64 729

Squares 13-499	16, 25, 36, 49, 64, 81, 100, 121, 144, 169, 196, 225, 256, 289, 324, 361, 400, 441, 484
Squares 500-1300	529, 576, 625, 676, 729, 784, 841, 900, 961, 1024, 1089, 1156, 1225, 1296
Cubes 13-499	27, 64, 125, 216, 343
Cubes 500-1300	512, 729, 1000
Both	64, 729

Possible true answers:

No 1 and 2)
No 1 and 3)
   2 and 3   –   Yes, over 500 there is a cube and a square (729)

65 X is 6; Y is 1
Starting at number 1 and moving to alternate segments clockwise:
1 2 3 4 5 6
Starting at number 6 and moving in the same way:
6 5 4 3 2 1

66 E
Adding up each column:
Column A = 75
Column B = 80
Column C = 85
Column D = 90
Column E = 96
Column F = 100

67 16061

68 3020
The first 2 digits on the right of the brackets are divided by the digit on the left to gve the first digit inside the brackets. The remaining number on the right of the brackets is multiplied by the digit on the left of the brackets to give the remaining number inside the brackets.

69 2
The first column totals 9. The second column totals 10. This pattern continues, so the final column should total 13, by the addition of 2.

70 X is 4; Y is 11
Two alternate series
Starting with the first number: 7 6 5 4 3
Starting with the second number: 8 9 10 11 12

71 15
All the others are prime numbers.

72 No player could have achieved a five digit total. There are no four digit prime palindromic numbers. There are only 15 three digit prime numbers which are palindromic, and one two digit prime palindromic number 11. The total is 7104 divided by 16 equals an average of 444.

73
A $x = 9$. The figure in the third square across is the sum of the figures in the preceding two squares.
B $x = 14$. In the first row across the numbers increase by 3 and 4; in the second row by 4 and 5. Therefore, in the third row they should increase by 5 and 6.
C $x = I$. This is similar to the previous example, except that letters are used instead of numbers. In the first row the letters advance, skipping 3 and 4 places respectively. In the second row they should advance, skipping 4 and 5 places, so as to conform with the third row, in which the letters skip 5 and 6 places.

74 85
In the first row, the numbers outside the brackets are divided by 16 and the results placed inside the brackets. In the second row they are divided by 17. Therefore, in the third row they are divided by 18.

75 $X = 129$. In the outer ring, moving clockwise, each number is doubled and 1 subtracted from the result.
$Y = 39$. In the inner ring, moving clockwise, each number is doubled and 1 added to the result.

76 8— cigarettes.

77 2, 3, 12 – These losing numbers have been decided by the gambling authorities and apply worldwide.

78 81

79 Car 1 goes into road B, because 17 goes into 136;
Car 2 goes into road C, because 81 goes into 567
Car 3 goes into road A, because 27 goes into 243

80 They are both the same distance from Sheffield *when they meet*!

81 59

Proceeding from top to bottom along the rows from left to right, add the two previous numbers and add 1, then add the two previous numbers and subtract 1, and so forth, adding 1 and subtracting 1 alternately. Thus the two numbers previous to the blank square are 22 and 38. These are added together, giving 60, and 1 subtracted from the total.

82 S19

There are two separate series. The letters advance missing first two (A to D), then three (D to H) and so on. After M there must be five missing letters, bringing us to S. The numbers advance in the same way.

83 X is 4; Y is 11

There are two alternate series. One is:

7 6 5 4

The other is:

8 9 10 11

84 D

As 1764 was a leap year, there were 29 days in February, so it would be Saturday 10 NOT 11 March.

85 25' x 25'
　　 15' x 15'

86　　 1　5.5 KG
　　　　 2　6.5 KG
　　　　 3　7 KG
　　　　 4　4.5 KG
　　　　 5　3.5 KG

87 6

88 X is 9; Y is 15

There are two separate series. Starting with the first number and taking the others alternately:

1 3 5 7 9

Starting with the second number and proceeding in the same way:

3 6 9 12 15

89 112

90 3

The numbers following the letters correspond with the position in the alphabet of the letters.

91 16

4 is the square of 2; 9 is the square of 3; 25 is the square of 5; x must be the square of 4 (16).

92 448

93 Yes
True odds are $\frac{1}{1828}$

94 A
With the exception of the digits in A, which add up to 13, the digits in all other dates add up to 12.

95 13
Change the Roman numerals into modern numbers:
208 104 52 26

Each one is half the previous number. therefore the next number is 13, expressed in modern numerals to conform with the established pattern.

96 D
D equals 3; all the others equal 4

97 12

98 21 The numbers increase by 3, 4, 5, 6 and 7

99 A = 98
B = 126
In the first row the numbers outside the brackets are divided by 12 and the results placed inside the brackets; in the second row they are divided by 13; thus, in the third row the numbers inside the brackets are multiplied by 14 to obtain a and b.

100 A: 12 (Each number doubles its opposite lower number and adds two.)
B: 25 (Each number doubles its opposite lower number and adds three.)

101 A = 7
B = 8
From the music shown the following can be deduced:

after ♩ comes ▬

after ♩ comes |

after ♪ comes ▬

after ♩ comes ○

102 You can only travel south from the North Pole!

103 A = 9 B = 2
The first row across totals 15; the second row 16; the fifth row 19 and the bottom row 20. Thus, the total increases by one in each successive row.

104 Take any 100 digits in a random number sequence. Write down all the differences between every pair of digits, you will have 99 digits. Take every possible difference in the digits, you will find 100.

Such as
0-0   1-0   0-3   1-3
0-1   1-1   0-4   1-4
0-2   1-2 etc.

Add the differences $\frac{330}{100} = 3.3$

105 6,561
There are two sequences arranged alternately. In each sequence the number is the square of the previous number in that sequence. 6,561 is the square of 81.

106 A ½ revolution
B 2½ revolutions.

107 86
Add five straightdown; Add ten sideways; Add fifteen diagonally.

108 4,12

109 11
(6 x 11) - 24 = 90

110 2.50

111 They were playing darts in the Club House.

112 13

113 31

114 140
Starting with 3 in the upper half, the number in the opposite segment multiplies it by 2. The next number (7) is multiplied by 3; then by 4, and so on.

Therefore 20 is multiplied by 7 to give 140.

115 16

Each number reverses the previous number and adds 1 to each digit. Thus, in the first two terms, 16 reversed is 61, which then changes to 72. In the penultimate term, 50 reversed becomes 05, which in turn becomes 16 – by adding 1 to each digit.

116 A 7; B C

	Black ball	White ball
1st move	D	A
2nd move	E	F
3rd move	F	D
4th move	G	B
5th move	A	G
6th move	B	E
7th move	C	C

117 5

Columns headed by an odd number add up to 30. Columns headed by an even number add up to 40. The last column adds up to 35, to which must be added 5 to bring it up to 40, as this column is headed by an even number.

118 x is 11; y is 61

In the first circle the number in the top left quarter is squared and then reduced by 1 in the opposite diagonal quarter; the number in the top right quarter is cubed and then 1 added to give the number in the opposite lower quarter.
In the second circle the same procedure is followed except that 2 is deducted from the squared number and 2 is added to the cubed number.
Therefore, in the third circle 3 is deducted from the square of 8 (64 becomes 61 – the value for Y), while 3 is added to the cube of 2 (8 becomes 11 – the value for X).

119 X is 9 or 24; Y also is 9 or 24

In each case the numbers at the top are divided by 4 in the opposite quarter and 1 is added. An alternative solution is that the numbers in the lower quarters are miltiplied by 4 in their opposite quarters and 4 is deducted from the result.

120 1

The numbers reduce by 17, 34, 68, 136, 272 and hence – 544 thus reducing the previous number – 545 by 1. (The terms reduce in multiples of 17.)

121 5-1 Against

		Amount to be staked to recover £100 including stake	
2-1	1	£ 33.3	
3-1	2	25	
4-1	3	20	
5-1	4	16.6	
6-1	5	14.3	
	6	?	
		109.3	
5-1	6	16.6	Add horse No. 6
		125.9	

Whichever horse wins he gains 125.9% as long as he has balanced his books.
(He receives £125.90 and pays out £100.00. His profit is, therefore, £25.90.)

122 40
Add half the number on the left to its square root and arrive at the number on the right.
Alternatively, the left hand column from top to bottom follows the progression of adding
5, 7, 9, 11, 13 and 15, while the right hand column adds $3\frac{1}{2}$, $4\frac{1}{2}$, $5\frac{1}{2}$, $6\frac{1}{2}$, $7\frac{1}{2}$ and finally $8\frac{1}{2}$, bringing the last number to 40.

123 9
The totals in the bottom quarters are half those in the opposite top quarters.

124 8
Starting with the two segments above x, the sum of each part in the upper semi-circle is the same as its corresponding pair in the lower semicircle.

125 $18 \div 2 \times 9 + 24 - 5 = 100$

126 33

127 Take reciprocal, i.e. divide into 1

4 hrs	=	1/4	= .25
5 hrs	=	1/5	= .20
6 hrs	=	1/6	= .166
8 hrs	=	1/8	= .125
			.741

Take reciprocal again $\dfrac{1}{.741}$ = 1 hr 21 mins

128 200m would only take 199 cuts not 200.
199 x 4 sec = 13.27 mins

129 Numbers 1, 5 or 17

130 18, 12 and 8

131 D
As the black blocks are farther from the fulcrum the see-saw should go down on the right.

132 X is 108; Y is 48.
There are three series, taking every third term:
3   6   12   24   48 (Y) (multiply by 2)
7   21   84   420   (multiply by 3, 4 and 5)
4   12   36   108 (X) (multiply by 3)

133 A
The area of the circle (based on the formula: multiply the square of the radius by 3.14 approx) is 3.97 square inches.
A is 4 square inches (the nearest)
B is 4.41 square inches
C is 3.80 square inches
D is 3.78 square inches

134 A 36
B 4
C 9
D 35
E 24

135 6591
     1
 x   1
 x   1
 x   3
 x 13
 x 13
 x 13 = 6591

136 14
The results are as follows:
1st throw 6 8
2nd throw 4 14
3rd throw 3 10
4th throw 1 8
5th throw 2 12
6th throw 6 20
7th throw 5 14

137 216225
Square the number on the left outside the brackets and place the result on the right inside the brackets, then cube the number on the right outside the brackets and place the result on the left inside the brackets. Repeat this procedure throughout, so the last line is 225 (15 squared) and 216 (6 cubed).

138 C

139 X is 7; Y is 9
Although this can be solved by elimination, it can also be solved by algebra:
from the bottom line:
$y = 2 + x$

substituting this in the first line:
$2x - (2 + x) = 5$

hence:
$2x - 2 - x = 5;$

or:
$x - 2 = 5,$

therefore:
$x = 7$

substituting this in the second line:
$7 + y = 16$

therefore:
$y = 9$

140 16
Each number in the bottom row is the sum of the number above it and the previous number.

141 Twice as large

142 201 (add digits to previous number)

143 947 x 947 apples

144 125
96 passes out of 125 give an average of 76.8%

145 Here are nine possible combinations:
6   19 25;
8   17 25;
10 19 21;
4   21 25;
2   6 17 25;
2   4 19 25;
2   10 17 21;
4   10 17 19;
4   8 17 21.

146 1854
According to this mathematical formula: $7! \left(\frac{1}{2}! - \frac{1}{3}! + \frac{1}{4}! - \frac{1}{5}! + \frac{1}{6}! - \frac{1}{7} \right) = 1854$

147 13
All the numbers in the top line contain curves. The only one in the bottom line is 13, as all the others consist of straight strokes.

148 27
In the top line the first number, 9 is divisible by 3; 8 is divisible by 4; 10 is divisible by 5; 18 is divisible by 6; 21 is divisible by 7; 16 is divisible by 8. hence the next number must be divisible by 9, and the only number that complies with this is 27.

149 X is 15; Y is 11
In the outer ring, going clockwise from 7, each number doubles the previous number and subtracts 1. hence x (coming before 29) must be 15. In the inner ring, each number doubles the previous number and adds 1. Hence y is 11 (double 5 plus 1).

150 2 new stations
11 existing stations

151 Hole No. 2.
Analyse the statements.

Hole No.	A	B	C	D	E
14	✔		✔	✔	✔
2					✔
3	✔				✔
4			✔	✔	
5	✔				✔
6				✔	✔
7	✔		✔		✔
8	✔			✔	✔
9	✔			✔	
10		✔		✔	✔
11	✔		✔		✔
12		✔		✔	✔
13	✔				✔
14		✔		✔	✔
15	✔			✔	✔
16		✔		✔	
17	✔		✔		✔
18		✔		✔	✔

Only one tick means a true statement.

