WPF SUDOKU/PUZZLE GRAND PRIX 2015

WPF PUZZLE GP 2015 COMPETITION BOOKLET

ROUND 4

Puzzle authors:
Netherlands

Hans Eendebak
Richard Stolk

Organised by

WORLD PUZZLE FEDERATION

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Points:

1.	**Battleships**	16
2.	**Battleships**	33
3.	**Battleships**	28
4.	**Sum Battleships**	11
5.	**Sum Battleships**	12
6.	**Sum Battleships**	30
7.	**Star Battle**	7
8.	**Star Battle**	11
9.	**Star Battle**	14
10.	**Star Wars**	23
11.	**Star Wars**	23
12.	**Star Wars**	34
13.	**Pento-slitherlink**	12
14.	**Pento-slitherlink**	14
15.	**Pento-slitherlink**	15
16.	**Pento-blokus**	14
17.	**Pento-blokus**	17
18.	**Pento-blokus**	34
19.	**Neighbors**	13
20.	**Neighbors**	33
21.	**Neighbors**	46
22.	**Sky-neighbors**	46
23.	**Sky-neighbors**	61
24.	**Sky-neighbors**	53

TOTAL: 600

General Notes: No special notes for this round.

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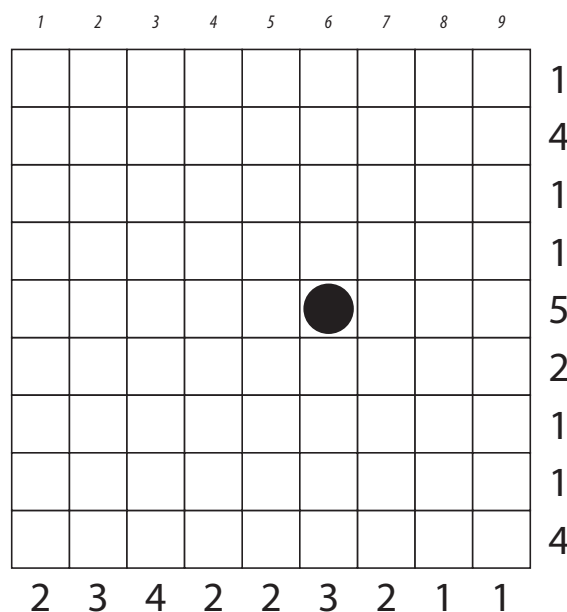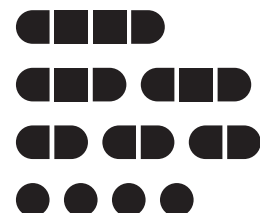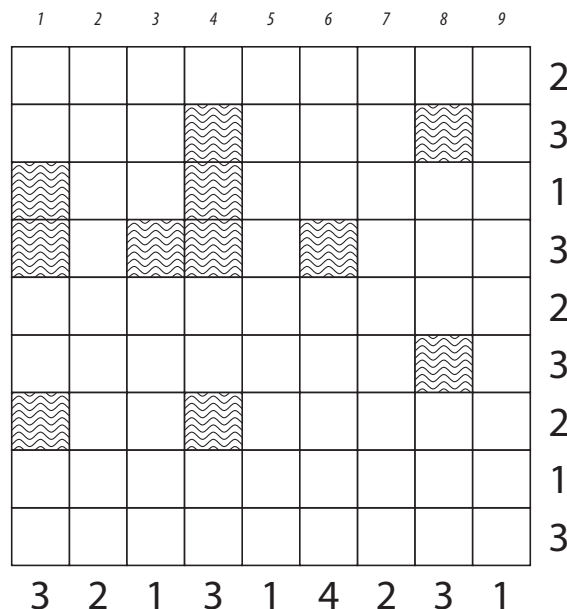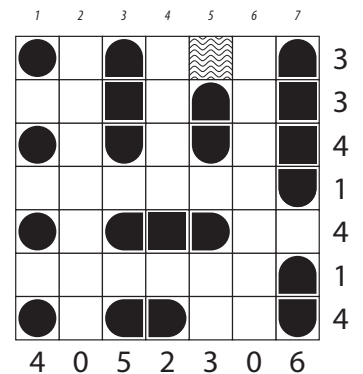## 1-2. Battleships [Hans Eendebak] (16, 33 points)

Locate the indicated fleet of ships in the grid. Each ship piece occupies a single cell. Ships can be rotated. Ships do not touch each other, not even diagonally (that is, if two ship pieces are in touching cells, they must be part of the same ship). The contents of some cells are given for you, which may include "sea" (spaces that do not have ship pieces).

Each number to the right and bottom of the grid reveals the number of ship pieces that must be located in that row or column (including any that might be given for you).

The numbers on top of the diagram are for Answer purposes only.

