

WPF PUZZLE GP 2017 INSTRUCTION BOOKLET

Host Country: India

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Special Notes: No special notes for this round.

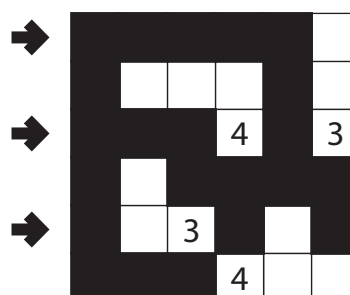
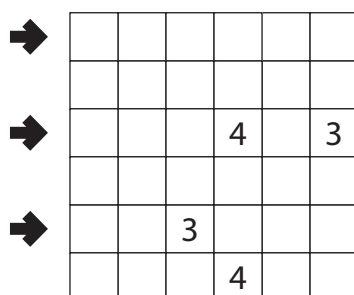
Points:					
B1.	Nurikabe	25	B7.	Snake	62
B2.	Nurikabe	35	B8.	Snake	56
B3.	Yajilin	21	B9.	Skyscrapers	27
B4.	Yajilin	23	B10.	Skyscrapers	79
B5.	Fillomino	47	B11.	Shapesweeper	42
B6.	Fillomino	55	B12.	Shapesweeper	53
			TOTAL:		525

B1-2. Nurikabe (25, 35 points)

Shade some cells black (leaving the other cells white) so that the grid is divided into non-overlapping regions; cells of the same color are considered in the same region if they are adjacent along edges. Each given number must be in a white region that has the same area in cells as that number. Each white region must have exactly one given number. All black cells must be in the same region. No 2x2 group of cells can be entirely shaded black.

Answer: For each designated row, enter the lengths (number of cells) of the black segments from left to right. If there are no black cells in the row, enter a single digit '0'. Use only the last digit for two-digit numbers; e.g., use '0' for a black segment of length 10.

Example Answer: 5, 31, 111



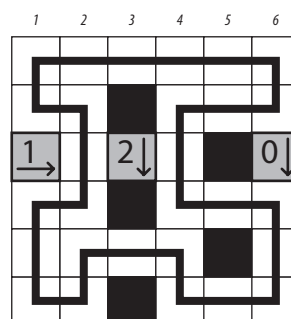
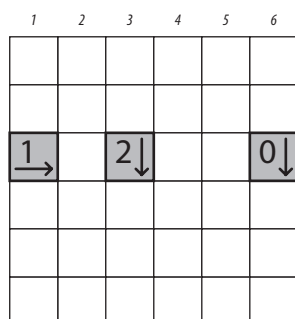
**B3-4. Yajilin (21, 23 points)**

Blacken some white cells and then draw a single closed loop (without intersections or crossings) through all remaining white cells. Loop paths must be orthogonal. Blackened cells cannot share an edge with each other. Some cells are outlined and in gray and cannot be part of the loop. Numbered arrows in such cells indicate the total number of blackened cells along the direction of the arrow, starting in the arrowed cell and going along a row or column to the edge of the grid.

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

Answer: For each row from top to bottom, enter the column number of the left-most blackened cell. (Outlined gray cells are not blackened.) Use only the last digit for two digit numbers; e.g., use '0' for column 10. If none of the cells in a row are blackened, enter '0' for that row.

Example Answer: 035353

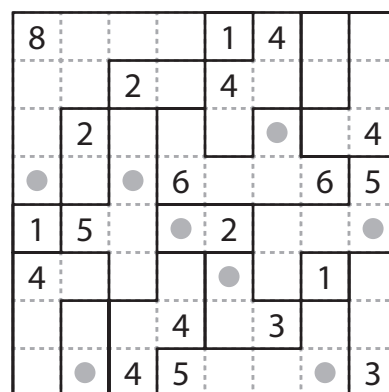
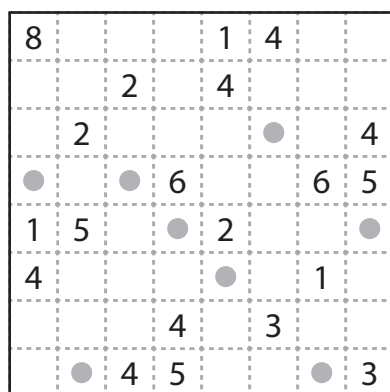
**B5-6. Fillomino (47, 55 points)**

Divide the grid along the dotted lines into regions (called polyominoes) so that no two polyominoes with the same area share an edge. Inside some cells are numbers; each number must equal the area of the polyomino it belongs to. A polyomino may contain zero, one, or more of the given numbers. (It is possible to have a "hidden" polyomino: a polyomino without any of the given numbers. "Hidden" polyominoes may have any area, including a value not present in the starting grid, such as a 6 in a puzzle with only clues numbered 1-5.)