152 99
After the first two terms each subsequent term is the sum of the two previous terms.

153 25
In the first row divide the numbers outside the brackets by 14 and put the results inside the brackets. Continue in th esame way, but next dividing by 15 and then by 16. In the last row divide by 17.

154 A is 7, B is 1, C is 8
With a four-figure total, the calculation is obviously addition and not subtraction. In order to reconcile the units with the tens. B must be 1 (the units total 7), so that 7 added to 4 in the tens gives 11, confirming that B is 1 (also confirmed in the final total). to give 2 in the final total, C must be *, so that the hundreds came to 12.

155 $4^1/_2$ or 4.5
In each quarter halve each total of the rings up to and includiong the centre. Thus, in the bottom left quarter: 24 plus 12 = 36, 11 plus 7 = 18, 6 plus 3 = 9. Therefore x = 4½ or 4.5.

156 4
The first term is follwed by the last term; the second term is followed by the penultimate term, and the third term follows the same procedure. Thus the series becomes: 25 24 22 19 15 10 4(x) – ie: decreasing by one more each time: -1 -2 -3 -4 -5 -6(x)

157 x is 4½ or 4.5, y is 112
Halve the terms alternately from the first term: 72 36 18 9 41/2 or 4.5(x). Double the terms alternately from the second term: 7 14 28 56 112(y).

158 D
Add the numbers and then add the remaining digits: A – total of numbers is 25, 2 plus 5 = 7; B – total of numbers is 34, 3 plus 4 = 7; C – total of the numbers is 61, 6 plus 1 = 7; D – total of the numbers is 26, 2 plus 6 = 8.

159 12
The series must be read backwards and spaced correctly: 1 2 3 4 5 6 7 8 9 10 11 12(X).

160 X is 16; Y is 21; Z is 16
To justify the right hand vertical row with the top row, • must be 2. Substituting this in the remiaining horizontal rows, it becomes obvious that (DIAGRAM) must be 3, (DIAGRAM) must be 4 and, in the bottom row (DIAGRAM) must be 7. The values for X, Y and Z now become clear.

161 Matilda 19
    Philip   17

162 $\frac{5289 \times (49 + 63) \times 4.5}{60 \times 60}$
= 740.46 ft

163 A
Pinion A has 10 teeth. Pinion C has 20 teeth. Therefore the ratio between them is exactly 2:1, which is obtained by dividing the larger by the smaller. In other words, pinion A will make two revolutions while pinion C makes one. The number of teeth on the intermediate pinion does not in any way alter the ratio between the other two.

164 6
The player holds 1 club, 2 hearts and 4 diamonds. As he holds 13 cards (or seven black cards), it follows that there must be 6 spades.

165 1
Spaced correctly, the series becomes 13 15 17 19 2(1)

166 2,150
51 is midway between 3 and 99; 43 is midway between 7 and 79; 51 x 43 = 2,193, less 43 (midway between 9 and 77) = 2,150
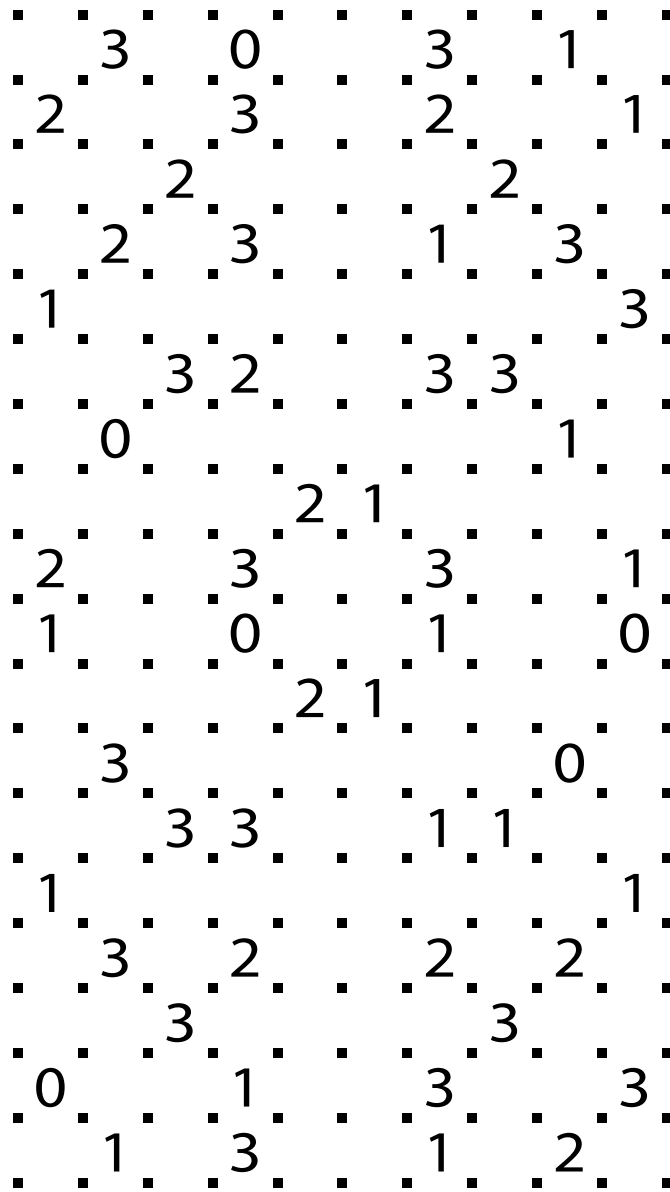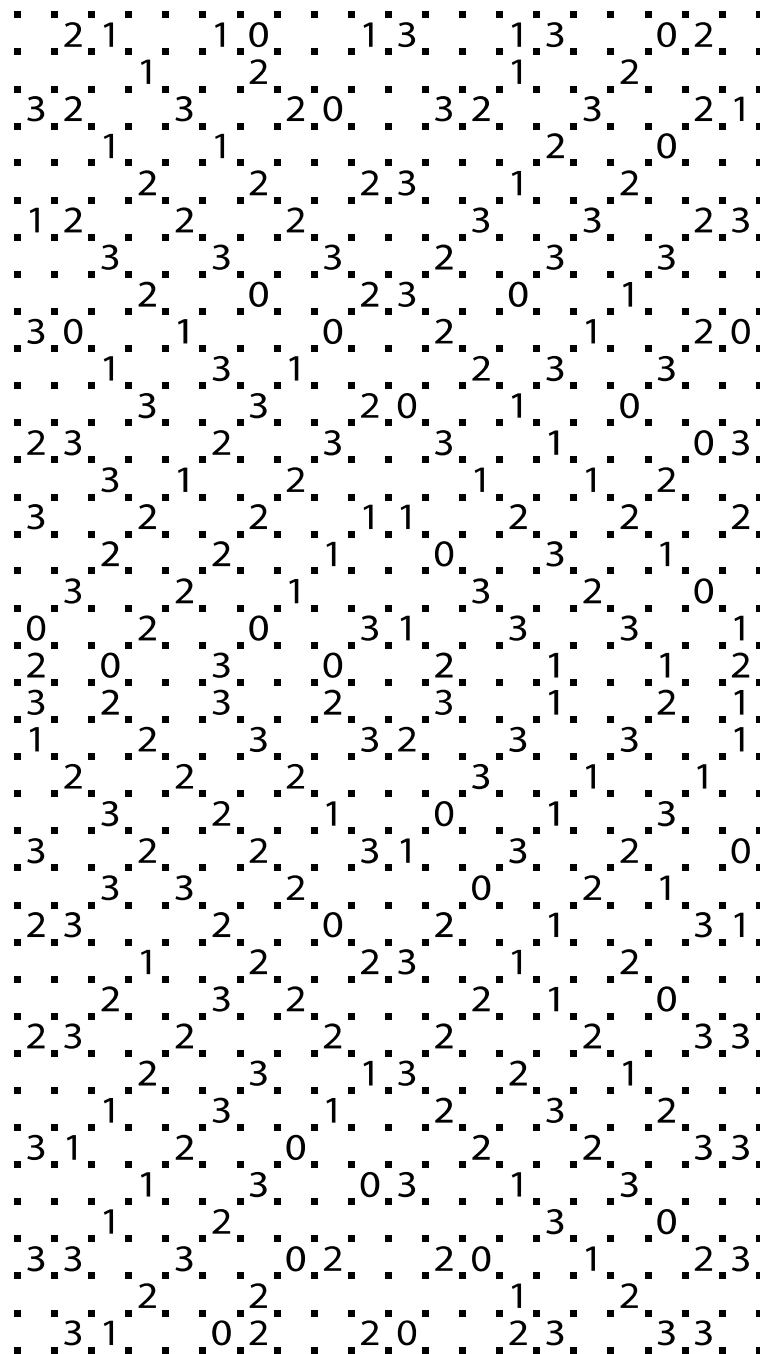
1 Sudoku

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

2 Sudoku

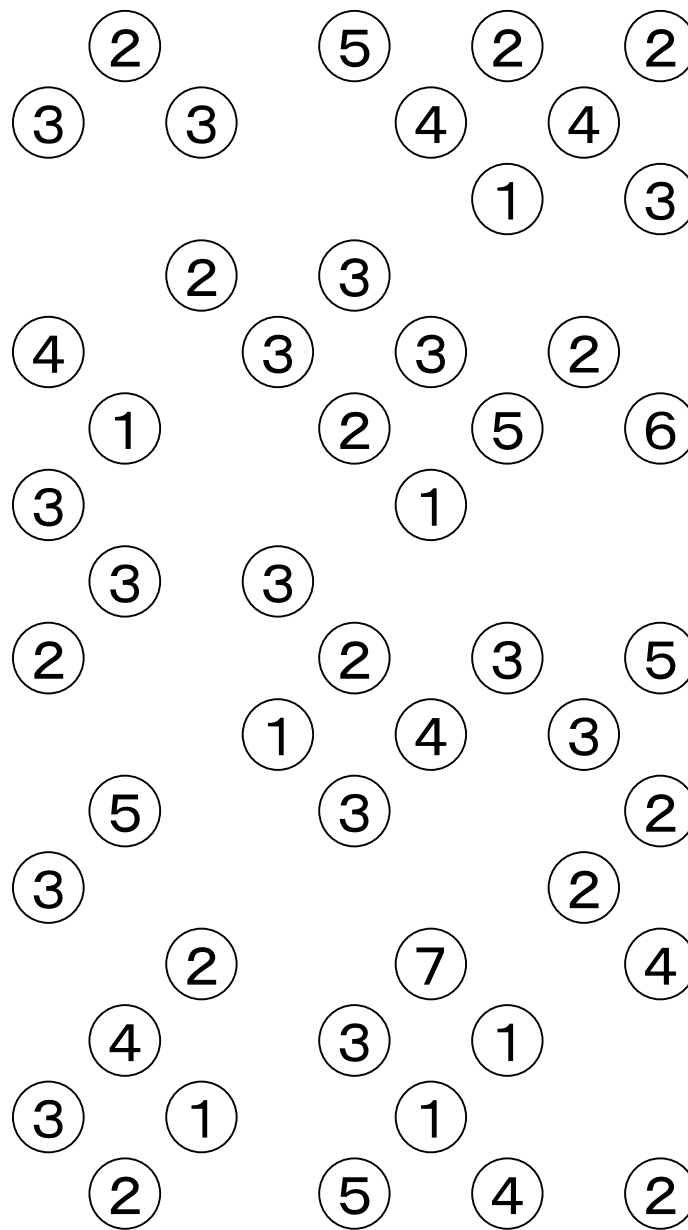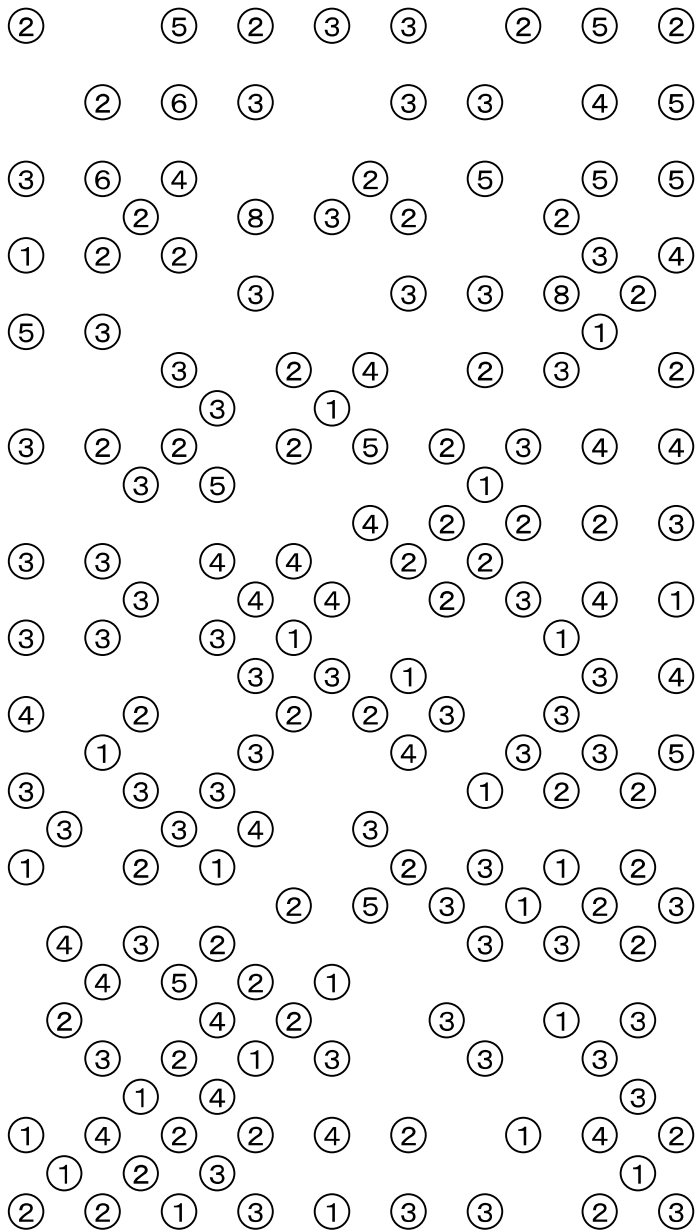|								
	9	7	1		4	6	5	
		3	6	8	9	7		
6			7	1	5			4
3								9
4			3	9	2			6
		8	9	3	6	2		
	6	1	2		7	8	3	