Answer: For each row from top to bottom, enter the number of the first column from the left where a ship piece appears (the number on top of that column). Use only the last digit for two-digit numbers; e.g., use '0' if the first ship piece appears in column 10. If the row is empty, enter '0'.
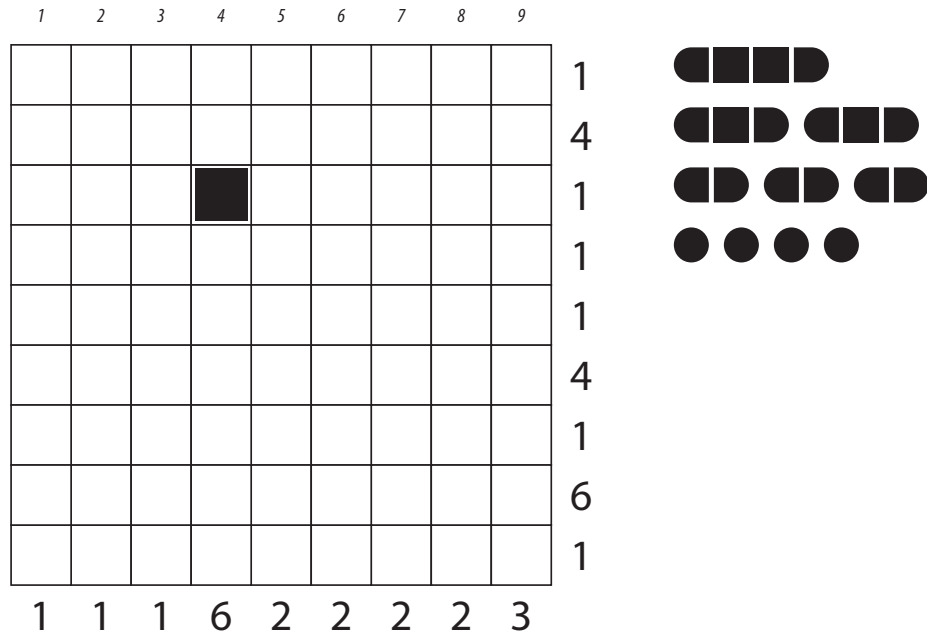
Example Answer: 1317171
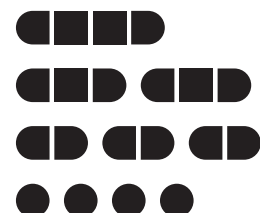
3. Battleships [Hans Eendebak] (28 points)

See previous page for instructions.

4. Sum Battleships [Hans Eendebak] (11 points)

Locate the indicated fleet of ships in the grid. Each ship piece occupies a single cell. Ships can be rotated. Ships do not touch each other, not even diagonally (that is, if two ship pieces are in touching cells, they must be part of the same ship).

Each number to the right and bottom of the grid reveals the sum of the numbers in the same cells as the ship pieces in that row or column.

Answer: For each row from top to bottom, enter the number in the cell where the left-most ship piece appears. If the row is empty, enter '0'. (**Do not enter the column number, like in normal Battleships puzzles!**)

Example Answer: 5143658

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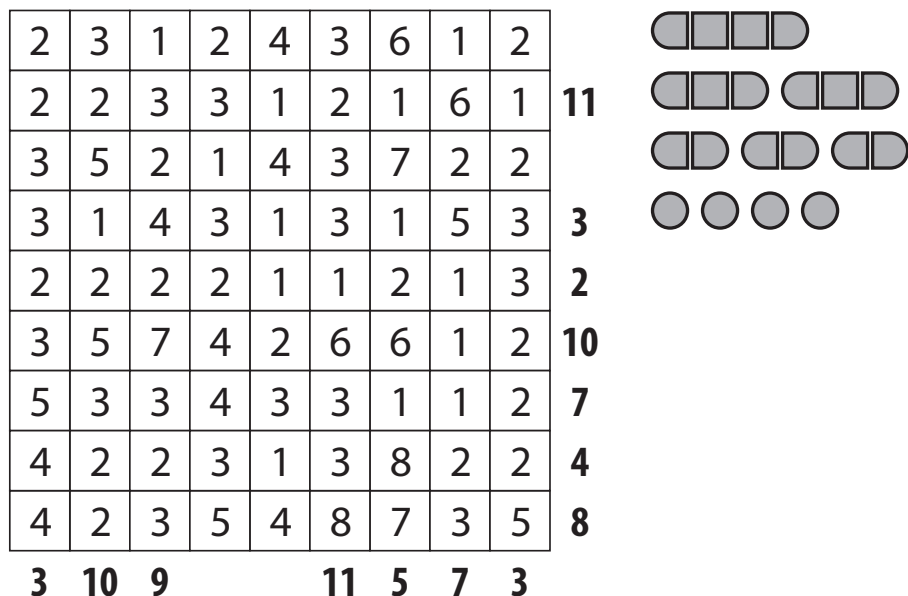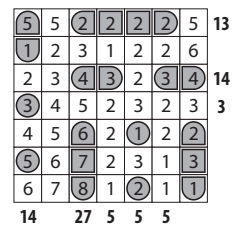
## 5-6. Sum Battleships [Hans Eendebak] (12, 30 points)

Answer: For each row from top to bottom, enter the number in the cell where the left-most ship piece appears. If the row is empty, enter '0'. (***Do not enter the column number, like in normal Battleships puzzles!***)
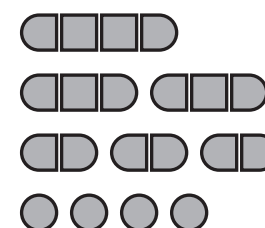
Example Answer: 5143658

5	5	2	2	2	2	5	13
1	2	3	1	2	2	6	
2	3	4	3	2	3	4	14
3	4	5	2	3	2	3	3
4	5	6	2	1	2	2	
5	6	7	2	3	1	3	
6	7	8	1	2	1	1	
14	27	5	5	5			

