

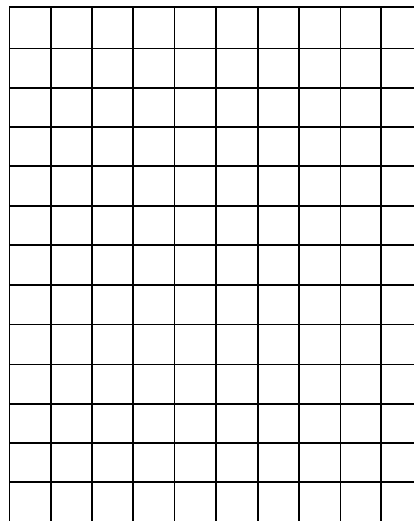


Pictorial & Optimization Puzzles (Week 4)

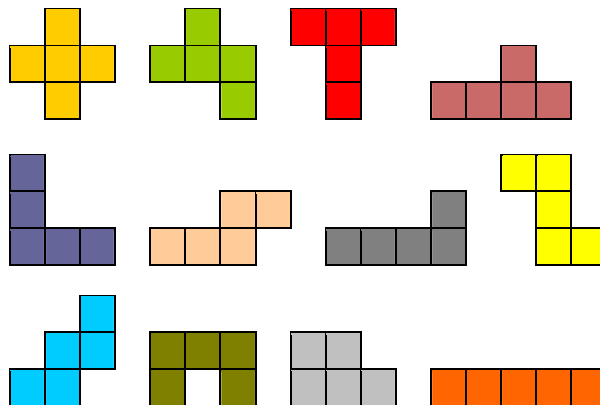
Pictorial Puzzle

2-12-27-43-68-104-?

Optimization Puzzle



Place 12 pentominos below into the grid above, by using each of them at least once. Each row and column must have at least one pentomino unit and at least one empty cell.

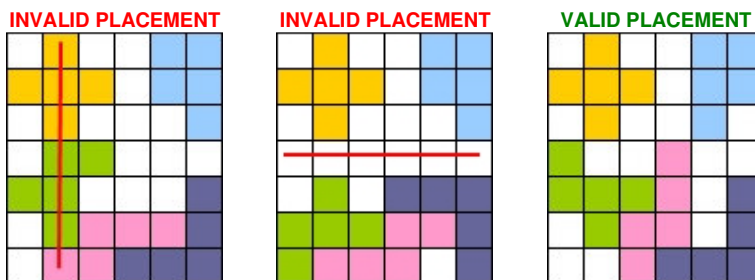




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To facilitate the checking of your solution, please use the pentominos with their own colours, as shown above.



After finished the placement;

Write a number into the empty cells whose at least one of the edges is neighbour with any pentomino. This number is the total computed by moving in the four directions and counting the cells before you reach another blank cell, or a different pentomino, or the edge of the grid.

(Analyze the sample solutions, carefully!)

If four edges of a cell are empties, paint that cell black.

SCORE CALCULATION:

Create new numbers, by using the numbers at a row: Write them side by side and in ascending order, to the side of the relevant rows.

For example,

if the numbers at a row are 4, 6, 3 and 2, then write 2346 to side of that row.

Or if the numbers at a row are 5, 10, 3 and 7, then write 35710 to side of that row.

After then, sum these numbers one under the other.

For each of the black cells, divide this sum by 5, and find your real score.

If, there is no black cell in the grid, multiply this sum by 5, and find your real score.

(Analyze the sample score calculations, carefully!)

SAMPLE SCORE CALCULATIONS:

	222	2	2	2		
	5			5		
	2344	4	2	4		3
	2346	6	2	4	3	
	2				2	
	34	3		4		
+	3	3				
	4956					
	/ 5 = 991					

SCORE: 991

	222	2	2	2		
	6			6		
	35	3		5		
	46			4	6	
	134	4	3		1	
	24			4	2	
+	35	3	5			
	502					
	/ 5 / 5 = 20					

SCORE: 20



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234	2		4			3
9				9		
223	2		3			2
33345	3	5	3		4	3
3					3	
25				5	2	
+ 35		3	5			

$33874 \times 5 = 169370$

SCORE: 169370