

Примеры
(с ответами, на минимум, 79 шт.)
для решения задач о назначениях

<p>1)</p> <pre> 1 3 9 9 2 7 8 1 6 1 0 0 0 1 0 0 0 1 f(x) = 9 -> min </pre>	<p>2)</p> <pre> 9 1 1 8 6 4 2 3 6 0 1 0 0 0 1 1 0 0 f(x) = 7 -> min </pre>
<p>3)</p> <pre> 10 6 0 10 4 1 6 2 2 0 0 1 0 1 0 1 0 0 f(x) = 10 -> min </pre>	<p>4)</p> <pre> 4 5 6 3 3 5 8 6 3 1 0 0 0 1 0 0 0 1 f(x) = 10 -> min </pre>
<p>5)</p> <pre> 7 3 1 7 5 7 2 10 10 0 0 1 0 1 0 1 0 0 f(x) = 8 -> min </pre>	<p>6)</p> <pre> 3 0 9 8 4 0 4 2 6 0 1 0 0 0 1 1 0 0 f(x) = 4 -> min </pre>
<p>7)</p> <pre> 8 8 9 0 10 9 2 8 3 0 1 0 1 0 0 0 0 1 f(x) = 11 -> min </pre>	<p>8)</p> <pre> 6 8 2 2 4 4 5 0 9 0 0 1 1 0 0 0 1 0 f(x) = 4 -> min </pre>

<p>9)</p> <pre> 6 6 7 3 1 5 8 7 2 1 0 0 0 1 0 0 0 1 f(x) = 9 -> min </pre>	<p>10)</p> <pre> 4 2 1 3 6 6 3 5 9 0 0 1 1 0 0 0 1 0 f(x) = 9 -> min </pre>
<p>11)</p> <pre> 1 0 8 10 6 7 4 6 0 1 0 0 0 1 0 0 0 1 f(x) = 7 -> min </pre>	<p>12)</p> <pre> 6 2 2 1 8 1 2 2 1 0 1 0 1 0 0 0 0 1 f(x) = 4 -> min </pre>
<p>13)</p> <pre> 9 1 7 4 2 7 4 7 3 0 1 0 1 0 0 0 0 1 f(x) = 8 -> min </pre>	<p>14)</p> <pre> 5 2 8 5 3 5 5 3 5 0 1 0 1 0 0 0 0 1 f(x) = 12 -> min </pre>
<p>15)</p> <pre> 2 5 4 7 9 4 6 4 5 1 0 0 0 0 1 0 1 0 f(x) = 10 -> min </pre>	<p>16)</p> <pre> 10 10 2 9 6 7 8 6 8 0 0 1 0 1 0 1 0 0 f(x) = 16 -> min </pre>

<p>17)</p> <pre> 6 8 14 11 15 0 0 1 4 7 9 11 15 7 10 18 0 0 0 1 0 0 1 0 1 0 0 0 0 1 0 0 f(x) = 22 -> min </pre>	<p>18)</p> <pre> 12 13 15 18 4 15 16 13 14 19 1 3 7 8 11 12 0 1 0 0 1 0 0 0 0 0 1 0 0 0 0 1 f(x) = 30 -> min </pre>
<p>19)</p> <pre> 3 5 7 8 19 2 10 13 14 3 6 7 10 13 1 9 1 0 0 0 0 1 0 0 0 0 0 1 0 0 1 0 f(x) = 13 -> min </pre>	<p>20)</p> <pre> 10 8 9 10 17 0 0 1 4 7 18 8 9 15 18 19 0 1 0 0 0 0 1 0 0 0 0 1 1 0 0 0 f(x) = 25 -> min </pre>
<p>21)</p> <pre> 2 5 7 8 12 7 9 16 18 0 1 4 9 14 17 2 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1 f(x) = 12 -> min </pre>	<p>22)</p> <pre> 7 15 20 11 13 15 7 17 18 7 13 1 8 18 5 6 1 0 0 0 0 0 1 0 0 1 0 0 0 0 0 1 f(x) = 27 -> min </pre>
<p>23)</p> <pre> 6 7 6 3 9 2 6 1 6 1 1 1 3 0 3 3 1 0 0 0 0 0 0 1 0 0 1 0 0 1 0 0 f(x) = 8 -> min </pre>	<p>24)</p> <pre> 1 15 17 0 14 15 8 2 4 7 19 0 13 7 9 12 1 0 0 0 0 0 1 0 0 0 0 1 0 1 0 0 f(x) = 16 -> min </pre>

