
Is it the solution of a Sudoku?

P16893_en

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Remember that a Sudoku is a game that consists of completing a 9×9 grid with numbers between 1 and 9, so that the final result has not repeated numbers in the same row, column or 3×3 submatrix. For example, this is a Sudoku and its solution:

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

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

In this problem we do not ask you to solve any Sudoku, just to check that every given matrix can be the solution of a Sudoku.

Input

Input consists of a number n , followed by n cases. Every case has 9 rows, each one with 9 numbers between 1 and 9.

Output

For every case, print "yes" or "no" depending on whether the given matrix follows the rules of the solutions of Sudokus.

Sample input

2

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

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

Sample output

```
yes
no
```

Problem information

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