3 Slitherlink

```
3     0       3     1

2       3       2       1

     2             2

  2     3     1     3

1                       3

     3 2       3 3

  0                   1

          2 1

2       3     3       1

1       0     1       0

          2 1

  3                 0

     3 3       1 1

1                       1

  3   2       2   2

     3             3

0       1     3       3

  1     3     1     2
```

4 Sudoku

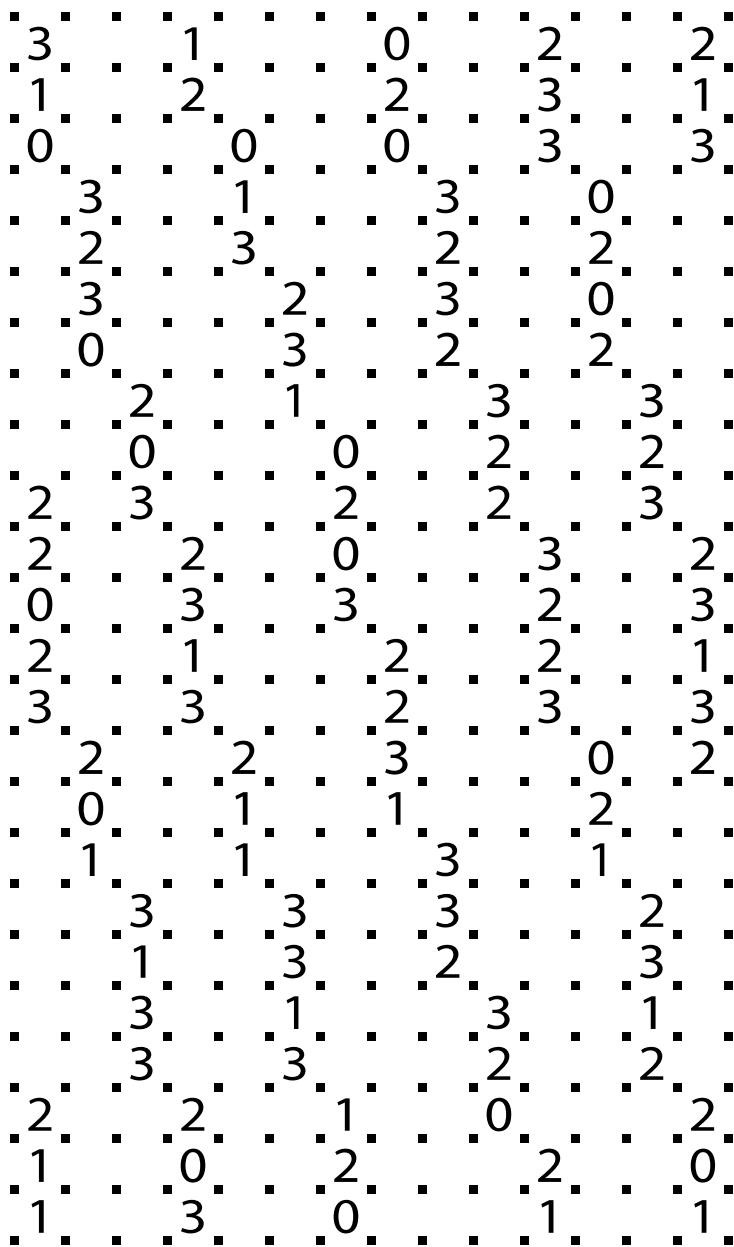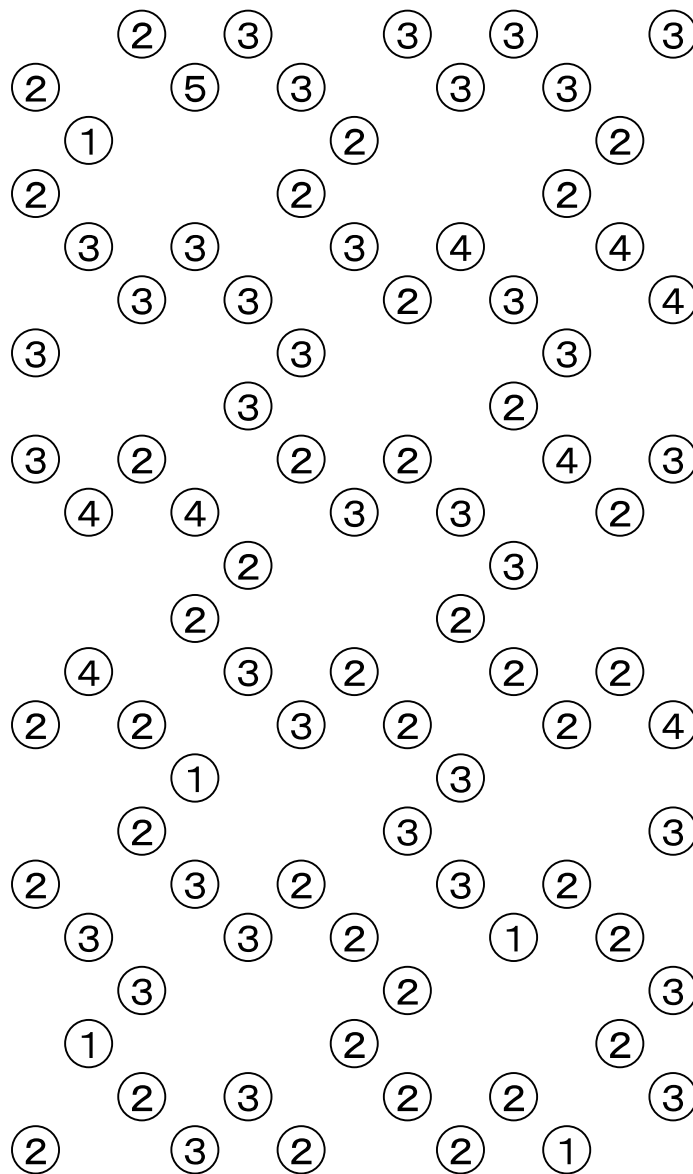|								
				3	4	1	2	
		4	2	1	7		5	6
1		9	7			4	3	
	4		6	8				
8		5	9			6	7	
		8	1	2	6		4	3
				7	8	9	6	

5 Slitherlink

```
  2 1     1 0     1 3     1 3     0 2
    1       2         1       2
3 2     3     2 0     3 2     3     2 1
    1       1             2       0
      2       2     2 3     1     2
1 2     2     2         3     3     2 3
    3     3     3     2     3     3
      2       0     2 3     0     1
3 0     1       0     2       1     2 0
    1     3   1       2     3     3
      3     3     2 0     1     0
2 3       2     3     3     1       0 3
    3   1     2       1     1   2
3     2     2     1 1     2     2     2
    2     2     1     0     3     1
      3     2   1       3     2     0
0     2     0     3 1     3     3     1
2   0     3     0     2     1     1   2
3   2     3     2     3     1     2   1
1     2     3     3 2     3     3     1
    2     2     2       3     1     1
      3     2   1     0   3     1     3
3     2     2     3 1     3     2     0
      3   3     2       0     2   1
2 3       2     0     2     1       3 1
    1     2     2 3     1     2
      2     3   2       2   1     0
2 3       2       2       2     2     3 3
      2     3     1 3     2     1
    1     3     1     2     3     2
3 1     2     0       2     2     3 3
      1     3     0 3     1     3
    1     2           3     0
3 3     3     0 2     2 0     1     2 3
      2     2         1     2
  3 1     0 2     2 0     2 3     3 3
```

6 Bridges

7 Bridges

②   ⑤ ② ③ ③   ② ⑤ ②
   ② ⑥ ③   ③ ③   ④ ⑤
③ ⑥ ④   ②   ⑤   ⑤ ⑤
   ②   ⑧ ③ ②   ②
① ② ②   ③ ④
   ③   ③ ③ ⑧ ②
⑤ ③   ①
   ③   ② ④   ② ③   ②
   ③   ①
③ ② ②   ② ⑤ ② ③ ④ ④
   ③ ⑤   ①
     ④ ② ② ② ③
③ ③   ④ ④   ② ②
   ③   ④ ④   ② ③ ④ ①
③ ③   ③ ①   ①
   ③   ③ ①   ③ ④
④   ②   ② ② ③   ③
   ①   ③   ④   ③ ③ ⑤
③   ③ ③   ① ② ②
   ③   ③ ④   ③
①   ② ①   ② ③ ① ②
     ② ⑤ ③ ① ② ③
④ ③ ②   ③ ③ ②
   ④ ⑤ ② ①
②   ④ ②   ③   ① ③
   ③ ② ① ③   ③   ③
   ① ④   ③
① ④ ② ② ④ ②   ① ④ ②
   ① ② ③   ①
② ② ① ③ ① ③ ③   ② ③

8 Slitherlink

9 Sudoku

1								**6**
4		**3**		**2**		**8**		**7**
		2	**7**		**8**	**5**		
	6		**2**	**7**	**3**		**5**	
	2		**9**	**1**	**6**		**7**	
		8	**4**		**7**	**9**		
7		**9**		**8**		**6**		**1**
5								**2**

10 Bridges

(2) (3)　(3) (3)　(3)
(2)　(5) (3)　(3) (3)
(1)　　(2)　　(2)
(2)　　(2)　　(2)
(3) (3)　(3) (4)　(4)
(3) (3)　(2) (3)　(4)
(3)　　(3)　　(3)
　　(3)　　(2)
(3) (2)　(2) (2)　(4) (3)
(4) (4)　(3) (3)　(2)
　(2)　　(3)
(2)　　(2)
(4)　(3) (2)　(2) (2)
(2) (2)　(3) (2)　(2) (4)
　(1)　　(3)
(2)　　(3)　　(3)
(2)　(3) (2)　(3) (2)
(3)　(3) (2)　(1) (2)
(3)　　(2)　　(3)
(1)　　(2)　　(2)
(2) (3)　(2) (2)　(3)
(2)　(3) (2)　(2) (1)