<p>25)</p> <pre> 9 17 11 17 0 16 1 3 14 6 0 1 6 14 15 18 1 0 0 0 0 0 1 0 0 0 0 1 0 1 0 0 f(x) = 25 -> min </pre>	<p>26)</p> <pre> 3 5 3 5 7 19 3 12 19 1 10 0 8 9 13 1 1 0 0 0 0 0 1 0 0 1 0 0 0 0 0 1 f(x) = 8 -> min </pre>
<p>27)</p> <pre> 11 15 16 4 5 3 11 5 6 14 15 18 0 1 4 16 0 0 0 1 0 1 0 0 1 0 0 0 0 0 1 0 f(x) = 17 -> min </pre>	<p>28)</p> <pre> 17 1 4 13 1 2 7 15 16 18 6 13 1 2 6 14 0 0 1 0 1 0 0 0 0 0 0 1 0 1 0 0 f(x) = 20 -> min </pre>
<p>29)</p> <pre> 7 14 15 17 19 20 1 3 9 11 12 13 14 15 16 0 1 0 0 0 0 0 1 0 0 1 0 0 0 0 0 1 f(x) = 19 -> min </pre>	<p>30)</p> <pre> 8 10 11 14 15 19 7 11 12 13 14 16 17 18 19 1 1 0 0 0 0 0 1 0 0 1 0 0 0 0 0 1 f(x) = 29 -> min </pre>
<p>31)</p> <pre> 3 4 16 17 19 2 3 4 5 7 8 9 15 18 1 3 0 1 0 0 0 0 0 1 1 0 0 0 0 0 1 0 f(x) = 14 -> min </pre>	<p>32)</p> <pre> 5 8 1 5 6 9 11 13 14 16 18 19 2 4 6 7 0 0 1 0 1 0 0 0 0 1 0 0 0 0 0 1 f(x) = 30 -> min </pre>

33)

```

1 6 1 1 5
1 3 2 9 1
4 2 1 1 2
3 2 7 0 1
1 0 5 2 5

```

```

1 0 0 0 0
0 0 0 0 1
0 0 1 0 0
0 0 0 1 0
0 1 0 0 0

```

$$f(x) = 3 \rightarrow \min$$

34)

```

13 18 0 2 3
5 6 7 13 16
7 10 12 13 16
18 1 12 14 15
18 19 4 8 12

```

```

0 0 0 0 1
1 0 0 0 0
0 0 0 1 0
0 1 0 0 0
0 0 1 0 0

```

$$f(x) = 26 \rightarrow \min$$

35)

```

10 18 1 2 6
7 9 14 15 17
19 8 10 11 14
16 18 5 6 14
17 18 2 3 5

```

```

0 0 1 0 0
1 0 0 0 0
0 1 0 0 0
0 0 0 1 0
0 0 0 0 1

```

$$f(x) = 27 \rightarrow \min$$

36)

```

7 8 9 18 19
4 6 11 13 16
17 19 4 11 13
17 1 4 5 0
4 8 10 12 14

```

```

0 1 0 0 0
1 0 0 0 0
0 0 1 0 0
0 0 0 0 1
0 0 0 1 0

```

$$f(x) = 28 \rightarrow \min$$

37)

```

19 4 5 14 18
0 2 15 18 12
16 18 10 14 16
18 19 1 8 11
12 18 0 2 4

```

```

0 1 0 0 0
1 0 0 0 0
0 0 0 1 0
0 0 1 0 0
0 0 0 0 1

```

$$f(x) = 23 \rightarrow \min$$

38)

```

7 8 19 2 3
10 12 13 3 5
6 13 14 16 4
7 8 12 13 19
13 17 11 13 15

```

```

0 0 0 0 1
0 0 0 1 0
1 0 0 0 0
0 1 0 0 0
0 0 1 0 0

```

$$f(x) = 31 \rightarrow \min$$

39)

```

0  4  7  12 16
19 5  6  7  9
18 2  3  4  8
10 11 13 14 16
17 12 16 4  7