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

1 **4**   **5** **8** **2** **7**
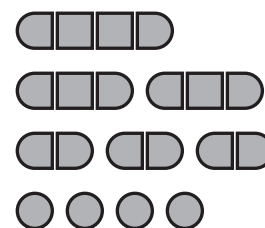
6	6	6	8	4	6	6	7	6	
2	3	8	4	5	1	7	5	1	
5	2	1	7	2	3	4	8	8	
8	6	5	2	4	3	1	8	4	**3**
8	4	7	5	5	5	4	5	8	**17**
1	8	8	1	4	5	3	4	3	**3**
1	5	3	4	8	1	6	8	2	
7	1	1	4	7	6	6	6	7	**12**
1	1	5	6	8	4	4	5	2	

9 **9** **11** **15**   **6** **15** **6** **4**

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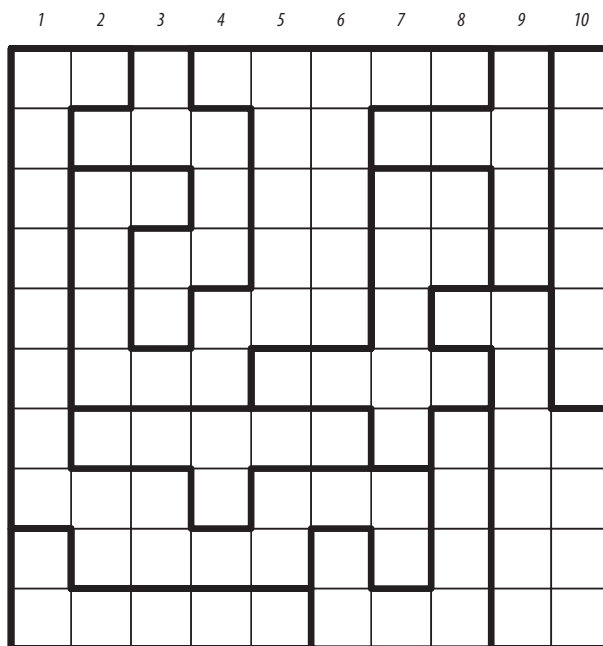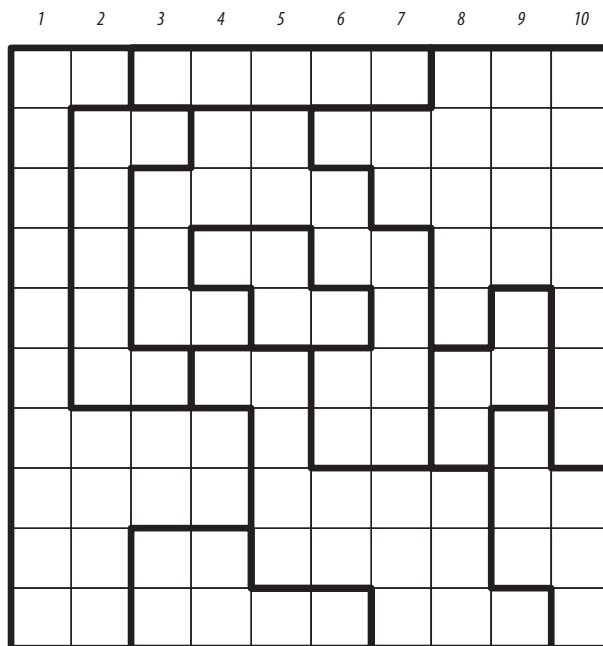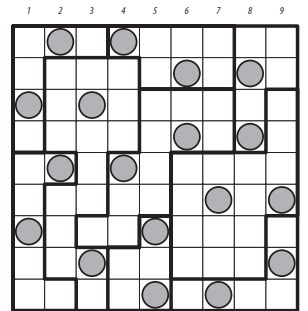2015

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7-8. Star Battle [Richard Stolk, Hans Eendebak] (7, 11 points)

Place stars into some cells in the grid, no more than one star per cell. Each row, each column, and each outlined region must contain exactly two stars. Cells with stars may not touch each other, not even diagonally.

The numbers on top of the diagram are for Answer purposes only.

Answer: For each row from top to bottom, enter the number of the first column from the left where a star appears (the number on top of that column). Use only the last digit for two-digit numbers; e.g., use '0' if the star piece appears in column 10.

Example Answer: 261627135

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9. Star Battle [Richard Stolk] (14 points)

See previous page for instructions.

10. Star Wars [Hans Eendebak] (23 points)

Place stars into some cells in the grid, no more than one star per cell. Each row, each column, each highlighted partial diagonal, and each outlined region must contain exactly two stars. Cells with stars may not touch each other, not even diagonally.

The numbers on top of the diagram are for Answer purposes only.

Answer: For each row from top to bottom, enter the number of the first column from the left where a star appears (the number on top of that column). Use only the last digit for two-digit numbers; e.g., use '0' if the first star appears in column 10.

Example Answer: 262615351

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11-12. Star Wars [Hans Eendebak] (23, 34 points)

Answer: For each row from top to bottom, enter the number of the first column from the left where a star appears (the number on top of that column). Use only the last digit for two-digit numbers; e.g., use '0' if the first star appears in column 10.

