i |a_{i,14}^{(15-1)}| = 15$

$a_{15,15} = \max_i |a_{i,15}^{(16-1)}| = 16$

$a_{16,16} = \max_i |a_{i,16}^{(17-1)}| = 17$

$a_{17,17} = \max_i |a_{i,17}^{(18-1)}| = 18$

$a_{18,18} = \max_i |a_{i,18}^{(19-1)}| = 19$

$a_{19,19} = \max_i |a_{i,19}^{(20-1)}| = 20$

$a_{20,20} = \max_i |a_{i,20}^{(21-1)}| = 21$

$a_{21,21} = \max_i |a_{i,21}^{(22-1)}| = 22$

$a_{22,22} = \max_i |a_{i,22}^{(23-1)}| = 23$

$a_{23,23} = \max_i |a_{i,23}^{(24-1)}| = 24$

$a_{24,24} = \max_i |a_{i,24}^{(25-1)}| = 25$

$a_{25,25} = \max_i |a_{i,25}^{(26-1)}| = 26$

$a_{26,26} = \max_i |a_{i,26}^{(27-1)}| = 27$

$a_{27,27} = \max_i |a_{i,27}^{(28-1)}| = 28$

$a_{28,28} = \max_i |a_{i,28}^{(29-1)}| = 29$

$$a_{29,29} = \max_i |a_{i,29}^{(30-1)}| = 30$$
$$a_{30,30} = \max_i |a_{i,30}^{(31-1)}| = 31$$
$$a_{31,31} = \max_i |a_{i,31}^{(32-1)}| = 32$$
$$a_{32,32} = \max_i |a_{i,32}^{(33-1)}| = 33$$
$$a_{33,33} = \max_i |a_{i,33}^{(34-1)}| = 34$$
$$a_{34,34} = \max_i |a_{i,34}^{(35-1)}| = 35$$
$$a_{35,35} = \max_i |a_{i,35}^{(36-1)}| = 36$$
$$a_{36,36} = \max_i |a_{i,36}^{(37-1)}| = 37$$
$$a_{37,37} = \max_i |a_{i,37}^{(38-1)}| = 38$$
$$a_{38,38} = \max_i |a_{i,38}^{(39-1)}| = 39$$
$$a_{39,39} = \max_i |a_{i,39}^{(40-1)}| = 40$$
$$a_{40,40} = \max_i |a_{i,40}^{(41-1)}| = 41$$
$$a_{41,41} = \max_i |a_{i,41}^{(42-1)}| = 42$$
$$a_{42,42} = \max_i |a_{i,42}^{(43-1)}| = 43$$
$$a_{43,43} = \max_i |a_{i,43}^{(44-1)}| = 44$$
$$a_{44,44} = \max_i |a_{i,44}^{(45-1)}| = 45$$
$$a_{45,45} = \max_i |a_{i,45}^{(46-1)}| = 46$$
$$a_{46,46} = \max_i |a_{i,46}^{(47-1)}| = 47$$
$$a_{47,47} = \max_i |a_{i,47}^{(48-1)}| = 48$$
$$a_{48,48} = \max_i |a_{i,48}^{(49-1)}| = 49$$
$$a_{49,49} = \max_i |a_{i,49}^{(50-1)}| = 50$$
$$a_{50,50} = \max_i |a_{i,50}^{(51-1)}| = 51$$
$$a_{51,51} = \max_i |a_{i,51}^{(52-1)}| = 52$$
$$a_{52,52} = \max_i |a_{i,52}^{(53-1)}| = 53$$
$$a_{53,53} = \max_i |a_{i,53}^{(54-1)}| = 54$$
$$a_{54,54} = \max_i |a_{i,54}^{(55-1)}| = 55$$
$$a_{55,55} = \max_i |a_{i,55}^{(56-1)}| = 56$$
$$a_{56,56} = \max_i |a_{i,56}^{(57-1)}| = 57$$
$$a_{57,57} = \max_i |a_{i,57}^{(58-1)}| = 58$$
$$a_{58,58} = \max_i |a_{i,58}^{(59-1)}| = 59$$
$$a_{59,59} = \max_i |a_{i,59}^{(60-1)}| = 60$$
$$a_{60,60} = \max_i |a_{i,60}^{(61-1)}| = 61$$
$$a_{61,61} = \max_i |a_{i,61}^{(62-1)}| = 62$$

$$a_{62,62} = \max_i |a_{i,62}^{(63-1)}| = 63$$
$$a_{63,63} = \max_i |a_{i,63}^{(64-1)}| = 64$$
$$a_{64,64} = \max_i |a_{i,64}^{(65-1)}| = 65$$
$$a_{65,65} = \max_i |a_{i,65}^{(66-1)}| = 66$$
$$a_{66,66} = \max_i |a_{i,66}^{(67-1)}| = 67$$
$$a_{67,67} = \max_i |a_{i,67}^{(68-1)}| = 68$$
$$a_{68,68} = \max_i |a_{i,68}^{(69-1)}| = 69$$
$$a_{69,69} = \max_i |a_{i,69}^{(70-1)}| = 70$$
$$a_{70,70} = \max_i |a_{i,70}^{(71-1)}| = 71$$
$$a_{71,71} = \max_i |a_{i,71}^{(72-1)}| = 72$$
$$a_{72,72} = \max_i |a_{i,72}^{(73-1)}| = 73$$
$$a_{73,73} = \max_i |a_{i,73}^{(74-1)}| = 74$$
$$a_{74,74} = \max_i |a_{i,74}^{(75-1)}| = 75$$
$$a_{75,75} = \max_i |a_{i,75}^{(76-1)}| = 76$$
$$a_{76,76} = \max_i |a_{i,76}^{(77-1)}| = 77$$
$$a_{77,77} = \max_i |a_{i,77}^{(78-1)}| = 78$$
$$a_{78,78} = \max_i |a_{i,78}^{(79-1)}| = 79$$
$$a_{79,79} = \max_i |a_{i,79}^{(80-1)}| = 80$$
$$a_{80,80} = \max_i |a_{i,80}^{(81-1)}| = 81$$
$$a_{81,81} = \max_i |a_{i,81}^{(82-1)}| = 82$$

$$\bar{x} = \begin{pmatrix} -3401.00 \\ -3398.50 \\ -2263.33 \\ -1695.25 \\ -1354.00 \\ -1126.17 \\ -963.14 \\ -840.62 \\ -745.11 \\ -668.50 \\ -605.64 \\ -553.08 \\ -508.46 \\ -470.07 \\ -436.67 \\ -407.31 \\ -381.29 \\ -358.06 \\ -337.16 \\ -318.25 \\ -301.05 \\ -285.32 \\ -270.87 \\ -257.54 \\ -245.20 \\ -233.73 \\ -223.04 \\ -213.04 \\ -203.66 \\ -194.83 \\ -186.52 \\ -178.66 \\ -171.21 \\ -164.15 \\ -157.43 \\ -151.03 \\ -144.92 \\ -139.08 \\ -133.49 \\ -128.12 \\ -122.98 \\ -118.02 \\ -113.26 \\ -108.66 \\ -104.22 \\ -99.93 \\ -95.79 \\ -91.77 \\ -87.88 \end{pmatrix}$$

200

$$\Delta A = 4.75364433701284e122$$

74 $N = 83$

$A = \{a_{i,j} | i = 0..\bar{8}3, j = 0..\bar{8}4\}$

$a_{0,0} = \max_i |a_{i,0}^{(1-1)}| = 1$

$a_{1,1} = \max_i |a_{i,1}^{(2-1)}| = 2$

$a_{2,2} = \max_i |a_{i,2}^{(3-1)}| = 3$

$a_{3,3} = \max_i |a_{i,3}^{(4-1)}| = 4$

$a_{4,4} = \max_i |a_{i,4}^{(5-1)}| = 5$

$a_{5,5} = \max_i |a_{i,5}^{(6-1)}| = 6$

$a_{6,6} = \max_i |a_{i,6}^{(7-1)}| = 7$

$a_{7,7} = \max_i |a_{i,7}^{(8-1)}| = 8$

$a_{8,8} = \max_i |a_{i,8}^{(9-1)}| = 9$

$a_{9,9} = \max_i |a_{i,9}^{(10-1)}| = 10$

$a_{10,10} = \max_i |a_{i,10}^{(11-1)}| = 11$

$a_{11,11} = \max_i |a_{i,11}^{(12-1)}| = 12$

$a_{12,12} = \max_i |a_{i,12}^{(13-1)}| = 13$

$a_{13,13} = \max_i |a_{i,13}^{(14-1)}| = 14$

$a_{14,14} = \max_i |a_{i,14}^{(15-1)}| = 15$

$a_{15,15} = \max_i |a_{i,15}^{(16-1)}| = 16$

$a_{16,16} = \max_i |a_{i,16}^{(17-1)}| = 17$

$a_{17,17} = \max_i |a_{i,17}^{(18-1)}| = 18$

$a_{18,18} = \max_i |a_{i,18}^{(19-1)}| = 19$

$a_{19,19} = \max_i |a_{i,19}^{(20-1)}| = 20$

$a_{20,20} = \max_i |a_{i,20}^{(21-1)}| = 21$

$a_{21,21} = \max_i |a_{i,21}^{(22-1)}| = 22$

$a_{22,22} = \max_i |a_{i,22}^{(23-1)}| = 23$

$a_{23,23} = \max_i |a_{i,23}^{(24-1)}| = 24$

$a_{24,24} = \max_i |a_{i,24}^{(25-1)}| = 25$

$a_{25,25} = \max_i |a_{i,25}^{(26-1)}| = 26$

$a_{26,26} = \max_i |a_{i,26}^{(27-1)}| = 27$

$a_{27,27} = \max_i |a_{i,27}^{(28-1)}| = 28$

$a_{28,28} = \max_i |a_{i,28}^{(29-1)}| = 29$

$$a_{29,29} = \max_i |a_{i,29}^{(30-1)}| = 30$$
$$a_{30,30} = \max_i |a_{i,30}^{(31-1)}| = 31$$
$$a_{31,31} = \max_i |a_{i,31}^{(32-1)}| = 32$$
$$a_{32,32} = \max_i |a_{i,32}^{(33-1)}| = 33$$
$$a_{33,33} = \max_i |a_{i,33}^{(34-1)}| = 34$$
$$a_{34,34} = \max_i |a_{i,34}^{(35-1)}| = 35$$
$$a_{35,35} = \max_i |a_{i,35}^{(36-1)}| = 36$$
$$a_{36,36} = \max_i |a_{i,36}^{(37-1)}| = 37$$
$$a_{37,37} = \max_i |a_{i,37}^{(38-1)}| = 38$$
$$a_{38,38} = \max_i |a_{i,38}^{(39-1)}| = 39$$
$$a_{39,39} = \max_i |a_{i,39}^{(40-1)}| = 40$$
$$a_{40,40} = \max_i |a_{i,40}^{(41-1)}| = 41$$
$$a_{41,41} = \max_i |a_{i,41}^{(42-1)}| = 42$$
$$a_{42,42} = \max_i |a_{i,42}^{(43-1)}| = 43$$
$$a_{43,43} = \max_i |a_{i,43}^{(44-1)}| = 44$$
$$a_{44,44} = \max_i |a_{i,44}^{(45-1)}| = 45$$
$$a_{45,45} = \max_i |a_{i,45}^{(46-1)}| = 46$$
$$a_{46,46} = \max_i |a_{i,46}^{(47-1)}| = 47$$
$$a_{47,47} = \max_i |a_{i,47}^{(48-1)}| = 48$$
$$a_{48,48} = \max_i |a_{i,48}^{(49-1)}| = 49$$
$$a_{49,49} = \max_i |a_{i,49}^{(50-1)}| = 50$$
$$a_{50,50} = \max_i |a_{i,50}^{(51-1)}| = 51$$
$$a_{51,51} = \max_i |a_{i,51}^{(52-1)}| = 52$$
$$a_{52,52} = \max_i |a_{i,52}^{(53-1)}| = 53$$
$$a_{53,53} = \max_i |a_{i,53}^{(54-1)}| = 54$$
$$a_{54,54} = \max_i |a_{i,54}^{(55-1)}| = 55$$
$$a_{55,55} = \max_i |a_{i,55}^{(56-1)}| = 56$$
$$a_{56,56} = \max_i |a_{i,56}^{(57-1)}| = 57$$
$$a_{57,57} = \max_i |a_{i,57}^{(58-1)}| = 58$$
$$a_{58,58} = \max_i |a_{i,58}^{(59-1)}| = 59$$
$$a_{59,59} = \max_i |a_{i,59}^{(60-1)}| = 60$$
$$a_{60,60} = \max_i |a_{i,60}^{(61-1)}| = 61$$
$$a_{61,61} = \max_i |a_{i,61}^{(62-1)}| = 62$$

$$a_{62,62} = \max_i |a_{i,62}^{(63-1)}| = 63$$
$$a_{63,63} = \max_i |a_{i,63}^{(64-1)}| = 64$$
$$a_{64,64} = \max_i |a_{i,64}^{(65-1)}| = 65$$
$$a_{65,65} = \max_i |a_{i,65}^{(66-1)}| = 66$$
$$a_{66,66} = \max_i |a_{i,66}^{(67-1)}| = 67$$
$$a_{67,67} = \max_i |a_{i,67}^{(68-1)}| = 68$$
$$a_{68,68} = \max_i |a_{i,68}^{(69-1)}| = 69$$
$$a_{69,69} = \max_i |a_{i,69}^{(70-1)}| = 70$$
$$a_{70,70} = \max_i |a_{i,70}^{(71-1)}| = 71$$
$$a_{71,71} = \max_i |a_{i,71}^{(72-1)}| = 72$$
$$a_{72,72} = \max_i |a_{i,72}^{(73-1)}| = 73$$
$$a_{73,73} = \max_i |a_{i,73}^{(74-1)}| = 74$$
$$a_{74,74} = \max_i |a_{i,74}^{(75-1)}| = 75$$
$$a_{75,75} = \max_i |a_{i,75}^{(76-1)}| = 76$$
$$a_{76,76} = \max_i |a_{i,76}^{(77-1)}| = 77$$
$$a_{77,77} = \max_i |a_{i,77}^{(78-1)}| = 78$$
$$a_{78,78} = \max_i |a_{i,78}^{(79-1)}| = 79$$
$$a_{79,79} = \max_i |a_{i,79}^{(80-1)}| = 80$$
$$a_{80,80} = \max_i |a_{i,80}^{(81-1)}| = 81$$
$$a_{81,81} = \max_i |a_{i,81}^{(82-1)}| = 82$$
$$a_{82,82} = \max_i |a_{i,82}^{(83-1)}| = 83$$

$$
\bar{x} = \begin{pmatrix}
-3484.00 \\
-3481.50 \\
-2318.67 \\
-1736.75 \\
-1387.20 \\
-1153.83 \\
-986.86 \\
-861.38 \\
-763.56 \\
-685.10 \\
-620.73 \\
-566.92 \\
-521.23 \\
-481.93 \\
-447.73 \\
-417.69 \\
-391.06 \\
-367.28 \\
-345.89 \\
-326.55 \\
-308.95 \\
-292.86 \\
-278.09 \\
-264.46 \\
-251.84 \\
-240.12 \\
-229.19 \\
-218.96 \\
-209.38 \\
-200.37 \\
-191.87 \\
-183.84 \\
-176.24 \\
-169.03 \\
-162.17 \\
-155.64 \\
-149.41 \\
-143.45 \\
-137.74 \\
-132.28 \\
-127.02 \\
-121.98 \\
-117.12 \\
-112.43 \\
-107.91 \\
-103.54 \\
-99.32 \\
-95.23 \\
-91.27 \\
-87.42
\end{pmatrix}
$$

$$\Delta A = 3.945523969720657e124$$

75 $N = 84$

$A = \{a_{i,j} | i = 0..\bar{8}4, j = 0..\bar{8}5\}$

$a_{0,0} = \max_i |a_{i,0}^{(1-1)}| = 1$

$a_{1,1} = \max_i |a_{i,1}^{(2-1)}| = 2$

$a_{2,2} = \max_i |a_{i,2}^{(3-1)}| = 3$

$a_{3,3} = \max_i |a_{i,3}^{(4-1)}| = 4$

$a_{4,4} = \max_i |a_{i,4}^{(5-1)}| = 5$

$a_{5,5} = \max_i |a_{i,5}^{(6-1)}| = 6$

$a_{6,6} = \max_i |a_{i,6}^{(7-1)}| = 7$

$a_{7,7} = \max_i |a_{i,7}^{(8-1)}| = 8$

$a_{8,8} = \max_i |a_{i,8}^{(9-1)}| = 9$

$a_{9,9} = \max_i |a_{i,9}^{(10-1)}| = 10$

$a_{10,10} = \max_i |a_{i,10}^{(11-1)}| = 11$

$a_{11,11} = \max_i |a_{i,11}^{(12-1)}| = 12$

$a_{12,12} = \max_i |a_{i,12}^{(13-1)}| = 13$

$a_{13,13} = \max_i |a_{i,13}^{(14-1)}| = 14$

$a_{14,14} = \max_i |a_{i,14}^{(15-1)}| = 15$

$a_{15,15} = \max_i |a_{i,15}^{(16-1)}| = 16$

$a_{16,16} = \max_i |a_{i,16}^{(17-1)}| = 17$

$a_{17,17} = \max_i |a_{i,17}^{(18-1)}| = 18$

$a_{18,18} = \max_i |a_{i,18}^{(19-1)}| = 19$

$a_{19,19} = \max_i |a_{i,19}^{(20-1)}| = 20$

$a_{20,20} = \max_i |a_{i,20}^{(21-1)}| = 21$

$a_{21,21} = \max_i |a_{i,21}^{(22-1)}| = 22$

$a_{22,22} = \max_i |a_{i,22}^{(23-1)}| = 23$

$a_{23,23} = \max_i |a_{i,23}^{(24-1)}| = 24$

$a_{24,24} = \max_i |a_{i,24}^{(25-1)}| = 25$

$a_{25,25} = \max_i |a_{i,25}^{(26-1)}| = 26$

$a_{26,26} = \max_i |a_{i,26}^{(27-1)}| = 27$

$a_{27,27} = \max_i |a_{i,27}^{(28-1)}| = 28$

$a_{28,28} = \max_i |a_{i,28}^{(29-1)}| = 29$

$$a_{29,29} = \max_i |a_{i,29}^{(30-1)}| = 30$$
$$a_{30,30} = \max_i |a_{i,30}^{(31-1)}| = 31$$
$$a_{31,31} = \max_i |a_{i,31}^{(32-1)}| = 32$$
$$a_{32,32} = \max_i |a_{i,32}^{(33-1)}| = 33$$
$$a_{33,33} = \max_i |a_{i,33}^{(34-1)}| = 34$$
$$a_{34,34} = \max_i |a_{i,34}^{(35-1)}| = 35$$
$$a_{35,35} = \max_i |a_{i,35}^{(36-1)}| = 36$$
$$a_{36,36} = \max_i |a_{i,36}^{(37-1)}| = 37$$
$$a_{37,37} = \max_i |a_{i,37}^{(38-1)}| = 38$$
$$a_{38,38} = \max_i |a_{i,38}^{(39-1)}| = 39$$
$$a_{39,39} = \max_i |a_{i,39}^{(40-1)}| = 40$$
$$a_{40,40} = \max_i |a_{i,40}^{(41-1)}| = 41$$
$$a_{41,41} = \max_i |a_{i,41}^{(42-1)}| = 42$$
$$a_{42,42} = \max_i |a_{i,42}^{(43-1)}| = 43$$
$$a_{43,43} = \max_i |a_{i,43}^{(44-1)}| = 44$$
$$a_{44,44} = \max_i |a_{i,44}^{(45-1)}| = 45$$
$$a_{45,45} = \max_i |a_{i,45}^{(46-1)}| = 46$$
$$a_{46,46} = \max_i |a_{i,46}^{(47-1)}| = 47$$
$$a_{47,47} = \max_i |a_{i,47}^{(48-1)}| = 48$$
$$a_{48,48} = \max_i |a_{i,48}^{(49-1)}| = 49$$
$$a_{49,49} = \max_i |a_{i,49}^{(50-1)}| = 50$$
$$a_{50,50} = \max_i |a_{i,50}^{(51-1)}| = 51$$
$$a_{51,51} = \max_i |a_{i,51}^{(52-1)}| = 52$$
$$a_{52,52} = \max_i |a_{i,52}^{(53-1)}| = 53$$
$$a_{53,53} = \max_i |a_{i,53}^{(54-1)}| = 54$$
$$a_{54,54} = \max_i |a_{i,54}^{(55-1)}| = 55$$
$$a_{55,55} = \max_i |a_{i,55}^{(56-1)}| = 56$$
$$a_{56,56} = \max_i |a_{i,56}^{(57-1)}| = 57$$
$$a_{57,57} = \max_i |a_{i,57}^{(58-1)}| = 58$$
$$a_{58,58} = \max_i |a_{i,58}^{(59-1)}| = 59$$
$$a_{59,59} = \max_i |a_{i,59}^{(60-1)}| = 60$$
$$a_{60,60} = \max_i |a_{i,60}^{(61-1)}| = 61$$
$$a_{61,61} = \max_i |a_{i,61}^{(62-1)}| = 62$$