```

```

1  0  0  0  0
0  0  0  0  1
0  0  1  0  0
0  1  0  0  0
0  0  0  1  0

```

$$f(x) = 27 \rightarrow \min$$

40)

```

1  4  5  13  7
8  14 16 17 19
0  2  1  7  10
12 13  7  8  10
12 13 16  0 15

```

```

0  1  0  0  0
1  0  0  0  0
0  0  1  0  0
0  0  0  0  1
0  0  0  1  0

```

$$f(x) = 23 \rightarrow \min$$

41)

```

10 13  6 19  2
5  7 10  4 15
18 19  0  1  7
1  12 15 16 18
19  7  8  9  1

```

```

0  0  0  0  1
0  0  0  1  0
0  0  1  0  0
1  0  0  0  0
0  1  0  0  0

```

$$f(x) = 14 \rightarrow \min$$

42)

```

10  6 10  7  2
9  7 10  7  6
7  6  3  9 10
10  5  9  4  7
3  2  2  3  7

```

```

0  0  0  0  1
0  1  0  0  0
0  0  1  0  0
0  0  0  1  0
1  0  0  0  0

```

$$f(x) = 19 \rightarrow \min$$

43)

```

13 18  0  2  3
5  6  7 13 16
7 10 12 13 16
18  1 12 14 15
18 19  4  8 12

```

```

0  0  0  0  1
1  0  0  0  0
0  0  0  1  0
0  1  0  0  0
0  0  1  0  0

```

$$f(x) = 26 \rightarrow \min$$

44)

```

10 18  1  2  6
7  9 14 15 17
19  8 10 11 14
16 18  5  6 14
17 18  2  3  5

```

```

0  0  1  0  0
1  0  0  0  0
0  1  0  0  0
0  0  0  1  0
0  0  0  0  1

```

$$f(x) = 27 \rightarrow \min$$

<p>45)</p> <pre> 7 8 9 18 19 4 6 11 13 16 17 19 4 11 13 17 1 4 5 0 4 8 10 12 14 0 1 0 0 0 1 0 0 0 0 0 0 1 0 0 0 0 0 0 1 0 0 0 1 0 f(x) = 28 -> min </pre>	<p>46)</p> <pre> 19 4 5 14 18 0 2 15 18 12 16 18 10 14 16 18 19 1 8 11 12 18 0 2 4 0 1 0 0 0 1 0 0 0 0 0 0 0 1 0 0 0 1 0 0 0 0 0 0 1 f(x) = 23 -> min </pre>
<p>47)</p> <pre> 7 8 19 2 3 10 12 13 3 5 6 13 14 16 4 7 8 12 13 19 13 17 11 13 15 0 0 0 0 1 0 0 0 1 0 1 0 0 0 0 0 1 0 0 0 0 0 1 0 0 f(x) = 31 -> min </pre>	<p>48)</p> <pre> 0 4 7 12 16 19 5 6 7 9 18 2 3 4 8 10 11 13 14 16 17 12 16 4 7 1 0 0 0 0 0 0 0 0 1 0 0 1 0 0 0 1 0 0 0 0 0 0 1 0 f(x) = 27 -> min </pre>
<p>49)</p> <pre> 1 4 5 13 7 8 14 16 17 19 0 2 1 7 10 12 13 7 8 10 12 13 16 0 15 0 1 0 0 0 1 0 0 0 0 0 0 1 0 0 0 0 0 0 1 0 0 0 1 0 f(x) = 23 -> min </pre>	<p>50)</p> <pre> 3 4 7 12 13 14 15 17 20 1 6 7 9 11 12 13 14 15 18 3 5 7 16 17 18 0 1 0 0 0 0 0 0 0 1 0 0 0 1 0 0 0 1 0 0 1 0 0 0 0 f(x) = 36 -> min </pre>