Example Answer: 262615351

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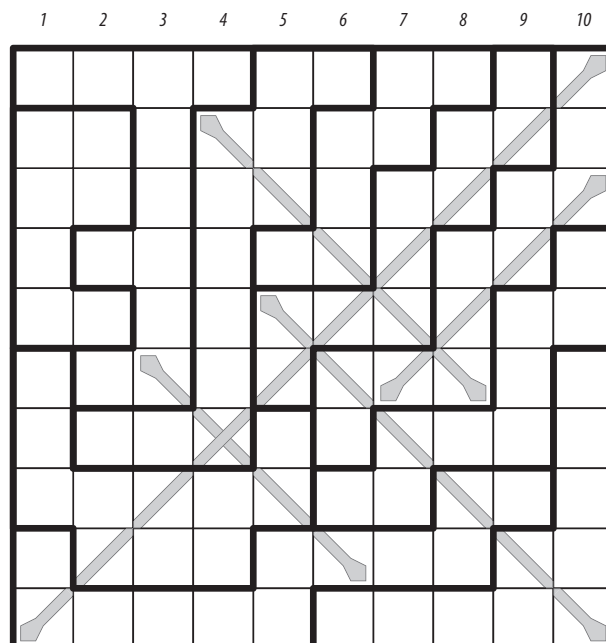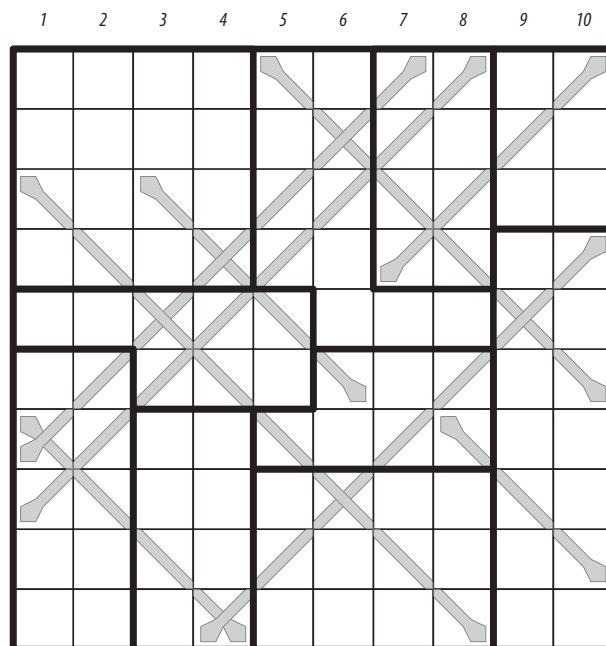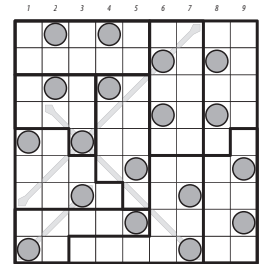
13-14. Pento-slitherlink [Richard Stolk] (12, 14 points)

Draw twelve loops that only consist of horizontal and vertical segments between the dots. The loops may not touch each other or intersect themselves, and they must be in the shapes of twelve different pentominoes. Each pentomino shape is used exactly once, but can be rotated or reflected. A number inside a cell indicates how many of the edges of that cell are part of any loop (that is, part of an edge of a pentomino).

Answer: For each designated row, enter the letter for each pentomino that appears in that row, from left to right. Within a row, if a pentomino occupies more than one cell, only enter that pentomino's letter once. If there are no pentominoes in that row, enter a single letter 'A'.
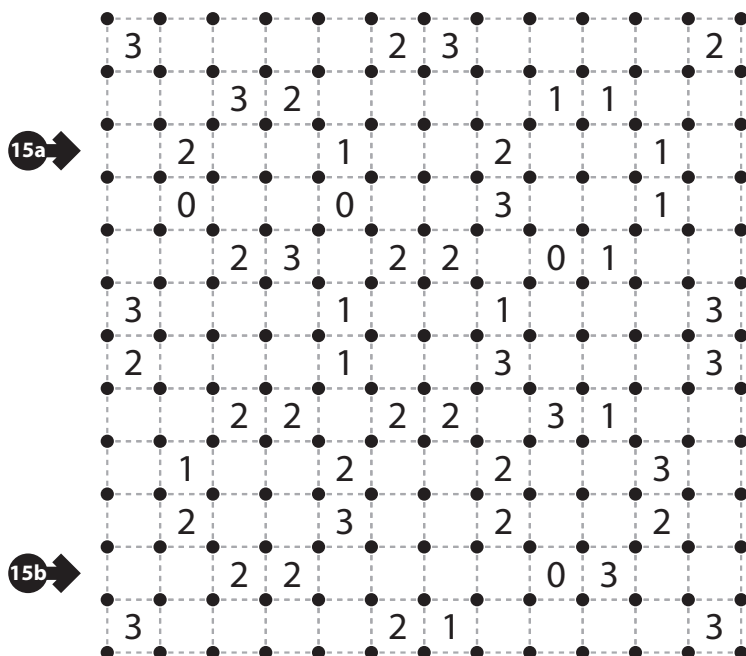
Example Answer: TFI,XLW