$$a_{62,62} = \max_i |a_{i,62}^{(63-1)}| = 63$$
$$a_{63,63} = \max_i |a_{i,63}^{(64-1)}| = 64$$
$$a_{64,64} = \max_i |a_{i,64}^{(65-1)}| = 65$$
$$a_{65,65} = \max_i |a_{i,65}^{(66-1)}| = 66$$
$$a_{66,66} = \max_i |a_{i,66}^{(67-1)}| = 67$$
$$a_{67,67} = \max_i |a_{i,67}^{(68-1)}| = 68$$
$$a_{68,68} = \max_i |a_{i,68}^{(69-1)}| = 69$$
$$a_{69,69} = \max_i |a_{i,69}^{(70-1)}| = 70$$
$$a_{70,70} = \max_i |a_{i,70}^{(71-1)}| = 71$$
$$a_{71,71} = \max_i |a_{i,71}^{(72-1)}| = 72$$
$$a_{72,72} = \max_i |a_{i,72}^{(73-1)}| = 73$$
$$a_{73,73} = \max_i |a_{i,73}^{(74-1)}| = 74$$
$$a_{74,74} = \max_i |a_{i,74}^{(75-1)}| = 75$$
$$a_{75,75} = \max_i |a_{i,75}^{(76-1)}| = 76$$
$$a_{76,76} = \max_i |a_{i,76}^{(77-1)}| = 77$$
$$a_{77,77} = \max_i |a_{i,77}^{(78-1)}| = 78$$
$$a_{78,78} = \max_i |a_{i,78}^{(79-1)}| = 79$$
$$a_{79,79} = \max_i |a_{i,79}^{(80-1)}| = 80$$
$$a_{80,80} = \max_i |a_{i,80}^{(81-1)}| = 81$$
$$a_{81,81} = \max_i |a_{i,81}^{(82-1)}| = 82$$
$$a_{82,82} = \max_i |a_{i,82}^{(83-1)}| = 83$$
$$a_{83,83} = \max_i |a_{i,83}^{(84-1)}| = 84$$

$$\bar{x} = \begin{pmatrix} -3568.00 \\ -3565.50 \\ -2374.67 \\ -1778.75 \\ -1420.80 \\ -1181.83 \\ -1010.86 \\ -882.38 \\ -782.22 \\ -701.90 \\ -636.00 \\ -580.92 \\ -534.15 \\ -493.93 \\ -458.93 \\ -428.19 \\ -400.94 \\ -376.61 \\ -354.74 \\ -334.95 \\ -316.95 \\ -300.50 \\ -285.39 \\ -271.46 \\ -258.56 \\ -246.58 \\ -235.41 \\ -224.96 \\ -215.17 \\ -205.97 \\ -197.29 \\ -189.09 \\ -181.33 \\ -173.97 \\ -166.97 \\ -160.31 \\ -153.95 \\ -147.87 \\ -142.05 \\ -136.47 \\ -131.12 \\ -125.98 \\ -121.02 \\ -116.25 \\ -111.64 \\ -107.20 \\ -102.89 \\ -98.73 \\ -94.69 \end{pmatrix}$$

$$\Delta A = 3.314240134565352e126$$

76 $N = 85$

$A = \{a_{i,j} | i = 0..\bar{8}5, j = 0..\bar{8}6\}$

$\quad a_{0,0} = \max_i |a_{i,0}^{(1-1)}| = 1$

$\quad a_{1,1} = \max_i |a_{i,1}^{(2-1)}| = 2$

$\quad a_{2,2} = \max_i |a_{i,2}^{(3-1)}| = 3$

$\quad a_{3,3} = \max_i |a_{i,3}^{(4-1)}| = 4$

$\quad a_{4,4} = \max_i |a_{i,4}^{(5-1)}| = 5$

$\quad a_{5,5} = \max_i |a_{i,5}^{(6-1)}| = 6$

$\quad a_{6,6} = \max_i |a_{i,6}^{(7-1)}| = 7$

$\quad a_{7,7} = \max_i |a_{i,7}^{(8-1)}| = 8$

$\quad a_{8,8} = \max_i |a_{i,8}^{(9-1)}| = 9$

$\quad a_{9,9} = \max_i |a_{i,9}^{(10-1)}| = 10$

$\quad a_{10,10} = \max_i |a_{i,10}^{(11-1)}| = 11$

$\quad a_{11,11} = \max_i |a_{i,11}^{(12-1)}| = 12$

$\quad a_{12,12} = \max_i |a_{i,12}^{(13-1)}| = 13$

$\quad a_{13,13} = \max_i |a_{i,13}^{(14-1)}| = 14$

$\quad a_{14,14} = \max_i |a_{i,14}^{(15-1)}| = 15$

$\quad a_{15,15} = \max_i |a_{i,15}^{(16-1)}| = 16$

$\quad a_{16,16} = \max_i |a_{i,16}^{(17-1)}| = 17$

$\quad a_{17,17} = \max_i |a_{i,17}^{(18-1)}| = 18$

$\quad a_{18,18} = \max_i |a_{i,18}^{(19-1)}| = 19$

$\quad a_{19,19} = \max_i |a_{i,19}^{(20-1)}| = 20$

$\quad a_{20,20} = \max_i |a_{i,20}^{(21-1)}| = 21$

$\quad a_{21,21} = \max_i |a_{i,21}^{(22-1)}| = 22$

$\quad a_{22,22} = \max_i |a_{i,22}^{(23-1)}| = 23$

$\quad a_{23,23} = \max_i |a_{i,23}^{(24-1)}| = 24$

$\quad a_{24,24} = \max_i |a_{i,24}^{(25-1)}| = 25$

$\quad a_{25,25} = \max_i |a_{i,25}^{(26-1)}| = 26$

$\quad a_{26,26} = \max_i |a_{i,26}^{(27-1)}| = 27$

$\quad a_{27,27} = \max_i |a_{i,27}^{(28-1)}| = 28$

$\quad a_{28,28} = \max_i |a_{i,28}^{(29-1)}| = 29$

$$a_{29,29} = \max_i |a_{i,29}^{(30-1)}| = 30$$
$$a_{30,30} = \max_i |a_{i,30}^{(31-1)}| = 31$$
$$a_{31,31} = \max_i |a_{i,31}^{(32-1)}| = 32$$
$$a_{32,32} = \max_i |a_{i,32}^{(33-1)}| = 33$$
$$a_{33,33} = \max_i |a_{i,33}^{(34-1)}| = 34$$
$$a_{34,34} = \max_i |a_{i,34}^{(35-1)}| = 35$$
$$a_{35,35} = \max_i |a_{i,35}^{(36-1)}| = 36$$
$$a_{36,36} = \max_i |a_{i,36}^{(37-1)}| = 37$$
$$a_{37,37} = \max_i |a_{i,37}^{(38-1)}| = 38$$
$$a_{38,38} = \max_i |a_{i,38}^{(39-1)}| = 39$$
$$a_{39,39} = \max_i |a_{i,39}^{(40-1)}| = 40$$
$$a_{40,40} = \max_i |a_{i,40}^{(41-1)}| = 41$$
$$a_{41,41} = \max_i |a_{i,41}^{(42-1)}| = 42$$
$$a_{42,42} = \max_i |a_{i,42}^{(43-1)}| = 43$$
$$a_{43,43} = \max_i |a_{i,43}^{(44-1)}| = 44$$
$$a_{44,44} = \max_i |a_{i,44}^{(45-1)}| = 45$$
$$a_{45,45} = \max_i |a_{i,45}^{(46-1)}| = 46$$
$$a_{46,46} = \max_i |a_{i,46}^{(47-1)}| = 47$$
$$a_{47,47} = \max_i |a_{i,47}^{(48-1)}| = 48$$
$$a_{48,48} = \max_i |a_{i,48}^{(49-1)}| = 49$$
$$a_{49,49} = \max_i |a_{i,49}^{(50-1)}| = 50$$
$$a_{50,50} = \max_i |a_{i,50}^{(51-1)}| = 51$$
$$a_{51,51} = \max_i |a_{i,51}^{(52-1)}| = 52$$
$$a_{52,52} = \max_i |a_{i,52}^{(53-1)}| = 53$$
$$a_{53,53} = \max_i |a_{i,53}^{(54-1)}| = 54$$
$$a_{54,54} = \max_i |a_{i,54}^{(55-1)}| = 55$$
$$a_{55,55} = \max_i |a_{i,55}^{(56-1)}| = 56$$
$$a_{56,56} = \max_i |a_{i,56}^{(57-1)}| = 57$$
$$a_{57,57} = \max_i |a_{i,57}^{(58-1)}| = 58$$
$$a_{58,58} = \max_i |a_{i,58}^{(59-1)}| = 59$$
$$a_{59,59} = \max_i |a_{i,59}^{(60-1)}| = 60$$
$$a_{60,60} = \max_i |a_{i,60}^{(61-1)}| = 61$$
$$a_{61,61} = \max_i |a_{i,61}^{(62-1)}| = 62$$

$$a_{62,62} = \max_i |a_{i,62}^{(63-1)}| = 63$$
$$a_{63,63} = \max_i |a_{i,63}^{(64-1)}| = 64$$
$$a_{64,64} = \max_i |a_{i,64}^{(65-1)}| = 65$$
$$a_{65,65} = \max_i |a_{i,65}^{(66-1)}| = 66$$
$$a_{66,66} = \max_i |a_{i,66}^{(67-1)}| = 67$$
$$a_{67,67} = \max_i |a_{i,67}^{(68-1)}| = 68$$
$$a_{68,68} = \max_i |a_{i,68}^{(69-1)}| = 69$$
$$a_{69,69} = \max_i |a_{i,69}^{(70-1)}| = 70$$
$$a_{70,70} = \max_i |a_{i,70}^{(71-1)}| = 71$$
$$a_{71,71} = \max_i |a_{i,71}^{(72-1)}| = 72$$
$$a_{72,72} = \max_i |a_{i,72}^{(73-1)}| = 73$$
$$a_{73,73} = \max_i |a_{i,73}^{(74-1)}| = 74$$
$$a_{74,74} = \max_i |a_{i,74}^{(75-1)}| = 75$$
$$a_{75,75} = \max_i |a_{i,75}^{(76-1)}| = 76$$
$$a_{76,76} = \max_i |a_{i,76}^{(77-1)}| = 77$$
$$a_{77,77} = \max_i |a_{i,77}^{(78-1)}| = 78$$
$$a_{78,78} = \max_i |a_{i,78}^{(79-1)}| = 79$$
$$a_{79,79} = \max_i |a_{i,79}^{(80-1)}| = 80$$
$$a_{80,80} = \max_i |a_{i,80}^{(81-1)}| = 81$$
$$a_{81,81} = \max_i |a_{i,81}^{(82-1)}| = 82$$
$$a_{82,82} = \max_i |a_{i,82}^{(83-1)}| = 83$$
$$a_{83,83} = \max_i |a_{i,83}^{(84-1)}| = 84$$
$$a_{84,84} = \max_i |a_{i,84}^{(85-1)}| = 85$$

$$\bar{x} = \begin{pmatrix} -3653.00 \\ -3650.50 \\ -2431.33 \\ -1821.25 \\ -1454.80 \\ -1210.17 \\ -1035.14 \\ -903.62 \\ -801.11 \\ -718.90 \\ -651.45 \\ -595.08 \\ -547.23 \\ -506.07 \\ -470.27 \\ -438.81 \\ -410.94 \\ -386.06 \\ -363.68 \\ -343.45 \\ -325.05 \\ -308.23 \\ -292.78 \\ -278.54 \\ -265.36 \\ -253.12 \\ -241.70 \\ -231.04 \\ -221.03 \\ -211.63 \\ -202.77 \\ -194.41 \\ -186.48 \\ -178.97 \\ -171.83 \\ -165.03 \\ -158.54 \\ -152.34 \\ -146.41 \\ -140.72 \\ -135.27 \\ -130.02 \\ -124.98 \\ -120.11 \\ -115.42 \\ -110.89 \\ -106.51 \\ -102.27 \\ -98.16 \\ -94.18 \end{pmatrix}$$

212

$$\Delta A = 2.8171041143805494e128$$

77 $N = 86$

$A = \{a_{i,j} | i = 0..\bar{8}6, j = 0..\bar{8}7\}$

$a_{0,0} = \max_i |a_{i,0}^{(1-1)}| = 1$

$a_{1,1} = \max_i |a_{i,1}^{(2-1)}| = 2$

$a_{2,2} = \max_i |a_{i,2}^{(3-1)}| = 3$

$a_{3,3} = \max_i |a_{i,3}^{(4-1)}| = 4$

$a_{4,4} = \max_i |a_{i,4}^{(5-1)}| = 5$

$a_{5,5} = \max_i |a_{i,5}^{(6-1)}| = 6$

$a_{6,6} = \max_i |a_{i,6}^{(7-1)}| = 7$

$a_{7,7} = \max_i |a_{i,7}^{(8-1)}| = 8$

$a_{8,8} = \max_i |a_{i,8}^{(9-1)}| = 9$

$a_{9,9} = \max_i |a_{i,9}^{(10-1)}| = 10$

$a_{10,10} = \max_i |a_{i,10}^{(11-1)}| = 11$

$a_{11,11} = \max_i |a_{i,11}^{(12-1)}| = 12$

$a_{12,12} = \max_i |a_{i,12}^{(13-1)}| = 13$

$a_{13,13} = \max_i |a_{i,13}^{(14-1)}| = 14$

$a_{14,14} = \max_i |a_{i,14}^{(15-1)}| = 15$

$a_{15,15} = \max_i |a_{i,15}^{(16-1)}| = 16$

$a_{16,16} = \max_i |a_{i,16}^{(17-1)}| = 17$

$a_{17,17} = \max_i |a_{i,17}^{(18-1)}| = 18$

$a_{18,18} = \max_i |a_{i,18}^{(19-1)}| = 19$

$a_{19,19} = \max_i |a_{i,19}^{(20-1)}| = 20$

$a_{20,20} = \max_i |a_{i,20}^{(21-1)}| = 21$

$a_{21,21} = \max_i |a_{i,21}^{(22-1)}| = 22$

$a_{22,22} = \max_i |a_{i,22}^{(23-1)}| = 23$

$a_{23,23} = \max_i |a_{i,23}^{(24-1)}| = 24$

$a_{24,24} = \max_i |a_{i,24}^{(25-1)}| = 25$

$a_{25,25} = \max_i |a_{i,25}^{(26-1)}| = 26$

$a_{26,26} = \max_i |a_{i,26}^{(27-1)}| = 27$

$a_{27,27} = \max_i |a_{i,27}^{(28-1)}| = 28$

$a_{28,28} = \max_i |a_{i,28}^{(29-1)}| = 29$

$$a_{29,29} = \max_i |a_{i,29}^{(30-1)}| = 30$$
$$a_{30,30} = \max_i |a_{i,30}^{(31-1)}| = 31$$
$$a_{31,31} = \max_i |a_{i,31}^{(32-1)}| = 32$$
$$a_{32,32} = \max_i |a_{i,32}^{(33-1)}| = 33$$
$$a_{33,33} = \max_i |a_{i,33}^{(34-1)}| = 34$$
$$a_{34,34} = \max_i |a_{i,34}^{(35-1)}| = 35$$
$$a_{35,35} = \max_i |a_{i,35}^{(36-1)}| = 36$$
$$a_{36,36} = \max_i |a_{i,36}^{(37-1)}| = 37$$
$$a_{37,37} = \max_i |a_{i,37}^{(38-1)}| = 38$$
$$a_{38,38} = \max_i |a_{i,38}^{(39-1)}| = 39$$
$$a_{39,39} = \max_i |a_{i,39}^{(40-1)}| = 40$$
$$a_{40,40} = \max_i |a_{i,40}^{(41-1)}| = 41$$
$$a_{41,41} = \max_i |a_{i,41}^{(42-1)}| = 42$$
$$a_{42,42} = \max_i |a_{i,42}^{(43-1)}| = 43$$
$$a_{43,43} = \max_i |a_{i,43}^{(44-1)}| = 44$$
$$a_{44,44} = \max_i |a_{i,44}^{(45-1)}| = 45$$
$$a_{45,45} = \max_i |a_{i,45}^{(46-1)}| = 46$$
$$a_{46,46} = \max_i |a_{i,46}^{(47-1)}| = 47$$
$$a_{47,47} = \max_i |a_{i,47}^{(48-1)}| = 48$$
$$a_{48,48} = \max_i |a_{i,48}^{(49-1)}| = 49$$
$$a_{49,49} = \max_i |a_{i,49}^{(50-1)}| = 50$$
$$a_{50,50} = \max_i |a_{i,50}^{(51-1)}| = 51$$
$$a_{51,51} = \max_i |a_{i,51}^{(52-1)}| = 52$$
$$a_{52,52} = \max_i |a_{i,52}^{(53-1)}| = 53$$
$$a_{53,53} = \max_i |a_{i,53}^{(54-1)}| = 54$$
$$a_{54,54} = \max_i |a_{i,54}^{(55-1)}| = 55$$
$$a_{55,55} = \max_i |a_{i,55}^{(56-1)}| = 56$$
$$a_{56,56} = \max_i |a_{i,56}^{(57-1)}| = 57$$
$$a_{57,57} = \max_i |a_{i,57}^{(58-1)}| = 58$$
$$a_{58,58} = \max_i |a_{i,58}^{(59-1)}| = 59$$
$$a_{59,59} = \max_i |a_{i,59}^{(60-1)}| = 60$$
$$a_{60,60} = \max_i |a_{i,60}^{(61-1)}| = 61$$
$$a_{61,61} = \max_i |a_{i,61}^{(62-1)}| = 62$$

$$a_{62,62} = \max_i |a_{i,62}^{(63-1)}| = 63$$
$$a_{63,63} = \max_i |a_{i,63}^{(64-1)}| = 64$$
$$a_{64,64} = \max_i |a_{i,64}^{(65-1)}| = 65$$
$$a_{65,65} = \max_i |a_{i,65}^{(66-1)}| = 66$$
$$a_{66,66} = \max_i |a_{i,66}^{(67-1)}| = 67$$
$$a_{67,67} = \max_i |a_{i,67}^{(68-1)}| = 68$$
$$a_{68,68} = \max_i |a_{i,68}^{(69-1)}| = 69$$
$$a_{69,69} = \max_i |a_{i,69}^{(70-1)}| = 70$$
$$a_{70,70} = \max_i |a_{i,70}^{(71-1)}| = 71$$
$$a_{71,71} = \max_i |a_{i,71}^{(72-1)}| = 72$$
$$a_{72,72} = \max_i |a_{i,72}^{(73-1)}| = 73$$
$$a_{73,73} = \max_i |a_{i,73}^{(74-1)}| = 74$$
$$a_{74,74} = \max_i |a_{i,74}^{(75-1)}| = 75$$
$$a_{75,75} = \max_i |a_{i,75}^{(76-1)}| = 76$$
$$a_{76,76} = \max_i |a_{i,76}^{(77-1)}| = 77$$
$$a_{77,77} = \max_i |a_{i,77}^{(78-1)}| = 78$$
$$a_{78,78} = \max_i |a_{i,78}^{(79-1)}| = 79$$
$$a_{79,79} = \max_i |a_{i,79}^{(80-1)}| = 80$$
$$a_{80,80} = \max_i |a_{i,80}^{(81-1)}| = 81$$
$$a_{81,81} = \max_i |a_{i,81}^{(82-1)}| = 82$$
$$a_{82,82} = \max_i |a_{i,82}^{(83-1)}| = 83$$
$$a_{83,83} = \max_i |a_{i,83}^{(84-1)}| = 84$$
$$a_{84,84} = \max_i |a_{i,84}^{(85-1)}| = 85$$
$$a_{85,85} = \max_i |a_{i,85}^{(86-1)}| = 86$$

$$\bar{x} = \begin{pmatrix} -3739.00 \\ -3736.50 \\ -2488.67 \\ -1864.25 \\ -1489.20 \\ -1238.83 \\ -1059.71 \\ -925.12 \\ -820.22 \\ -736.10 \\ -667.09 \\ -609.42 \\ -560.46 \\ -518.36 \\ -481.73 \\ -449.56 \\ -421.06 \\ -395.61 \\ -372.74 \\ -352.05 \\ -333.24 \\ -316.05 \\ -300.26 \\ -285.71 \\ -272.24 \\ -259.73 \\ -248.07 \\ -237.18 \\ -226.97 \\ -217.37 \\ -208.32 \\ -199.78 \\ -191.70 \\ -184.03 \\ -176.74 \\ -169.81 \\ -163.19 \\ -156.87 \\ -150.82 \\ -145.03 \\ -139.46 \\ -134.12 \\ -128.98 \\ -124.02 \\ -119.24 \\ -114.63 \\ -110.17 \\ -105.85 \\ -101.67 \\ -97.62 \end{pmatrix}$$