<p>51)</p> <pre> 19 6 7 8 10 11 12 13 14 18 19 1 2 3 4 6 7 8 9 11 16 17 7 9 12 0 1 0 0 0 1 0 0 0 0 0 0 0 0 1 0 0 0 1 0 0 0 1 0 0 f(x) = 37 -> min </pre>	<p>52)</p> <pre> 14 15 17 0 1 2 3 4 5 13 16 17 19 2 15 18 1 2 5 6 7 8 9 10 13 0 0 0 0 1 1 0 0 0 0 0 0 0 1 0 0 1 0 0 0 0 0 1 0 0 f(x) = 15 -> min </pre>
<p>53)</p> <pre> 1 3 7 8 3 1 8 1 1 7 5 4 5 1 2 1 1 9 9 4 1 3 2 8 2 5 4 3 9 5 7 2 10 1 5 1 0 0 0 0 0 1 0 1 0 0 0 0 0 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 0 0 0 0 0 1 0 0 f(x) = 7 -> min </pre>	<p>54)</p> <pre> 16 17 18 19 0 9 13 14 17 18 0 3 4 8 11 13 16 8 9 10 11 12 19 0 2 3 6 7 8 9 13 14 16 17 18 0 0 0 0 0 1 0 0 1 0 0 0 0 1 0 0 0 0 0 0 0 1 0 0 0 0 0 0 1 0 0 0 0 0 0 0 1 f(x) = 36 -> min </pre>
<p>55)</p> <pre> 1 3 7 8 10 3 1 8 1 1 7 1 5 4 5 1 2 1 9 1 9 9 4 1 3 1 2 8 2 5 4 3 4 9 5 1 3 7 10 0 1 6 7 2 10 1 3 5 1 0 0 0 0 0 0 1 0 1 0 0 0 0 0 0 0 0 0 0 1 0 0 0 1 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 1 0 0 0 f(x) = 7 -> min </pre>	<p>56)</p> <pre> 8 18 4 11 13 2 10 15 18 0 9 16 1 2 12 16 4 8 6 13 16 1 10 11 0 8 17 2 9 2 3 11 5 13 17 4 17 18 8 12 3 15 2 15 16 7 18 2 14 5 12 5 6 14 8 14 7 8 12 19 12 13 4 19 0 0 1 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 1 0 0 1 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 1 0 0 0 0 0 0 0 0 0 1 0 f(x) = 21 -> min </pre>

57)

```

0  2  4  16  0  1  0  5
4  9  10 14  3  4  3  5
11 13 17  9  13 2  8  2
6  11 12 17  1  2  8  5
9  18  5 12  13 3  11 16
3  16  3 10  11 1  9  14
12 19  6  8  15 8  15  2
3  4  10  3  7  14  0  5

```

```

0  1  0  0  0  0  0  0
0  0  0  0  0  0  1  0
0  0  0  0  0  1  0  0
0  0  0  0  1  0  0  0
0  0  1  0  0  0  0  0
1  0  0  0  0  0  0  0
0  0  0  0  0  0  0  1
0  0  0  1  0  0  0  0

```

 $f(x) = 21 \rightarrow \min$

58)

```

12 13 18  1  2  9  6  16
17  2  3  8  13 14 19  4
10 13 15  5  6 19  8  12
13  6  8  15 16  5  3  17
5  13 17  6  9  10  1  6
10  5 17  18  10 11  8  10
11 15  1  5  6  10  4  7
9  13  4  5  17  5  7  15

```

```

0  0  0  1  0  0  0  0
0  0  0  0  0  0  0  1
0  0  0  0  1  0  0  0
0  0  0  0  0  0  1  0
1  0  0  0  0  0  0  0
0  1  0  0  0  0  0  0
0  0  1  0  0  0  0  0
0  0  0  0  0  1  0  0

```

 $f(x) = 30 \rightarrow \min$

59)

```

16 18  1  12  15  17  18  7
13  5  11  6  17  8  19  0
8  11  13  0  8  15  18  3
4  10  13  4  6  7  16  0
3  11  7  14  2  4  13  14
15  0  1  8  12  14  4  16
18 15  16  17  1  8  19  2
4  13  8  16  0  7  8  1

```

```

0  0  1  0  0  0  0  0
0  0  0  0  0  0  0  1
0  0  0  1  0  0  0  0
1  0  0  0  0  0  0  0
0  0  0  0  0  1  0  0
0  1  0  0  0  0  0  0
0  0  0  0  1  0  0  0
0  0  0  0  0  0  1  0

```

 $f(x) = 18 \rightarrow \min$

60)

```

2  9  16  13  15  5  17  0
14 15  16  8  9  17  18  19
11 13  6  7  10  11  14  18
0  7  10  19  7  12  1  3
18  5  8  5  18  2  15  2
6  17  6  18  19  5  1  6
8  10  18  1  8  18  11  18
4  5  6  8  16  6  7  12

