

## Team Round 1: Sudoklear Fusion (40 minutes)

Team name: \_\_\_\_\_

Members of team: \_\_\_\_\_

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Arrange the nine given 9x9 Sudoku puzzles given to form a 27x27 grid. Orthogonally adjacent cells separated by a 9x9 grid border must contain identical digits.

The puzzle in the middle of the 27x27 grid will be a 9x9 Classic Sudoku. Every other 9x9 Sudoku puzzle belongs to one of the following additional variants:

1. **Arrow Sudoku:** The sum of the digits along an arrow equals the digit in the circle attached to that arrow.
2. **Consecutive Pairs Sudoku:** Digits separated by a white dot differ by exactly 1.
3. **Extra Region Sudoku:** Each 9-cell grey region contains every digit 1-9 exactly once.
4. **Fortress Sudoku:** A digit in a grey cell must be larger than all of the digits in orthogonally adjacent white cells.
5. **Non-consecutive Sudoku:** Orthogonally adjacent cells may not contain digits that differ by exactly 1.
6. **Palindrome Sudoku:** Each grey line is a palindrome, where the sequence of digits on the line is read the same forwards and backwards.
7. **Renban Sudoku:** Each purple line contains a set of distinct, consecutive digits.
8. **Thermo Sudoku:** The digits on a thermometer shape must strictly increase, starting from the bulb end.

To avoid confusion, the variant that each 9x9 grid contains will be noted on the back side of the grid.

9x9 grids may be rotated in any way desired to reach a valid solution. In the final solution, the orientations of given digits will not necessarily match across different 9x9 grids.

The 9x9 Classic Sudoku is worth 400 points. All other 9x9 grids are worth 100 points each. The time bonus for this round is 40 points per every full minute spared.

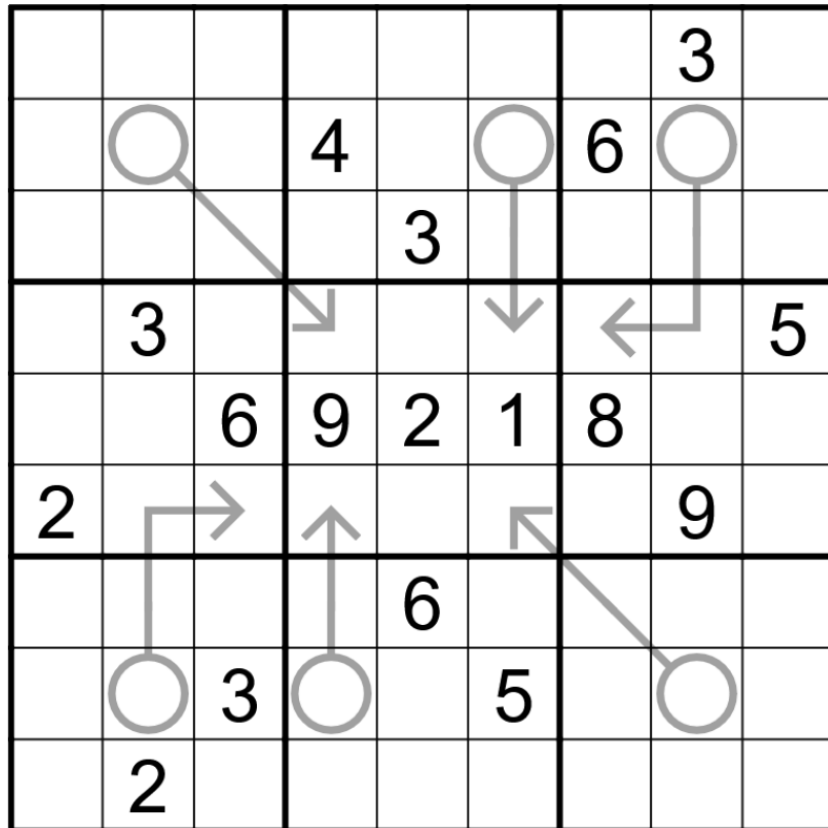
If a team has completed the round early and exactly one 9x9 grid contains at most 3 incorrect/empty cells, a 40% partial time bonus will be awarded. However, no points will be awarded for the incorrect 9x9 grid.