216

$$\Delta A = 2.4227095383672724e130$$

78 $N = 87$

$A = \{a_{i,j} | i = 0..\bar{8}7, j = 0..\bar{8}8\}$

$\quad a_{0,0} = \max_i |a_{i,0}^{(1-1)}| = 1$

$\quad a_{1,1} = \max_i |a_{i,1}^{(2-1)}| = 2$

$\quad a_{2,2} = \max_i |a_{i,2}^{(3-1)}| = 3$

$\quad a_{3,3} = \max_i |a_{i,3}^{(4-1)}| = 4$

$\quad a_{4,4} = \max_i |a_{i,4}^{(5-1)}| = 5$

$\quad a_{5,5} = \max_i |a_{i,5}^{(6-1)}| = 6$

$\quad a_{6,6} = \max_i |a_{i,6}^{(7-1)}| = 7$

$\quad a_{7,7} = \max_i |a_{i,7}^{(8-1)}| = 8$

$\quad a_{8,8} = \max_i |a_{i,8}^{(9-1)}| = 9$

$\quad a_{9,9} = \max_i |a_{i,9}^{(10-1)}| = 10$

$\quad a_{10,10} = \max_i |a_{i,10}^{(11-1)}| = 11$

$\quad a_{11,11} = \max_i |a_{i,11}^{(12-1)}| = 12$

$\quad a_{12,12} = \max_i |a_{i,12}^{(13-1)}| = 13$

$\quad a_{13,13} = \max_i |a_{i,13}^{(14-1)}| = 14$

$\quad a_{14,14} = \max_i |a_{i,14}^{(15-1)}| = 15$

$\quad a_{15,15} = \max_i |a_{i,15}^{(16-1)}| = 16$

$\quad a_{16,16} = \max_i |a_{i,16}^{(17-1)}| = 17$

$\quad a_{17,17} = \max_i |a_{i,17}^{(18-1)}| = 18$

$\quad a_{18,18} = \max_i |a_{i,18}^{(19-1)}| = 19$

$\quad a_{19,19} = \max_i |a_{i,19}^{(20-1)}| = 20$

$\quad a_{20,20} = \max_i |a_{i,20}^{(21-1)}| = 21$

$\quad a_{21,21} = \max_i |a_{i,21}^{(22-1)}| = 22$

$\quad a_{22,22} = \max_i |a_{i,22}^{(23-1)}| = 23$

$\quad a_{23,23} = \max_i |a_{i,23}^{(24-1)}| = 24$

$\quad a_{24,24} = \max_i |a_{i,24}^{(25-1)}| = 25$

$\quad a_{25,25} = \max_i |a_{i,25}^{(26-1)}| = 26$

$\quad a_{26,26} = \max_i |a_{i,26}^{(27-1)}| = 27$

$\quad a_{27,27} = \max_i |a_{i,27}^{(28-1)}| = 28$

$\quad a_{28,28} = \max_i |a_{i,28}^{(29-1)}| = 29$

$$a_{29,29} = \max_i |a_{i,29}^{(30-1)}| = 30$$
$$a_{30,30} = \max_i |a_{i,30}^{(31-1)}| = 31$$
$$a_{31,31} = \max_i |a_{i,31}^{(32-1)}| = 32$$
$$a_{32,32} = \max_i |a_{i,32}^{(33-1)}| = 33$$
$$a_{33,33} = \max_i |a_{i,33}^{(34-1)}| = 34$$
$$a_{34,34} = \max_i |a_{i,34}^{(35-1)}| = 35$$
$$a_{35,35} = \max_i |a_{i,35}^{(36-1)}| = 36$$
$$a_{36,36} = \max_i |a_{i,36}^{(37-1)}| = 37$$
$$a_{37,37} = \max_i |a_{i,37}^{(38-1)}| = 38$$
$$a_{38,38} = \max_i |a_{i,38}^{(39-1)}| = 39$$
$$a_{39,39} = \max_i |a_{i,39}^{(40-1)}| = 40$$
$$a_{40,40} = \max_i |a_{i,40}^{(41-1)}| = 41$$
$$a_{41,41} = \max_i |a_{i,41}^{(42-1)}| = 42$$
$$a_{42,42} = \max_i |a_{i,42}^{(43-1)}| = 43$$
$$a_{43,43} = \max_i |a_{i,43}^{(44-1)}| = 44$$
$$a_{44,44} = \max_i |a_{i,44}^{(45-1)}| = 45$$
$$a_{45,45} = \max_i |a_{i,45}^{(46-1)}| = 46$$
$$a_{46,46} = \max_i |a_{i,46}^{(47-1)}| = 47$$
$$a_{47,47} = \max_i |a_{i,47}^{(48-1)}| = 48$$
$$a_{48,48} = \max_i |a_{i,48}^{(49-1)}| = 49$$
$$a_{49,49} = \max_i |a_{i,49}^{(50-1)}| = 50$$
$$a_{50,50} = \max_i |a_{i,50}^{(51-1)}| = 51$$
$$a_{51,51} = \max_i |a_{i,51}^{(52-1)}| = 52$$
$$a_{52,52} = \max_i |a_{i,52}^{(53-1)}| = 53$$
$$a_{53,53} = \max_i |a_{i,53}^{(54-1)}| = 54$$
$$a_{54,54} = \max_i |a_{i,54}^{(55-1)}| = 55$$
$$a_{55,55} = \max_i |a_{i,55}^{(56-1)}| = 56$$
$$a_{56,56} = \max_i |a_{i,56}^{(57-1)}| = 57$$
$$a_{57,57} = \max_i |a_{i,57}^{(58-1)}| = 58$$
$$a_{58,58} = \max_i |a_{i,58}^{(59-1)}| = 59$$
$$a_{59,59} = \max_i |a_{i,59}^{(60-1)}| = 60$$
$$a_{60,60} = \max_i |a_{i,60}^{(61-1)}| = 61$$
$$a_{61,61} = \max_i |a_{i,61}^{(62-1)}| = 62$$

$$a_{62,62} = \max_i |a_{i,62}^{(63-1)}| = 63$$
$$a_{63,63} = \max_i |a_{i,63}^{(64-1)}| = 64$$
$$a_{64,64} = \max_i |a_{i,64}^{(65-1)}| = 65$$
$$a_{65,65} = \max_i |a_{i,65}^{(66-1)}| = 66$$
$$a_{66,66} = \max_i |a_{i,66}^{(67-1)}| = 67$$
$$a_{67,67} = \max_i |a_{i,67}^{(68-1)}| = 68$$
$$a_{68,68} = \max_i |a_{i,68}^{(69-1)}| = 69$$
$$a_{69,69} = \max_i |a_{i,69}^{(70-1)}| = 70$$
$$a_{70,70} = \max_i |a_{i,70}^{(71-1)}| = 71$$
$$a_{71,71} = \max_i |a_{i,71}^{(72-1)}| = 72$$
$$a_{72,72} = \max_i |a_{i,72}^{(73-1)}| = 73$$
$$a_{73,73} = \max_i |a_{i,73}^{(74-1)}| = 74$$
$$a_{74,74} = \max_i |a_{i,74}^{(75-1)}| = 75$$
$$a_{75,75} = \max_i |a_{i,75}^{(76-1)}| = 76$$
$$a_{76,76} = \max_i |a_{i,76}^{(77-1)}| = 77$$
$$a_{77,77} = \max_i |a_{i,77}^{(78-1)}| = 78$$
$$a_{78,78} = \max_i |a_{i,78}^{(79-1)}| = 79$$
$$a_{79,79} = \max_i |a_{i,79}^{(80-1)}| = 80$$
$$a_{80,80} = \max_i |a_{i,80}^{(81-1)}| = 81$$
$$a_{81,81} = \max_i |a_{i,81}^{(82-1)}| = 82$$
$$a_{82,82} = \max_i |a_{i,82}^{(83-1)}| = 83$$
$$a_{83,83} = \max_i |a_{i,83}^{(84-1)}| = 84$$
$$a_{84,84} = \max_i |a_{i,84}^{(85-1)}| = 85$$
$$a_{85,85} = \max_i |a_{i,85}^{(86-1)}| = 86$$
$$a_{86,86} = \max_i |a_{i,86}^{(87-1)}| = 87$$

$$\bar{x} = \begin{pmatrix} -3826.00 \\ -3823.50 \\ -2546.67 \\ -1907.75 \\ -1524.00 \\ -1267.83 \\ -1084.57 \\ -946.88 \\ -839.56 \\ -753.50 \\ -682.91 \\ -623.92 \\ -573.85 \\ -530.79 \\ -493.33 \\ -460.44 \\ -431.29 \\ -405.28 \\ -381.89 \\ -360.75 \\ -341.52 \\ -323.95 \\ -307.83 \\ -292.96 \\ -279.20 \\ -266.42 \\ -254.52 \\ -243.39 \\ -232.97 \\ -223.17 \\ -213.94 \\ -205.22 \\ -196.97 \\ -189.15 \\ -181.71 \\ -174.64 \\ -167.89 \\ -161.45 \\ -155.28 \\ -149.38 \\ -143.71 \\ -138.26 \\ -133.02 \\ -127.98 \\ -123.11 \\ -118.41 \\ -113.87 \\ -109.48 \\ -105.22 \end{pmatrix}$$

220

$$\Delta A = 2.107757298379527e132$$

79 $N = 88$

$A = \{a_{i,j} | i = 0..\bar{8}8, j = 0..\bar{8}9\}$

$a_{0,0} = \max_i |a_{i,0}^{(1-1)}| = 1$

$a_{1,1} = \max_i |a_{i,1}^{(2-1)}| = 2$

$a_{2,2} = \max_i |a_{i,2}^{(3-1)}| = 3$

$a_{3,3} = \max_i |a_{i,3}^{(4-1)}| = 4$

$a_{4,4} = \max_i |a_{i,4}^{(5-1)}| = 5$

$a_{5,5} = \max_i |a_{i,5}^{(6-1)}| = 6$

$a_{6,6} = \max_i |a_{i,6}^{(7-1)}| = 7$

$a_{7,7} = \max_i |a_{i,7}^{(8-1)}| = 8$

$a_{8,8} = \max_i |a_{i,8}^{(9-1)}| = 9$

$a_{9,9} = \max_i |a_{i,9}^{(10-1)}| = 10$

$a_{10,10} = \max_i |a_{i,10}^{(11-1)}| = 11$

$a_{11,11} = \max_i |a_{i,11}^{(12-1)}| = 12$

$a_{12,12} = \max_i |a_{i,12}^{(13-1)}| = 13$

$a_{13,13} = \max_i |a_{i,13}^{(14-1)}| = 14$

$a_{14,14} = \max_i |a_{i,14}^{(15-1)}| = 15$

$a_{15,15} = \max_i |a_{i,15}^{(16-1)}| = 16$

$a_{16,16} = \max_i |a_{i,16}^{(17-1)}| = 17$

$a_{17,17} = \max_i |a_{i,17}^{(18-1)}| = 18$

$a_{18,18} = \max_i |a_{i,18}^{(19-1)}| = 19$

$a_{19,19} = \max_i |a_{i,19}^{(20-1)}| = 20$

$a_{20,20} = \max_i |a_{i,20}^{(21-1)}| = 21$

$a_{21,21} = \max_i |a_{i,21}^{(22-1)}| = 22$

$a_{22,22} = \max_i |a_{i,22}^{(23-1)}| = 23$

$a_{23,23} = \max_i |a_{i,23}^{(24-1)}| = 24$

$a_{24,24} = \max_i |a_{i,24}^{(25-1)}| = 25$

$a_{25,25} = \max_i |a_{i,25}^{(26-1)}| = 26$

$a_{26,26} = \max_i |a_{i,26}^{(27-1)}| = 27$

$a_{27,27} = \max_i |a_{i,27}^{(28-1)}| = 28$

$a_{28,28} = \max_i |a_{i,28}^{(29-1)}| = 29$

$$a_{29,29} = \max_i |a_{i,29}^{(30-1)}| = 30$$
$$a_{30,30} = \max_i |a_{i,30}^{(31-1)}| = 31$$
$$a_{31,31} = \max_i |a_{i,31}^{(32-1)}| = 32$$
$$a_{32,32} = \max_i |a_{i,32}^{(33-1)}| = 33$$
$$a_{33,33} = \max_i |a_{i,33}^{(34-1)}| = 34$$
$$a_{34,34} = \max_i |a_{i,34}^{(35-1)}| = 35$$
$$a_{35,35} = \max_i |a_{i,35}^{(36-1)}| = 36$$
$$a_{36,36} = \max_i |a_{i,36}^{(37-1)}| = 37$$
$$a_{37,37} = \max_i |a_{i,37}^{(38-1)}| = 38$$
$$a_{38,38} = \max_i |a_{i,38}^{(39-1)}| = 39$$
$$a_{39,39} = \max_i |a_{i,39}^{(40-1)}| = 40$$
$$a_{40,40} = \max_i |a_{i,40}^{(41-1)}| = 41$$
$$a_{41,41} = \max_i |a_{i,41}^{(42-1)}| = 42$$
$$a_{42,42} = \max_i |a_{i,42}^{(43-1)}| = 43$$
$$a_{43,43} = \max_i |a_{i,43}^{(44-1)}| = 44$$
$$a_{44,44} = \max_i |a_{i,44}^{(45-1)}| = 45$$
$$a_{45,45} = \max_i |a_{i,45}^{(46-1)}| = 46$$
$$a_{46,46} = \max_i |a_{i,46}^{(47-1)}| = 47$$
$$a_{47,47} = \max_i |a_{i,47}^{(48-1)}| = 48$$
$$a_{48,48} = \max_i |a_{i,48}^{(49-1)}| = 49$$
$$a_{49,49} = \max_i |a_{i,49}^{(50-1)}| = 50$$
$$a_{50,50} = \max_i |a_{i,50}^{(51-1)}| = 51$$
$$a_{51,51} = \max_i |a_{i,51}^{(52-1)}| = 52$$
$$a_{52,52} = \max_i |a_{i,52}^{(53-1)}| = 53$$
$$a_{53,53} = \max_i |a_{i,53}^{(54-1)}| = 54$$
$$a_{54,54} = \max_i |a_{i,54}^{(55-1)}| = 55$$
$$a_{55,55} = \max_i |a_{i,55}^{(56-1)}| = 56$$
$$a_{56,56} = \max_i |a_{i,56}^{(57-1)}| = 57$$
$$a_{57,57} = \max_i |a_{i,57}^{(58-1)}| = 58$$
$$a_{58,58} = \max_i |a_{i,58}^{(59-1)}| = 59$$
$$a_{59,59} = \max_i |a_{i,59}^{(60-1)}| = 60$$
$$a_{60,60} = \max_i |a_{i,60}^{(61-1)}| = 61$$
$$a_{61,61} = \max_i |a_{i,61}^{(62-1)}| = 62$$

$$a_{62,62} = \max_i |a_{i,62}^{(63-1)}| = 63$$
$$a_{63,63} = \max_i |a_{i,63}^{(64-1)}| = 64$$
$$a_{64,64} = \max_i |a_{i,64}^{(65-1)}| = 65$$
$$a_{65,65} = \max_i |a_{i,65}^{(66-1)}| = 66$$
$$a_{66,66} = \max_i |a_{i,66}^{(67-1)}| = 67$$
$$a_{67,67} = \max_i |a_{i,67}^{(68-1)}| = 68$$
$$a_{68,68} = \max_i |a_{i,68}^{(69-1)}| = 69$$
$$a_{69,69} = \max_i |a_{i,69}^{(70-1)}| = 70$$
$$a_{70,70} = \max_i |a_{i,70}^{(71-1)}| = 71$$
$$a_{71,71} = \max_i |a_{i,71}^{(72-1)}| = 72$$
$$a_{72,72} = \max_i |a_{i,72}^{(73-1)}| = 73$$
$$a_{73,73} = \max_i |a_{i,73}^{(74-1)}| = 74$$
$$a_{74,74} = \max_i |a_{i,74}^{(75-1)}| = 75$$
$$a_{75,75} = \max_i |a_{i,75}^{(76-1)}| = 76$$
$$a_{76,76} = \max_i |a_{i,76}^{(77-1)}| = 77$$
$$a_{77,77} = \max_i |a_{i,77}^{(78-1)}| = 78$$
$$a_{78,78} = \max_i |a_{i,78}^{(79-1)}| = 79$$
$$a_{79,79} = \max_i |a_{i,79}^{(80-1)}| = 80$$
$$a_{80,80} = \max_i |a_{i,80}^{(81-1)}| = 81$$
$$a_{81,81} = \max_i |a_{i,81}^{(82-1)}| = 82$$
$$a_{82,82} = \max_i |a_{i,82}^{(83-1)}| = 83$$
$$a_{83,83} = \max_i |a_{i,83}^{(84-1)}| = 84$$
$$a_{84,84} = \max_i |a_{i,84}^{(85-1)}| = 85$$
$$a_{85,85} = \max_i |a_{i,85}^{(86-1)}| = 86$$
$$a_{86,86} = \max_i |a_{i,86}^{(87-1)}| = 87$$
$$a_{87,87} = \max_i |a_{i,87}^{(88-1)}| = 88$$

$$\bar{x} = \begin{pmatrix} -3914.00 \\ -3911.50 \\ -2605.33 \\ -1951.75 \\ -1559.20 \\ -1297.17 \\ -1109.71 \\ -968.88 \\ -859.11 \\ -771.10 \\ -698.91 \\ -638.58 \\ -587.38 \\ -543.36 \\ -505.07 \\ -471.44 \\ -441.65 \\ -415.06 \\ -391.16 \\ -369.55 \\ -349.90 \\ -331.95 \\ -315.48 \\ -300.29 \\ -286.24 \\ -273.19 \\ -261.04 \\ -249.68 \\ -239.03 \\ -229.03 \\ -219.61 \\ -210.72 \\ -202.30 \\ -194.32 \\ -186.74 \\ -179.53 \\ -172.65 \\ -166.08 \\ -159.79 \\ -153.78 \\ -148.00 \\ -142.45 \\ -137.12 \\ -131.98 \\ -127.02 \\ -122.24 \\ -117.62 \\ -113.15 \\ -108.82 \\ -104.62 \end{pmatrix}$$

224

$$\Delta A = 1.8548264225739836e134$$

80 $N = 89$

$A = \{a_{i,j} | i = 0..\overline{89}, j = 0..\overline{90}\}$

$a_{0,0} = \max_i |a_{i,0}^{(1-1)}| = 1$

$a_{1,1} = \max_i |a_{i,1}^{(2-1)}| = 2$

$a_{2,2} = \max_i |a_{i,2}^{(3-1)}| = 3$

$a_{3,3} = \max_i |a_{i,3}^{(4-1)}| = 4$

$a_{4,4} = \max_i |a_{i,4}^{(5-1)}| = 5$

$a_{5,5} = \max_i |a_{i,5}^{(6-1)}| = 6$

$a_{6,6} = \max_i |a_{i,6}^{(7-1)}| = 7$

$a_{7,7} = \max_i |a_{i,7}^{(8-1)}| = 8$

$a_{8,8} = \max_i |a_{i,8}^{(9-1)}| = 9$

$a_{9,9} = \max_i |a_{i,9}^{(10-1)}| = 10$

$a_{10,10} = \max_i |a_{i,10}^{(11-1)}| = 11$

$a_{11,11} = \max_i |a_{i,11}^{(12-1)}| = 12$

$a_{12,12} = \max_i |a_{i,12}^{(13-1)}| = 13$

$a_{13,13} = \max_i |a_{i,13}^{(14-1)}| = 14$

$a_{14,14} = \max_i |a_{i,14}^{(15-1)}| = 15$

$a_{15,15} = \max_i |a_{i,15}^{(16-1)}| = 16$

$a_{16,16} = \max_i |a_{i,16}^{(17-1)}| = 17$

$a_{17,17} = \max_i |a_{i,17}^{(18-1)}| = 18$

$a_{18,18} = \max_i |a_{i,18}^{(19-1)}| = 19$

$a_{19,19} = \max_i |a_{i,19}^{(20-1)}| = 20$

$a_{20,20} = \max_i |a_{i,20}^{(21-1)}| = 21$

$a_{21,21} = \max_i |a_{i,21}^{(22-1)}| = 22$

$a_{22,22} = \max_i |a_{i,22}^{(23-1)}| = 23$

$a_{23,23} = \max_i |a_{i,23}^{(24-1)}| = 24$

$a_{24,24} = \max_i |a_{i,24}^{(25-1)}| = 25$

$a_{25,25} = \max_i |a_{i,25}^{(26-1)}| = 26$

$a_{26,26} = \max_i |a_{i,26}^{(27-1)}| = 27$

$a_{27,27} = \max_i |a_{i,27}^{(28-1)}| = 28$

$a_{28,28} = \max_i |a_{i,28}^{(29-1)}| = 29$

$$a_{29,29} = \max_i |a_{i,29}^{(30-1)}| = 30$$

$$a_{30,30} = \max_i |a_{i,30}^{(31-1)}| = 31$$

$$a_{31,31} = \max_i |a_{i,31}^{(32-1)}| = 32$$

$$a_{32,32} = \max_i |a_{i,32}^{(33-1)}| = 33$$

$$a_{33,33} = \max_i |a_{i,33}^{(34-1)}| = 34$$

$$a_{34,34} = \max_i |a_{i,34}^{(35-1)}| = 35$$

$$a_{35,35} = \max_i |a_{i,35}^{(36-1)}| = 36$$

$$a_{36,36} = \max_i |a_{i,36}^{(37-1)}| = 37$$

$$a_{37,37} = \max_i |a_{i,37}^{(38-1)}| = 38$$

$$a_{38,38} = \max_i |a_{i,38}^{(39-1)}| = 39$$

$$a_{39,39} = \max_i |a_{i,39}^{(40-1)}| = 40$$

$$a_{40,40} = \max_i |a_{i,40}^{(41-1)}| = 41$$

$$a_{41,41} = \max_i |a_{i,41}^{(42-1)}| = 42$$

$$a_{42,42} = \max_i |a_{i,42}^{(43-1)}| = 43$$

$$a_{43,43} = \max_i |a_{i,43}^{(44-1)}| = 44$$

$$a_{44,44} = \max_i |a_{i,44}^{(45-1)}| = 45$$

$$a_{45,45} = \max_i |a_{i,45}^{(46-1)}| = 46$$

$$a_{46,46} = \max_i |a_{i,46}^{(47-1)}| = 47$$

$$a_{47,47} = \max_i |a_{i,47}^{(48-1)}| = 48$$

$$a_{48,48} = \max_i |a_{i,48}^{(49-1)}| = 49$$

$$a_{49,49} = \max_i |a_{i,49}^{(50-1)}| = 50$$

$$a_{50,50} = \max_i |a_{i,50}^{(51-1)}| = 51$$

$$a_{51,51} = \max_i |a_{i,51}^{(52-1)}| = 52$$

$$a_{52,52} = \max_i |a_{i,52}^{(53-1)}| = 53$$

$$a_{53,53} = \max_i |a_{i,53}^{(54-1)}| = 54$$

$$a_{54,54} = \max_i |a_{i,54}^{(55-1)}| = 55$$

$$a_{55,55} = \max_i |a_{i,55}^{(56-1)}| = 56$$

$$a_{56,56} = \max_i |a_{i,56}^{(57-1)}| = 57$$

$$a_{57,57} = \max_i |a_{i,57}^{(58-1)}| = 58$$

$$a_{58,58} = \max_i |a_{i,58}^{(59-1)}| = 59$$

$$a_{59,59} = \max_i |a_{i,59}^{(60-1)}| = 60$$

$$a_{60,60} = \max_i |a_{i,60}^{(61-1)}| = 61$$

$$a_{61,61} = \max_i |a_{i,61}^{(62-1)}| = 62$$

$$a_{62,62} = \max_i |a_{i,62}^{(63-1)}| = 63$$
$$a_{63,63} = \max_i |a_{i,63}^{(64-1)}| = 64$$
$$a_{64,64} = \max_i |a_{i,64}^{(65-1)}| = 65$$
$$a_{65,65} = \max_i |a_{i,65}^{(66-1)}| = 66$$
$$a_{66,66} = \max_i |a_{i,66}^{(67-1)}| = 67$$
$$a_{67,67} = \max_i |a_{i,67}^{(68-1)}| = 68$$
$$a_{68,68} = \max_i |a_{i,68}^{(69-1)}| = 69$$
$$a_{69,69} = \max_i |a_{i,69}^{(70-1)}| = 70$$
$$a_{70,70} = \max_i |a_{i,70}^{(71-1)}| = 71$$
$$a_{71,71} = \max_i |a_{i,71}^{(72-1)}| = 72$$
$$a_{72,72} = \max_i |a_{i,72}^{(73-1)}| = 73$$
$$a_{73,73} = \max_i |a_{i,73}^{(74-1)}| = 74$$
$$a_{74,74} = \max_i |a_{i,74}^{(75-1)}| = 75$$
$$a_{75,75} = \max_i |a_{i,75}^{(76-1)}| = 76$$
$$a_{76,76} = \max_i |a_{i,76}^{(77-1)}| = 77$$
$$a_{77,77} = \max_i |a_{i,77}^{(78-1)}| = 78$$
$$a_{78,78} = \max_i |a_{i,78}^{(79-1)}| = 79$$
$$a_{79,79} = \max_i |a_{i,79}^{(80-1)}| = 80$$
$$a_{80,80} = \max_i |a_{i,80}^{(81-1)}| = 81$$
$$a_{81,81} = \max_i |a_{i,81}^{(82-1)}| = 82$$
$$a_{82,82} = \max_i |a_{i,82}^{(83-1)}| = 83$$
$$a_{83,83} = \max_i |a_{i,83}^{(84-1)}| = 84$$
$$a_{84,84} = \max_i |a_{i,84}^{(85-1)}| = 85$$
$$a_{85,85} = \max_i |a_{i,85}^{(86-1)}| = 86$$
$$a_{86,86} = \max_i |a_{i,86}^{(87-1)}| = 87$$
$$a_{87,87} = \max_i |a_{i,87}^{(88-1)}| = 88$$
$$a_{88,88} = \max_i |a_{i,88}^{(89-1)}| = 89$$