```

```

0  0  0  0  0  0  0  1
0  0  0  0  1  0  0  0
0  0  1  0  0  0  0  0
1  0  0  0  0  0  0  0
0  0  0  0  0  1  0  0
0  0  0  0  0  0  1  0
0  0  0  1  0  0  0  0
0  1  0  0  0  0  0  0

```

 $f(x) = 24 \rightarrow \min$

61)

```

15 16 2 10 11 12 15 17
5 17 18 19 5 6 9 10
13 14 17 18 0 7 10 12
13 15 5 7 8 10 18 19
4 13 17 1 2 4 7 12
13 0 1 3 17 7 8 10
17 18 2 3 8 9 10 11
17 1 2 3 10 16 17 18

```

```

0 0 1 0 0 0 0 0
1 0 0 0 0 0 0 0
0 0 0 0 1 0 0 0
0 0 0 1 0 0 0 0
0 0 0 0 0 1 0 0
0 0 0 0 0 0 1 0
0 0 0 0 0 0 0 1
0 1 0 0 0 0 0 0

```

$$f(x) = 38 \rightarrow \min$$

62)

```

2 12 0 16 10 14 2 3
8 9 11 6 10 18 0 7
8 17 3 11 13 18 19 8
4 5 7 11 0 1 3 14
19 8 14 16 5 9 16 0
10 11 13 4 5 11 13 18
19 5 12 13 19 2 6 7
15 4 8 19 0 2 17 1

```

```

1 0 0 0 0 0 0 0
0 0 0 0 0 0 1 0
0 0 1 0 0 0 0 0
0 0 0 0 1 0 0 0
0 0 0 0 0 0 0 1
0 0 0 1 0 0 0 0
0 0 0 0 0 1 0 0
0 1 0 0 0 0 0 0

```

$$f(x) = 15 \rightarrow \min$$

63)

```

8 9 10 0 2 5 11 15
16 17 2 5 14 15 16 17
1 3 18 19 0 5 7 9
16 17 18 4 9 10 18 12
2 5 11 12 14 19 0 16
6 9 15 16 18 3 4 11
12 14 1 5 14 19 3 10
17 18 8 4 16 8 11 18

```

```

0 0 0 0 1 0 0 0
0 0 1 0 0 0 0 0
0 1 0 0 0 0 0 0
0 0 0 0 0 0 0 1
1 0 0 0 0 0 0 0
0 0 0 0 0 1 0 0
0 0 0 0 0 0 1 0
0 0 0 1 0 0 0 0

```

$$f(x) = 31 \rightarrow \min$$

64)

```

6 7 13 14 15 4 9 14
4 5 6 7 15 0 5 11
15 16 17 18 6 11 16 3
5 13 14 15 16 4 9 14
6 7 8 17 2 7 17 18
19 4 11 0 3 6 8 9
19 0 1 6 11 16 2 3
4 10 11 18 9 13 17 6

```

```

0 1 0 0 0 0 0 0
0 0 0 0 0 1 0 0
0 0 0 0 0 0 0 1
0 0 0 0 0 0 1 0
0 0 0 0 1 0 0 0
0 0 0 1 0 0 0 0
0 0 1 0 0 0 0 0
1 0 0 0 0 0 0 0

```

$$f(x) = 26 \rightarrow \min$$

65)

```

7 14 16 19 0 2 6 18
1 4 12 13 15 10 15 18
7 8 10 4 11 15 6 4
5 11 13 0 11 12 19 12
16 19 0 7 2 3 14 6
7 5 10 16 17 2 9 16
13 14 6 17 19 6 7 10
11 18 6 16 2 3 12 18

```

```

0 0 0 0 1 0 0 0
1 0 0 0 0 0 0 0
0 0 0 0 0 0 0 1
0 0 0 1 0 0 0 0
0 0 1 0 0 0 0 0
0 1 0 0 0 0 0 0
0 0 0 0 0 0 1 0
0 0 0 0 0 1 0 0

```

 $f(x) = 20 \rightarrow \min$

66)

```

5 6 17 18 6 15 3 4
16 17 3 11 12 14 0 1
5 6 8 12 13 17 18 6
7 12 1 9 13 19 0 8
9 17 18 4 5 17 5 8
9 14 15 17 11 14 16 2
9 12 19 2 3 8 10 2
3 11 12 7 17 19 16 4