11 Sudoku

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

12 Slitherlink

```
. . . .     . . . .   . . . .
. . . . 3 . . . . 3 . . . .
. 2 3 0 1 . . . 0 . . . .
. . . . . . . . . . . . . .
. . . . . . . . 3 2 0 . .
. . 0 2 1 1 . . . . . . .
. . . . . . . . . . . . . .
. . 1 . . 2 . . . . . . .
. . . . . . . . . . . . . .
. . 3 . . 1 . . 3 0 . .
. . 2 2 1 2 . . . 2 . .
. . . . . . . . . . 2 . .
. 1 2 . . 2 1 . . 3 . .
. . . . . . . . . . . . .
. 0 . . 3 2 . . 3 1 . .
. 3 . . . . . . . . . .
. 2 . . 3 2 0 1 . . . .
. 2 1 . . 0 . . 1 . . .
. . . . . 2 . . 1 . . .
. . . . . 0 1 2 2 . . .
. 1 3 3 . . . . . . . .
. . 2 . . . . 1 3 3 3 .
. . 1 . . . 1 . . . .
```
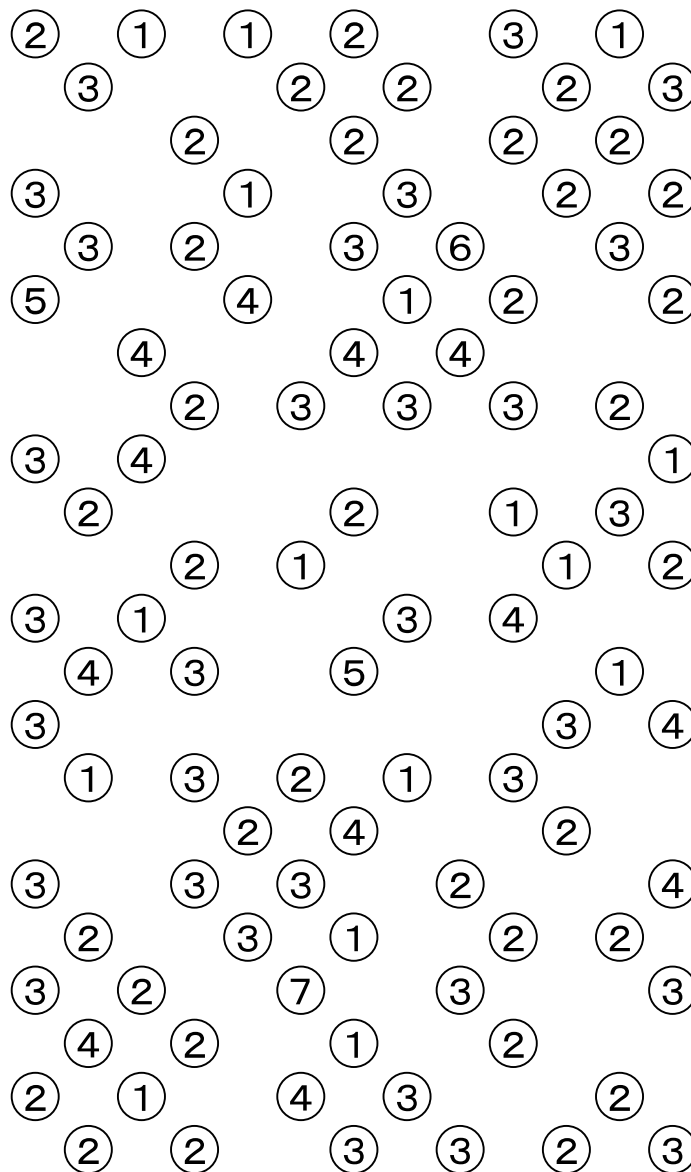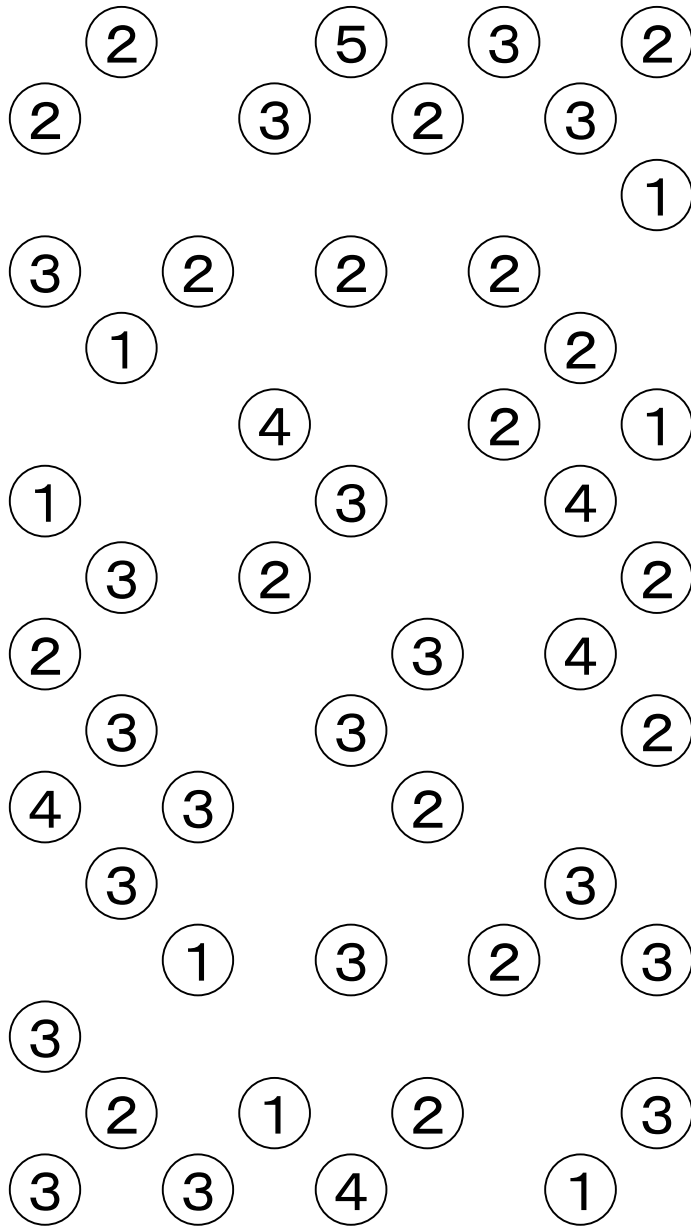
13 Sudoku

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

14 Bridges

④   ④   ⑤   ③

　 ③   ②   ②

② 　 ③   ③

　 ③   ⑥   ⑤

② 　 ⑤ 　 　 ②

　 ②   ② 　 ③

④   ⑧   ⑤   ③

　 ① 　 　 ② 　 ④

④   ③ 　 　 ①

　 ③   ② 　 ② 　 ②

③   ③   ③

　 ① 　 　 ③   ④

③   ④   ①

　 ② 　 ③   ③

　 ②   ①   ①
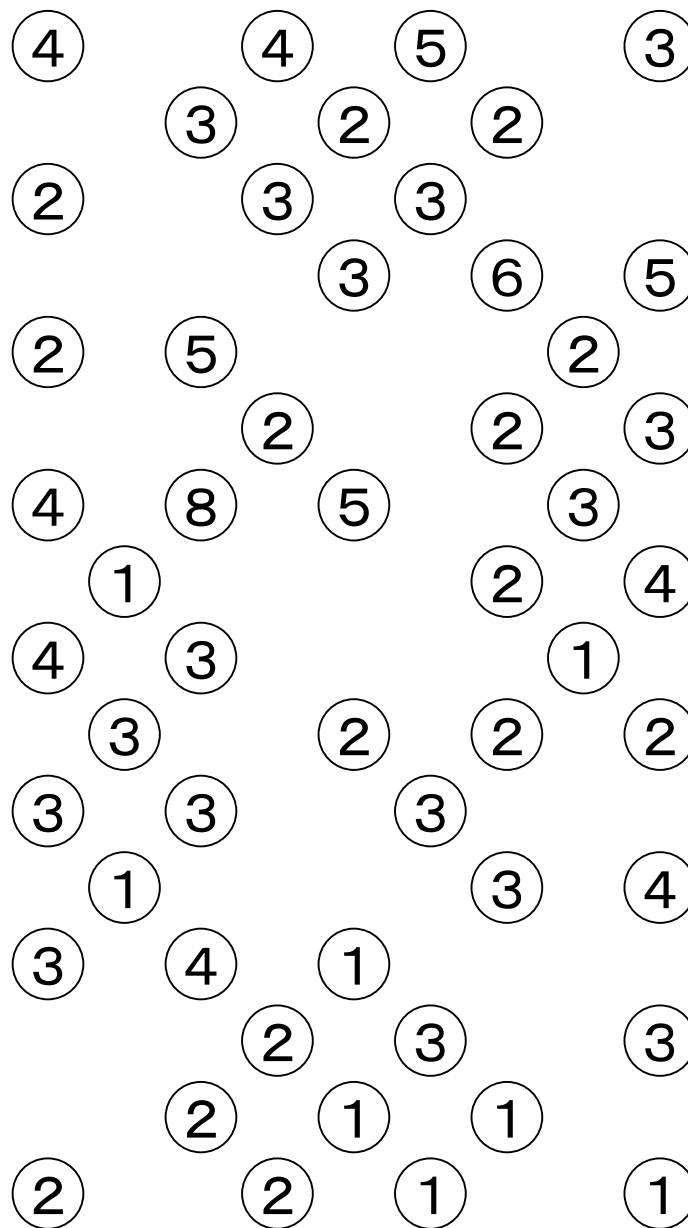
②   ②   ①   ①

15 Bridges
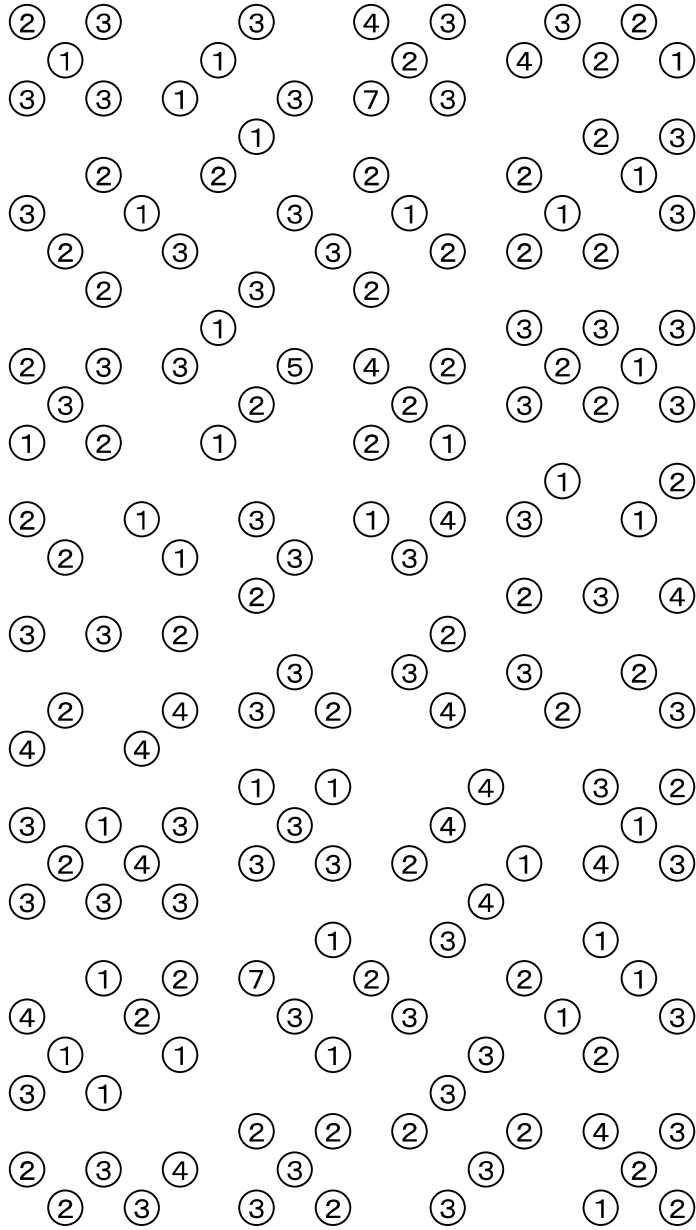
16 Slitherlink

```
3 2 2 2 2         3 1 1 3 3
        2 3 3         3 3 3
3   2   2     1   2   3
  1   3   3   2   1   2   2   2
1   1   2   2   1   1   1   3   3   3
  3   1   2   2   3   1   2   3
2   2   2         2   3   3
          3 1 2                 0 1 2
3 2 1 1 1         1 2 2 3 2
        1 3 3 2 2         2 1 2 3 1
  2 3 0         3 2 3
          2   1   3         1   1   1
  1   0   2   3   1   2   1   3
  2   3   1   2   1   2   2   2   1   1
  3   1   1   3   3   0   3   1
          2   1   0         3   2   3
  3 1 1         2 3 1
        2 2 1 0 2         2 3 2 3 2
2 1 3 1 2         2 3 3 3 2
          2 2 3         3 1 2
3   3   1         1   1   0
  1   3   3   2   3   3   1   2
1   3   2   2   1   3   1   2   3   0
  1   1   3   3   1   1   2   2
3   3   3         3   3   3
          2 3 1                 0 2 1
1 2 1 2 0         3 1 3 0 3
        1 1 1 1 1         2 2 2 1 1
  2 3 0         3 2 3
          3   1   2         1   1   1
  3   1   1   1   0   2   1   1
  2   3   3   1   2   1   1   3   1   1
  2   2   1   2   3   3   1   2
          1   3   3         3   1   3
  3 2 3         2 3 1
          2 1 0 1 1         3 2 2 3 2
```