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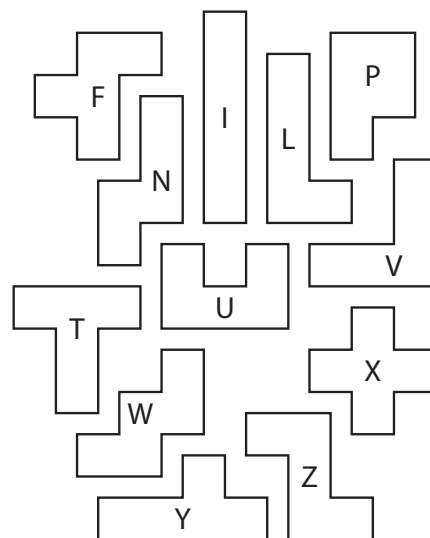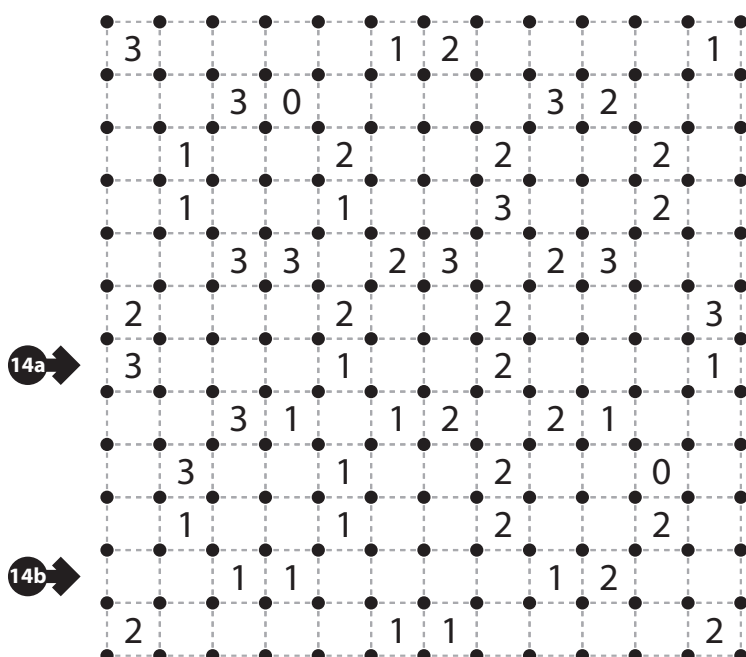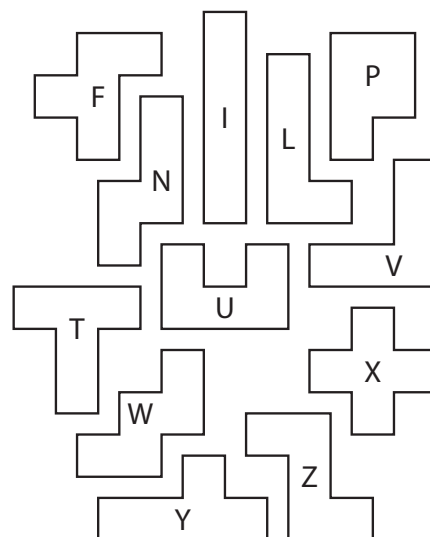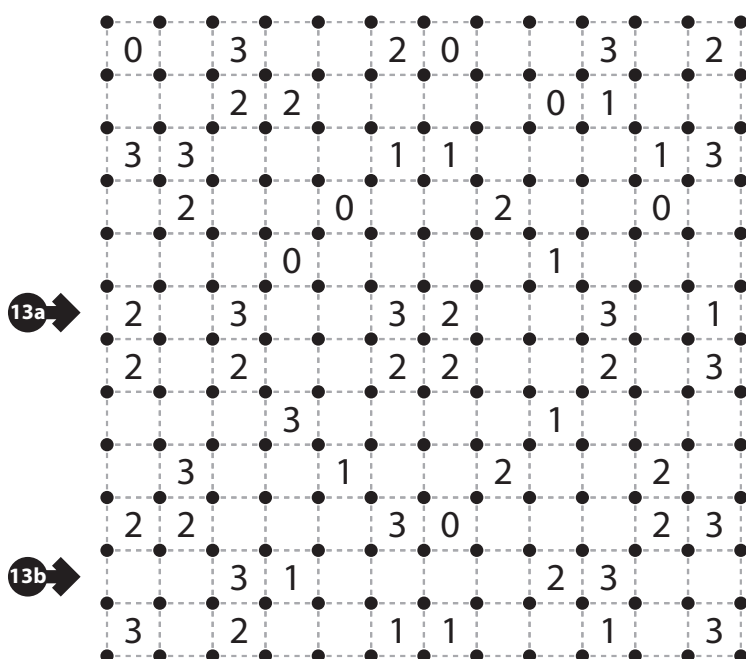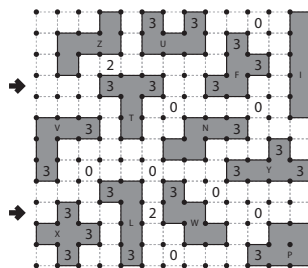
15. Pento-slitherlink [Richard Stolk] (15 points)

See previous page for instructions.
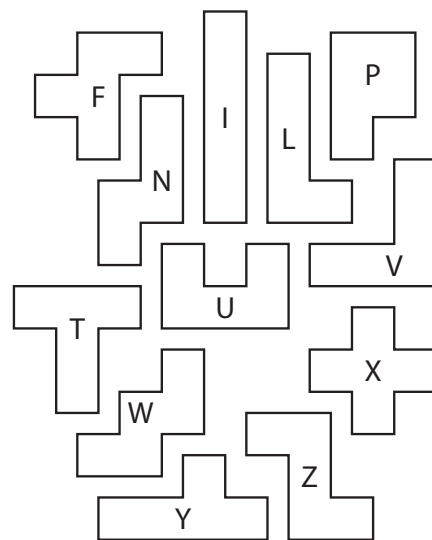
16. Pento-blokus [Hans Eendebak] (14 points)

Shade some cells black so that the black cells form the shapes of twelve different pentominoes. Each pentomino shape is used exactly once, but can be rotated or reflected. Pentominoes cannot touch along edges, but can touch at corners. If a corner is marked with a dot, then two pentominoes touch at that corner. If a corner is not marked with a dot, then two pentominoes do not touch at that corner.