To receive credit for a completed 9x9 grid, a team must do at least one of the following:

- Make sure that all of the digits in the grid have the exact same orientation.
- For that grid, indicate 6s and 9s with lines. (Six=6, Nine=9)

# Arrow Sudoku

**100 points**



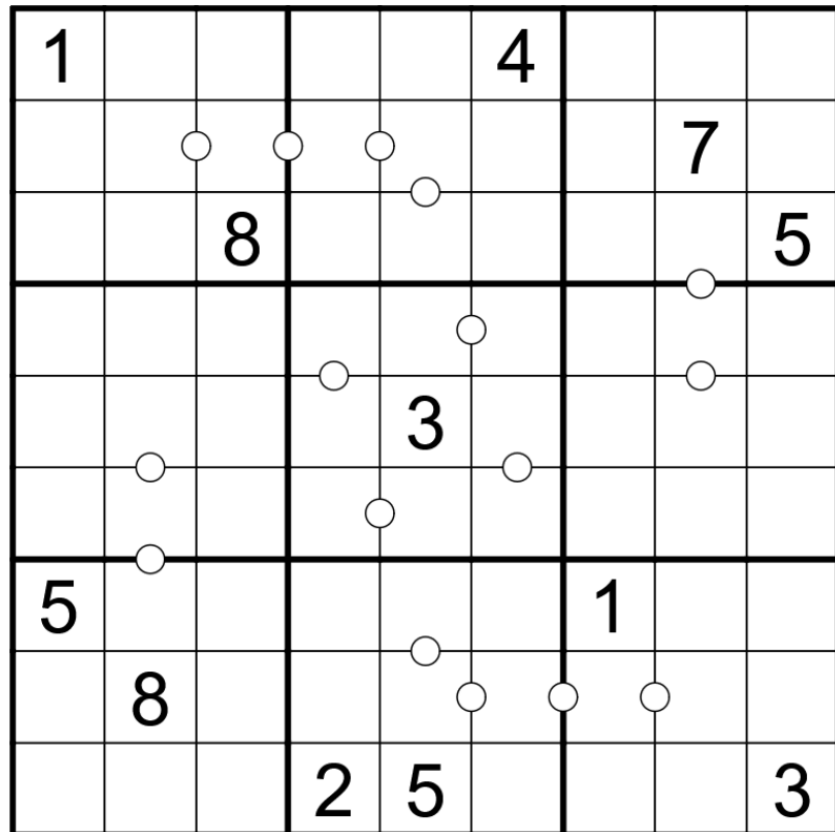
# Classic Sudoku

100 points

					2			
						5		
	2						9	
		8						
			4					

# Consecutive Pairs Sudoku

100 points