17 Slitherlink

```
.  .  .  .  .  .  .  .  .  .  .  .  .  .  .

. 3 . 1 . 3 .   . 2 . 1 . 2 . 3 . 2 . 2 .   . 2 . 0 . 1 .

.  .  . 3 .  .  .  .  .  .  . 3 .  .  .  .
        .
        . 3                         . 2
. 0 . 2 . 0 .   . 2 . 0 . 3 . 2 . 1 . 2 .   . 1 . 0 . 1 .

.  .  . 1 .  .  .  .  .  .  . 2 .  .  .  .
        .                           .
        . 2                         . 0
. 2 . 3 . 1 .   . 3 . 2 . 3 . 1 . 2 . 2 .   . 3 . 3 . 2 .

.  .  . 2 .  .  .  .  .  .  . 1 .  .  .  .
        .                           .
        . 2                         . 2
. 1 . 3 . 3 .   . 1 . 2 . 3 . 2 . 2 . 3 .   . 3 . 1 . 0 .

.  .  . 1 .  .  .  .  .  .  . 2 .  .  .  .
        .                           .
        . 2                         . 3
. 3 . 2 . 2 .   . 3 . 1 . 0 . 2 . 1 . 2 .   . 1 . 3 . 2 .

.  .  . 3 .  .  .  .  .  .  . 3 .  .  .  .
        .                           .
        . 2                         . 2
. 2 . 2 . 2 .   . 1 . 0 . 2 . 1 . 2 . 1 .   . 3 . 1 . 3 .

.  .  . 1 .  .  .  .  .  .  . 2 .  .  .  .
        .                           .
        . 2                         . 1
. 2 . 2 . 1 .   . 3 . 2 . 2 . 3 . 1 . 1 .   . 1 . 3 . 2 .

.  .  . 1 .  .  .  .  .  .  . 3 .  .  .  .
        .                           .
        . 1                         . 3
. 3 . 1 . 3 .   . 2 . 3 . 0 . 2 . 1 . 3 .   . 2 . 3 . 2 .

.  .  .  .  .  .  .  .  .  .  .  .  .  .  .
```
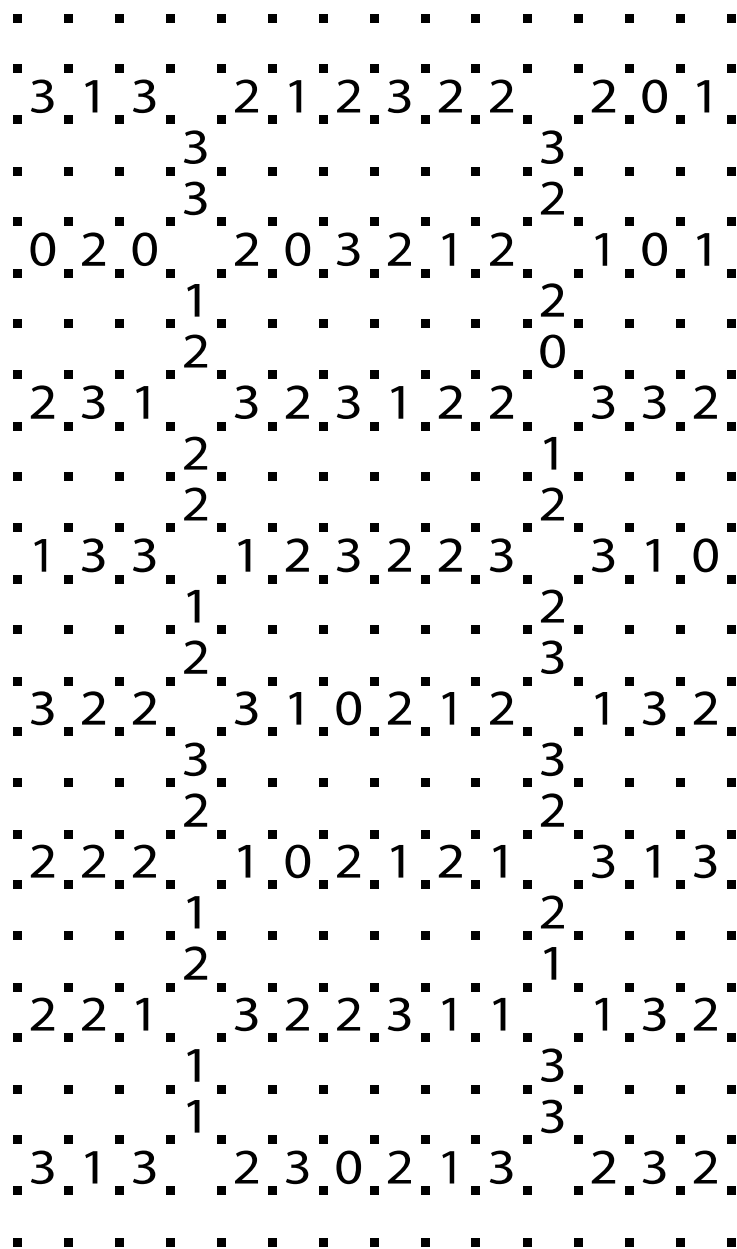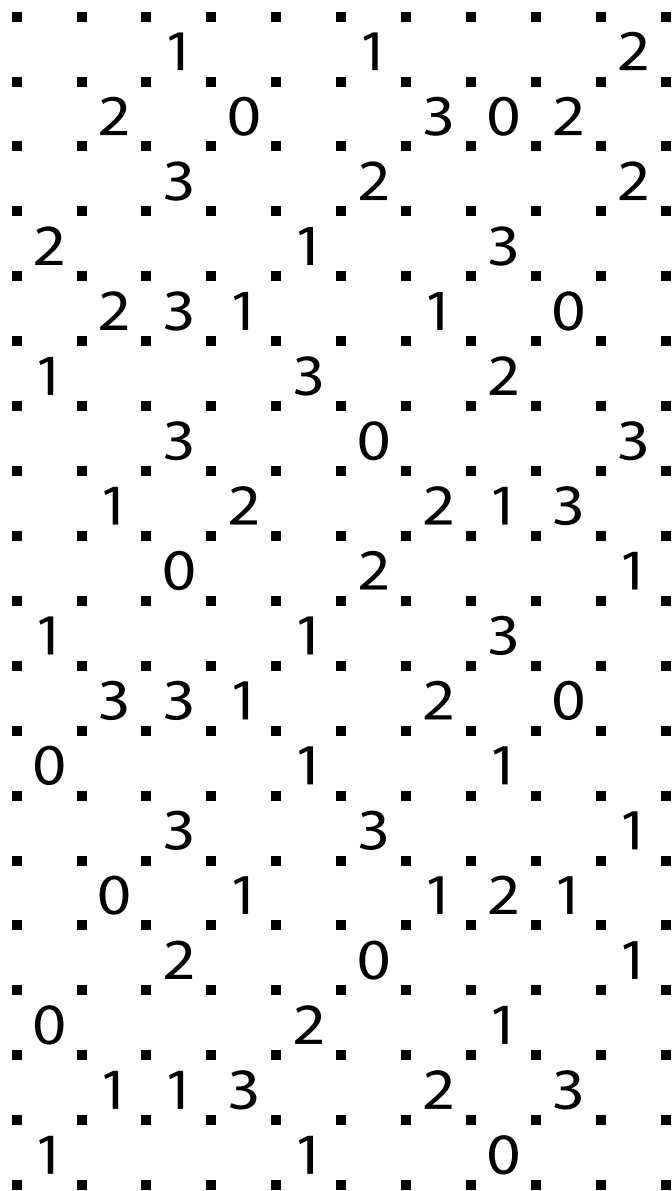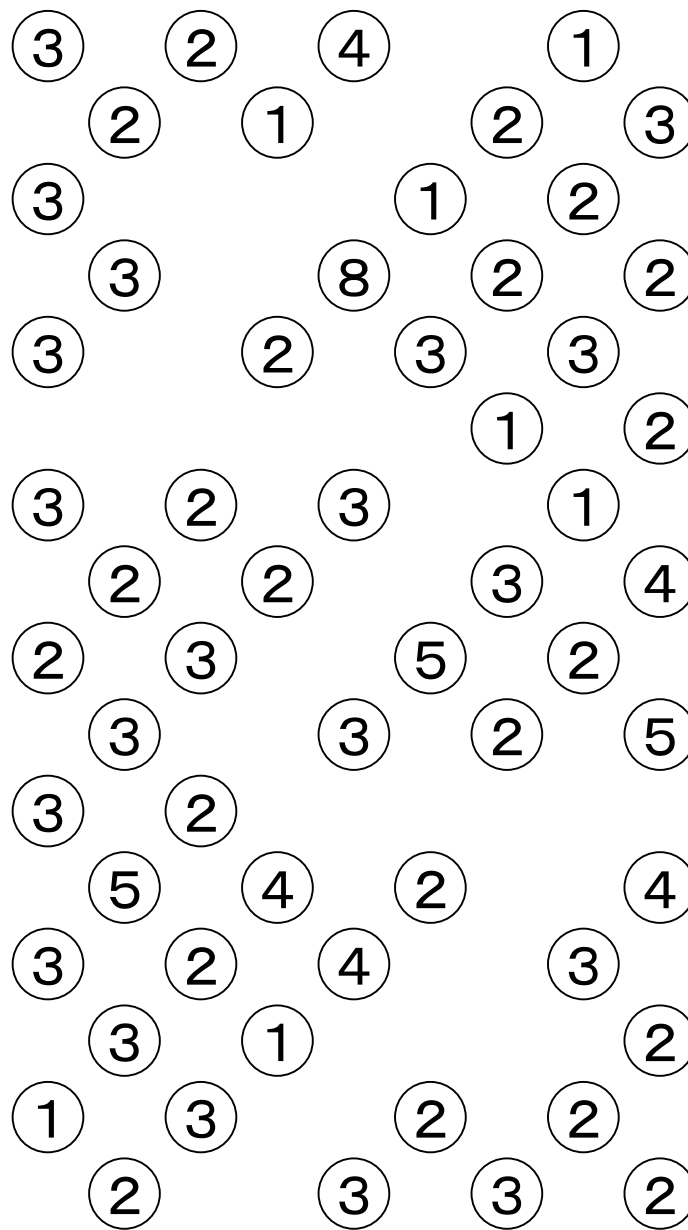
18 Sudoku

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

19 Sudoku

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

20 Bridges

② ① ① ② ③ ①
③ ② ② ② ③
② ② ② ②
③ ① ③ ② ②
③ ② ③ ⑥ ③
⑤ ④ ① ② ②
④ ④ ④
② ③ ③ ③ ②
③ ④ ①
② ② ① ③
② ① ① ②
③ ① ③ ④
④ ③ ⑤ ①
③ ③ ④
① ③ ② ① ③
② ④ ②
③ ③ ③ ② ④
② ③ ① ② ②
③ ② ⑦ ③ ③
④ ② ① ②
② ① ④ ③ ②
② ② ③ ③ ② ③