Answer: For each designated row, enter the letter for each pentomino that appears in that row, from left to right. Within a row, if a pentomino occupies more than one cell, only enter that pentomino's letter once. If there are no pentominoes in that row, enter a single letter 'A'.

Example Answer: YWLU, PXI

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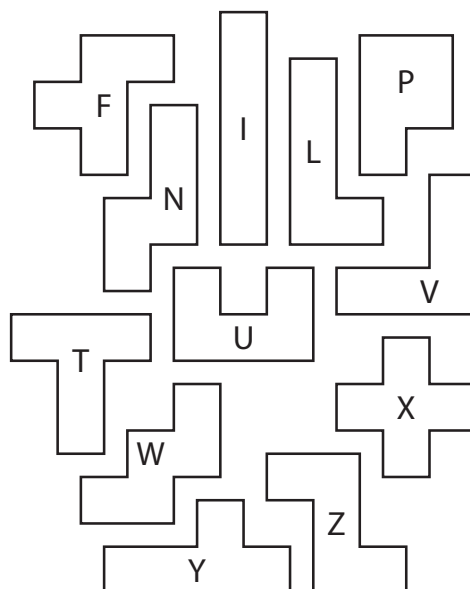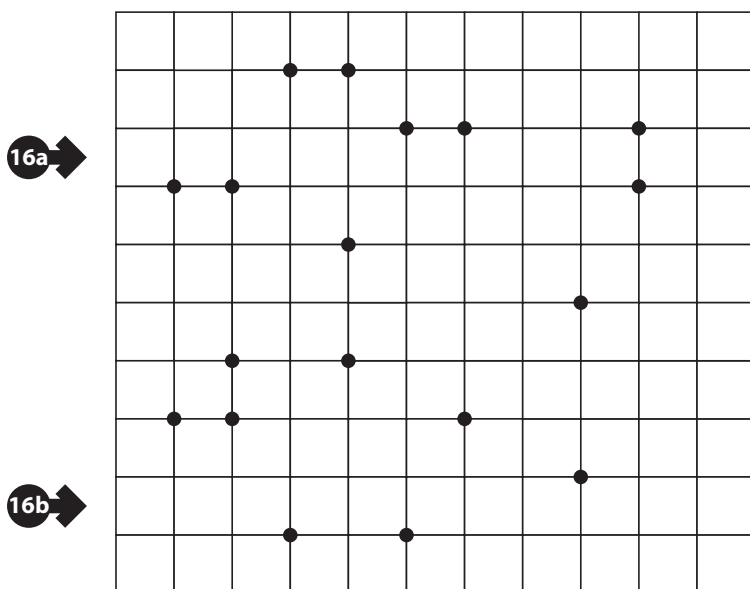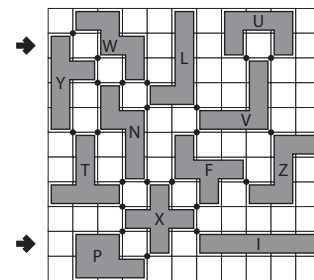
17-18. Pento-blokus [Richard Stolk] (17, 34 points)

Answer: For each designated row, enter the letter for each pentomino that appears in that row, from left to right. Within a row, if a pentomino occupies more than one cell, only enter that pentomino's letter once. If there are no pentominoes in that row, enter a single letter 'A'.
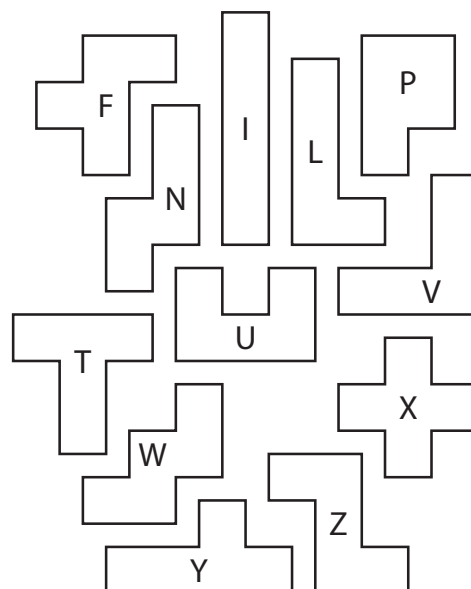
Example Answer: YWLU, PXI

