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Is it the solution of a Sudoku?

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Examen extraordinari d'Informàtica, FME (2014-07-07)

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

Sample output

yes no

Problem information

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