21 Bridges

22 Slitherlink

```
.   . 2 . 2 . 1 . 1 . 3 . 1 . 1 . 3 .   . .
                                         3
.   . 3 . 2 . 0 . 2 . 0 . 2 . 1 . 2 .   . .
 1
.   . 3 . 3 . 2 . 1 . 2 . 2 . 2 . 3 .   . .
                                           1
.   . 3 . 1 . 1 . 0 . 2 . 3 . 2 . 2 .   . .
 2
.   . 3 . 1 . 2 . 3 .   .   .   .   .   . .
                         . 2 . 1 . 3 . 3 .
.   .   .   .   .   .                     0
.   . 3 . 2 . 0 . 2 . 2 . 3 . 1 . 1 .   . .
 2
.   . 2 . 3 . 1 . 0 . 3 . 1 . 1 . 3 .   . .
                                         1
.   . 2 . 2 . 2 . 2 . 2 . 2 . 2 . 2 .   . .
 1
.   . 3 . 1 . 3 . 1 . 2 . 2 . 1 . 2 .   . .
```
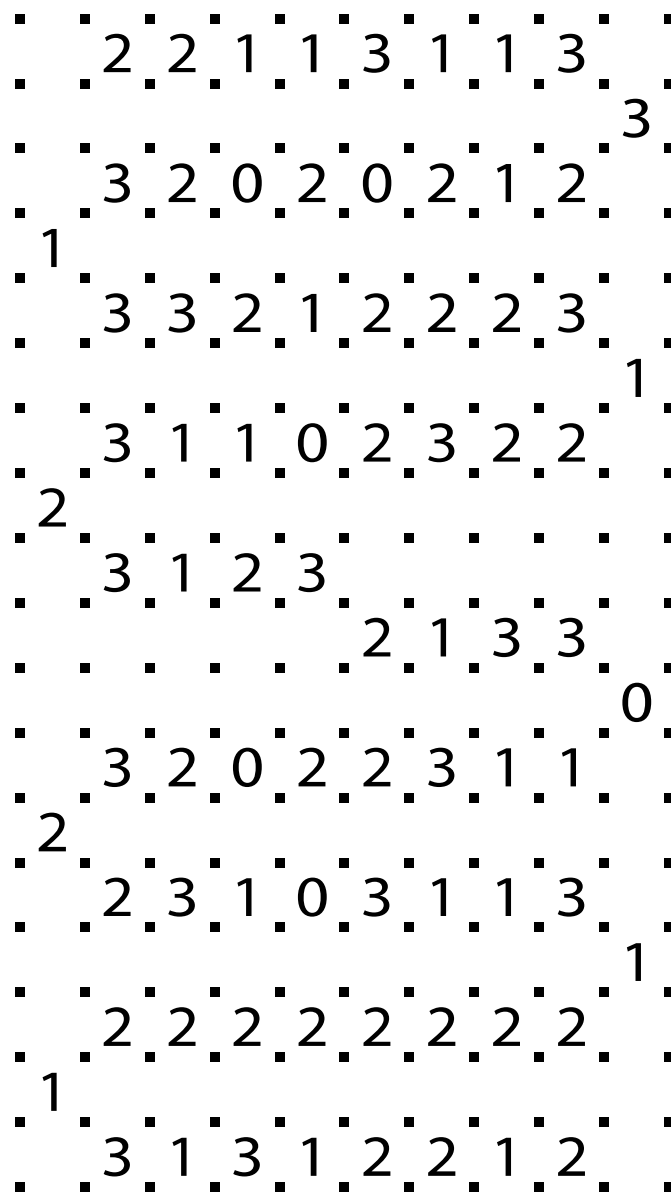
23 Sudoku

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

24 Slitherlink

25 Bridges

②　　②　　③　②　④　②
　③　　　④　③　①　①
　②　　②　②　③　③
②　　　　③　　　　③
　③　③　②　③　③
　③　　②　③　　②
③　②　　③　　②　③
　③　　③　④　③
　②　③　　③　　②
④　③　②　②　③
　③　③　②　　③
　③　　③　②　③
⑤　②　　③　②　③
　②　　②　③　④
　②　②　②　③
③　①　②　②　⑤
　④　③　②　　②
　②　①　②　⑤　③
②　　　②　　③
　③　②　②　③　②
　②　③　③　③　②
③　④　③　③　③　③
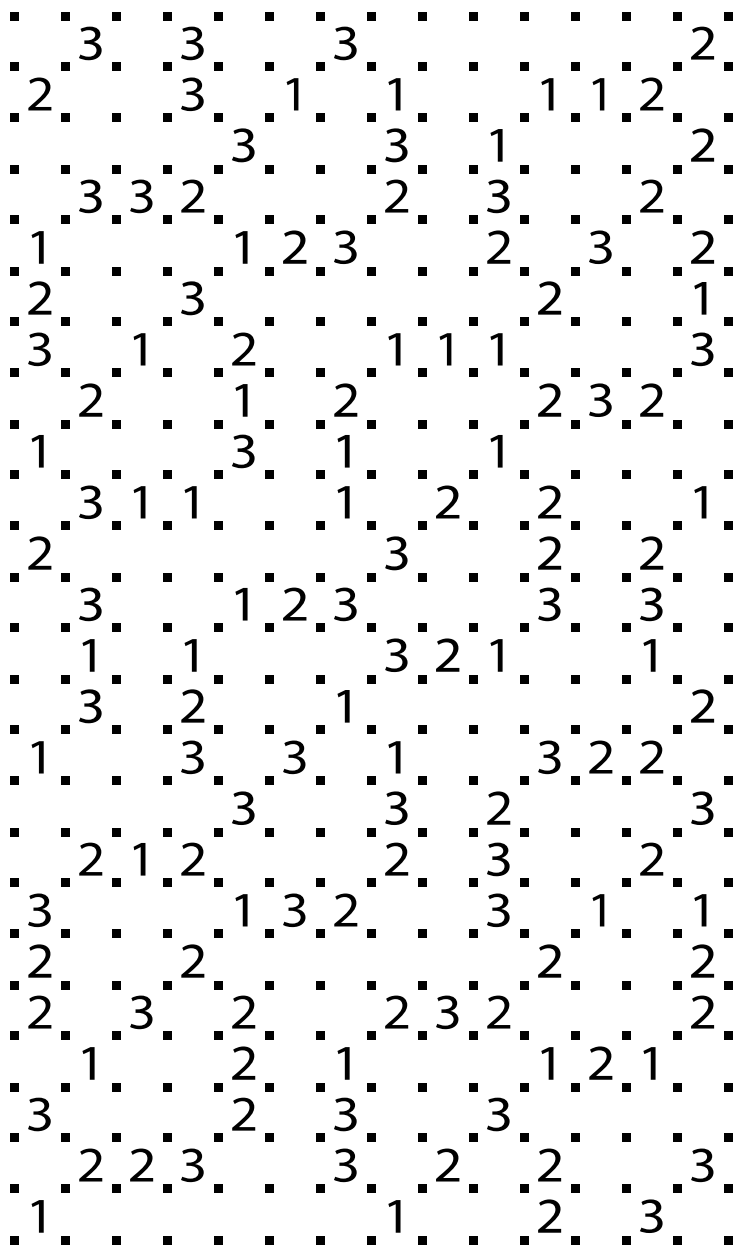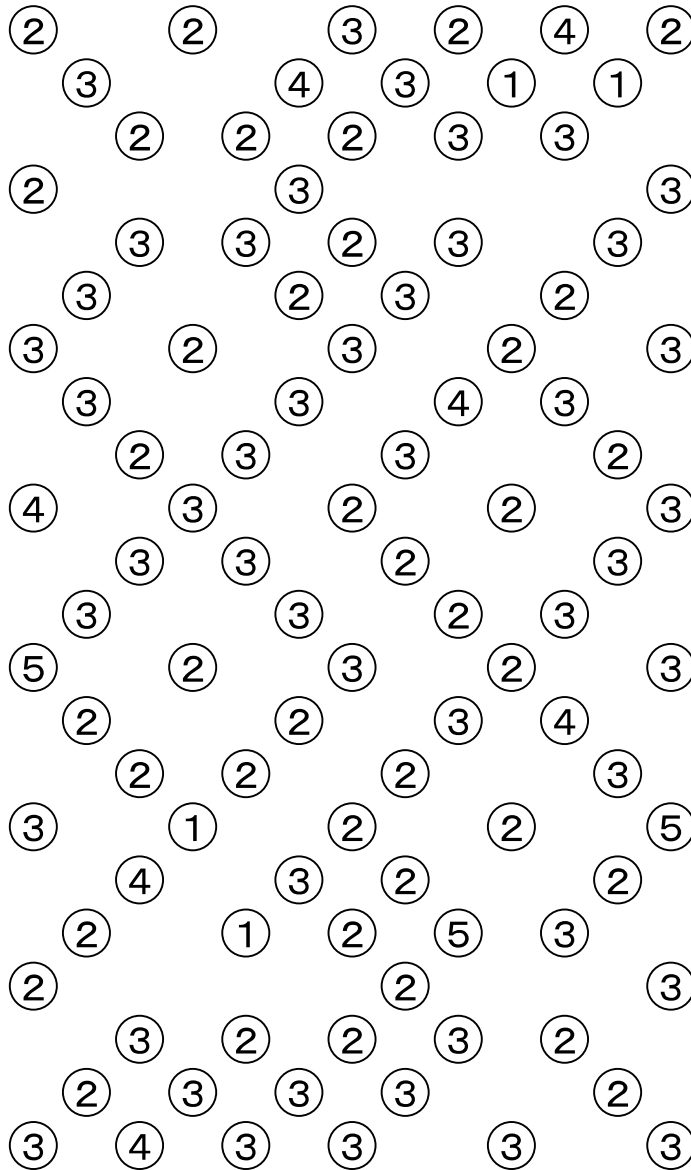
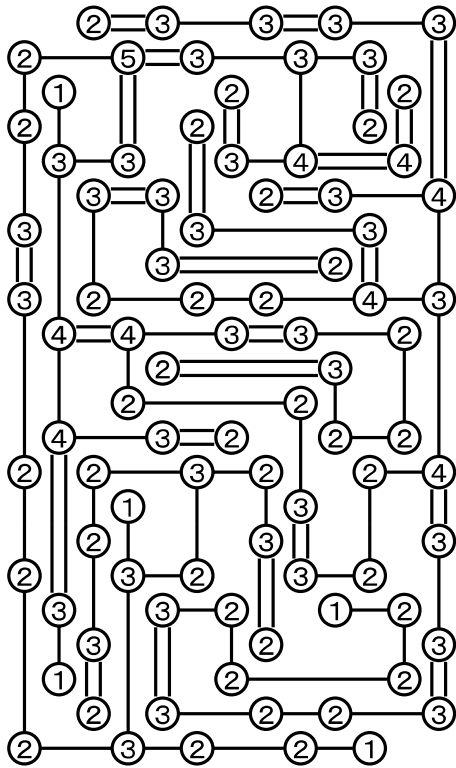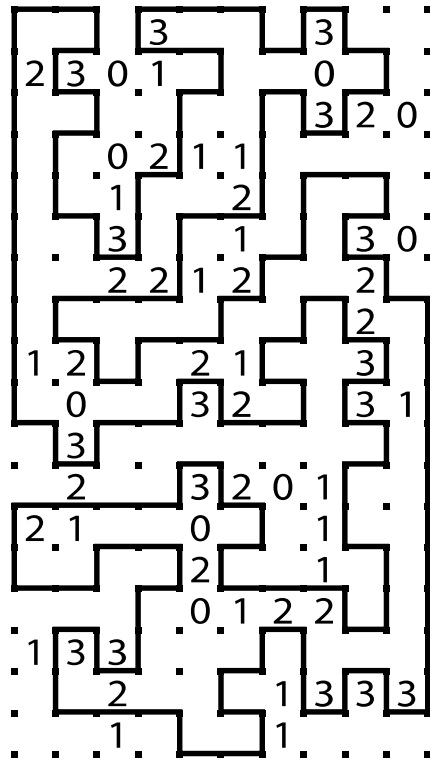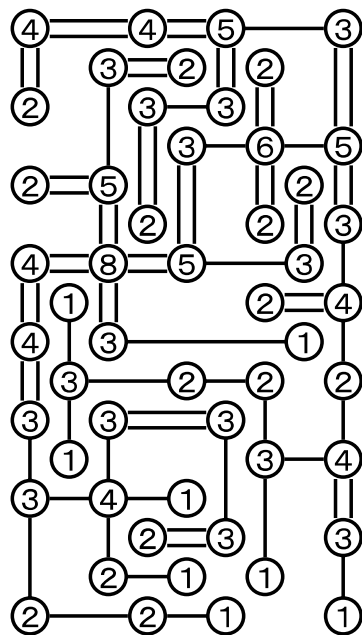## 26 Sudoku

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

27 Slitherlink

```
.  .  .  .  .  .  .  .  .  .
.  .  1  .  .  1  .  .  .  2 .
.  .  .  .  .  .  .  .  .  .  .
.  2  .  0  .  .  3  0  2  .
.  .  .  .  .  .  .  .  .  .  .
.  .  3  .  .  2  .  .  .  2 .
.  2  .  .  .  1  .  .  3  .
.  .  .  .  .  .  .  .  .  .  .
.  2  3  1  .  .  1  .  0  .  .
.  1  .  .  3  .  .  2  .  .
.  .  .  .  .  .  .  .  .  .  .
.  .  3  .  .  0  .  .  .  3 .
.  1  .  2  .  .  2  1  3  .
.  .  .  .  .  .  .  .  .  .  .
.  .  0  .  .  2  .  .  .  1 .
.  1  .  .  1  .  .  3  .  .
.  .  .  .  .  .  .  .  .  .  .
.  3  3  1  .  .  2  .  0  .  .
.  0  .  .  1  .  .  1  .  .
.  .  .  .  .  .  .  .  .  .  .
.  .  3  .  .  3  .  .  .  1 .
.  0  .  1  .  .  1  2  1  .
.  .  .  .  .  .  .  .  .  .  .
.  2  .  .  0  .  .  .  1  .
.  0  .  .  .  2  .  .  1  .  .
.  .  .  .  .  .  .  .  .  .  .
.  1  1  3  .  .  2  .  3  .
.  1  .  .  .  1  .  .  0  .  .
.  .  .  .  .  .  .  .  .  .
```

