



INSTRUCTION BOOKLET

1. SPLIT SUDOKU	77 pt
2. SPLIT SUDOKU	132 pt
3. LOL SUDOKU	37 pt
4. MUSIC SUDOKU	42 pt
5. MUSIC SUDOKU	51 pt
6. MUSIC SUDOKU	49 pt
7. DICE SUDOKU	65 pt
8. GRAFFITI SUDOKU	102 pt
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TOTAL	555 pt

TIME

70 minutes

BONUS

8 points per minute saved if all puzzles are solved correctly

ANSWER KEY

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

Thanks to Deb Mohanty, Rakesh Rai and Seungjae Kwak

1-2. SPLIT SUDOKU

77, 132 pt

Divide the white block into two connected areas. One area will join the top grid and the other area will join the bottom grid. The two areas should be adjacent to their grids by at least one cell. Solve the two resultant split sudokus by standard rules given that one block contains less than 9 cells (6 in the example).

The diagram illustrates the process of solving a split sudoku. It starts with a white block (top-left) and a green block (bottom-right). The white block is divided into two connected areas: a 3x3 area (top-left) and a 3x3 area (bottom-right). The green block is also divided into two connected areas: a 3x3 area (top-right) and a 3x3 area (bottom-left). The resulting split sudokus are shown below.

White Block (Top-Left):

				4	
		1	6	5	
		2			6

Green Block (Bottom-Right):

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

Resulting Split Sudokus:

White Block (Top-Left):

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

Green Block (Bottom-Right):

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

Answer: 5462316143, 6143213452

3. LOL SUDOKU*

37 pt

Fill the grid with digits from 1 to 8 (4 in the example). Digits must be different in rows, columns and outlined areas. You have to determine the boundaries of some 8-cell areas (4-cell areas in the example).

* Devoted to Fred Stalder

The diagram shows the initial grid and the resulting LOL sudoku grid. The initial grid is a 4x4 grid with some cells containing digits. The resulting LOL sudoku grid is a 4x4 grid with some cells containing digits and some cells outlined to form 8-cell areas.

Initial Grid:

		4	1
			3
2			

Resulting LOL Sudoku Grid:

3	2	4	1
1	4	2	3
4	3	1	2
2	1	3	4

Answer: 1423, 4312

4-6. MUSIC SUDOKU

42, 51, 49 pt

Fill the grid with digits from 1 to 9. Digits must be different in rows, columns and outlined areas. The circles symbolize musical notes, and each note has its own digit. These digital values strictly increase from Do to Si (that is, Do < Re < Mi < Fa < Sol < La < Si). Notes outside the column should be represented by their digits in the circles in that column. Some Sudokus use less than seven notes.

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

Mi Re Do Do Si La

Do < Re < Mi < Fa < Sol < La < Si

Do =

Re =

Mi =

Fa =

Sol =

La =

Si =



Bulba

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

Mi Re Do Do Si La

Do = 1

Re = 2

Mi = 3

Fa = 5

Sol = 6

La = 7

Si = 8

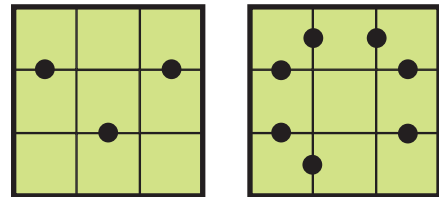
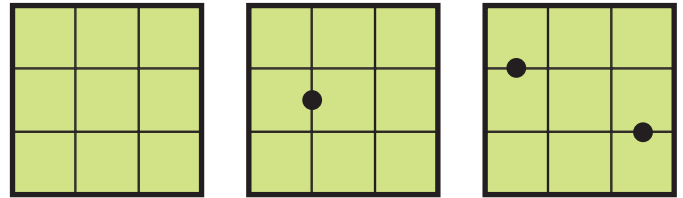
7. DICE SUDOKU

65 pt

Place all the given 3 x 3 dices in some of the 3 x 3 outlined areas. Dices can be rotated and/or reflected. Fill the grid with digits from 1 to 9. Digits must be different in rows, columns and outlined areas.

In each 3 x 3 outlined area where a dice is placed, the pair of digits differ by 1 only in the cells connected by a black circle.

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



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

8. GRAFFITI SUDOKU

102 pt

Darken some cells so that it is possible to draw a noncrossing line of length N, travelling along all white cells, moving horizontally or vertically with connecting the centres of the squares. Along the line write the given sequence of N digits. Fill the grid with digits from 1 to 9. Digits must be different in rows, columns and outlined areas. Digits outside the grid indicate the lengths of darkened cell blocks in the corresponding directions, in order. If there are more than one darkened blocks in a row or column, there must be at least one white cell between the blocks.

2	6	3	3	4	4	3	3	2
2	2	2	4	1	1	4	2	2

		3	2	9	4	1		
→								
1 2								
1								
1 1 1								
1 1								
4 3								
→								

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

2	6	3	3	4	4	3	3	2
2	2	2	4	1	1	4	2	2

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

Answer: 918756324, 267819543