```

```

0 0 0 0 1 0 0 0
0 0 0 0 0 0 1 0
0 1 0 0 0 0 0 0
0 0 1 0 0 0 0 0
0 0 0 1 0 0 0 0
0 0 0 0 0 0 0 1
0 0 0 0 0 1 0 0
1 0 0 0 0 0 0 0

```

 $f(x) = 30 \rightarrow \min$

67)

```

6 17 19 9 11 13 18 9
11 5 10 12 18 11 13 19
0 7 10 11 15 18 5 8
10 11 0 7 9 0 2 8
9 15 3 11 18 0 6 19
0 6 14 2 9 12 15 2
5 16 4 7 11 13 7 10
13 5 8 15 1 5 0 11

```

```

0 0 0 1 0 0 0 0
0 1 0 0 0 0 0 0
1 0 0 0 0 0 0 0
0 0 0 0 0 0 1 0
0 0 0 0 0 1 0 0
0 0 0 0 0 0 0 1
0 0 1 0 0 0 0 0
0 0 0 0 1 0 0 0

```

 $f(x) = 23 \rightarrow \min$

68)

```

12 13 18 19 8 9 15 19
6 8 13 17 1 3 11 16
0 7 3 5 10 16 9 12
19 2 5 3 4 5 9 11
19 3 4 5 2 8 9 16
2 10 8 10 16 17 12 16
3 9 15 16 1 9 12 15
0 1 6 10 13 16 8 9

```

```

0 0 0 0 0 0 1 0
0 0 0 0 0 1 0 0
0 0 1 0 0 0 0 0
0 0 0 1 0 0 0 0
0 1 0 0 0 0 0 0
1 0 0 0 0 0 0 0
0 0 0 0 1 0 0 0
0 0 0 0 0 0 0 1

```

 $f(x) = 39 \rightarrow \min$

69)

```

1 3 9 7 7 8 10 3 1
9 2 7 6 0 2 2 4 7
8 1 6 1 3 7 1 5 4
5 1 3 2 7 1 9 1 9
9 4 2 1 0 3 1 2 8
2 5 6 4 6 3 4 9 5
1 3 2 7 3 10 0 1 6
7 2 7 10 8 1 3 5 1
2 1 0 5 7 8 2 5 6

```

```

0 0 0 0 0 0 0 0 1
0 0 0 0 1 0 0 0 0
0 1 0 0 0 0 0 0 0
0 0 0 0 0 0 0 1 0
0 0 0 1 0 0 0 0 0
1 0 0 0 0 0 0 0 0
0 0 0 0 0 0 1 0 0
0 0 0 0 0 1 0 0 0
0 0 1 0 0 0 0 0 0

```

$$f(x) = 7 \rightarrow \min$$

70)

```

6 11 12 17 1 2 8 9 5
9 18 5 12 13 3 11 3 16
3 10 11 1 9 12 19 6 15
8 15 2 19 3 4 3 7 14
5 6 10 17 9 11 13 17 4
14 16 18 2 9 14 15 16 1
1 5 14 15 16 2 4 11 3
13 4 9 10 11 16 4 6 16
17 13 18 19 14 15 16 2 4

```

```

0 0 0 0 1 0 0 0 0
0 0 0 0 0 1 0 0 0
0 0 0 1 0 0 0 0 0
0 0 1 0 0 0 0 0 0
0 1 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 1
1 0 0 0 0 0 0 0 0
0 0 0 0 0 0 1 0 0
0 0 0 0 0 0 0 1 0

```

$$f(x) = 21 \rightarrow \min$$

71)

```

10 11 8 10 11 15 1 10 4
7 9 13 4 5 17 5 7 15
17 8 9 10 12 7 8 9 11
4 10 16 3 15 18 1 13 1
2 9 10 11 6 7 8 12 19
15 18 1 4 15 7 13 8 14
0 9 16 19 0 1 16 0 9
10 1 3 4 16 5 6 7 11
12 15 5 8 3 4 3 6 7