$$\bar{x} = \begin{pmatrix} -4003.00 \\ -4000.50 \\ -2664.67 \\ -1996.25 \\ -1594.80 \\ -1326.83 \\ -1135.14 \\ -991.12 \\ -878.89 \\ -788.90 \\ -715.09 \\ -653.42 \\ -601.08 \\ -556.07 \\ -516.93 \\ -482.56 \\ -452.12 \\ -424.94 \\ -400.53 \\ -378.45 \\ -358.38 \\ -340.05 \\ -323.22 \\ -307.71 \\ -293.36 \\ -280.04 \\ -267.63 \\ -256.04 \\ -245.17 \\ -234.97 \\ -225.35 \\ -216.28 \\ -207.70 \\ -199.56 \\ -191.83 \\ -184.47 \\ -177.46 \\ -170.76 \\ -164.36 \\ -158.22 \\ -152.34 \\ -146.69 \\ -141.26 \\ -136.02 \\ -130.98 \\ -126.11 \\ -121.40 \\ -116.85 \\ -112.45 \\ -108.18 \end{pmatrix}$$

228

$$\Delta A = 1.6507955160908452e136$$

81 $N = 90$

$A = \{a_{i,j} | i = 0..\overline{90}, j = 0..\overline{91}\}$

$a_{0,0} = \max_i |a_{i,0}^{(1-1)}| = 1$

$a_{1,1} = \max_i |a_{i,1}^{(2-1)}| = 2$

$a_{2,2} = \max_i |a_{i,2}^{(3-1)}| = 3$

$a_{3,3} = \max_i |a_{i,3}^{(4-1)}| = 4$

$a_{4,4} = \max_i |a_{i,4}^{(5-1)}| = 5$

$a_{5,5} = \max_i |a_{i,5}^{(6-1)}| = 6$

$a_{6,6} = \max_i |a_{i,6}^{(7-1)}| = 7$

$a_{7,7} = \max_i |a_{i,7}^{(8-1)}| = 8$

$a_{8,8} = \max_i |a_{i,8}^{(9-1)}| = 9$

$a_{9,9} = \max_i |a_{i,9}^{(10-1)}| = 10$

$a_{10,10} = \max_i |a_{i,10}^{(11-1)}| = 11$

$a_{11,11} = \max_i |a_{i,11}^{(12-1)}| = 12$

$a_{12,12} = \max_i |a_{i,12}^{(13-1)}| = 13$

$a_{13,13} = \max_i |a_{i,13}^{(14-1)}| = 14$

$a_{14,14} = \max_i |a_{i,14}^{(15-1)}| = 15$

$a_{15,15} = \max_i |a_{i,15}^{(16-1)}| = 16$

$a_{16,16} = \max_i |a_{i,16}^{(17-1)}| = 17$

$a_{17,17} = \max_i |a_{i,17}^{(18-1)}| = 18$

$a_{18,18} = \max_i |a_{i,18}^{(19-1)}| = 19$

$a_{19,19} = \max_i |a_{i,19}^{(20-1)}| = 20$

$a_{20,20} = \max_i |a_{i,20}^{(21-1)}| = 21$

$a_{21,21} = \max_i |a_{i,21}^{(22-1)}| = 22$

$a_{22,22} = \max_i |a_{i,22}^{(23-1)}| = 23$

$a_{23,23} = \max_i |a_{i,23}^{(24-1)}| = 24$

$a_{24,24} = \max_i |a_{i,24}^{(25-1)}| = 25$

$a_{25,25} = \max_i |a_{i,25}^{(26-1)}| = 26$

$a_{26,26} = \max_i |a_{i,26}^{(27-1)}| = 27$

$a_{27,27} = \max_i |a_{i,27}^{(28-1)}| = 28$

$a_{28,28} = \max_i |a_{i,28}^{(29-1)}| = 29$

$$a_{29,29} = \max_i |a_{i,29}^{(30-1)}| = 30$$
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$$a_{31,31} = \max_i |a_{i,31}^{(32-1)}| = 32$$
$$a_{32,32} = \max_i |a_{i,32}^{(33-1)}| = 33$$
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$$a_{35,35} = \max_i |a_{i,35}^{(36-1)}| = 36$$
$$a_{36,36} = \max_i |a_{i,36}^{(37-1)}| = 37$$
$$a_{37,37} = \max_i |a_{i,37}^{(38-1)}| = 38$$
$$a_{38,38} = \max_i |a_{i,38}^{(39-1)}| = 39$$
$$a_{39,39} = \max_i |a_{i,39}^{(40-1)}| = 40$$
$$a_{40,40} = \max_i |a_{i,40}^{(41-1)}| = 41$$
$$a_{41,41} = \max_i |a_{i,41}^{(42-1)}| = 42$$
$$a_{42,42} = \max_i |a_{i,42}^{(43-1)}| = 43$$
$$a_{43,43} = \max_i |a_{i,43}^{(44-1)}| = 44$$
$$a_{44,44} = \max_i |a_{i,44}^{(45-1)}| = 45$$
$$a_{45,45} = \max_i |a_{i,45}^{(46-1)}| = 46$$
$$a_{46,46} = \max_i |a_{i,46}^{(47-1)}| = 47$$
$$a_{47,47} = \max_i |a_{i,47}^{(48-1)}| = 48$$
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$$a_{49,49} = \max_i |a_{i,49}^{(50-1)}| = 50$$
$$a_{50,50} = \max_i |a_{i,50}^{(51-1)}| = 51$$
$$a_{51,51} = \max_i |a_{i,51}^{(52-1)}| = 52$$
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$$a_{55,55} = \max_i |a_{i,55}^{(56-1)}| = 56$$
$$a_{56,56} = \max_i |a_{i,56}^{(57-1)}| = 57$$
$$a_{57,57} = \max_i |a_{i,57}^{(58-1)}| = 58$$
$$a_{58,58} = \max_i |a_{i,58}^{(59-1)}| = 59$$
$$a_{59,59} = \max_i |a_{i,59}^{(60-1)}| = 60$$
$$a_{60,60} = \max_i |a_{i,60}^{(61-1)}| = 61$$
$$a_{61,61} = \max_i |a_{i,61}^{(62-1)}| = 62$$

$$a_{62,62} = \max_i |a_{i,62}^{(63-1)}| = 63$$
$$a_{63,63} = \max_i |a_{i,63}^{(64-1)}| = 64$$
$$a_{64,64} = \max_i |a_{i,64}^{(65-1)}| = 65$$
$$a_{65,65} = \max_i |a_{i,65}^{(66-1)}| = 66$$
$$a_{66,66} = \max_i |a_{i,66}^{(67-1)}| = 67$$
$$a_{67,67} = \max_i |a_{i,67}^{(68-1)}| = 68$$
$$a_{68,68} = \max_i |a_{i,68}^{(69-1)}| = 69$$
$$a_{69,69} = \max_i |a_{i,69}^{(70-1)}| = 70$$
$$a_{70,70} = \max_i |a_{i,70}^{(71-1)}| = 71$$
$$a_{71,71} = \max_i |a_{i,71}^{(72-1)}| = 72$$
$$a_{72,72} = \max_i |a_{i,72}^{(73-1)}| = 73$$
$$a_{73,73} = \max_i |a_{i,73}^{(74-1)}| = 74$$
$$a_{74,74} = \max_i |a_{i,74}^{(75-1)}| = 75$$
$$a_{75,75} = \max_i |a_{i,75}^{(76-1)}| = 76$$
$$a_{76,76} = \max_i |a_{i,76}^{(77-1)}| = 77$$
$$a_{77,77} = \max_i |a_{i,77}^{(78-1)}| = 78$$
$$a_{78,78} = \max_i |a_{i,78}^{(79-1)}| = 79$$
$$a_{79,79} = \max_i |a_{i,79}^{(80-1)}| = 80$$
$$a_{80,80} = \max_i |a_{i,80}^{(81-1)}| = 81$$
$$a_{81,81} = \max_i |a_{i,81}^{(82-1)}| = 82$$
$$a_{82,82} = \max_i |a_{i,82}^{(83-1)}| = 83$$
$$a_{83,83} = \max_i |a_{i,83}^{(84-1)}| = 84$$
$$a_{84,84} = \max_i |a_{i,84}^{(85-1)}| = 85$$
$$a_{85,85} = \max_i |a_{i,85}^{(86-1)}| = 86$$
$$a_{86,86} = \max_i |a_{i,86}^{(87-1)}| = 87$$
$$a_{87,87} = \max_i |a_{i,87}^{(88-1)}| = 88$$
$$a_{88,88} = \max_i |a_{i,88}^{(89-1)}| = 89$$
$$a_{89,89} = \max_i |a_{i,89}^{(90-1)}| = 90$$

$$\bar{x} = \begin{pmatrix} -4093.00 \\ -4090.50 \\ -2724.67 \\ -2041.25 \\ -1630.80 \\ -1356.83 \\ -1160.86 \\ -1013.62 \\ -898.89 \\ -806.90 \\ -731.45 \\ -668.42 \\ -614.92 \\ -568.93 \\ -528.93 \\ -493.81 \\ -462.71 \\ -434.94 \\ -410.00 \\ -387.45 \\ -366.95 \\ -348.23 \\ -331.04 \\ -315.21 \\ -300.56 \\ -286.96 \\ -274.30 \\ -262.46 \\ -251.38 \\ -240.97 \\ -231.16 \\ -221.91 \\ -213.15 \\ -204.85 \\ -196.97 \\ -189.47 \\ -182.32 \\ -175.50 \\ -168.97 \\ -162.72 \\ -156.73 \\ -150.98 \\ -145.44 \\ -140.11 \\ -134.98 \\ -130.02 \\ -125.23 \\ -120.60 \\ -116.12 \\ -111.78 \end{pmatrix}$$

232

$$\Delta A = 1.4857159644817607e138$$

82 $N = 91$

$A = \{a_{i,j} | i = 0..\overline{91}, j = 0..\overline{92}\}$

$a_{0,0} = \max_i |a_{i,0}^{(1-1)}| = 1$

$a_{1,1} = \max_i |a_{i,1}^{(2-1)}| = 2$

$a_{2,2} = \max_i |a_{i,2}^{(3-1)}| = 3$

$a_{3,3} = \max_i |a_{i,3}^{(4-1)}| = 4$

$a_{4,4} = \max_i |a_{i,4}^{(5-1)}| = 5$

$a_{5,5} = \max_i |a_{i,5}^{(6-1)}| = 6$

$a_{6,6} = \max_i |a_{i,6}^{(7-1)}| = 7$

$a_{7,7} = \max_i |a_{i,7}^{(8-1)}| = 8$

$a_{8,8} = \max_i |a_{i,8}^{(9-1)}| = 9$

$a_{9,9} = \max_i |a_{i,9}^{(10-1)}| = 10$

$a_{10,10} = \max_i |a_{i,10}^{(11-1)}| = 11$

$a_{11,11} = \max_i |a_{i,11}^{(12-1)}| = 12$

$a_{12,12} = \max_i |a_{i,12}^{(13-1)}| = 13$

$a_{13,13} = \max_i |a_{i,13}^{(14-1)}| = 14$

$a_{14,14} = \max_i |a_{i,14}^{(15-1)}| = 15$

$a_{15,15} = \max_i |a_{i,15}^{(16-1)}| = 16$

$a_{16,16} = \max_i |a_{i,16}^{(17-1)}| = 17$

$a_{17,17} = \max_i |a_{i,17}^{(18-1)}| = 18$

$a_{18,18} = \max_i |a_{i,18}^{(19-1)}| = 19$

$a_{19,19} = \max_i |a_{i,19}^{(20-1)}| = 20$

$a_{20,20} = \max_i |a_{i,20}^{(21-1)}| = 21$

$a_{21,21} = \max_i |a_{i,21}^{(22-1)}| = 22$

$a_{22,22} = \max_i |a_{i,22}^{(23-1)}| = 23$

$a_{23,23} = \max_i |a_{i,23}^{(24-1)}| = 24$

$a_{24,24} = \max_i |a_{i,24}^{(25-1)}| = 25$

$a_{25,25} = \max_i |a_{i,25}^{(26-1)}| = 26$

$a_{26,26} = \max_i |a_{i,26}^{(27-1)}| = 27$

$a_{27,27} = \max_i |a_{i,27}^{(28-1)}| = 28$

$a_{28,28} = \max_i |a_{i,28}^{(29-1)}| = 29$

$$a_{29,29} = \max_i |a_{i,29}^{(30-1)}| = 30$$
$$a_{30,30} = \max_i |a_{i,30}^{(31-1)}| = 31$$
$$a_{31,31} = \max_i |a_{i,31}^{(32-1)}| = 32$$
$$a_{32,32} = \max_i |a_{i,32}^{(33-1)}| = 33$$
$$a_{33,33} = \max_i |a_{i,33}^{(34-1)}| = 34$$
$$a_{34,34} = \max_i |a_{i,34}^{(35-1)}| = 35$$
$$a_{35,35} = \max_i |a_{i,35}^{(36-1)}| = 36$$
$$a_{36,36} = \max_i |a_{i,36}^{(37-1)}| = 37$$
$$a_{37,37} = \max_i |a_{i,37}^{(38-1)}| = 38$$
$$a_{38,38} = \max_i |a_{i,38}^{(39-1)}| = 39$$
$$a_{39,39} = \max_i |a_{i,39}^{(40-1)}| = 40$$
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$$a_{44,44} = \max_i |a_{i,44}^{(45-1)}| = 45$$
$$a_{45,45} = \max_i |a_{i,45}^{(46-1)}| = 46$$
$$a_{46,46} = \max_i |a_{i,46}^{(47-1)}| = 47$$
$$a_{47,47} = \max_i |a_{i,47}^{(48-1)}| = 48$$
$$a_{48,48} = \max_i |a_{i,48}^{(49-1)}| = 49$$
$$a_{49,49} = \max_i |a_{i,49}^{(50-1)}| = 50$$
$$a_{50,50} = \max_i |a_{i,50}^{(51-1)}| = 51$$
$$a_{51,51} = \max_i |a_{i,51}^{(52-1)}| = 52$$
$$a_{52,52} = \max_i |a_{i,52}^{(53-1)}| = 53$$
$$a_{53,53} = \max_i |a_{i,53}^{(54-1)}| = 54$$
$$a_{54,54} = \max_i |a_{i,54}^{(55-1)}| = 55$$
$$a_{55,55} = \max_i |a_{i,55}^{(56-1)}| = 56$$
$$a_{56,56} = \max_i |a_{i,56}^{(57-1)}| = 57$$
$$a_{57,57} = \max_i |a_{i,57}^{(58-1)}| = 58$$
$$a_{58,58} = \max_i |a_{i,58}^{(59-1)}| = 59$$
$$a_{59,59} = \max_i |a_{i,59}^{(60-1)}| = 60$$
$$a_{60,60} = \max_i |a_{i,60}^{(61-1)}| = 61$$
$$a_{61,61} = \max_i |a_{i,61}^{(62-1)}| = 62$$

$$a_{62,62} = \max_i |a_{i,62}^{(63-1)}| = 63$$
$$a_{63,63} = \max_i |a_{i,63}^{(64-1)}| = 64$$
$$a_{64,64} = \max_i |a_{i,64}^{(65-1)}| = 65$$
$$a_{65,65} = \max_i |a_{i,65}^{(66-1)}| = 66$$
$$a_{66,66} = \max_i |a_{i,66}^{(67-1)}| = 67$$
$$a_{67,67} = \max_i |a_{i,67}^{(68-1)}| = 68$$
$$a_{68,68} = \max_i |a_{i,68}^{(69-1)}| = 69$$
$$a_{69,69} = \max_i |a_{i,69}^{(70-1)}| = 70$$
$$a_{70,70} = \max_i |a_{i,70}^{(71-1)}| = 71$$
$$a_{71,71} = \max_i |a_{i,71}^{(72-1)}| = 72$$
$$a_{72,72} = \max_i |a_{i,72}^{(73-1)}| = 73$$
$$a_{73,73} = \max_i |a_{i,73}^{(74-1)}| = 74$$
$$a_{74,74} = \max_i |a_{i,74}^{(75-1)}| = 75$$
$$a_{75,75} = \max_i |a_{i,75}^{(76-1)}| = 76$$
$$a_{76,76} = \max_i |a_{i,76}^{(77-1)}| = 77$$
$$a_{77,77} = \max_i |a_{i,77}^{(78-1)}| = 78$$
$$a_{78,78} = \max_i |a_{i,78}^{(79-1)}| = 79$$
$$a_{79,79} = \max_i |a_{i,79}^{(80-1)}| = 80$$
$$a_{80,80} = \max_i |a_{i,80}^{(81-1)}| = 81$$
$$a_{81,81} = \max_i |a_{i,81}^{(82-1)}| = 82$$
$$a_{82,82} = \max_i |a_{i,82}^{(83-1)}| = 83$$
$$a_{83,83} = \max_i |a_{i,83}^{(84-1)}| = 84$$
$$a_{84,84} = \max_i |a_{i,84}^{(85-1)}| = 85$$
$$a_{85,85} = \max_i |a_{i,85}^{(86-1)}| = 86$$
$$a_{86,86} = \max_i |a_{i,86}^{(87-1)}| = 87$$
$$a_{87,87} = \max_i |a_{i,87}^{(88-1)}| = 88$$
$$a_{88,88} = \max_i |a_{i,88}^{(89-1)}| = 89$$
$$a_{89,89} = \max_i |a_{i,89}^{(90-1)}| = 90$$
$$a_{90,90} = \max_i |a_{i,90}^{(91-1)}| = 91$$

$$\bar{x} = \begin{pmatrix} -4184.00 \\ -4181.50 \\ -2785.33 \\ -2086.75 \\ -1667.20 \\ -1387.17 \\ -1186.86 \\ -1036.38 \\ -919.11 \\ -825.10 \\ -748.00 \\ -683.58 \\ -628.92 \\ -581.93 \\ -541.07 \\ -505.19 \\ -473.41 \\ -445.06 \\ -419.58 \\ -396.55 \\ -375.62 \\ -356.50 \\ -338.96 \\ -322.79 \\ -307.84 \\ -293.96 \\ -281.04 \\ -268.96 \\ -257.66 \\ -247.03 \\ -237.03 \\ -227.59 \\ -218.67 \\ -210.21 \\ -202.17 \\ -194.53 \\ -187.24 \\ -180.29 \\ -173.64 \\ -167.28 \\ -161.17 \\ -155.31 \\ -149.67 \\ -144.25 \\ -139.02 \\ -133.98 \\ -129.11 \\ -124.40 \\ -119.84 \\ \end{pmatrix}$$