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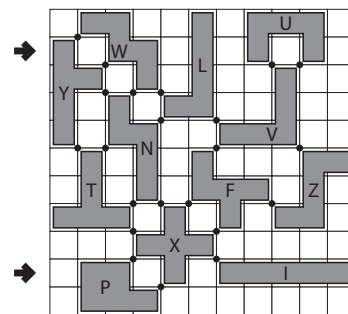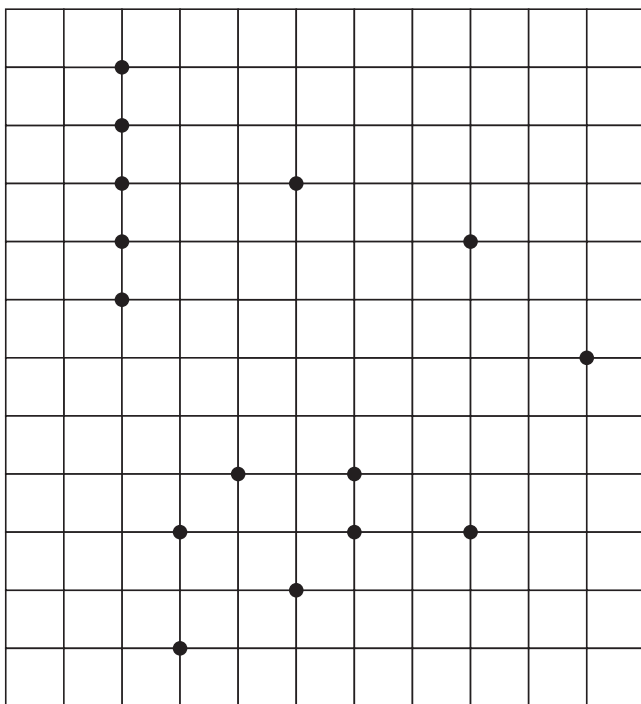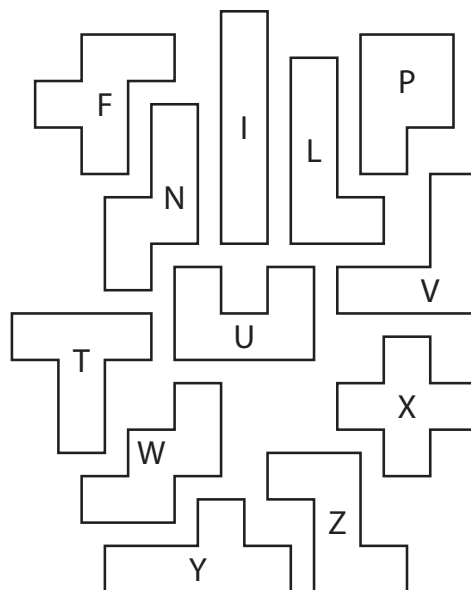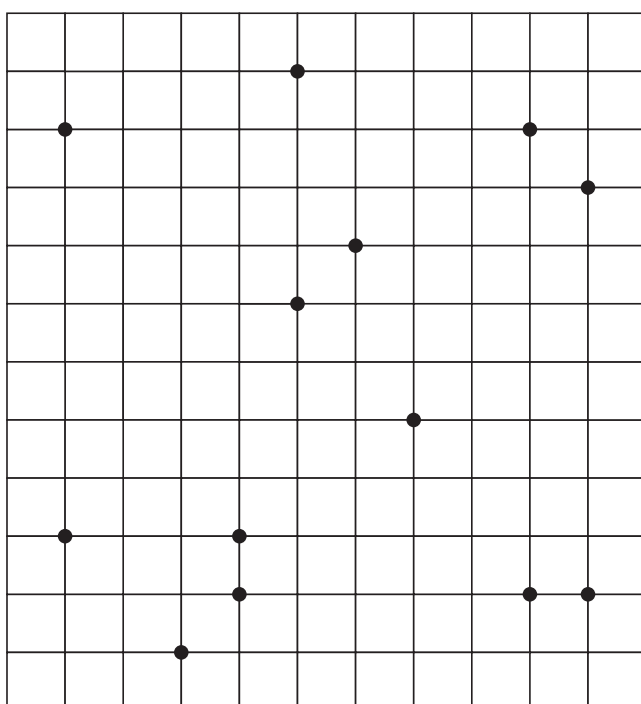
19-20. Neighbors [Richard Stolk] (13, 33 points)

Place one of the digits 1, 2, or 3 into each cell, one digit per cell, so that each digit appears exactly three times in each row and column. Some digits may already be placed for you. After placing all digits, each white cell must touch at least one cell with the same number along an edge, and each gray (outlined) cell must not touch any cells with the same number along an edge.

Answer: For each designated row, enter its contents.

Example Answer: 133213212 , 322131231

1	3	1	3	2	2	1	3	2
2	1	2	2	3	1	3	1	3
3	2	3	1	2	3	1	2	1
1	3	3	2	1	3	2	1	2
2	1	2	3	1	2	3	1	3
3	2	3	1	2	1	3	2	1
3	2	2	1	3	1	2	3	1
2	3	1	3	1	3	1	2	2
1	1	1	2	3	2	2	3	3

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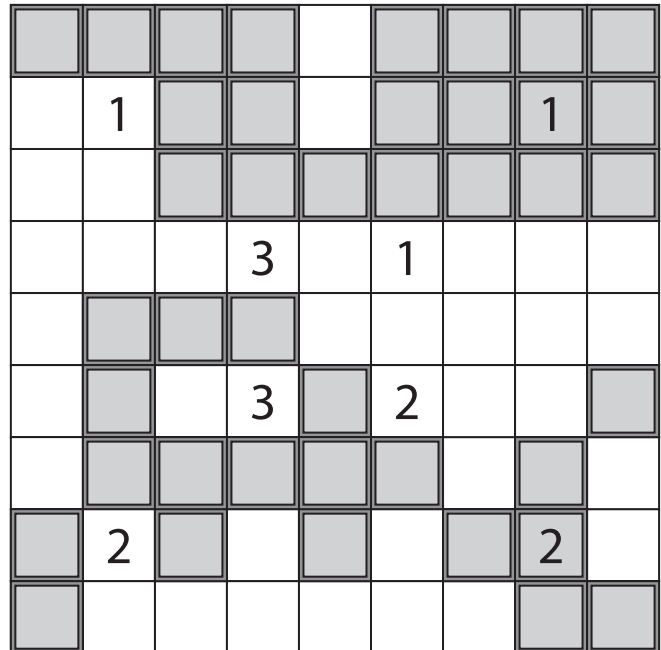## 21. Neighbors [Hans Eendebak] (46 points)

See previous page for instructions.