```

```

0 0 0 0 0 0 1 0 0
0 0 0 1 0 0 0 0 0
0 0 0 0 0 1 0 0 0
0 0 0 0 0 0 0 0 1
1 0 0 0 0 0 0 0 0
0 0 1 0 0 0 0 0 0
0 0 0 0 0 0 0 1 0
0 1 0 0 0 0 0 0 0
0 0 0 0 1 0 0 0 0

```

$$f(x) = 20 \rightarrow \min$$

72)

```

8 10 14 16 18 15 1 3 5
12 14 0 9 15 17 18 8 10
1 2 2 6 15 17 18 11 4
1 5 8 9 10 11 12 13 14
15 16 17 19 0 4 5 9 11
5 8 10 9 19 0 7 16 17
19 4 5 6 11 1 4 7 9
17 2 3 4 13 19 1 8 3
17 19 5 7 18 7 9 1 8

```

```

0 0 0 0 0 0 1 0 0
0 0 1 0 0 0 0 0 0
0 1 0 0 0 0 0 0 0
1 0 0 0 0 0 0 0 0
0 0 0 0 1 0 0 0 0
0 0 0 0 0 1 0 0 0
0 0 0 1 0 0 0 0 0
0 0 0 0 0 0 0 0 1
0 0 0 0 0 0 0 1 0

```

$$f(x) = 14 \rightarrow \min$$

73)

```

16 8 9 19 0 1 6 9 10
15 0 10 4 5 6 15 17 0
2 8 12 13 14 3 6 8 14
18 19 0 12 12 4 5 15 2
3 4 6 16 18 19 0 9 0
1 11 3 4 5 10 11 12 4
5 6 15 4 19 0 1 7 12
0 15 16 17 1 6 9 13 18
15 13 14 13 8 10 1 14 19

```

```

0 0 0 0 1 0 0 0 0
0 1 0 0 0 0 0 0 0
0 0 0 0 0 0 0 1 0
0 0 1 0 0 0 0 0 0
0 0 0 0 0 0 0 0 1
0 0 0 1 0 0 0 0 0
0 0 0 0 0 1 0 0 0
1 0 0 0 0 0 0 0 0
0 0 0 0 0 0 1 0 0

```

 $f(x) = 13 \rightarrow \min$

74)

```

1 3 9 7 7 8 10 3 1 1
9 2 7 6 0 2 2 4 7 2
8 1 6 1 3 7 1 5 4 3
5 1 3 2 7 1 9 1 9 5
9 4 2 1 0 3 1 2 8 7
2 5 6 4 6 3 4 9 5 2
1 3 2 7 3 10 0 1 6 4
7 2 7 10 8 1 3 5 1 5
2 1 0 5 7 8 2 5 6 7
5 1 3 2 7 1 9 1 9 5

```

```

1 0 0 0 0 0 0 0 0 0
0 0 0 0 1 0 0 0 0 0
0 1 0 0 0 0 0 0 0 0
0 0 0 0 0 1 0 0 0 0
0 0 0 1 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 1
0 0 0 0 0 0 1 0 0 0
0 0 0 0 0 0 0 0 1 0
0 0 1 0 0 0 0 0 0 0
0 0 0 0 0 0 0 1 0 0

```

 $f(x) = 8 \rightarrow \min$

75)

```

6 11 12 17 1 2 8 9 5 1
9 18 5 12 13 3 11 3 16 1
3 10 11 1 9 12 19 6 15 8
8 15 2 19 3 4 3 7 14 4
5 6 10 17 9 11 13 17 4 1
14 16 18 2 9 14 15 16 1 10
1 5 14 15 16 2 4 11 3 1
13 4 9 10 11 16 4 6 16 5
17 13 18 19 14 15 16 2 4 1
8 15 2 19 3 4 3 7 14 4

```

```

0 0 0 0 1 0 0 0 0 0
0 0 0 0 0 1 0 0 0 0
0 0 0 1 0 0 0 0 0 0
0 0 1 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 1 0
0 0 0 0 0 0 0 0 1 0
1 0 0 0 0 0 0 0 0 0
0 1 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 1 0 0
0 0 0 0 0 0 1 0 0 0