236

$$\Delta A = 1.3520015276784023e140$$

83 $N = 92$

$A = \{a_{i,j} | i = 0..\overline{92}, j = 0..\overline{93}\}$

$a_{0,0} = \max_i |a_{i,0}^{(1-1)}| = 1$

$a_{1,1} = \max_i |a_{i,1}^{(2-1)}| = 2$

$a_{2,2} = \max_i |a_{i,2}^{(3-1)}| = 3$

$a_{3,3} = \max_i |a_{i,3}^{(4-1)}| = 4$

$a_{4,4} = \max_i |a_{i,4}^{(5-1)}| = 5$

$a_{5,5} = \max_i |a_{i,5}^{(6-1)}| = 6$

$a_{6,6} = \max_i |a_{i,6}^{(7-1)}| = 7$

$a_{7,7} = \max_i |a_{i,7}^{(8-1)}| = 8$

$a_{8,8} = \max_i |a_{i,8}^{(9-1)}| = 9$

$a_{9,9} = \max_i |a_{i,9}^{(10-1)}| = 10$

$a_{10,10} = \max_i |a_{i,10}^{(11-1)}| = 11$

$a_{11,11} = \max_i |a_{i,11}^{(12-1)}| = 12$

$a_{12,12} = \max_i |a_{i,12}^{(13-1)}| = 13$

$a_{13,13} = \max_i |a_{i,13}^{(14-1)}| = 14$

$a_{14,14} = \max_i |a_{i,14}^{(15-1)}| = 15$

$a_{15,15} = \max_i |a_{i,15}^{(16-1)}| = 16$

$a_{16,16} = \max_i |a_{i,16}^{(17-1)}| = 17$

$a_{17,17} = \max_i |a_{i,17}^{(18-1)}| = 18$

$a_{18,18} = \max_i |a_{i,18}^{(19-1)}| = 19$

$a_{19,19} = \max_i |a_{i,19}^{(20-1)}| = 20$

$a_{20,20} = \max_i |a_{i,20}^{(21-1)}| = 21$

$a_{21,21} = \max_i |a_{i,21}^{(22-1)}| = 22$

$a_{22,22} = \max_i |a_{i,22}^{(23-1)}| = 23$

$a_{23,23} = \max_i |a_{i,23}^{(24-1)}| = 24$

$a_{24,24} = \max_i |a_{i,24}^{(25-1)}| = 25$

$a_{25,25} = \max_i |a_{i,25}^{(26-1)}| = 26$

$a_{26,26} = \max_i |a_{i,26}^{(27-1)}| = 27$

$a_{27,27} = \max_i |a_{i,27}^{(28-1)}| = 28$

$a_{28,28} = \max_i |a_{i,28}^{(29-1)}| = 29$

$$a_{29,29} = \max_i |a_{i,29}^{(30-1)}| = 30$$
$$a_{30,30} = \max_i |a_{i,30}^{(31-1)}| = 31$$
$$a_{31,31} = \max_i |a_{i,31}^{(32-1)}| = 32$$
$$a_{32,32} = \max_i |a_{i,32}^{(33-1)}| = 33$$
$$a_{33,33} = \max_i |a_{i,33}^{(34-1)}| = 34$$
$$a_{34,34} = \max_i |a_{i,34}^{(35-1)}| = 35$$
$$a_{35,35} = \max_i |a_{i,35}^{(36-1)}| = 36$$
$$a_{36,36} = \max_i |a_{i,36}^{(37-1)}| = 37$$
$$a_{37,37} = \max_i |a_{i,37}^{(38-1)}| = 38$$
$$a_{38,38} = \max_i |a_{i,38}^{(39-1)}| = 39$$
$$a_{39,39} = \max_i |a_{i,39}^{(40-1)}| = 40$$
$$a_{40,40} = \max_i |a_{i,40}^{(41-1)}| = 41$$
$$a_{41,41} = \max_i |a_{i,41}^{(42-1)}| = 42$$
$$a_{42,42} = \max_i |a_{i,42}^{(43-1)}| = 43$$
$$a_{43,43} = \max_i |a_{i,43}^{(44-1)}| = 44$$
$$a_{44,44} = \max_i |a_{i,44}^{(45-1)}| = 45$$
$$a_{45,45} = \max_i |a_{i,45}^{(46-1)}| = 46$$
$$a_{46,46} = \max_i |a_{i,46}^{(47-1)}| = 47$$
$$a_{47,47} = \max_i |a_{i,47}^{(48-1)}| = 48$$
$$a_{48,48} = \max_i |a_{i,48}^{(49-1)}| = 49$$
$$a_{49,49} = \max_i |a_{i,49}^{(50-1)}| = 50$$
$$a_{50,50} = \max_i |a_{i,50}^{(51-1)}| = 51$$
$$a_{51,51} = \max_i |a_{i,51}^{(52-1)}| = 52$$
$$a_{52,52} = \max_i |a_{i,52}^{(53-1)}| = 53$$
$$a_{53,53} = \max_i |a_{i,53}^{(54-1)}| = 54$$
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$$a_{55,55} = \max_i |a_{i,55}^{(56-1)}| = 56$$
$$a_{56,56} = \max_i |a_{i,56}^{(57-1)}| = 57$$
$$a_{57,57} = \max_i |a_{i,57}^{(58-1)}| = 58$$
$$a_{58,58} = \max_i |a_{i,58}^{(59-1)}| = 59$$
$$a_{59,59} = \max_i |a_{i,59}^{(60-1)}| = 60$$
$$a_{60,60} = \max_i |a_{i,60}^{(61-1)}| = 61$$
$$a_{61,61} = \max_i |a_{i,61}^{(62-1)}| = 62$$

$$a_{62,62} = \max_i |a_{i,62}^{(63-1)}| = 63$$
$$a_{63,63} = \max_i |a_{i,63}^{(64-1)}| = 64$$
$$a_{64,64} = \max_i |a_{i,64}^{(65-1)}| = 65$$
$$a_{65,65} = \max_i |a_{i,65}^{(66-1)}| = 66$$
$$a_{66,66} = \max_i |a_{i,66}^{(67-1)}| = 67$$
$$a_{67,67} = \max_i |a_{i,67}^{(68-1)}| = 68$$
$$a_{68,68} = \max_i |a_{i,68}^{(69-1)}| = 69$$
$$a_{69,69} = \max_i |a_{i,69}^{(70-1)}| = 70$$
$$a_{70,70} = \max_i |a_{i,70}^{(71-1)}| = 71$$
$$a_{71,71} = \max_i |a_{i,71}^{(72-1)}| = 72$$
$$a_{72,72} = \max_i |a_{i,72}^{(73-1)}| = 73$$
$$a_{73,73} = \max_i |a_{i,73}^{(74-1)}| = 74$$
$$a_{74,74} = \max_i |a_{i,74}^{(75-1)}| = 75$$
$$a_{75,75} = \max_i |a_{i,75}^{(76-1)}| = 76$$
$$a_{76,76} = \max_i |a_{i,76}^{(77-1)}| = 77$$
$$a_{77,77} = \max_i |a_{i,77}^{(78-1)}| = 78$$
$$a_{78,78} = \max_i |a_{i,78}^{(79-1)}| = 79$$
$$a_{79,79} = \max_i |a_{i,79}^{(80-1)}| = 80$$
$$a_{80,80} = \max_i |a_{i,80}^{(81-1)}| = 81$$
$$a_{81,81} = \max_i |a_{i,81}^{(82-1)}| = 82$$
$$a_{82,82} = \max_i |a_{i,82}^{(83-1)}| = 83$$
$$a_{83,83} = \max_i |a_{i,83}^{(84-1)}| = 84$$
$$a_{84,84} = \max_i |a_{i,84}^{(85-1)}| = 85$$
$$a_{85,85} = \max_i |a_{i,85}^{(86-1)}| = 86$$
$$a_{86,86} = \max_i |a_{i,86}^{(87-1)}| = 87$$
$$a_{87,87} = \max_i |a_{i,87}^{(88-1)}| = 88$$
$$a_{88,88} = \max_i |a_{i,88}^{(89-1)}| = 89$$
$$a_{89,89} = \max_i |a_{i,89}^{(90-1)}| = 90$$
$$a_{90,90} = \max_i |a_{i,90}^{(91-1)}| = 91$$
$$a_{91,91} = \max_i |a_{i,91}^{(92-1)}| = 92$$

$$\bar{x} = \begin{pmatrix} -4276.00 \\ -4273.50 \\ -2846.67 \\ -2132.75 \\ -1704.00 \\ -1417.83 \\ -1213.14 \\ -1059.38 \\ -939.56 \\ -843.50 \\ -764.73 \\ -698.92 \\ -643.08 \\ -595.07 \\ -553.33 \\ -516.69 \\ -484.24 \\ -455.28 \\ -429.26 \\ -405.75 \\ -384.38 \\ -364.86 \\ -346.96 \\ -330.46 \\ -315.20 \\ -301.04 \\ -287.85 \\ -275.54 \\ -264.00 \\ -253.17 \\ -242.97 \\ -233.34 \\ -224.24 \\ -215.62 \\ -207.43 \\ -199.64 \\ -192.22 \\ -185.13 \\ -178.36 \\ -171.88 \\ -165.66 \\ -159.69 \\ -153.95 \\ -148.43 \\ -143.11 \\ -137.98 \\ -133.02 \\ -128.23 \\ -123.59 \end{pmatrix}$$

$$\Delta A = 1.24384140546413e142$$

84 $N = 93$

$A = \{a_{i,j} | i = 0..\bar{9}3, j = 0..\bar{9}4\}$

$a_{0,0} = \max_i |a_{i,0}^{(1-1)}| = 1$

$a_{1,1} = \max_i |a_{i,1}^{(2-1)}| = 2$

$a_{2,2} = \max_i |a_{i,2}^{(3-1)}| = 3$

$a_{3,3} = \max_i |a_{i,3}^{(4-1)}| = 4$

$a_{4,4} = \max_i |a_{i,4}^{(5-1)}| = 5$

$a_{5,5} = \max_i |a_{i,5}^{(6-1)}| = 6$

$a_{6,6} = \max_i |a_{i,6}^{(7-1)}| = 7$

$a_{7,7} = \max_i |a_{i,7}^{(8-1)}| = 8$

$a_{8,8} = \max_i |a_{i,8}^{(9-1)}| = 9$

$a_{9,9} = \max_i |a_{i,9}^{(10-1)}| = 10$

$a_{10,10} = \max_i |a_{i,10}^{(11-1)}| = 11$

$a_{11,11} = \max_i |a_{i,11}^{(12-1)}| = 12$

$a_{12,12} = \max_i |a_{i,12}^{(13-1)}| = 13$

$a_{13,13} = \max_i |a_{i,13}^{(14-1)}| = 14$

$a_{14,14} = \max_i |a_{i,14}^{(15-1)}| = 15$

$a_{15,15} = \max_i |a_{i,15}^{(16-1)}| = 16$

$a_{16,16} = \max_i |a_{i,16}^{(17-1)}| = 17$

$a_{17,17} = \max_i |a_{i,17}^{(18-1)}| = 18$

$a_{18,18} = \max_i |a_{i,18}^{(19-1)}| = 19$

$a_{19,19} = \max_i |a_{i,19}^{(20-1)}| = 20$

$a_{20,20} = \max_i |a_{i,20}^{(21-1)}| = 21$

$a_{21,21} = \max_i |a_{i,21}^{(22-1)}| = 22$

$a_{22,22} = \max_i |a_{i,22}^{(23-1)}| = 23$

$a_{23,23} = \max_i |a_{i,23}^{(24-1)}| = 24$

$a_{24,24} = \max_i |a_{i,24}^{(25-1)}| = 25$

$a_{25,25} = \max_i |a_{i,25}^{(26-1)}| = 26$

$a_{26,26} = \max_i |a_{i,26}^{(27-1)}| = 27$

$a_{27,27} = \max_i |a_{i,27}^{(28-1)}| = 28$

$a_{28,28} = \max_i |a_{i,28}^{(29-1)}| = 29$

$$a_{29,29} = \max_i |a_{i,29}^{(30-1)}| = 30$$
$$a_{30,30} = \max_i |a_{i,30}^{(31-1)}| = 31$$
$$a_{31,31} = \max_i |a_{i,31}^{(32-1)}| = 32$$
$$a_{32,32} = \max_i |a_{i,32}^{(33-1)}| = 33$$
$$a_{33,33} = \max_i |a_{i,33}^{(34-1)}| = 34$$
$$a_{34,34} = \max_i |a_{i,34}^{(35-1)}| = 35$$
$$a_{35,35} = \max_i |a_{i,35}^{(36-1)}| = 36$$
$$a_{36,36} = \max_i |a_{i,36}^{(37-1)}| = 37$$
$$a_{37,37} = \max_i |a_{i,37}^{(38-1)}| = 38$$
$$a_{38,38} = \max_i |a_{i,38}^{(39-1)}| = 39$$
$$a_{39,39} = \max_i |a_{i,39}^{(40-1)}| = 40$$
$$a_{40,40} = \max_i |a_{i,40}^{(41-1)}| = 41$$
$$a_{41,41} = \max_i |a_{i,41}^{(42-1)}| = 42$$
$$a_{42,42} = \max_i |a_{i,42}^{(43-1)}| = 43$$
$$a_{43,43} = \max_i |a_{i,43}^{(44-1)}| = 44$$
$$a_{44,44} = \max_i |a_{i,44}^{(45-1)}| = 45$$
$$a_{45,45} = \max_i |a_{i,45}^{(46-1)}| = 46$$
$$a_{46,46} = \max_i |a_{i,46}^{(47-1)}| = 47$$
$$a_{47,47} = \max_i |a_{i,47}^{(48-1)}| = 48$$
$$a_{48,48} = \max_i |a_{i,48}^{(49-1)}| = 49$$
$$a_{49,49} = \max_i |a_{i,49}^{(50-1)}| = 50$$
$$a_{50,50} = \max_i |a_{i,50}^{(51-1)}| = 51$$
$$a_{51,51} = \max_i |a_{i,51}^{(52-1)}| = 52$$
$$a_{52,52} = \max_i |a_{i,52}^{(53-1)}| = 53$$
$$a_{53,53} = \max_i |a_{i,53}^{(54-1)}| = 54$$
$$a_{54,54} = \max_i |a_{i,54}^{(55-1)}| = 55$$
$$a_{55,55} = \max_i |a_{i,55}^{(56-1)}| = 56$$
$$a_{56,56} = \max_i |a_{i,56}^{(57-1)}| = 57$$
$$a_{57,57} = \max_i |a_{i,57}^{(58-1)}| = 58$$
$$a_{58,58} = \max_i |a_{i,58}^{(59-1)}| = 59$$
$$a_{59,59} = \max_i |a_{i,59}^{(60-1)}| = 60$$
$$a_{60,60} = \max_i |a_{i,60}^{(61-1)}| = 61$$
$$a_{61,61} = \max_i |a_{i,61}^{(62-1)}| = 62$$

$$a_{62,62} = \max_i |a_{i,62}^{(63-1)}| = 63$$
$$a_{63,63} = \max_i |a_{i,63}^{(64-1)}| = 64$$
$$a_{64,64} = \max_i |a_{i,64}^{(65-1)}| = 65$$
$$a_{65,65} = \max_i |a_{i,65}^{(66-1)}| = 66$$
$$a_{66,66} = \max_i |a_{i,66}^{(67-1)}| = 67$$
$$a_{67,67} = \max_i |a_{i,67}^{(68-1)}| = 68$$
$$a_{68,68} = \max_i |a_{i,68}^{(69-1)}| = 69$$
$$a_{69,69} = \max_i |a_{i,69}^{(70-1)}| = 70$$
$$a_{70,70} = \max_i |a_{i,70}^{(71-1)}| = 71$$
$$a_{71,71} = \max_i |a_{i,71}^{(72-1)}| = 72$$
$$a_{72,72} = \max_i |a_{i,72}^{(73-1)}| = 73$$
$$a_{73,73} = \max_i |a_{i,73}^{(74-1)}| = 74$$
$$a_{74,74} = \max_i |a_{i,74}^{(75-1)}| = 75$$
$$a_{75,75} = \max_i |a_{i,75}^{(76-1)}| = 76$$
$$a_{76,76} = \max_i |a_{i,76}^{(77-1)}| = 77$$
$$a_{77,77} = \max_i |a_{i,77}^{(78-1)}| = 78$$
$$a_{78,78} = \max_i |a_{i,78}^{(79-1)}| = 79$$
$$a_{79,79} = \max_i |a_{i,79}^{(80-1)}| = 80$$
$$a_{80,80} = \max_i |a_{i,80}^{(81-1)}| = 81$$
$$a_{81,81} = \max_i |a_{i,81}^{(82-1)}| = 82$$
$$a_{82,82} = \max_i |a_{i,82}^{(83-1)}| = 83$$
$$a_{83,83} = \max_i |a_{i,83}^{(84-1)}| = 84$$
$$a_{84,84} = \max_i |a_{i,84}^{(85-1)}| = 85$$
$$a_{85,85} = \max_i |a_{i,85}^{(86-1)}| = 86$$
$$a_{86,86} = \max_i |a_{i,86}^{(87-1)}| = 87$$
$$a_{87,87} = \max_i |a_{i,87}^{(88-1)}| = 88$$
$$a_{88,88} = \max_i |a_{i,88}^{(89-1)}| = 89$$
$$a_{89,89} = \max_i |a_{i,89}^{(90-1)}| = 90$$
$$a_{90,90} = \max_i |a_{i,90}^{(91-1)}| = 91$$
$$a_{91,91} = \max_i |a_{i,91}^{(92-1)}| = 92$$
$$a_{92,92} = \max_i |a_{i,92}^{(93-1)}| = 93$$

$$\bar{x} = \begin{pmatrix} -4369.00 \\ -4366.50 \\ -2908.67 \\ -2179.25 \\ -1741.20 \\ -1448.83 \\ -1239.71 \\ -1082.62 \\ -960.22 \\ -862.10 \\ -781.64 \\ -714.42 \\ -657.38 \\ -608.36 \\ -565.73 \\ -528.31 \\ -495.18 \\ -465.61 \\ -439.05 \\ -415.05 \\ -393.24 \\ -373.32 \\ -355.04 \\ -338.21 \\ -322.64 \\ -308.19 \\ -294.74 \\ -282.18 \\ -270.41 \\ -259.37 \\ -248.97 \\ -239.16 \\ -229.88 \\ -221.09 \\ -212.74 \\ -204.81 \\ -197.24 \\ -190.03 \\ -183.13 \\ -176.53 \\ -170.20 \\ -164.12 \\ -158.28 \\ -152.66 \\ -147.24 \\ -142.02 \\ -136.98 \\ -132.10 \\ -127.39 \\ -122.82 \end{pmatrix}$$

$$\Delta A = 1.1567725070816409e144$$

85 $N = 94$

$A = \{a_{i,j} | i = 0..\overline{94}, j = 0..\overline{95}\}$

$a_{0,0} = \max_i |a_{i,0}^{(1-1)}| = 1$

$a_{1,1} = \max_i |a_{i,1}^{(2-1)}| = 2$

$a_{2,2} = \max_i |a_{i,2}^{(3-1)}| = 3$

$a_{3,3} = \max_i |a_{i,3}^{(4-1)}| = 4$

$a_{4,4} = \max_i |a_{i,4}^{(5-1)}| = 5$

$a_{5,5} = \max_i |a_{i,5}^{(6-1)}| = 6$

$a_{6,6} = \max_i |a_{i,6}^{(7-1)}| = 7$

$a_{7,7} = \max_i |a_{i,7}^{(8-1)}| = 8$

$a_{8,8} = \max_i |a_{i,8}^{(9-1)}| = 9$

$a_{9,9} = \max_i |a_{i,9}^{(10-1)}| = 10$

$a_{10,10} = \max_i |a_{i,10}^{(11-1)}| = 11$

$a_{11,11} = \max_i |a_{i,11}^{(12-1)}| = 12$

$a_{12,12} = \max_i |a_{i,12}^{(13-1)}| = 13$

$a_{13,13} = \max_i |a_{i,13}^{(14-1)}| = 14$

$a_{14,14} = \max_i |a_{i,14}^{(15-1)}| = 15$

$a_{15,15} = \max_i |a_{i,15}^{(16-1)}| = 16$

$a_{16,16} = \max_i |a_{i,16}^{(17-1)}| = 17$

$a_{17,17} = \max_i |a_{i,17}^{(18-1)}| = 18$

$a_{18,18} = \max_i |a_{i,18}^{(19-1)}| = 19$

$a_{19,19} = \max_i |a_{i,19}^{(20-1)}| = 20$

$a_{20,20} = \max_i |a_{i,20}^{(21-1)}| = 21$

$a_{21,21} = \max_i |a_{i,21}^{(22-1)}| = 22$

$a_{22,22} = \max_i |a_{i,22}^{(23-1)}| = 23$

$a_{23,23} = \max_i |a_{i,23}^{(24-1)}| = 24$

$a_{24,24} = \max_i |a_{i,24}^{(25-1)}| = 25$

$a_{25,25} = \max_i |a_{i,25}^{(26-1)}| = 26$

$a_{26,26} = \max_i |a_{i,26}^{(27-1)}| = 27$

$a_{27,27} = \max_i |a_{i,27}^{(28-1)}| = 28$

$a_{28,28} = \max_i |a_{i,28}^{(29-1)}| = 29$

$$a_{29,29} = \max_i |a_{i,29}^{(30-1)}| = 30$$
$$a_{30,30} = \max_i |a_{i,30}^{(31-1)}| = 31$$
$$a_{31,31} = \max_i |a_{i,31}^{(32-1)}| = 32$$
$$a_{32,32} = \max_i |a_{i,32}^{(33-1)}| = 33$$
$$a_{33,33} = \max_i |a_{i,33}^{(34-1)}| = 34$$
$$a_{34,34} = \max_i |a_{i,34}^{(35-1)}| = 35$$
$$a_{35,35} = \max_i |a_{i,35}^{(36-1)}| = 36$$
$$a_{36,36} = \max_i |a_{i,36}^{(37-1)}| = 37$$
$$a_{37,37} = \max_i |a_{i,37}^{(38-1)}| = 38$$
$$a_{38,38} = \max_i |a_{i,38}^{(39-1)}| = 39$$
$$a_{39,39} = \max_i |a_{i,39}^{(40-1)}| = 40$$
$$a_{40,40} = \max_i |a_{i,40}^{(41-1)}| = 41$$
$$a_{41,41} = \max_i |a_{i,41}^{(42-1)}| = 42$$
$$a_{42,42} = \max_i |a_{i,42}^{(43-1)}| = 43$$
$$a_{43,43} = \max_i |a_{i,43}^{(44-1)}| = 44$$
$$a_{44,44} = \max_i |a_{i,44}^{(45-1)}| = 45$$
$$a_{45,45} = \max_i |a_{i,45}^{(46-1)}| = 46$$
$$a_{46,46} = \max_i |a_{i,46}^{(47-1)}| = 47$$
$$a_{47,47} = \max_i |a_{i,47}^{(48-1)}| = 48$$
$$a_{48,48} = \max_i |a_{i,48}^{(49-1)}| = 49$$
$$a_{49,49} = \max_i |a_{i,49}^{(50-1)}| = 50$$
$$a_{50,50} = \max_i |a_{i,50}^{(51-1)}| = 51$$
$$a_{51,51} = \max_i |a_{i,51}^{(52-1)}| = 52$$
$$a_{52,52} = \max_i |a_{i,52}^{(53-1)}| = 53$$
$$a_{53,53} = \max_i |a_{i,53}^{(54-1)}| = 54$$
$$a_{54,54} = \max_i |a_{i,54}^{(55-1)}| = 55$$
$$a_{55,55} = \max_i |a_{i,55}^{(56-1)}| = 56$$
$$a_{56,56} = \max_i |a_{i,56}^{(57-1)}| = 57$$
$$a_{57,57} = \max_i |a_{i,57}^{(58-1)}| = 58$$
$$a_{58,58} = \max_i |a_{i,58}^{(59-1)}| = 59$$
$$a_{59,59} = \max_i |a_{i,59}^{(60-1)}| = 60$$
$$a_{60,60} = \max_i |a_{i,60}^{(61-1)}| = 61$$
$$a_{61,61} = \max_i |a_{i,61}^{(62-1)}| = 62$$

