



Name

Number

WCPN Dutch Puzzle Championships 2018

Saturday June 9th, 2018

Part I - Classic

25 minutes

puzzle	points	
1 Loop	20	<input type="text"/>
2 Rectangles	20	<input type="text"/>
3 Domino	35	<input type="text"/>
4 No four in a row	50	<input type="text"/>
5 Double block	65	<input type="text"/>
6 Tents	60	<input type="text"/>
	250	<input type="text"/>

ORTEC

OPTIMIZE YOUR WORLD

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Part I - Classic

1 LOOP

Draw a single non-intersecting loop that connects the centers of some of the grid cells. The numbered cells can not be passed through. The numbers in cells indicate how many of the eight surrounding cells are part of the loop.

		5			5				
									2
		6		6					3
5								7	
				5	7		7		
5		7				7			
					7			8	

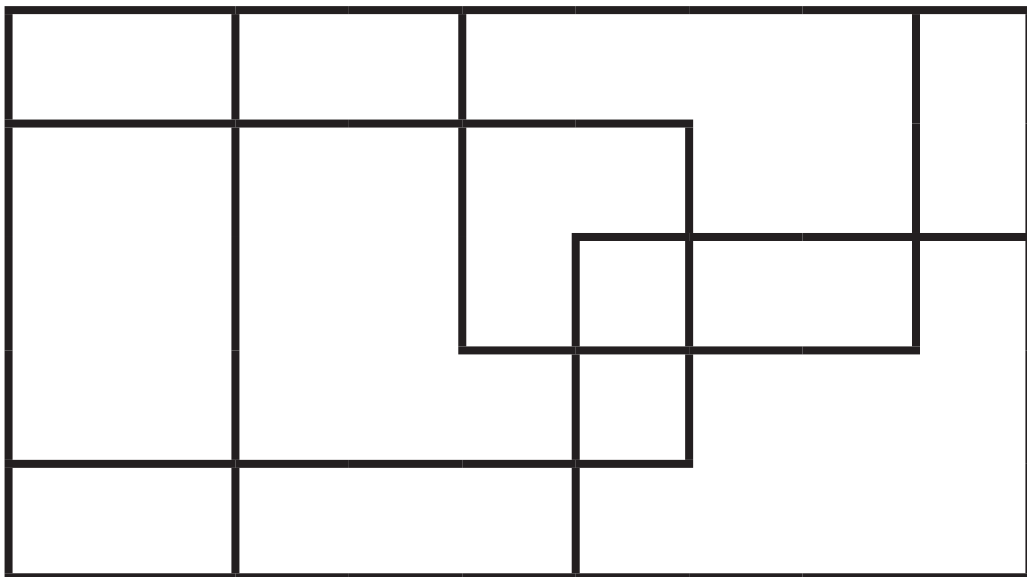
20
points

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Part I - Classic

2 RECTANGLES

How many rectangles can be found in the drawing? A square is also a rectangle.



Score:

20 points	for correct answer
5 points	for one rectangle less or more
0 points	for two rectangles less or more
0 points	for no answer
-10 points	for three or more rectangles less or more

20
points

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3 DOMINO

A complete set of dominoes is placed in the grid. The boundaries are all removed and the number of pips is indicated by digits. Draw the boundaries so that the complete set of dominoes is shown.

0	1	6	4	3	2	6	2
0	1	5	0	6	1	1	1
5	2	3	4	6	0	5	5
6	2	3	2	5	3	4	1
4	1	4	1	5	0	4	2
3	3	3	0	2	5	4	6
3	6	0	5	2	6	0	4

00
01 11
02 12 22
03 13 23 33
04 14 24 34 44
05 15 25 35 45 55
06 16 26 36 46 56 66

35
points

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4 NO FOUR IN A ROW

Fill every cell in the grid with 'X' or 'O' such that four consecutive 'X's and 'O's do not appear horizontally, vertically or diagonally.

X	X	O	O	X			X	X	O
O	O	X			X			X	
	X	O						O	X
O		X		X					O
								X	
	X	X		X		X		X	X
	X								
X		X				O			
	X		X					X	X
X	O		O			O	X	X	O

50
points

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5 DOUBLE BLOCK

Blacken exactly two cells in each row and each column of the grid. Place digits 1-5 on each row and column. Numbers outside the grid indicate the sum of the digits between the two black cells in the corresponding row or column.