The dots in cells are only used for entering your answers.

Answer: Enter the area of the polyomino each dot is in, reading the dots from left to right. (Ignore which row the dots are in.) Use only the last digit for two-digit numbers; e.g., use '0' for a polyomino of size 10.

Example Answer: 82523655



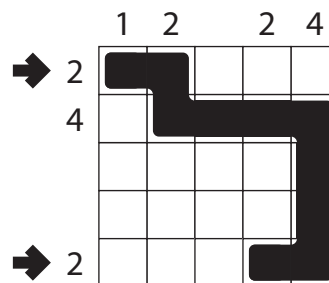
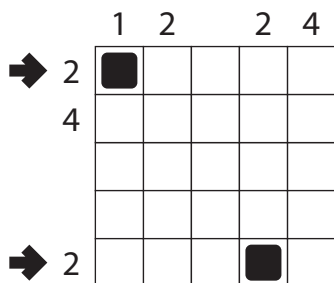
**B7-8. Snake (62, 56 points)**

Locate a "snake" in the grid. The snake is a path that starts in a cell, goes through some number of cells orthogonally, and ends in a cell. The snake cannot go through any cells marked with 'x'. Each cell is used at most once by the snake. The snake may not touch itself, not even diagonally. (In other words, if two cells in the snake touch orthogonally, then they must be exactly one cell apart along the path of the snake, and if two cells in the snake touch diagonally, then they must be exactly two cells apart along the path of the snake.) Numbers outside the grid, if given, indicate how many cells in that row or column are occupied by the snake.

The two cells containing the ends of the snake are shaded.

Answer: For each designated row, enter its contents. Use ○ for a cell occupied by the snake and × for a cell not occupied by the snake. You may reverse the two symbols, as long as you are consistent.

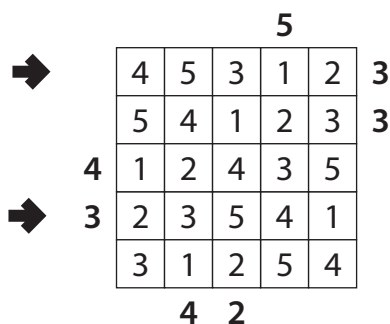
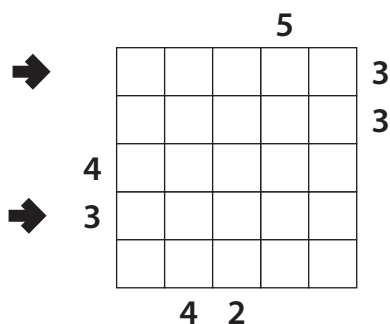
Example Answer: ○○○××, ×××○○

**B9-10. Skyscrapers (27, 79 points)**

Place a number from 1 to X (integers only) into each cell so that each number appears exactly once in each row and column. (X is the number of cells in each row.) Each number represents a skyscraper of its respective height. The numbers outside the grid indicate how many skyscrapers can be seen in the respective row or column from the respective direction; smaller skyscrapers are hidden behind higher ones. Some numbers may already be filled in for you.

Answer: For each designated row, enter its contents. Do *not* include any numbers outside the grid.

Example Answer: 45312, 23541




B11-12. Shapesweeper (42, 53 points)

Place all of the given shapes into the grid. The shapes may be rotated and/or reflected. Shapes cannot cover the numbered cells. Shapes cannot touch each other (not even diagonally). Numbered cells indicate how many of the surrounding cells (including diagonally adjacent cells) will contain a shape part.

The characters on the shapes are only used for entering your answer.

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

Example Answer: SSI, A