$$a_{62,62} = \max_i |a_{i,62}^{(63-1)}| = 63$$
$$a_{63,63} = \max_i |a_{i,63}^{(64-1)}| = 64$$
$$a_{64,64} = \max_i |a_{i,64}^{(65-1)}| = 65$$
$$a_{65,65} = \max_i |a_{i,65}^{(66-1)}| = 66$$
$$a_{66,66} = \max_i |a_{i,66}^{(67-1)}| = 67$$
$$a_{67,67} = \max_i |a_{i,67}^{(68-1)}| = 68$$
$$a_{68,68} = \max_i |a_{i,68}^{(69-1)}| = 69$$
$$a_{69,69} = \max_i |a_{i,69}^{(70-1)}| = 70$$
$$a_{70,70} = \max_i |a_{i,70}^{(71-1)}| = 71$$
$$a_{71,71} = \max_i |a_{i,71}^{(72-1)}| = 72$$
$$a_{72,72} = \max_i |a_{i,72}^{(73-1)}| = 73$$
$$a_{73,73} = \max_i |a_{i,73}^{(74-1)}| = 74$$
$$a_{74,74} = \max_i |a_{i,74}^{(75-1)}| = 75$$
$$a_{75,75} = \max_i |a_{i,75}^{(76-1)}| = 76$$
$$a_{76,76} = \max_i |a_{i,76}^{(77-1)}| = 77$$
$$a_{77,77} = \max_i |a_{i,77}^{(78-1)}| = 78$$
$$a_{78,78} = \max_i |a_{i,78}^{(79-1)}| = 79$$
$$a_{79,79} = \max_i |a_{i,79}^{(80-1)}| = 80$$
$$a_{80,80} = \max_i |a_{i,80}^{(81-1)}| = 81$$
$$a_{81,81} = \max_i |a_{i,81}^{(82-1)}| = 82$$
$$a_{82,82} = \max_i |a_{i,82}^{(83-1)}| = 83$$
$$a_{83,83} = \max_i |a_{i,83}^{(84-1)}| = 84$$
$$a_{84,84} = \max_i |a_{i,84}^{(85-1)}| = 85$$
$$a_{85,85} = \max_i |a_{i,85}^{(86-1)}| = 86$$
$$a_{86,86} = \max_i |a_{i,86}^{(87-1)}| = 87$$
$$a_{87,87} = \max_i |a_{i,87}^{(88-1)}| = 88$$
$$a_{88,88} = \max_i |a_{i,88}^{(89-1)}| = 89$$
$$a_{89,89} = \max_i |a_{i,89}^{(90-1)}| = 90$$
$$a_{90,90} = \max_i |a_{i,90}^{(91-1)}| = 91$$
$$a_{91,91} = \max_i |a_{i,91}^{(92-1)}| = 92$$
$$a_{92,92} = \max_i |a_{i,92}^{(93-1)}| = 93$$
$$a_{93,93} = \max_i |a_{i,93}^{(94-1)}| = 94$$

$$\bar{x} = \begin{pmatrix}
-4463.00 \\
-4460.50 \\
-2971.33 \\
-2226.25 \\
-1778.80 \\
-1480.17 \\
-1266.57 \\
-1106.12 \\
-981.11 \\
-880.90 \\
-798.73 \\
-730.08 \\
-671.85 \\
-621.79 \\
-578.27 \\
-540.06 \\
-506.24 \\
-476.06 \\
-448.95 \\
-424.45 \\
-402.19 \\
-381.86 \\
-363.22 \\
-346.04 \\
-330.16 \\
-315.42 \\
-301.70 \\
-288.89 \\
-276.90 \\
-265.63 \\
-255.03 \\
-245.03 \\
-235.58 \\
-226.62 \\
-218.11 \\
-210.03 \\
-202.32 \\
-194.97 \\
-187.95 \\
-181.22 \\
-174.78 \\
-168.60 \\
-162.65 \\
-156.93 \\
-151.42 \\
-146.11 \\
-140.98 \\
-136.02 \\
-131.22 \\
-126.58
\end{pmatrix}$$

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$$\Delta A = 1.0873661566567424e146$$

86 $N = 95$

$A = \{a_{i,j} | i = 0..\bar{9}5, j = 0..\bar{9}6\}$

$a_{0,0} = \max_i |a_{i,0}^{(1-1)}| = 1$

$a_{1,1} = \max_i |a_{i,1}^{(2-1)}| = 2$

$a_{2,2} = \max_i |a_{i,2}^{(3-1)}| = 3$

$a_{3,3} = \max_i |a_{i,3}^{(4-1)}| = 4$

$a_{4,4} = \max_i |a_{i,4}^{(5-1)}| = 5$

$a_{5,5} = \max_i |a_{i,5}^{(6-1)}| = 6$

$a_{6,6} = \max_i |a_{i,6}^{(7-1)}| = 7$

$a_{7,7} = \max_i |a_{i,7}^{(8-1)}| = 8$

$a_{8,8} = \max_i |a_{i,8}^{(9-1)}| = 9$

$a_{9,9} = \max_i |a_{i,9}^{(10-1)}| = 10$

$a_{10,10} = \max_i |a_{i,10}^{(11-1)}| = 11$

$a_{11,11} = \max_i |a_{i,11}^{(12-1)}| = 12$

$a_{12,12} = \max_i |a_{i,12}^{(13-1)}| = 13$

$a_{13,13} = \max_i |a_{i,13}^{(14-1)}| = 14$

$a_{14,14} = \max_i |a_{i,14}^{(15-1)}| = 15$

$a_{15,15} = \max_i |a_{i,15}^{(16-1)}| = 16$

$a_{16,16} = \max_i |a_{i,16}^{(17-1)}| = 17$

$a_{17,17} = \max_i |a_{i,17}^{(18-1)}| = 18$

$a_{18,18} = \max_i |a_{i,18}^{(19-1)}| = 19$

$a_{19,19} = \max_i |a_{i,19}^{(20-1)}| = 20$

$a_{20,20} = \max_i |a_{i,20}^{(21-1)}| = 21$

$a_{21,21} = \max_i |a_{i,21}^{(22-1)}| = 22$

$a_{22,22} = \max_i |a_{i,22}^{(23-1)}| = 23$

$a_{23,23} = \max_i |a_{i,23}^{(24-1)}| = 24$

$a_{24,24} = \max_i |a_{i,24}^{(25-1)}| = 25$

$a_{25,25} = \max_i |a_{i,25}^{(26-1)}| = 26$

$a_{26,26} = \max_i |a_{i,26}^{(27-1)}| = 27$

$a_{27,27} = \max_i |a_{i,27}^{(28-1)}| = 28$

$a_{28,28} = \max_i |a_{i,28}^{(29-1)}| = 29$

$$a_{29,29} = \max_i |a_{i,29}^{(30-1)}| = 30$$
$$a_{30,30} = \max_i |a_{i,30}^{(31-1)}| = 31$$
$$a_{31,31} = \max_i |a_{i,31}^{(32-1)}| = 32$$
$$a_{32,32} = \max_i |a_{i,32}^{(33-1)}| = 33$$
$$a_{33,33} = \max_i |a_{i,33}^{(34-1)}| = 34$$
$$a_{34,34} = \max_i |a_{i,34}^{(35-1)}| = 35$$
$$a_{35,35} = \max_i |a_{i,35}^{(36-1)}| = 36$$
$$a_{36,36} = \max_i |a_{i,36}^{(37-1)}| = 37$$
$$a_{37,37} = \max_i |a_{i,37}^{(38-1)}| = 38$$
$$a_{38,38} = \max_i |a_{i,38}^{(39-1)}| = 39$$
$$a_{39,39} = \max_i |a_{i,39}^{(40-1)}| = 40$$
$$a_{40,40} = \max_i |a_{i,40}^{(41-1)}| = 41$$
$$a_{41,41} = \max_i |a_{i,41}^{(42-1)}| = 42$$
$$a_{42,42} = \max_i |a_{i,42}^{(43-1)}| = 43$$
$$a_{43,43} = \max_i |a_{i,43}^{(44-1)}| = 44$$
$$a_{44,44} = \max_i |a_{i,44}^{(45-1)}| = 45$$
$$a_{45,45} = \max_i |a_{i,45}^{(46-1)}| = 46$$
$$a_{46,46} = \max_i |a_{i,46}^{(47-1)}| = 47$$
$$a_{47,47} = \max_i |a_{i,47}^{(48-1)}| = 48$$
$$a_{48,48} = \max_i |a_{i,48}^{(49-1)}| = 49$$
$$a_{49,49} = \max_i |a_{i,49}^{(50-1)}| = 50$$
$$a_{50,50} = \max_i |a_{i,50}^{(51-1)}| = 51$$
$$a_{51,51} = \max_i |a_{i,51}^{(52-1)}| = 52$$
$$a_{52,52} = \max_i |a_{i,52}^{(53-1)}| = 53$$
$$a_{53,53} = \max_i |a_{i,53}^{(54-1)}| = 54$$
$$a_{54,54} = \max_i |a_{i,54}^{(55-1)}| = 55$$
$$a_{55,55} = \max_i |a_{i,55}^{(56-1)}| = 56$$
$$a_{56,56} = \max_i |a_{i,56}^{(57-1)}| = 57$$
$$a_{57,57} = \max_i |a_{i,57}^{(58-1)}| = 58$$
$$a_{58,58} = \max_i |a_{i,58}^{(59-1)}| = 59$$
$$a_{59,59} = \max_i |a_{i,59}^{(60-1)}| = 60$$
$$a_{60,60} = \max_i |a_{i,60}^{(61-1)}| = 61$$
$$a_{61,61} = \max_i |a_{i,61}^{(62-1)}| = 62$$

$$a_{62,62} = \max_i |a_{i,62}^{(63-1)}| = 63$$
$$a_{63,63} = \max_i |a_{i,63}^{(64-1)}| = 64$$
$$a_{64,64} = \max_i |a_{i,64}^{(65-1)}| = 65$$
$$a_{65,65} = \max_i |a_{i,65}^{(66-1)}| = 66$$
$$a_{66,66} = \max_i |a_{i,66}^{(67-1)}| = 67$$
$$a_{67,67} = \max_i |a_{i,67}^{(68-1)}| = 68$$
$$a_{68,68} = \max_i |a_{i,68}^{(69-1)}| = 69$$
$$a_{69,69} = \max_i |a_{i,69}^{(70-1)}| = 70$$
$$a_{70,70} = \max_i |a_{i,70}^{(71-1)}| = 71$$
$$a_{71,71} = \max_i |a_{i,71}^{(72-1)}| = 72$$
$$a_{72,72} = \max_i |a_{i,72}^{(73-1)}| = 73$$
$$a_{73,73} = \max_i |a_{i,73}^{(74-1)}| = 74$$
$$a_{74,74} = \max_i |a_{i,74}^{(75-1)}| = 75$$
$$a_{75,75} = \max_i |a_{i,75}^{(76-1)}| = 76$$
$$a_{76,76} = \max_i |a_{i,76}^{(77-1)}| = 77$$
$$a_{77,77} = \max_i |a_{i,77}^{(78-1)}| = 78$$
$$a_{78,78} = \max_i |a_{i,78}^{(79-1)}| = 79$$
$$a_{79,79} = \max_i |a_{i,79}^{(80-1)}| = 80$$
$$a_{80,80} = \max_i |a_{i,80}^{(81-1)}| = 81$$
$$a_{81,81} = \max_i |a_{i,81}^{(82-1)}| = 82$$
$$a_{82,82} = \max_i |a_{i,82}^{(83-1)}| = 83$$
$$a_{83,83} = \max_i |a_{i,83}^{(84-1)}| = 84$$
$$a_{84,84} = \max_i |a_{i,84}^{(85-1)}| = 85$$
$$a_{85,85} = \max_i |a_{i,85}^{(86-1)}| = 86$$
$$a_{86,86} = \max_i |a_{i,86}^{(87-1)}| = 87$$
$$a_{87,87} = \max_i |a_{i,87}^{(88-1)}| = 88$$
$$a_{88,88} = \max_i |a_{i,88}^{(89-1)}| = 89$$
$$a_{89,89} = \max_i |a_{i,89}^{(90-1)}| = 90$$
$$a_{90,90} = \max_i |a_{i,90}^{(91-1)}| = 91$$
$$a_{91,91} = \max_i |a_{i,91}^{(92-1)}| = 92$$
$$a_{92,92} = \max_i |a_{i,92}^{(93-1)}| = 93$$
$$a_{93,93} = \max_i |a_{i,93}^{(94-1)}| = 94$$
$$a_{94,94} = \max_i |a_{i,94}^{(95-1)}| = 95$$

$$
\bar{x} = \begin{pmatrix}
-4558.00 \\
-4555.50 \\
-3034.67 \\
-2273.75 \\
-1816.80 \\
-1511.83 \\
-1293.71 \\
-1129.88 \\
-1002.22 \\
-899.90 \\
-816.00 \\
-745.92 \\
-686.46 \\
-635.36 \\
-590.93 \\
-551.94 \\
-517.41 \\
-486.61 \\
-458.95 \\
-433.95 \\
-411.24 \\
-390.50 \\
-371.48 \\
-353.96 \\
-337.76 \\
-322.73 \\
-308.74 \\
-295.68 \\
-283.45 \\
-271.97 \\
-261.16 \\
-250.97 \\
-241.33 \\
-232.21 \\
-223.54 \\
-215.31 \\
-207.46 \\
-199.97 \\
-192.82 \\
-185.97 \\
-179.41 \\
-173.12 \\
-167.07 \\
-161.25 \\
-155.64 \\
-150.24 \\
-145.02 \\
-139.98 \\
-135.10 \\
\end{pmatrix}
$$

252

$$\Delta A = 1.0329978488239052e148$$

87 $N = 96$

$A = \{a_{i,j} | i = 0..\bar{96}, j = 0..\bar{97}\}$

$a_{0,0} = \max_i |a_{i,0}^{(1-1)}| = 1$

$a_{1,1} = \max_i |a_{i,1}^{(2-1)}| = 2$

$a_{2,2} = \max_i |a_{i,2}^{(3-1)}| = 3$

$a_{3,3} = \max_i |a_{i,3}^{(4-1)}| = 4$

$a_{4,4} = \max_i |a_{i,4}^{(5-1)}| = 5$

$a_{5,5} = \max_i |a_{i,5}^{(6-1)}| = 6$

$a_{6,6} = \max_i |a_{i,6}^{(7-1)}| = 7$

$a_{7,7} = \max_i |a_{i,7}^{(8-1)}| = 8$

$a_{8,8} = \max_i |a_{i,8}^{(9-1)}| = 9$

$a_{9,9} = \max_i |a_{i,9}^{(10-1)}| = 10$

$a_{10,10} = \max_i |a_{i,10}^{(11-1)}| = 11$

$a_{11,11} = \max_i |a_{i,11}^{(12-1)}| = 12$

$a_{12,12} = \max_i |a_{i,12}^{(13-1)}| = 13$

$a_{13,13} = \max_i |a_{i,13}^{(14-1)}| = 14$

$a_{14,14} = \max_i |a_{i,14}^{(15-1)}| = 15$

$a_{15,15} = \max_i |a_{i,15}^{(16-1)}| = 16$

$a_{16,16} = \max_i |a_{i,16}^{(17-1)}| = 17$

$a_{17,17} = \max_i |a_{i,17}^{(18-1)}| = 18$

$a_{18,18} = \max_i |a_{i,18}^{(19-1)}| = 19$

$a_{19,19} = \max_i |a_{i,19}^{(20-1)}| = 20$

$a_{20,20} = \max_i |a_{i,20}^{(21-1)}| = 21$

$a_{21,21} = \max_i |a_{i,21}^{(22-1)}| = 22$

$a_{22,22} = \max_i |a_{i,22}^{(23-1)}| = 23$

$a_{23,23} = \max_i |a_{i,23}^{(24-1)}| = 24$

$a_{24,24} = \max_i |a_{i,24}^{(25-1)}| = 25$

$a_{25,25} = \max_i |a_{i,25}^{(26-1)}| = 26$

$a_{26,26} = \max_i |a_{i,26}^{(27-1)}| = 27$

$a_{27,27} = \max_i |a_{i,27}^{(28-1)}| = 28$

$a_{28,28} = \max_i |a_{i,28}^{(29-1)}| = 29$

$$a_{29,29} = \max_i |a_{i,29}^{(30-1)}| = 30$$
$$a_{30,30} = \max_i |a_{i,30}^{(31-1)}| = 31$$
$$a_{31,31} = \max_i |a_{i,31}^{(32-1)}| = 32$$
$$a_{32,32} = \max_i |a_{i,32}^{(33-1)}| = 33$$
$$a_{33,33} = \max_i |a_{i,33}^{(34-1)}| = 34$$
$$a_{34,34} = \max_i |a_{i,34}^{(35-1)}| = 35$$
$$a_{35,35} = \max_i |a_{i,35}^{(36-1)}| = 36$$
$$a_{36,36} = \max_i |a_{i,36}^{(37-1)}| = 37$$
$$a_{37,37} = \max_i |a_{i,37}^{(38-1)}| = 38$$
$$a_{38,38} = \max_i |a_{i,38}^{(39-1)}| = 39$$
$$a_{39,39} = \max_i |a_{i,39}^{(40-1)}| = 40$$
$$a_{40,40} = \max_i |a_{i,40}^{(41-1)}| = 41$$
$$a_{41,41} = \max_i |a_{i,41}^{(42-1)}| = 42$$
$$a_{42,42} = \max_i |a_{i,42}^{(43-1)}| = 43$$
$$a_{43,43} = \max_i |a_{i,43}^{(44-1)}| = 44$$
$$a_{44,44} = \max_i |a_{i,44}^{(45-1)}| = 45$$
$$a_{45,45} = \max_i |a_{i,45}^{(46-1)}| = 46$$
$$a_{46,46} = \max_i |a_{i,46}^{(47-1)}| = 47$$
$$a_{47,47} = \max_i |a_{i,47}^{(48-1)}| = 48$$
$$a_{48,48} = \max_i |a_{i,48}^{(49-1)}| = 49$$
$$a_{49,49} = \max_i |a_{i,49}^{(50-1)}| = 50$$
$$a_{50,50} = \max_i |a_{i,50}^{(51-1)}| = 51$$
$$a_{51,51} = \max_i |a_{i,51}^{(52-1)}| = 52$$
$$a_{52,52} = \max_i |a_{i,52}^{(53-1)}| = 53$$
$$a_{53,53} = \max_i |a_{i,53}^{(54-1)}| = 54$$
$$a_{54,54} = \max_i |a_{i,54}^{(55-1)}| = 55$$
$$a_{55,55} = \max_i |a_{i,55}^{(56-1)}| = 56$$
$$a_{56,56} = \max_i |a_{i,56}^{(57-1)}| = 57$$
$$a_{57,57} = \max_i |a_{i,57}^{(58-1)}| = 58$$
$$a_{58,58} = \max_i |a_{i,58}^{(59-1)}| = 59$$
$$a_{59,59} = \max_i |a_{i,59}^{(60-1)}| = 60$$
$$a_{60,60} = \max_i |a_{i,60}^{(61-1)}| = 61$$
$$a_{61,61} = \max_i |a_{i,61}^{(62-1)}| = 62$$