```

 $f(x) = 19 \rightarrow \min$

76)

```

10 11 8 10 11 15 1 10 4 1
7 9 13 4 5 17 5 7 15 7
17 8 9 10 12 7 8 9 11 1
4 10 16 3 15 18 1 13 1 5
2 9 10 11 6 7 8 12 19 1
15 18 1 4 15 7 13 8 14 3
0 9 16 19 0 1 16 0 9 1
10 1 3 4 16 5 6 7 11 2
12 15 5 8 3 4 3 6 7 1
0 9 16 19 0 1 16 0 9 1

```

```

0 0 0 0 0 0 1 0 0 0
0 0 0 1 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 1
0 0 0 0 0 0 0 0 1 0
1 0 0 0 0 0 0 0 0 0
0 0 1 0 0 0 0 0 0 0
0 0 0 0 1 0 0 0 0 0
0 1 0 0 0 0 0 0 0 0
0 0 0 0 0 1 0 0 0 0
0 0 0 0 0 0 1 0 0 0

```

 $f(x) = 15 \rightarrow \min$

77)

8	10	14	16	18	15	1	3	5	1
12	14	0	9	15	17	18	8	10	3
1	2	2	6	15	17	18	11	4	1
1	5	8	9	10	11	12	13	14	3
15	16	17	19	0	4	5	9	11	1
5	8	10	9	19	0	7	16	17	1
19	4	5	6	11	1	4	7	9	1
17	2	3	4	13	19	1	8	3	6
17	19	5	7	18	7	9	1	8	6
5	8	10	9	19	0	7	16	17	1

0	0	0	0	0	0	1	0	0	0
0	0	1	0	0	0	0	0	0	0
0	1	0	0	0	0	0	0	0	0
1	0	0	0	0	0	0	0	0	0
0	0	0	0	1	0	0	0	0	0
0	0	0	0	0	1	0	0	0	0
0	0	0	1	0	0	0	0	0	0
0	0	0	0	0	0	0	0	1	0
0	0	0	0	0	0	0	1	0	0
0	0	0	0	0	0	0	0	0	1

$$f(x) = 15 \rightarrow \min$$

78)

1	3	9	7	7	28	10	3	1	1	13
9	22	7	6	10	2	2	44	7	2	4
8	1	6	1	3	7	1	5	4	3	5
5	21	3	2	7	1	9	1	9	5	6
9	4	2	1	10	3	21	2	8	7	7
2	15	6	4	6	3	4	9	5	2	8
1	3	2	7	13	10	0	11	6	4	9
7	2	7	10	8	1	3	5	1	5	0
2	1	10	5	7	8	2	5	6	7	11
5	11	3	2	7	1	9	1	9	5	2
5	1	3	2	7	1	9	1	9	15	6

0	0	0	0	0	0	0	0	1	0	0
0	0	0	0	0	0	0	0	0	1	0
0	0	0	0	1	0	0	0	0	0	0
0	0	1	0	0	0	0	0	0	0	0
0	0	0	1	0	0	0	0	0	0	0
1	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	1	0	0	0	0
0	0	0	0	0	0	0	0	0	0	1
0	1	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	1	0	0	0	0
0	0	0	0	0	0	0	1	0	0	0

$$f(x) = 15 \rightarrow \min$$

79)

1	3	9	7	7	28	10	3	1	1	13	3
9	22	7	6	10	2	2	44	7	2	4	5
8	1	6	1	3	7	1	5	4	3	5	1
5	21	3	2	7	1	9	1	9	5	6	18
9	4	2	1	10	3	21	2	8	7	7	21
2	15	6	4	6	3	4	9	5	2	8	3
1	3	2	7	13	10	0	11	6	4	9	8
7	2	7	10	8	1	3	5	1	5	0	7
2	1	10	5	7	8	2	5	6	7	11	0
5	11	3	2	7	1	9	1	9	5	2	4
5	1	3	2	7	1	9	1	9	15	6	4
5	21	3	2	7	1	9	1	9	5	6	18

0	0	0	0	0	0	0	0	1	0	0	0
0	0	0	0	0	0	0	0	0	1	0	0
0	0	0	0	1	0	0	0	0	0	0	0
0	0	1	0	0	0	0	0	0	0	0	0
0	0	0	1	0	0	0	0	0	0	0	0
1	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	1	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	1	0
0	0	0	0	0	0	0	0	0	0	0	1
0	0	0	0	0	1	0	0	0	0	0	0
0	1	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	1	0	0	0	0

$$f(x) = 15 \rightarrow \min$$

Конец таблицы