	12	3	2	13	10	2	8
3							
5							
2							
7							
6							
2							
8							

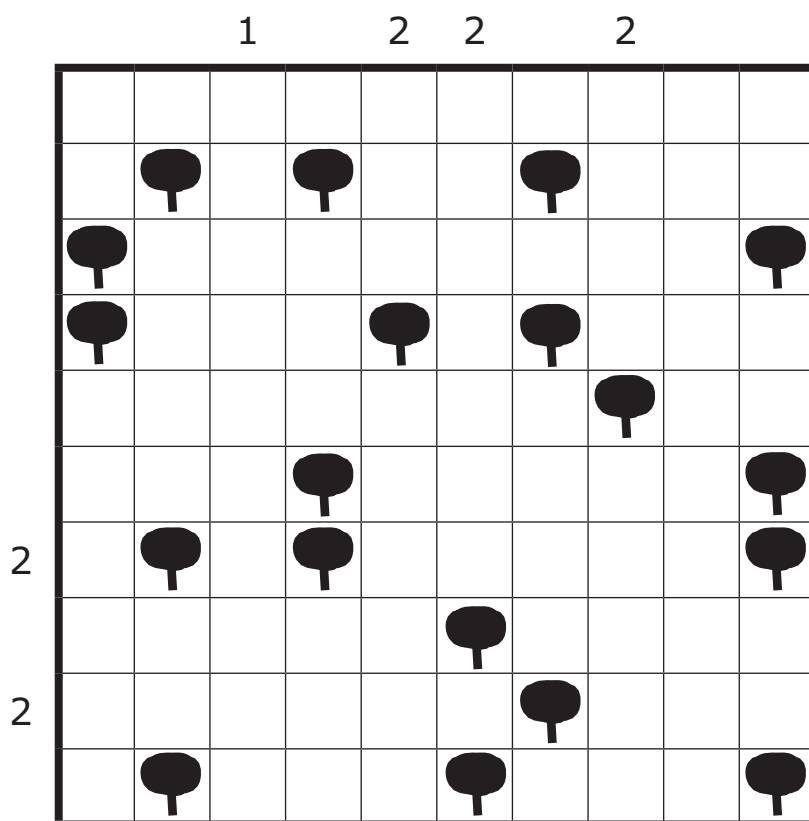
65
points

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6 TENTS

Attach a tent to each tree, in a horizontally or vertically adjacent cell. Cells with tents do not touch each other, not even diagonally. Numbers outside the grid indicate the number of tents in that row or column.

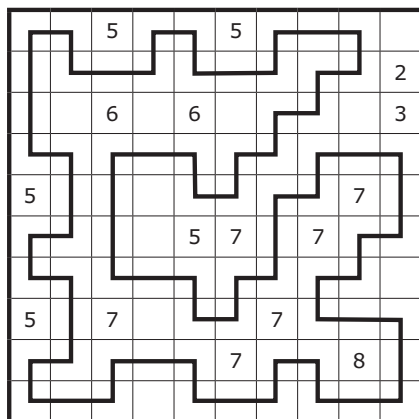


60
points

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Part I - Classic - solutions

1 LOOP



2 RECTANGLES

23 rectangles

3 DOMINO

0	1	6	4	3	2	6	2
0	1	5	0	6	1	1	1
5	2	3	4	6	0	5	5
6	2	3	2	5	3	4	1
4	1	4	1	5	0	4	2
3	3	3	0	2	5	4	6
3	6	0	5	2	6	0	4

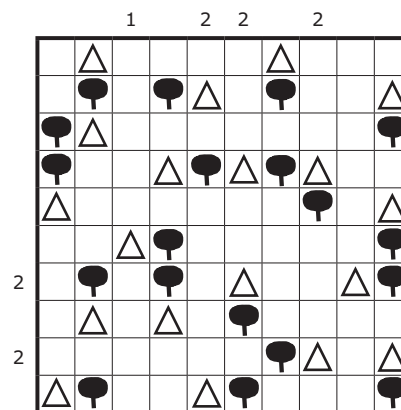
4 NO FOUR IN A ROW

X	X	O	O	X	X	O	X	X	O
O	O	X	X	O	X	O	X	X	X
X	X	O	O	X	O	X	O	O	X
O	O	X	X	X	O	X	O	O	O
O	X	O	O	O	X	O	X	X	X
O	X	X	O	X	X	X	O	X	X
X	X	X	O	X	O	X	O	X	O
X	O	X	X	O	X	O	O	O	X
O	X	O	X	O	X	O	X	X	X
X	O	X	O	O	X	O	X	X	O

5 DOUBLE BLOCK

	12	3	2	13	10	2	8
3	1	■	3	■	5	4	2
5	2	1	4	3	■	5	■
2	■	2	■	5	4	1	3
7	3	■	2	4	1	■	5
6	5	4	■	1	3	2	■
2	4	3	5	■	2	■	1
8	■	5	1	2	■	3	4

6 TENTS



Puzzle design:
Hns Eendebak
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