

## INSTRUCTION BOOKLET

1. BOWLING SUDOKU	45 pt
2. SHOOTING SUDOKU	125 pt
3. SQUASH SUDOKU	90 pt
4. FOOTBALL SUDOKU	105 pt
5. GOLF SUDOKU	90 pt
6. DIVING SUDOKU	165 pt
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TOTAL	620 pt

### TIME

62 minutes

### BONUS

10 points per minute saved if all puzzles are solved correctly

### ANSWER KEY

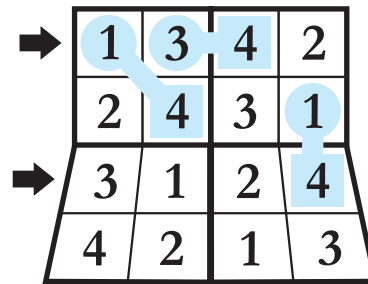
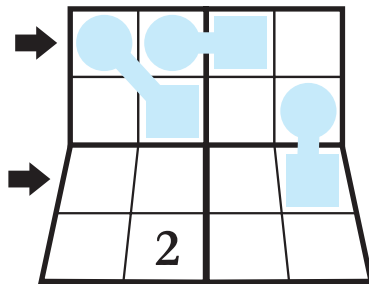
Digits in the marked rows (from left to right) or columns (from top to bottom),  
as indicated by arrows

Thanks to Prasanna Seshadri and Seungjae Kwak

## 1. BOWLING SUDOKU

45 pt

Apply classic sudoku rules. In front of you is a bowling alley. The numbers on each pin have a different parity. If the pin is in two rows, then the upper digit is less than the lower by more than 2. If the pin is completely in the same row, then its digits differ by 1.

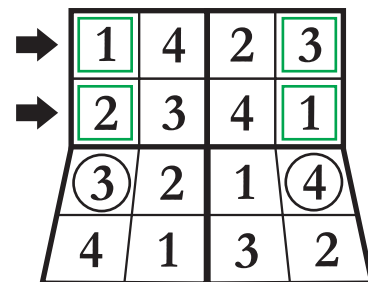
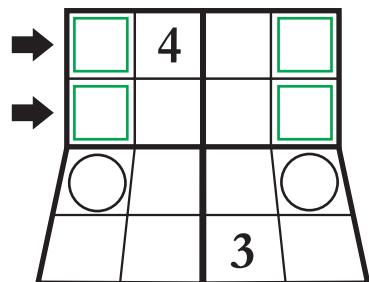


Answer: 1342, 3124

## 2. SHOOTING SUDOKU

125 pt

Apply classic sudoku rules. The upper part 9x3 (4x2 in the example) of the grid represents a wall. Opposite it, in each circle, there is a shooter. On the wall, in one column with each shooter, squares are marked: the sums of the digits in them are equal to the digit in the corresponding circle.

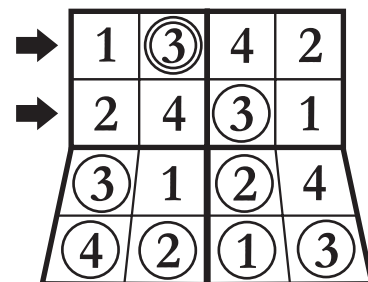
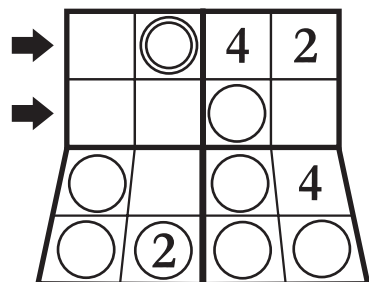


Answer: 1423, 2341

## 3. SQUASH SUDOKU

90 pt

Apply classic sudoku rules. The upper part 9x3 (4x2 in the example) of the grid symbolizes the wall. Circles mark the triples of digits representing the following cells: where the ball is hit from, where the ball hits the wall, and where it arrives after a symmetrical bounce. The sum of the digits for each such triple is constant, it must be determined. Circles may belong to multiple different hits. Two or three circles into the cell indicate that the ball hit the wall 2 or 3 times. A hit from a circle cannot bounce back to itself.