$$a_{62,62} = \max_i |a_{i,62}^{(63-1)}| = 63$$
$$a_{63,63} = \max_i |a_{i,63}^{(64-1)}| = 64$$
$$a_{64,64} = \max_i |a_{i,64}^{(65-1)}| = 65$$
$$a_{65,65} = \max_i |a_{i,65}^{(66-1)}| = 66$$
$$a_{66,66} = \max_i |a_{i,66}^{(67-1)}| = 67$$
$$a_{67,67} = \max_i |a_{i,67}^{(68-1)}| = 68$$
$$a_{68,68} = \max_i |a_{i,68}^{(69-1)}| = 69$$
$$a_{69,69} = \max_i |a_{i,69}^{(70-1)}| = 70$$
$$a_{70,70} = \max_i |a_{i,70}^{(71-1)}| = 71$$
$$a_{71,71} = \max_i |a_{i,71}^{(72-1)}| = 72$$
$$a_{72,72} = \max_i |a_{i,72}^{(73-1)}| = 73$$
$$a_{73,73} = \max_i |a_{i,73}^{(74-1)}| = 74$$
$$a_{74,74} = \max_i |a_{i,74}^{(75-1)}| = 75$$
$$a_{75,75} = \max_i |a_{i,75}^{(76-1)}| = 76$$
$$a_{76,76} = \max_i |a_{i,76}^{(77-1)}| = 77$$
$$a_{77,77} = \max_i |a_{i,77}^{(78-1)}| = 78$$
$$a_{78,78} = \max_i |a_{i,78}^{(79-1)}| = 79$$
$$a_{79,79} = \max_i |a_{i,79}^{(80-1)}| = 80$$
$$a_{80,80} = \max_i |a_{i,80}^{(81-1)}| = 81$$
$$a_{81,81} = \max_i |a_{i,81}^{(82-1)}| = 82$$
$$a_{82,82} = \max_i |a_{i,82}^{(83-1)}| = 83$$
$$a_{83,83} = \max_i |a_{i,83}^{(84-1)}| = 84$$
$$a_{84,84} = \max_i |a_{i,84}^{(85-1)}| = 85$$
$$a_{85,85} = \max_i |a_{i,85}^{(86-1)}| = 86$$
$$a_{86,86} = \max_i |a_{i,86}^{(87-1)}| = 87$$
$$a_{87,87} = \max_i |a_{i,87}^{(88-1)}| = 88$$
$$a_{88,88} = \max_i |a_{i,88}^{(89-1)}| = 89$$
$$a_{89,89} = \max_i |a_{i,89}^{(90-1)}| = 90$$
$$a_{90,90} = \max_i |a_{i,90}^{(91-1)}| = 91$$
$$a_{91,91} = \max_i |a_{i,91}^{(92-1)}| = 92$$
$$a_{92,92} = \max_i |a_{i,92}^{(93-1)}| = 93$$
$$a_{93,93} = \max_i |a_{i,93}^{(94-1)}| = 94$$
$$a_{94,94} = \max_i |a_{i,94}^{(95-1)}| = 95$$

$$a_{95,95} = \max_i |a_{i,95}^{(96-1)}| = 96$$

$$\bar{x} = \begin{pmatrix} -4654.00 \\ -4651.50 \\ -3098.67 \\ -2321.75 \\ -1855.20 \\ -1543.83 \\ -1321.14 \\ -1153.88 \\ -1023.56 \\ -919.10 \\ -833.45 \\ -761.92 \\ -701.23 \\ -649.07 \\ -603.73 \\ -563.94 \\ -528.71 \\ -497.28 \\ -469.05 \\ -443.55 \\ -420.38 \\ -399.23 \\ -379.83 \\ -361.96 \\ -345.44 \\ -330.12 \\ -315.85 \\ -302.54 \\ -290.07 \\ -278.37 \\ -267.35 \\ -256.97 \\ -247.15 \\ -237.85 \\ -229.03 \\ -220.64 \\ -212.65 \\ -205.03 \\ -197.74 \\ -190.78 \\ -184.10 \\ -177.69 \\ -171.53 \\ -165.61 \\ -159.91 \\ -154.41 \\ -149.11 \\ -143.98 \\ -139.02 \\ -134.22 \end{pmatrix}$$

$$\Delta A = 9.916779348709491e149$$

88 $N = 97$

$A = \{a_{i,j} | i = 0..\overline{97}, j = 0..\overline{98}\}$

$a_{0,0} = \max_i |a_{i,0}^{(1-1)}| = 1$

$a_{1,1} = \max_i |a_{i,1}^{(2-1)}| = 2$

$a_{2,2} = \max_i |a_{i,2}^{(3-1)}| = 3$

$a_{3,3} = \max_i |a_{i,3}^{(4-1)}| = 4$

$a_{4,4} = \max_i |a_{i,4}^{(5-1)}| = 5$

$a_{5,5} = \max_i |a_{i,5}^{(6-1)}| = 6$

$a_{6,6} = \max_i |a_{i,6}^{(7-1)}| = 7$

$a_{7,7} = \max_i |a_{i,7}^{(8-1)}| = 8$

$a_{8,8} = \max_i |a_{i,8}^{(9-1)}| = 9$

$a_{9,9} = \max_i |a_{i,9}^{(10-1)}| = 10$

$a_{10,10} = \max_i |a_{i,10}^{(11-1)}| = 11$

$a_{11,11} = \max_i |a_{i,11}^{(12-1)}| = 12$

$a_{12,12} = \max_i |a_{i,12}^{(13-1)}| = 13$

$a_{13,13} = \max_i |a_{i,13}^{(14-1)}| = 14$

$a_{14,14} = \max_i |a_{i,14}^{(15-1)}| = 15$

$a_{15,15} = \max_i |a_{i,15}^{(16-1)}| = 16$

$a_{16,16} = \max_i |a_{i,16}^{(17-1)}| = 17$

$a_{17,17} = \max_i |a_{i,17}^{(18-1)}| = 18$

$a_{18,18} = \max_i |a_{i,18}^{(19-1)}| = 19$

$a_{19,19} = \max_i |a_{i,19}^{(20-1)}| = 20$

$a_{20,20} = \max_i |a_{i,20}^{(21-1)}| = 21$

$a_{21,21} = \max_i |a_{i,21}^{(22-1)}| = 22$

$a_{22,22} = \max_i |a_{i,22}^{(23-1)}| = 23$

$a_{23,23} = \max_i |a_{i,23}^{(24-1)}| = 24$

$a_{24,24} = \max_i |a_{i,24}^{(25-1)}| = 25$

$a_{25,25} = \max_i |a_{i,25}^{(26-1)}| = 26$

$a_{26,26} = \max_i |a_{i,26}^{(27-1)}| = 27$

$a_{27,27} = \max_i |a_{i,27}^{(28-1)}| = 28$

$a_{28,28} = \max_i |a_{i,28}^{(29-1)}| = 29$

$$a_{29,29} = \max_i |a_{i,29}^{(30-1)}| = 30$$
$$a_{30,30} = \max_i |a_{i,30}^{(31-1)}| = 31$$
$$a_{31,31} = \max_i |a_{i,31}^{(32-1)}| = 32$$
$$a_{32,32} = \max_i |a_{i,32}^{(33-1)}| = 33$$
$$a_{33,33} = \max_i |a_{i,33}^{(34-1)}| = 34$$
$$a_{34,34} = \max_i |a_{i,34}^{(35-1)}| = 35$$
$$a_{35,35} = \max_i |a_{i,35}^{(36-1)}| = 36$$
$$a_{36,36} = \max_i |a_{i,36}^{(37-1)}| = 37$$
$$a_{37,37} = \max_i |a_{i,37}^{(38-1)}| = 38$$
$$a_{38,38} = \max_i |a_{i,38}^{(39-1)}| = 39$$
$$a_{39,39} = \max_i |a_{i,39}^{(40-1)}| = 40$$
$$a_{40,40} = \max_i |a_{i,40}^{(41-1)}| = 41$$
$$a_{41,41} = \max_i |a_{i,41}^{(42-1)}| = 42$$
$$a_{42,42} = \max_i |a_{i,42}^{(43-1)}| = 43$$
$$a_{43,43} = \max_i |a_{i,43}^{(44-1)}| = 44$$
$$a_{44,44} = \max_i |a_{i,44}^{(45-1)}| = 45$$
$$a_{45,45} = \max_i |a_{i,45}^{(46-1)}| = 46$$
$$a_{46,46} = \max_i |a_{i,46}^{(47-1)}| = 47$$
$$a_{47,47} = \max_i |a_{i,47}^{(48-1)}| = 48$$
$$a_{48,48} = \max_i |a_{i,48}^{(49-1)}| = 49$$
$$a_{49,49} = \max_i |a_{i,49}^{(50-1)}| = 50$$
$$a_{50,50} = \max_i |a_{i,50}^{(51-1)}| = 51$$
$$a_{51,51} = \max_i |a_{i,51}^{(52-1)}| = 52$$
$$a_{52,52} = \max_i |a_{i,52}^{(53-1)}| = 53$$
$$a_{53,53} = \max_i |a_{i,53}^{(54-1)}| = 54$$
$$a_{54,54} = \max_i |a_{i,54}^{(55-1)}| = 55$$
$$a_{55,55} = \max_i |a_{i,55}^{(56-1)}| = 56$$
$$a_{56,56} = \max_i |a_{i,56}^{(57-1)}| = 57$$
$$a_{57,57} = \max_i |a_{i,57}^{(58-1)}| = 58$$
$$a_{58,58} = \max_i |a_{i,58}^{(59-1)}| = 59$$
$$a_{59,59} = \max_i |a_{i,59}^{(60-1)}| = 60$$
$$a_{60,60} = \max_i |a_{i,60}^{(61-1)}| = 61$$
$$a_{61,61} = \max_i |a_{i,61}^{(62-1)}| = 62$$

$$a_{62,62} = \max_i |a_{i,62}^{(63-1)}| = 63$$
$$a_{63,63} = \max_i |a_{i,63}^{(64-1)}| = 64$$
$$a_{64,64} = \max_i |a_{i,64}^{(65-1)}| = 65$$
$$a_{65,65} = \max_i |a_{i,65}^{(66-1)}| = 66$$
$$a_{66,66} = \max_i |a_{i,66}^{(67-1)}| = 67$$
$$a_{67,67} = \max_i |a_{i,67}^{(68-1)}| = 68$$
$$a_{68,68} = \max_i |a_{i,68}^{(69-1)}| = 69$$
$$a_{69,69} = \max_i |a_{i,69}^{(70-1)}| = 70$$
$$a_{70,70} = \max_i |a_{i,70}^{(71-1)}| = 71$$
$$a_{71,71} = \max_i |a_{i,71}^{(72-1)}| = 72$$
$$a_{72,72} = \max_i |a_{i,72}^{(73-1)}| = 73$$
$$a_{73,73} = \max_i |a_{i,73}^{(74-1)}| = 74$$
$$a_{74,74} = \max_i |a_{i,74}^{(75-1)}| = 75$$
$$a_{75,75} = \max_i |a_{i,75}^{(76-1)}| = 76$$
$$a_{76,76} = \max_i |a_{i,76}^{(77-1)}| = 77$$
$$a_{77,77} = \max_i |a_{i,77}^{(78-1)}| = 78$$
$$a_{78,78} = \max_i |a_{i,78}^{(79-1)}| = 79$$
$$a_{79,79} = \max_i |a_{i,79}^{(80-1)}| = 80$$
$$a_{80,80} = \max_i |a_{i,80}^{(81-1)}| = 81$$
$$a_{81,81} = \max_i |a_{i,81}^{(82-1)}| = 82$$
$$a_{82,82} = \max_i |a_{i,82}^{(83-1)}| = 83$$
$$a_{83,83} = \max_i |a_{i,83}^{(84-1)}| = 84$$
$$a_{84,84} = \max_i |a_{i,84}^{(85-1)}| = 85$$
$$a_{85,85} = \max_i |a_{i,85}^{(86-1)}| = 86$$
$$a_{86,86} = \max_i |a_{i,86}^{(87-1)}| = 87$$
$$a_{87,87} = \max_i |a_{i,87}^{(88-1)}| = 88$$
$$a_{88,88} = \max_i |a_{i,88}^{(89-1)}| = 89$$
$$a_{89,89} = \max_i |a_{i,89}^{(90-1)}| = 90$$
$$a_{90,90} = \max_i |a_{i,90}^{(91-1)}| = 91$$
$$a_{91,91} = \max_i |a_{i,91}^{(92-1)}| = 92$$
$$a_{92,92} = \max_i |a_{i,92}^{(93-1)}| = 93$$
$$a_{93,93} = \max_i |a_{i,93}^{(94-1)}| = 94$$
$$a_{94,94} = \max_i |a_{i,94}^{(95-1)}| = 95$$

$$a_{95,95} = \max_i |a_{i,95}^{(96-1)}| = 96$$
$$a_{96,96} = \max_i |a_{i,96}^{(97-1)}| = 97$$

$$\bar{x} = \begin{pmatrix} -4751.00 \\ -4748.50 \\ -3163.33 \\ -2370.25 \\ -1894.00 \\ -1576.17 \\ -1348.86 \\ -1178.12 \\ -1045.11 \\ -938.50 \\ -851.09 \\ -778.08 \\ -716.15 \\ -662.93 \\ -616.67 \\ -576.06 \\ -540.12 \\ -508.06 \\ -479.26 \\ -453.25 \\ -429.62 \\ -408.05 \\ -388.26 \\ -370.04 \\ -353.20 \\ -337.58 \\ -323.04 \\ -309.46 \\ -296.76 \\ -284.83 \\ -273.61 \\ -263.03 \\ -253.03 \\ -243.56 \\ -234.57 \\ -226.03 \\ -217.89 \\ -210.13 \\ -202.72 \\ -195.62 \\ -188.83 \\ -182.31 \\ -176.05 \\ -170.02 \\ -164.22 \\ -158.63 \\ -153.23 \\ -148.02 \\ -142.98 \\ -138.10 \end{pmatrix}$$

262

$$\Delta A = 9.619275968248206e151$$

89 $N = 98$

$A = \{a_{i,j} | i = 0..\overline{98}, j = 0..\overline{99}\}$

$a_{0,0} = \max_i |a_{i,0}^{(1-1)}| = 1$

$a_{1,1} = \max_i |a_{i,1}^{(2-1)}| = 2$

$a_{2,2} = \max_i |a_{i,2}^{(3-1)}| = 3$

$a_{3,3} = \max_i |a_{i,3}^{(4-1)}| = 4$

$a_{4,4} = \max_i |a_{i,4}^{(5-1)}| = 5$

$a_{5,5} = \max_i |a_{i,5}^{(6-1)}| = 6$

$a_{6,6} = \max_i |a_{i,6}^{(7-1)}| = 7$

$a_{7,7} = \max_i |a_{i,7}^{(8-1)}| = 8$

$a_{8,8} = \max_i |a_{i,8}^{(9-1)}| = 9$

$a_{9,9} = \max_i |a_{i,9}^{(10-1)}| = 10$

$a_{10,10} = \max_i |a_{i,10}^{(11-1)}| = 11$

$a_{11,11} = \max_i |a_{i,11}^{(12-1)}| = 12$

$a_{12,12} = \max_i |a_{i,12}^{(13-1)}| = 13$

$a_{13,13} = \max_i |a_{i,13}^{(14-1)}| = 14$

$a_{14,14} = \max_i |a_{i,14}^{(15-1)}| = 15$

$a_{15,15} = \max_i |a_{i,15}^{(16-1)}| = 16$

$a_{16,16} = \max_i |a_{i,16}^{(17-1)}| = 17$

$a_{17,17} = \max_i |a_{i,17}^{(18-1)}| = 18$

$a_{18,18} = \max_i |a_{i,18}^{(19-1)}| = 19$

$a_{19,19} = \max_i |a_{i,19}^{(20-1)}| = 20$

$a_{20,20} = \max_i |a_{i,20}^{(21-1)}| = 21$

$a_{21,21} = \max_i |a_{i,21}^{(22-1)}| = 22$

$a_{22,22} = \max_i |a_{i,22}^{(23-1)}| = 23$

$a_{23,23} = \max_i |a_{i,23}^{(24-1)}| = 24$

$a_{24,24} = \max_i |a_{i,24}^{(25-1)}| = 25$

$a_{25,25} = \max_i |a_{i,25}^{(26-1)}| = 26$

$a_{26,26} = \max_i |a_{i,26}^{(27-1)}| = 27$

$a_{27,27} = \max_i |a_{i,27}^{(28-1)}| = 28$

$a_{28,28} = \max_i |a_{i,28}^{(29-1)}| = 29$

$$a_{29,29} = \max_i |a_{i,29}^{(30-1)}| = 30$$
$$a_{30,30} = \max_i |a_{i,30}^{(31-1)}| = 31$$
$$a_{31,31} = \max_i |a_{i,31}^{(32-1)}| = 32$$
$$a_{32,32} = \max_i |a_{i,32}^{(33-1)}| = 33$$
$$a_{33,33} = \max_i |a_{i,33}^{(34-1)}| = 34$$
$$a_{34,34} = \max_i |a_{i,34}^{(35-1)}| = 35$$
$$a_{35,35} = \max_i |a_{i,35}^{(36-1)}| = 36$$
$$a_{36,36} = \max_i |a_{i,36}^{(37-1)}| = 37$$
$$a_{37,37} = \max_i |a_{i,37}^{(38-1)}| = 38$$
$$a_{38,38} = \max_i |a_{i,38}^{(39-1)}| = 39$$
$$a_{39,39} = \max_i |a_{i,39}^{(40-1)}| = 40$$
$$a_{40,40} = \max_i |a_{i,40}^{(41-1)}| = 41$$
$$a_{41,41} = \max_i |a_{i,41}^{(42-1)}| = 42$$
$$a_{42,42} = \max_i |a_{i,42}^{(43-1)}| = 43$$
$$a_{43,43} = \max_i |a_{i,43}^{(44-1)}| = 44$$
$$a_{44,44} = \max_i |a_{i,44}^{(45-1)}| = 45$$
$$a_{45,45} = \max_i |a_{i,45}^{(46-1)}| = 46$$
$$a_{46,46} = \max_i |a_{i,46}^{(47-1)}| = 47$$
$$a_{47,47} = \max_i |a_{i,47}^{(48-1)}| = 48$$
$$a_{48,48} = \max_i |a_{i,48}^{(49-1)}| = 49$$
$$a_{49,49} = \max_i |a_{i,49}^{(50-1)}| = 50$$
$$a_{50,50} = \max_i |a_{i,50}^{(51-1)}| = 51$$
$$a_{51,51} = \max_i |a_{i,51}^{(52-1)}| = 52$$
$$a_{52,52} = \max_i |a_{i,52}^{(53-1)}| = 53$$
$$a_{53,53} = \max_i |a_{i,53}^{(54-1)}| = 54$$
$$a_{54,54} = \max_i |a_{i,54}^{(55-1)}| = 55$$
$$a_{55,55} = \max_i |a_{i,55}^{(56-1)}| = 56$$
$$a_{56,56} = \max_i |a_{i,56}^{(57-1)}| = 57$$
$$a_{57,57} = \max_i |a_{i,57}^{(58-1)}| = 58$$
$$a_{58,58} = \max_i |a_{i,58}^{(59-1)}| = 59$$
$$a_{59,59} = \max_i |a_{i,59}^{(60-1)}| = 60$$
$$a_{60,60} = \max_i |a_{i,60}^{(61-1)}| = 61$$
$$a_{61,61} = \max_i |a_{i,61}^{(62-1)}| = 62$$

$$a_{62,62} = \max_i |a_{i,62}^{(63-1)}| = 63$$
$$a_{63,63} = \max_i |a_{i,63}^{(64-1)}| = 64$$
$$a_{64,64} = \max_i |a_{i,64}^{(65-1)}| = 65$$
$$a_{65,65} = \max_i |a_{i,65}^{(66-1)}| = 66$$
$$a_{66,66} = \max_i |a_{i,66}^{(67-1)}| = 67$$
$$a_{67,67} = \max_i |a_{i,67}^{(68-1)}| = 68$$
$$a_{68,68} = \max_i |a_{i,68}^{(69-1)}| = 69$$
$$a_{69,69} = \max_i |a_{i,69}^{(70-1)}| = 70$$
$$a_{70,70} = \max_i |a_{i,70}^{(71-1)}| = 71$$
$$a_{71,71} = \max_i |a_{i,71}^{(72-1)}| = 72$$
$$a_{72,72} = \max_i |a_{i,72}^{(73-1)}| = 73$$
$$a_{73,73} = \max_i |a_{i,73}^{(74-1)}| = 74$$
$$a_{74,74} = \max_i |a_{i,74}^{(75-1)}| = 75$$
$$a_{75,75} = \max_i |a_{i,75}^{(76-1)}| = 76$$
$$a_{76,76} = \max_i |a_{i,76}^{(77-1)}| = 77$$
$$a_{77,77} = \max_i |a_{i,77}^{(78-1)}| = 78$$
$$a_{78,78} = \max_i |a_{i,78}^{(79-1)}| = 79$$
$$a_{79,79} = \max_i |a_{i,79}^{(80-1)}| = 80$$
$$a_{80,80} = \max_i |a_{i,80}^{(81-1)}| = 81$$
$$a_{81,81} = \max_i |a_{i,81}^{(82-1)}| = 82$$
$$a_{82,82} = \max_i |a_{i,82}^{(83-1)}| = 83$$
$$a_{83,83} = \max_i |a_{i,83}^{(84-1)}| = 84$$
$$a_{84,84} = \max_i |a_{i,84}^{(85-1)}| = 85$$
$$a_{85,85} = \max_i |a_{i,85}^{(86-1)}| = 86$$
$$a_{86,86} = \max_i |a_{i,86}^{(87-1)}| = 87$$
$$a_{87,87} = \max_i |a_{i,87}^{(88-1)}| = 88$$
$$a_{88,88} = \max_i |a_{i,88}^{(89-1)}| = 89$$
$$a_{89,89} = \max_i |a_{i,89}^{(90-1)}| = 90$$
$$a_{90,90} = \max_i |a_{i,90}^{(91-1)}| = 91$$
$$a_{91,91} = \max_i |a_{i,91}^{(92-1)}| = 92$$
$$a_{92,92} = \max_i |a_{i,92}^{(93-1)}| = 93$$
$$a_{93,93} = \max_i |a_{i,93}^{(94-1)}| = 94$$
$$a_{94,94} = \max_i |a_{i,94}^{(95-1)}| = 95$$