28 Bridges

③　②　④　　①

　②　①　　②　③

③　　　①　②

　③　　⑧　②　②

③　　②　③　③

　　　　①　②

③　②　③　①

　②　②　③　④

②　③　⑤　②

　③　③　②　⑤

③　②

　⑤　④　②　④

③　②　④　③

　③　①　②

①　③　②　②

　②　③　③　②

29 Slitherlink

```
  2 1   0 1   3 3
   3 3     1 2
 1                 3
   3   2 0 3 2   3
 2                 0
     2 2     0 2
     3 3         3 3
         3 1
 0 2   3     1     2 2
 2 3   2     2   0 3
         1 3
     3 3         1 1
       1 3     2 1
 1                   1
     2   1 1 3 3   1
 3                   3
       2 1     2 1
     3 3   1 2   0 2
```

30 Bridges

③ ③ ④ ②

② ② ③ ① ②

③ ③ ③ ②

③ ② ③ ④

② ② ③

① ③ ③

④ ② ②

② ③ ③

① ②

② ③ ④ ④

①

④ ③ ③ ②

③ ② ④

② ② ③ ①

② ② ③ ① ②

② ② ④ ①
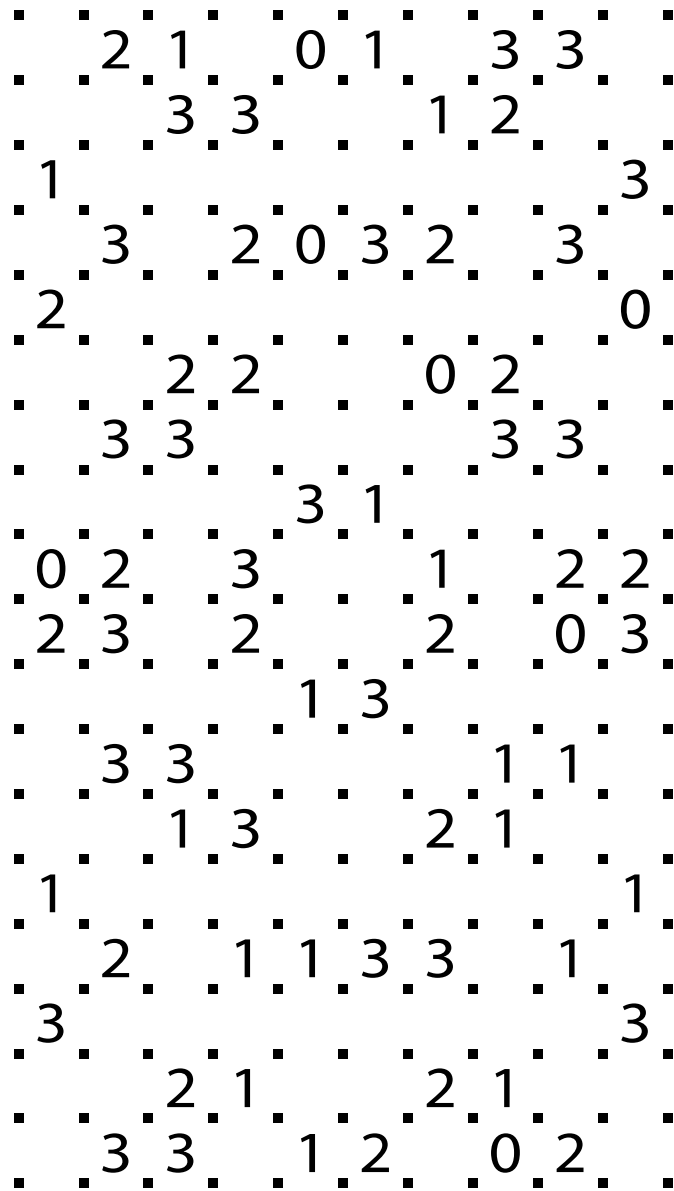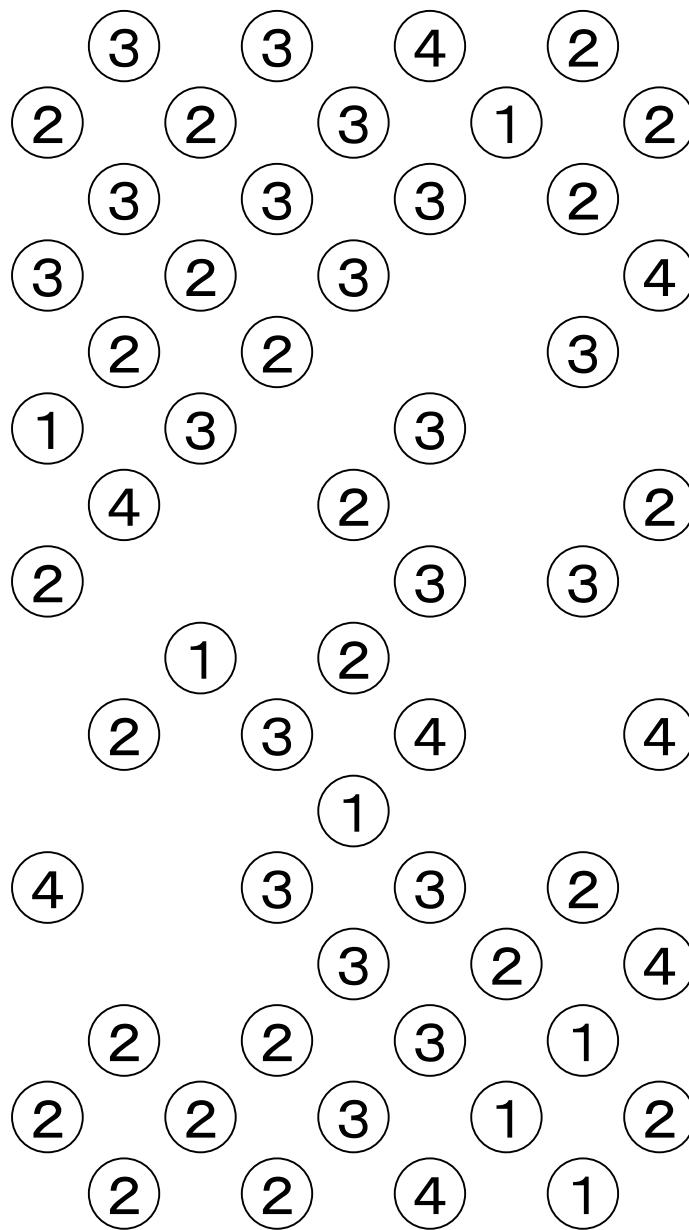
1 Sudoku

|								
9	2	3	7	4	6	5	8	1
6	8	5	3	9	1	4	7	2
1	7	4	2	5	8	3	9	6
3	9	1	6	7	2	8	5	4
7	5	2	8	3	4	6	1	9
4	6	8	9	1	5	7	2	3
2	4	9	5	8	3	1	6	7
8	3	7	1	6	9	2	4	5
5	1	6	4	2	7	9	3	8

2 Sudoku

|								
1	2	6	5	7	3	4	9	8
8	9	7	1	2	4	6	5	3
5	4	3	6	8	9	7	1	2
6	8	9	7	1	5	3	2	4
3	1	2	4	6	8	5	7	9
4	7	5	3	9	2	1	8	6
7	5	8	9	3	6	2	4	1
9	6	1	2	8	4	7	3	5
2	3	4	8	5	1	9	6	7

3 Slitherlink

4 Sudoku

2	1	3	5	6	9	7	8	4
5	7	6	8	3	4	1	2	9
9	8	4	2	1	7	3	5	6
1	6	9	7	5	2	4	3	8
3	4	7	6	8	1	2	9	5
8	2	5	9	4	3	6	7	1
7	9	8	1	2	6	5	4	3
4	5	1	3	7	8	9	6	2
6	3	2	4	9	5	8	1	7
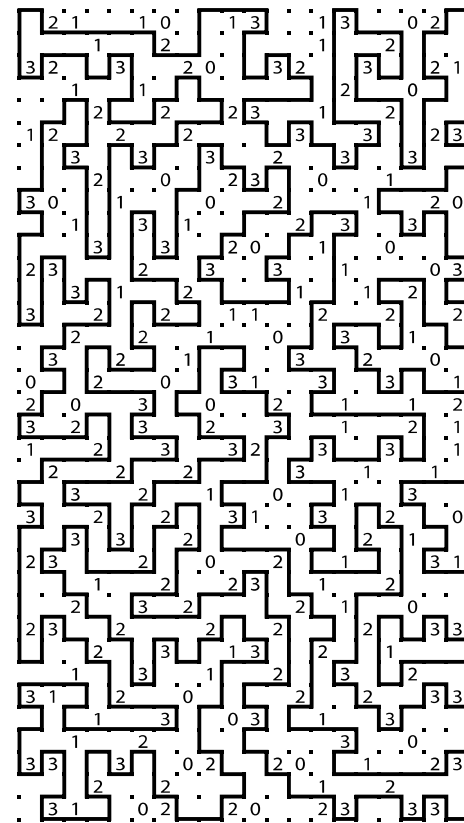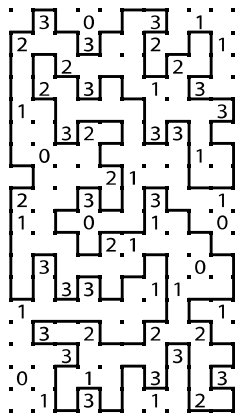
5 Slitherlink
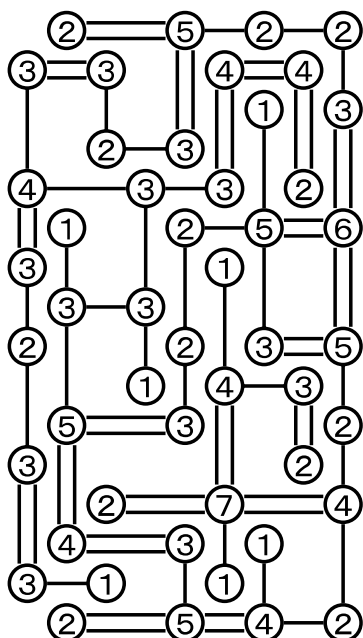
6 Bridges