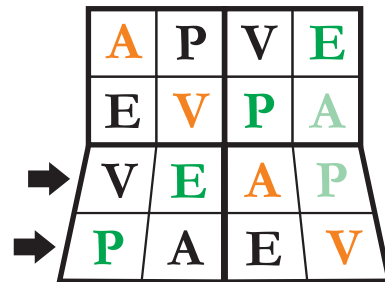
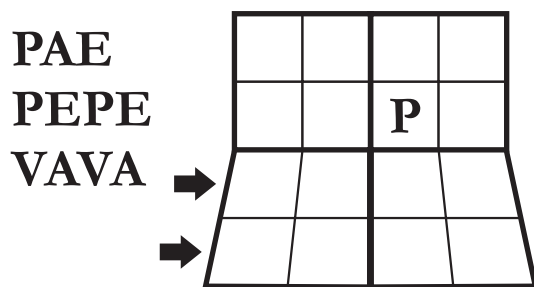


Answer: 1342, 2431

#### 4. FOOTBALL SUDOKU

105 pt

Fill the sudoku with the letters A, D, E, I, M, N, O, R, S (A, E, P, V in the example) according to the classic rules. The upper part 9x3 of the grid symbolizes the football goal. Write all the given names along the columns and diagonals so that these words depict the trajectory of a direct strike made from the middle or lower part of the field and ending in the goal (in row 3, row 2 or 1). A letter may belong to different names.

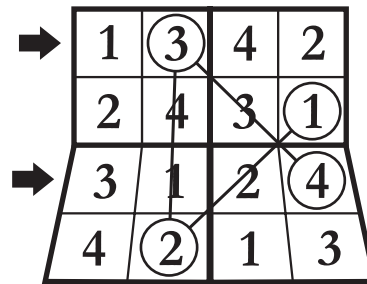
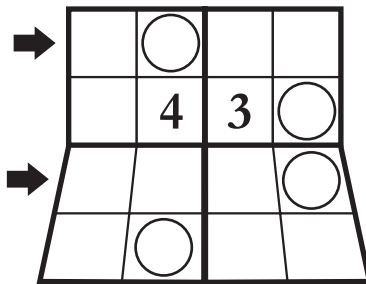


Answer: VEAP, PAEV

#### 5. GOLF SUDOKU

90 pt

Apply classic sudoku rules. There are 9 'holes' (4 in the example) marked in the grid, that must be numbered from 1 to 9 (4 in the example), such that a path can be drawn sequentially from 1 to 2 to 3 on till 9. The path must go straight from one hole to the next, but may turn 45° at a hole. The path can intersect and overlap itself.

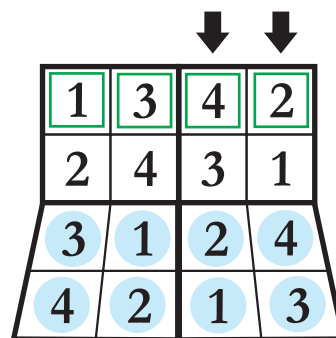
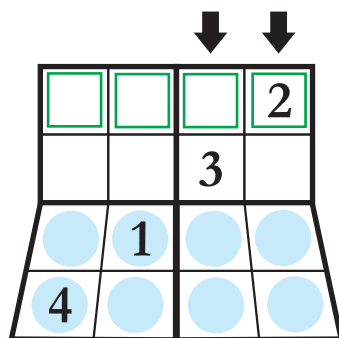


Answer: 1342, 3124

#### 6. DIVING SUDOKU

165 pt

Apply classic sudoku rules. The upper part 9x3 (4x2 in the example) of the grid depicts a wall from which you can jump into the water, like from a springboard. The first row shows squares. If there is a digit N in a square, then in this column at the N-th position from the top there will be a digit equal to the sum or difference of the digits in the circles of this column.



Answer: 4321, 2143