22. Sky-neighbors [Richard Stolk] (46 points)

Place one of the digits 1, 2, or 3 into each cell, one digit per cell. Within the large 9×9 box, each digit appears exactly three times in each row and column. Some digits may already be placed for you. After placing all digits, each white cell must touch at least one cell with the same number along an edge, and each gray (outlined) cell must not touch any cells with the same number along an edge.
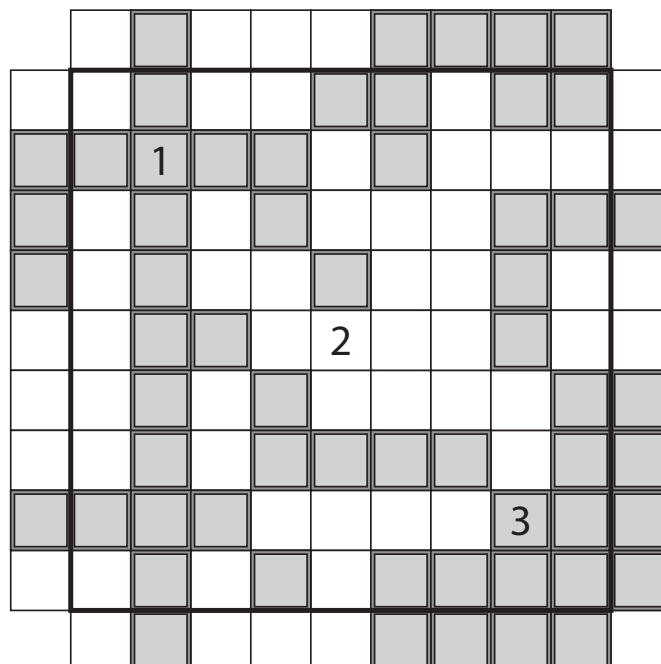
Also, the digits in the large 9×9 box each represent skyscrapers of their respective heights. The digits outside the grid indicate how many skyscrapers can be seen in the respective row or column from the respective direction. (A skyscraper hides all skyscrapers behind it that are of equal or lower height.)

Answer: For each designated row, enter its contents, including skyscrapers inside the large box and seen-skyscraper counts outside the large box.

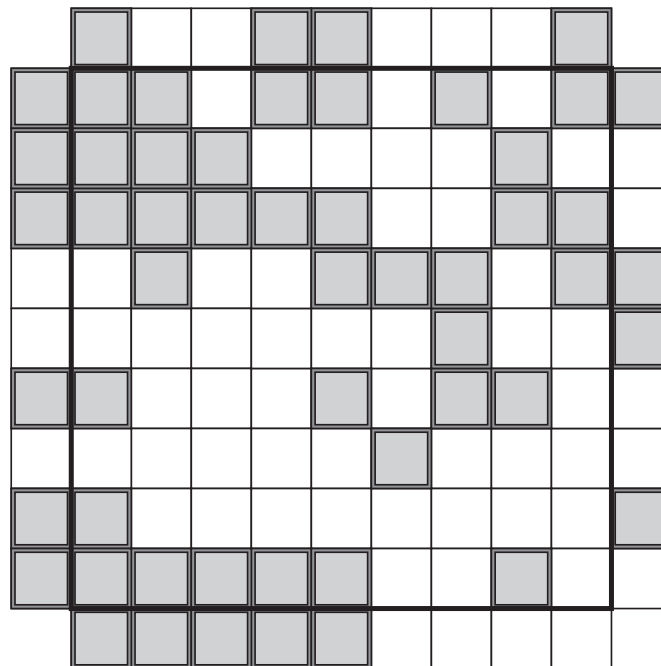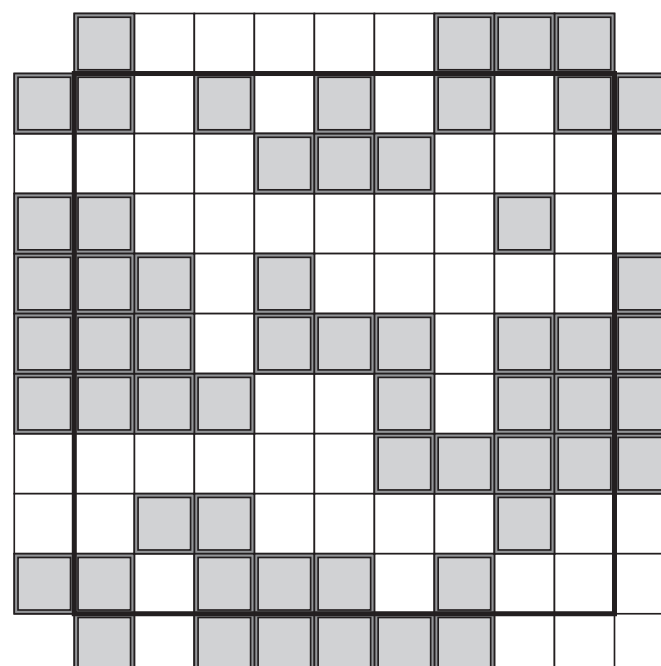**Example Answer**: 22231313122 , 112232221

23-24. Sky-neighbors [Richard Stolk] (61, 53 points)

Answer: For each designated row, enter its contents, including skyscrapers inside the large box and seen-skyscraper counts outside the large box.

Example Answer: 22231313122 , 112232221