$$a_{95,95} = \max_i |a_{i,95}^{(96-1)}| = 96$$
$$a_{96,96} = \max_i |a_{i,96}^{(97-1)}| = 97$$
$$a_{97,97} = \max_i |a_{i,97}^{(98-1)}| = 98$$

$$\bar{x} = \begin{pmatrix} -4849.00 \\ -4846.50 \\ -3228.67 \\ -2419.25 \\ -1933.20 \\ -1608.83 \\ -1376.86 \\ -1202.62 \\ -1066.89 \\ -958.10 \\ -868.91 \\ -794.42 \\ -731.23 \\ -676.93 \\ -629.73 \\ -588.31 \\ -551.65 \\ -518.94 \\ -489.58 \\ -463.05 \\ -438.95 \\ -416.95 \\ -396.78 \\ -378.21 \\ -361.04 \\ -345.12 \\ -330.30 \\ -316.46 \\ -303.52 \\ -291.37 \\ -279.94 \\ -269.16 \\ -258.97 \\ -249.32 \\ -240.17 \\ -231.47 \\ -223.19 \\ -215.29 \\ -207.74 \\ -200.53 \\ -193.61 \\ -186.98 \\ -180.60 \\ -174.48 \\ -168.58 \\ -162.89 \\ -157.40 \\ -152.10 \\ -146.98 \\ -142.02 \end{pmatrix}$$

$$\Delta A = 9.426890448883242e153$$

90 $N = 99$

$A = \{a_{i,j} | i = 0..\overline{9}9, j = 0..\overline{1}00\}$

$a_{0,0} = \max_i |a_{i,0}^{(1-1)}| = 1$

$a_{1,1} = \max_i |a_{i,1}^{(2-1)}| = 2$

$a_{2,2} = \max_i |a_{i,2}^{(3-1)}| = 3$

$a_{3,3} = \max_i |a_{i,3}^{(4-1)}| = 4$

$a_{4,4} = \max_i |a_{i,4}^{(5-1)}| = 5$

$a_{5,5} = \max_i |a_{i,5}^{(6-1)}| = 6$

$a_{6,6} = \max_i |a_{i,6}^{(7-1)}| = 7$

$a_{7,7} = \max_i |a_{i,7}^{(8-1)}| = 8$

$a_{8,8} = \max_i |a_{i,8}^{(9-1)}| = 9$

$a_{9,9} = \max_i |a_{i,9}^{(10-1)}| = 10$

$a_{10,10} = \max_i |a_{i,10}^{(11-1)}| = 11$

$a_{11,11} = \max_i |a_{i,11}^{(12-1)}| = 12$

$a_{12,12} = \max_i |a_{i,12}^{(13-1)}| = 13$

$a_{13,13} = \max_i |a_{i,13}^{(14-1)}| = 14$

$a_{14,14} = \max_i |a_{i,14}^{(15-1)}| = 15$

$a_{15,15} = \max_i |a_{i,15}^{(16-1)}| = 16$

$a_{16,16} = \max_i |a_{i,16}^{(17-1)}| = 17$

$a_{17,17} = \max_i |a_{i,17}^{(18-1)}| = 18$

$a_{18,18} = \max_i |a_{i,18}^{(19-1)}| = 19$

$a_{19,19} = \max_i |a_{i,19}^{(20-1)}| = 20$

$a_{20,20} = \max_i |a_{i,20}^{(21-1)}| = 21$

$a_{21,21} = \max_i |a_{i,21}^{(22-1)}| = 22$

$a_{22,22} = \max_i |a_{i,22}^{(23-1)}| = 23$

$a_{23,23} = \max_i |a_{i,23}^{(24-1)}| = 24$

$a_{24,24} = \max_i |a_{i,24}^{(25-1)}| = 25$

$a_{25,25} = \max_i |a_{i,25}^{(26-1)}| = 26$

$a_{26,26} = \max_i |a_{i,26}^{(27-1)}| = 27$

$a_{27,27} = \max_i |a_{i,27}^{(28-1)}| = 28$

$a_{28,28} = \max_i |a_{i,28}^{(29-1)}| = 29$

$$a_{29,29} = \max_i |a_{i,29}^{(30-1)}| = 30$$
$$a_{30,30} = \max_i |a_{i,30}^{(31-1)}| = 31$$
$$a_{31,31} = \max_i |a_{i,31}^{(32-1)}| = 32$$
$$a_{32,32} = \max_i |a_{i,32}^{(33-1)}| = 33$$
$$a_{33,33} = \max_i |a_{i,33}^{(34-1)}| = 34$$
$$a_{34,34} = \max_i |a_{i,34}^{(35-1)}| = 35$$
$$a_{35,35} = \max_i |a_{i,35}^{(36-1)}| = 36$$
$$a_{36,36} = \max_i |a_{i,36}^{(37-1)}| = 37$$
$$a_{37,37} = \max_i |a_{i,37}^{(38-1)}| = 38$$
$$a_{38,38} = \max_i |a_{i,38}^{(39-1)}| = 39$$
$$a_{39,39} = \max_i |a_{i,39}^{(40-1)}| = 40$$
$$a_{40,40} = \max_i |a_{i,40}^{(41-1)}| = 41$$
$$a_{41,41} = \max_i |a_{i,41}^{(42-1)}| = 42$$
$$a_{42,42} = \max_i |a_{i,42}^{(43-1)}| = 43$$
$$a_{43,43} = \max_i |a_{i,43}^{(44-1)}| = 44$$
$$a_{44,44} = \max_i |a_{i,44}^{(45-1)}| = 45$$
$$a_{45,45} = \max_i |a_{i,45}^{(46-1)}| = 46$$
$$a_{46,46} = \max_i |a_{i,46}^{(47-1)}| = 47$$
$$a_{47,47} = \max_i |a_{i,47}^{(48-1)}| = 48$$
$$a_{48,48} = \max_i |a_{i,48}^{(49-1)}| = 49$$
$$a_{49,49} = \max_i |a_{i,49}^{(50-1)}| = 50$$
$$a_{50,50} = \max_i |a_{i,50}^{(51-1)}| = 51$$
$$a_{51,51} = \max_i |a_{i,51}^{(52-1)}| = 52$$
$$a_{52,52} = \max_i |a_{i,52}^{(53-1)}| = 53$$
$$a_{53,53} = \max_i |a_{i,53}^{(54-1)}| = 54$$
$$a_{54,54} = \max_i |a_{i,54}^{(55-1)}| = 55$$
$$a_{55,55} = \max_i |a_{i,55}^{(56-1)}| = 56$$
$$a_{56,56} = \max_i |a_{i,56}^{(57-1)}| = 57$$
$$a_{57,57} = \max_i |a_{i,57}^{(58-1)}| = 58$$
$$a_{58,58} = \max_i |a_{i,58}^{(59-1)}| = 59$$
$$a_{59,59} = \max_i |a_{i,59}^{(60-1)}| = 60$$
$$a_{60,60} = \max_i |a_{i,60}^{(61-1)}| = 61$$
$$a_{61,61} = \max_i |a_{i,61}^{(62-1)}| = 62$$

$$a_{62,62} = \max_i |a_{i,62}^{(63-1)}| = 63$$
$$a_{63,63} = \max_i |a_{i,63}^{(64-1)}| = 64$$
$$a_{64,64} = \max_i |a_{i,64}^{(65-1)}| = 65$$
$$a_{65,65} = \max_i |a_{i,65}^{(66-1)}| = 66$$
$$a_{66,66} = \max_i |a_{i,66}^{(67-1)}| = 67$$
$$a_{67,67} = \max_i |a_{i,67}^{(68-1)}| = 68$$
$$a_{68,68} = \max_i |a_{i,68}^{(69-1)}| = 69$$
$$a_{69,69} = \max_i |a_{i,69}^{(70-1)}| = 70$$
$$a_{70,70} = \max_i |a_{i,70}^{(71-1)}| = 71$$
$$a_{71,71} = \max_i |a_{i,71}^{(72-1)}| = 72$$
$$a_{72,72} = \max_i |a_{i,72}^{(73-1)}| = 73$$
$$a_{73,73} = \max_i |a_{i,73}^{(74-1)}| = 74$$
$$a_{74,74} = \max_i |a_{i,74}^{(75-1)}| = 75$$
$$a_{75,75} = \max_i |a_{i,75}^{(76-1)}| = 76$$
$$a_{76,76} = \max_i |a_{i,76}^{(77-1)}| = 77$$
$$a_{77,77} = \max_i |a_{i,77}^{(78-1)}| = 78$$
$$a_{78,78} = \max_i |a_{i,78}^{(79-1)}| = 79$$
$$a_{79,79} = \max_i |a_{i,79}^{(80-1)}| = 80$$
$$a_{80,80} = \max_i |a_{i,80}^{(81-1)}| = 81$$
$$a_{81,81} = \max_i |a_{i,81}^{(82-1)}| = 82$$
$$a_{82,82} = \max_i |a_{i,82}^{(83-1)}| = 83$$
$$a_{83,83} = \max_i |a_{i,83}^{(84-1)}| = 84$$
$$a_{84,84} = \max_i |a_{i,84}^{(85-1)}| = 85$$
$$a_{85,85} = \max_i |a_{i,85}^{(86-1)}| = 86$$
$$a_{86,86} = \max_i |a_{i,86}^{(87-1)}| = 87$$
$$a_{87,87} = \max_i |a_{i,87}^{(88-1)}| = 88$$
$$a_{88,88} = \max_i |a_{i,88}^{(89-1)}| = 89$$
$$a_{89,89} = \max_i |a_{i,89}^{(90-1)}| = 90$$
$$a_{90,90} = \max_i |a_{i,90}^{(91-1)}| = 91$$
$$a_{91,91} = \max_i |a_{i,91}^{(92-1)}| = 92$$
$$a_{92,92} = \max_i |a_{i,92}^{(93-1)}| = 93$$
$$a_{93,93} = \max_i |a_{i,93}^{(94-1)}| = 94$$
$$a_{94,94} = \max_i |a_{i,94}^{(95-1)}| = 95$$

$$a_{95,95} = \max_i |a_{i,95}^{(96-1)}| = 96$$
$$a_{96,96} = \max_i |a_{i,96}^{(97-1)}| = 97$$
$$a_{97,97} = \max_i |a_{i,97}^{(98-1)}| = 98$$
$$a_{98,98} = \max_i |a_{i,98}^{(99-1)}| = 99$$

$$\begin{pmatrix} -4948.00 \\ -4945.50 \\ -3294.67 \\ -2468.75 \\ -1972.80 \\ -1641.83 \\ -1405.14 \\ -1227.38 \\ -1088.89 \\ -977.90 \\ -886.91 \\ -810.92 \\ -746.46 \\ -691.07 \\ -642.93 \\ -600.69 \\ -563.29 \\ -529.94 \\ -500.00 \\ -472.95 \\ -448.38 \\ -425.95 \\ -405.39 \\ -386.46 \\ -368.96 \\ -352.73 \\ -337.63 \\ -323.54 \\ -310.34 \\ -297.97 \\ -286.32 \\ -275.34 \\ -264.97 \\ -255.15 \\ -245.83 \\ -236.97 \\ -228.54 \\ -220.50 \\ -212.82 \\ -205.47 \\ -198.44 \\ -191.69 \\ -185.21 \\ -178.98 \\ -172.98 \\ -167.20 \\ -161.62 \\ -156.23 \\ -151.02 \\ -145.98 \end{pmatrix}$$

$$\Delta A = 9.33262154439441e155$$

91 $N = 100$

$A = \{a_{i,j} | i = 0..\bar{1}00, j = 0..\bar{1}01\}$

$a_{0,0} = \max_i |a_{i,0}^{(1-1)}| = 1$

$a_{1,1} = \max_i |a_{i,1}^{(2-1)}| = 2$

$a_{2,2} = \max_i |a_{i,2}^{(3-1)}| = 3$

$a_{3,3} = \max_i |a_{i,3}^{(4-1)}| = 4$

$a_{4,4} = \max_i |a_{i,4}^{(5-1)}| = 5$

$a_{5,5} = \max_i |a_{i,5}^{(6-1)}| = 6$

$a_{6,6} = \max_i |a_{i,6}^{(7-1)}| = 7$

$a_{7,7} = \max_i |a_{i,7}^{(8-1)}| = 8$

$a_{8,8} = \max_i |a_{i,8}^{(9-1)}| = 9$

$a_{9,9} = \max_i |a_{i,9}^{(10-1)}| = 10$

$a_{10,10} = \max_i |a_{i,10}^{(11-1)}| = 11$

$a_{11,11} = \max_i |a_{i,11}^{(12-1)}| = 12$

$a_{12,12} = \max_i |a_{i,12}^{(13-1)}| = 13$

$a_{13,13} = \max_i |a_{i,13}^{(14-1)}| = 14$

$a_{14,14} = \max_i |a_{i,14}^{(15-1)}| = 15$

$a_{15,15} = \max_i |a_{i,15}^{(16-1)}| = 16$

$a_{16,16} = \max_i |a_{i,16}^{(17-1)}| = 17$

$a_{17,17} = \max_i |a_{i,17}^{(18-1)}| = 18$

$a_{18,18} = \max_i |a_{i,18}^{(19-1)}| = 19$

$a_{19,19} = \max_i |a_{i,19}^{(20-1)}| = 20$

$a_{20,20} = \max_i |a_{i,20}^{(21-1)}| = 21$

$a_{21,21} = \max_i |a_{i,21}^{(22-1)}| = 22$

$a_{22,22} = \max_i |a_{i,22}^{(23-1)}| = 23$

$a_{23,23} = \max_i |a_{i,23}^{(24-1)}| = 24$

$a_{24,24} = \max_i |a_{i,24}^{(25-1)}| = 25$

$a_{25,25} = \max_i |a_{i,25}^{(26-1)}| = 26$

$a_{26,26} = \max_i |a_{i,26}^{(27-1)}| = 27$

$a_{27,27} = \max_i |a_{i,27}^{(28-1)}| = 28$

$a_{28,28} = \max_i |a_{i,28}^{(29-1)}| = 29$

$$a_{29,29} = \max_i |a_{i,29}^{(30-1)}| = 30$$
$$a_{30,30} = \max_i |a_{i,30}^{(31-1)}| = 31$$
$$a_{31,31} = \max_i |a_{i,31}^{(32-1)}| = 32$$
$$a_{32,32} = \max_i |a_{i,32}^{(33-1)}| = 33$$
$$a_{33,33} = \max_i |a_{i,33}^{(34-1)}| = 34$$
$$a_{34,34} = \max_i |a_{i,34}^{(35-1)}| = 35$$
$$a_{35,35} = \max_i |a_{i,35}^{(36-1)}| = 36$$
$$a_{36,36} = \max_i |a_{i,36}^{(37-1)}| = 37$$
$$a_{37,37} = \max_i |a_{i,37}^{(38-1)}| = 38$$
$$a_{38,38} = \max_i |a_{i,38}^{(39-1)}| = 39$$
$$a_{39,39} = \max_i |a_{i,39}^{(40-1)}| = 40$$
$$a_{40,40} = \max_i |a_{i,40}^{(41-1)}| = 41$$
$$a_{41,41} = \max_i |a_{i,41}^{(42-1)}| = 42$$
$$a_{42,42} = \max_i |a_{i,42}^{(43-1)}| = 43$$
$$a_{43,43} = \max_i |a_{i,43}^{(44-1)}| = 44$$
$$a_{44,44} = \max_i |a_{i,44}^{(45-1)}| = 45$$
$$a_{45,45} = \max_i |a_{i,45}^{(46-1)}| = 46$$
$$a_{46,46} = \max_i |a_{i,46}^{(47-1)}| = 47$$
$$a_{47,47} = \max_i |a_{i,47}^{(48-1)}| = 48$$
$$a_{48,48} = \max_i |a_{i,48}^{(49-1)}| = 49$$
$$a_{49,49} = \max_i |a_{i,49}^{(50-1)}| = 50$$
$$a_{50,50} = \max_i |a_{i,50}^{(51-1)}| = 51$$
$$a_{51,51} = \max_i |a_{i,51}^{(52-1)}| = 52$$
$$a_{52,52} = \max_i |a_{i,52}^{(53-1)}| = 53$$
$$a_{53,53} = \max_i |a_{i,53}^{(54-1)}| = 54$$
$$a_{54,54} = \max_i |a_{i,54}^{(55-1)}| = 55$$
$$a_{55,55} = \max_i |a_{i,55}^{(56-1)}| = 56$$
$$a_{56,56} = \max_i |a_{i,56}^{(57-1)}| = 57$$
$$a_{57,57} = \max_i |a_{i,57}^{(58-1)}| = 58$$
$$a_{58,58} = \max_i |a_{i,58}^{(59-1)}| = 59$$
$$a_{59,59} = \max_i |a_{i,59}^{(60-1)}| = 60$$
$$a_{60,60} = \max_i |a_{i,60}^{(61-1)}| = 61$$
$$a_{61,61} = \max_i |a_{i,61}^{(62-1)}| = 62$$

$$a_{62,62} = \max_i |a_{i,62}^{(63-1)}| = 63$$
$$a_{63,63} = \max_i |a_{i,63}^{(64-1)}| = 64$$
$$a_{64,64} = \max_i |a_{i,64}^{(65-1)}| = 65$$
$$a_{65,65} = \max_i |a_{i,65}^{(66-1)}| = 66$$
$$a_{66,66} = \max_i |a_{i,66}^{(67-1)}| = 67$$
$$a_{67,67} = \max_i |a_{i,67}^{(68-1)}| = 68$$
$$a_{68,68} = \max_i |a_{i,68}^{(69-1)}| = 69$$
$$a_{69,69} = \max_i |a_{i,69}^{(70-1)}| = 70$$
$$a_{70,70} = \max_i |a_{i,70}^{(71-1)}| = 71$$
$$a_{71,71} = \max_i |a_{i,71}^{(72-1)}| = 72$$
$$a_{72,72} = \max_i |a_{i,72}^{(73-1)}| = 73$$
$$a_{73,73} = \max_i |a_{i,73}^{(74-1)}| = 74$$
$$a_{74,74} = \max_i |a_{i,74}^{(75-1)}| = 75$$
$$a_{75,75} = \max_i |a_{i,75}^{(76-1)}| = 76$$
$$a_{76,76} = \max_i |a_{i,76}^{(77-1)}| = 77$$
$$a_{77,77} = \max_i |a_{i,77}^{(78-1)}| = 78$$
$$a_{78,78} = \max_i |a_{i,78}^{(79-1)}| = 79$$
$$a_{79,79} = \max_i |a_{i,79}^{(80-1)}| = 80$$
$$a_{80,80} = \max_i |a_{i,80}^{(81-1)}| = 81$$
$$a_{81,81} = \max_i |a_{i,81}^{(82-1)}| = 82$$
$$a_{82,82} = \max_i |a_{i,82}^{(83-1)}| = 83$$
$$a_{83,83} = \max_i |a_{i,83}^{(84-1)}| = 84$$
$$a_{84,84} = \max_i |a_{i,84}^{(85-1)}| = 85$$
$$a_{85,85} = \max_i |a_{i,85}^{(86-1)}| = 86$$
$$a_{86,86} = \max_i |a_{i,86}^{(87-1)}| = 87$$
$$a_{87,87} = \max_i |a_{i,87}^{(88-1)}| = 88$$
$$a_{88,88} = \max_i |a_{i,88}^{(89-1)}| = 89$$
$$a_{89,89} = \max_i |a_{i,89}^{(90-1)}| = 90$$
$$a_{90,90} = \max_i |a_{i,90}^{(91-1)}| = 91$$
$$a_{91,91} = \max_i |a_{i,91}^{(92-1)}| = 92$$
$$a_{92,92} = \max_i |a_{i,92}^{(93-1)}| = 93$$
$$a_{93,93} = \max_i |a_{i,93}^{(94-1)}| = 94$$
$$a_{94,94} = \max_i |a_{i,94}^{(95-1)}| = 95$$

$$a_{95,95} = \max_i |a_{i,95}^{(96-1)}| = 96$$
$$a_{96,96} = \max_i |a_{i,96}^{(97-1)}| = 97$$
$$a_{97,97} = \max_i |a_{i,97}^{(98-1)}| = 98$$
$$a_{98,98} = \max_i |a_{i,98}^{(99-1)}| = 99$$
$$a_{99,99} = \max_i |a_{i,99}^{(100-1)}| = 100$$

$$\begin{pmatrix} -5048.00 \\ -5045.50 \\ -3361.33 \\ -2518.75 \\ -2012.80 \\ -1675.17 \\ -1433.71 \\ -1252.38 \\ -1111.11 \\ -997.90 \\ -905.09 \\ -827.58 \\ -761.85 \\ -705.36 \\ -656.27 \\ -613.19 \\ -575.06 \\ -541.06 \\ -510.53 \\ -482.95 \\ -457.90 \\ -435.05 \\ -414.09 \\ -394.79 \\ -376.96 \\ -360.42 \\ -345.04 \\ -330.68 \\ -317.24 \\ -304.63 \\ -292.77 \\ -281.59 \\ -271.03 \\ -261.03 \\ -251.54 \\ -242.53 \\ -233.95 \\ -225.76 \\ -217.95 \\ -210.47 \\ -203.32 \\ -196.45 \\ -189.86 \\ -183.52 \\ -177.42 \\ -171.54 \\ -165.87 \\ -160.40 \\ -155.10 \\ -149.98 \end{pmatrix}$$

$$\Delta A = 9.33262154439441e157$$