# Extra Region Sudoku

100 points

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

# Fortress Sudoku

100 points

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

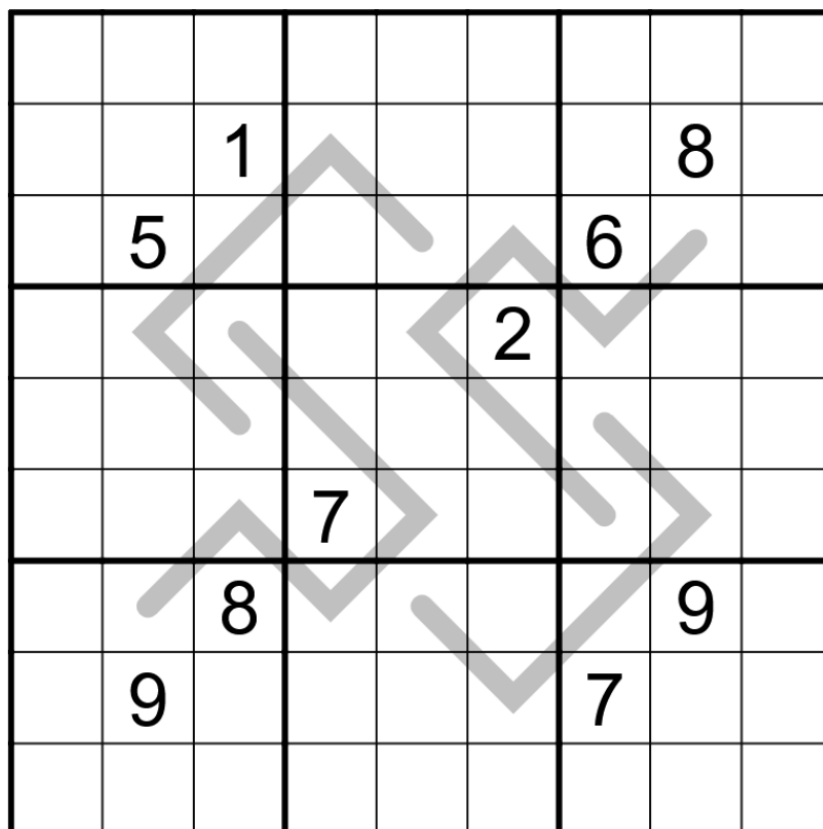
## Non-consecutive Sudoku

100 points

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

# Palindrome Sudoku

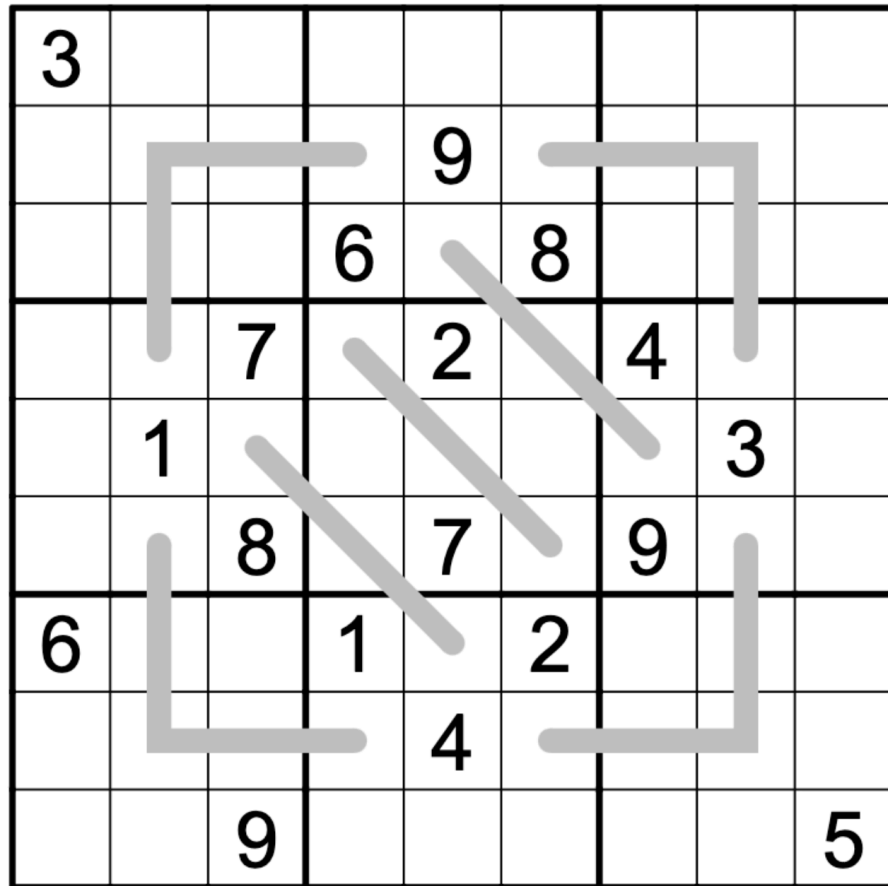
100 points





# Renban Sudoku

100 points



# Thermo Sudoku

100 points