7 Bridges
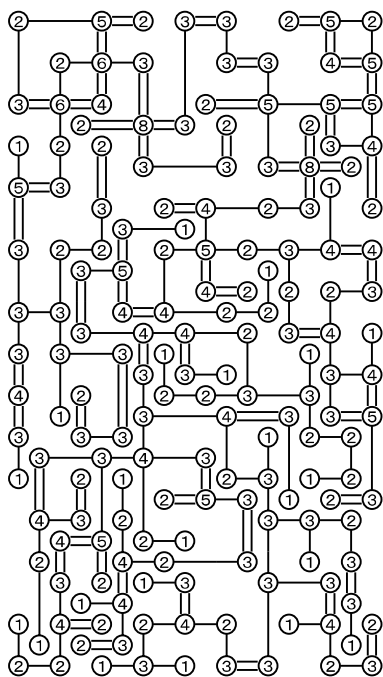
8 Slitherlink
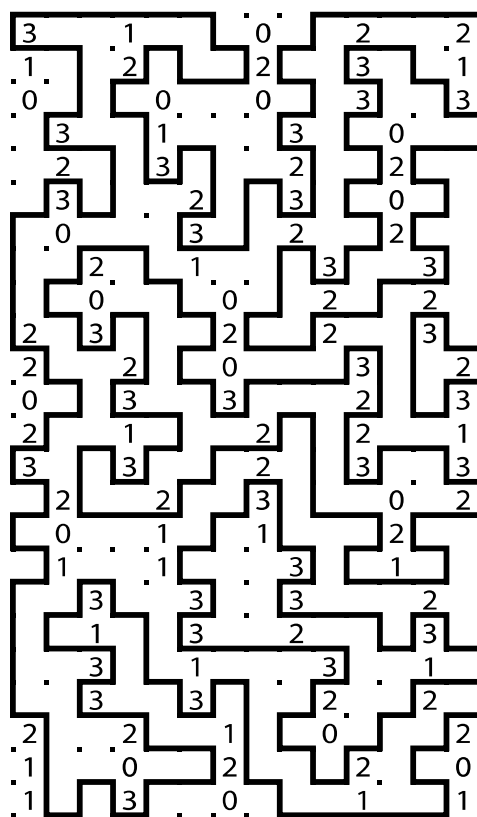
9 Sudoku

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

Japanese Answers

10 Bridges

12 Slitherlink

11 Sudoku

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

13 Sudoku

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

14 Bridges

16 Slitherlink
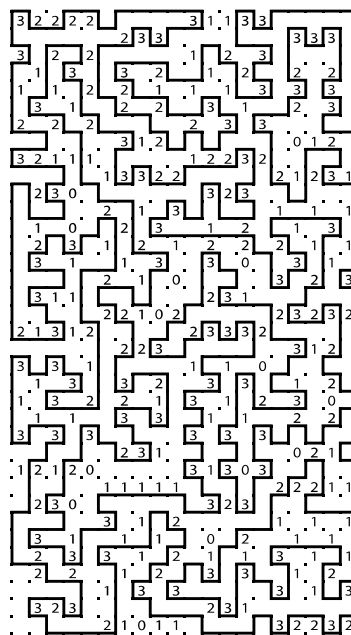
15 Bridges
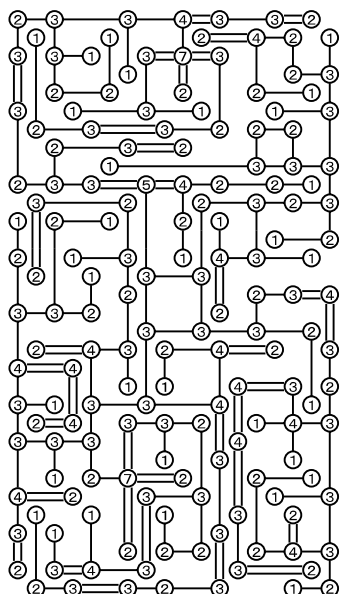
17 Slitherlink
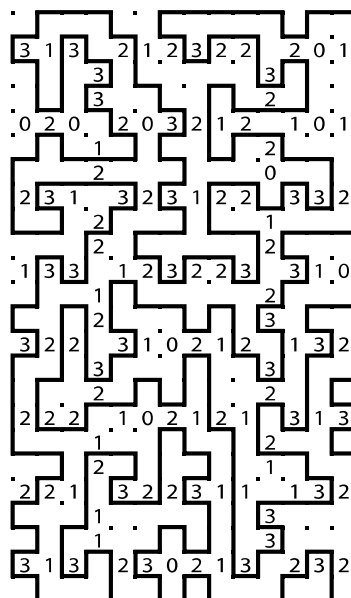
Japanese Answers

18 Sudoku

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

19 Sudoku

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

20 Bridges
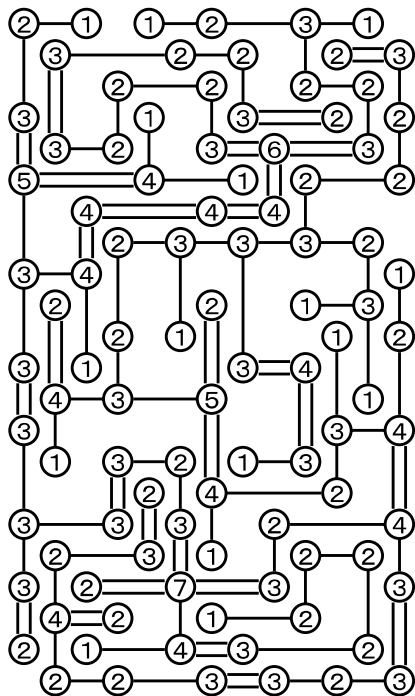
21 Bridges
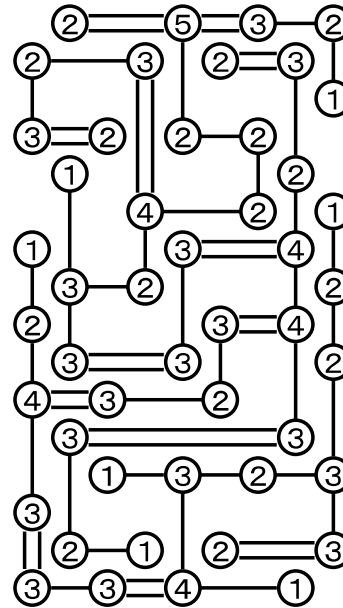
22 Slitherlink
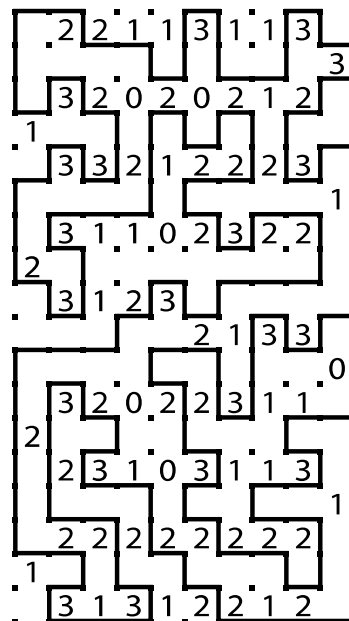
23 Sudoku

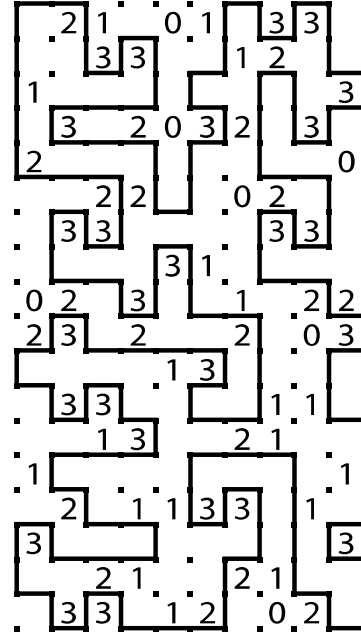| 5	2	4	1	8	9	7	6	3
7	3	1	2	6	4	8	9	5
8	6	9	5	7	3	2	4	1
3	8	2	7	4	6	5	1	9
1	4	6	9	2	5	3	7	8
9	7	5	3	1	8	6	2	4
2	1	8	4	3	7	9	5	6
4	5	3	6	9	2	1	8	7
6	9	7	8	5	1	4	3	2

24 Slitherlink
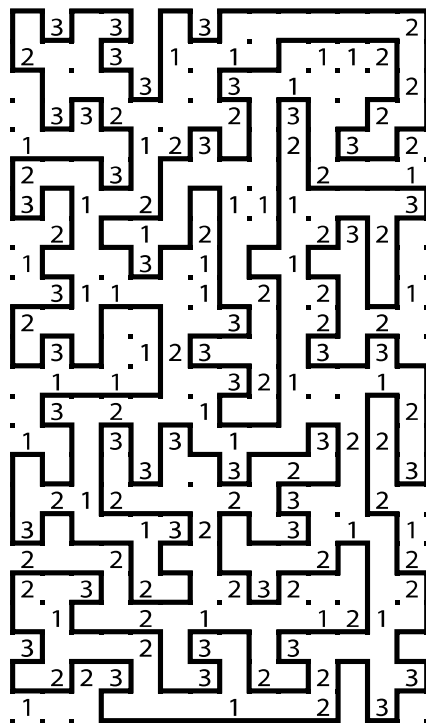
25 Bridges
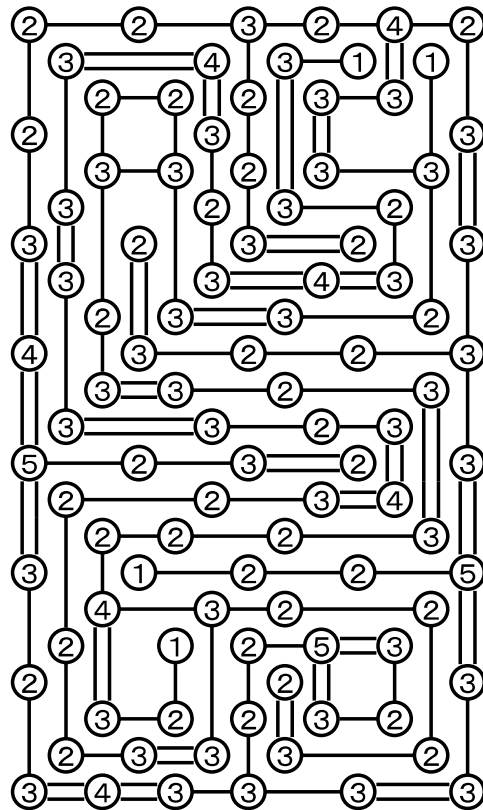
26 Sudoku

3	7	8	2	4	5	6	9	1
2	4	6	1	3	9	7	8	5
5	1	9	7	6	8	3	4	2
6	9	4	5	2	1	8	7	3
7	8	5	6	9	3	2	1	4
1	3	2	8	7	4	9	5	6
8	6	7	4	1	2	5	3	9
4	2	3	9	5	7	1	6	8
9	5	1	3	8	6	4	2	7
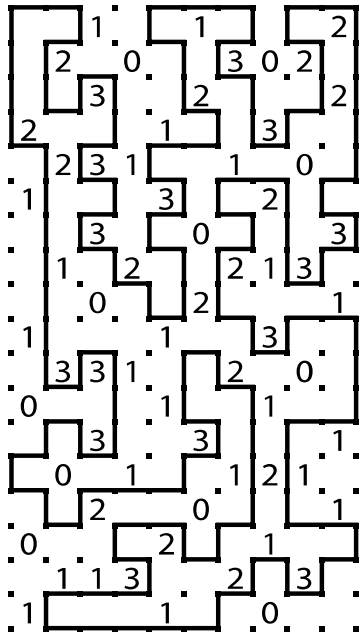
27 Slitherlink

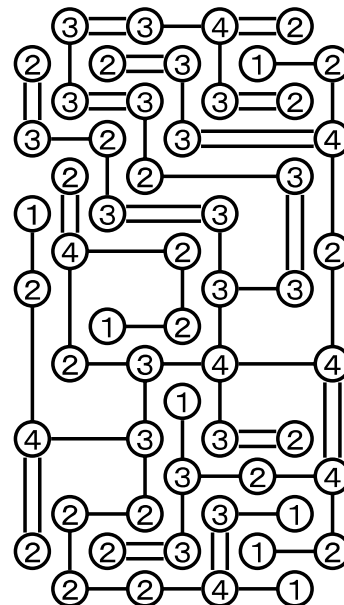**29 Slitherlink**

28 Bridges
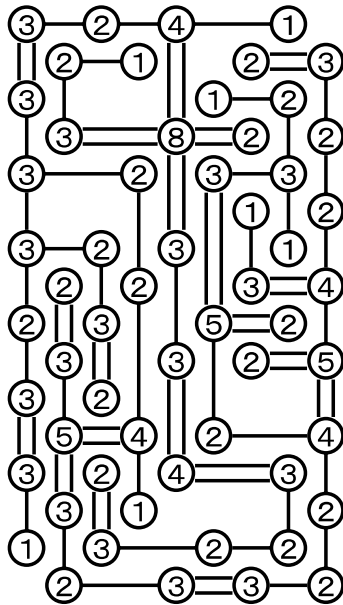
30 Bridges

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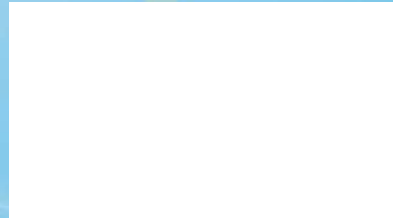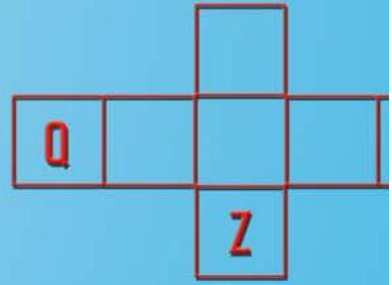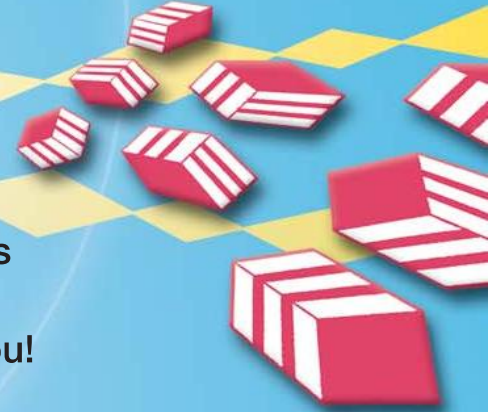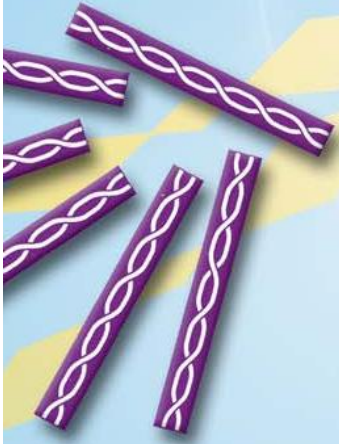
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