

## 2803 - Another Simple Problem II

### Description

Mr. Square loves to play with squares. Again he has a square of  $N$  by  $N$  lowercase letters; each of them representing one distinct color. This time Mr. Square says that square is perfect if there are no two side-adjacent cells with the same color. Mr. Square wants to know if their square is perfect or not. Write the program that completes the described task for him.

### Input specification

The first line of input contain a integer number  $1 \leq T \leq 1000$ , the amount of test cases. For each case:

- A integer number  $1 \leq N \leq 10$ , the range of the square.
- Each of the following  $N$  lines contains  $N$  space-separated lowercase letters from 'a' to 'z', the description of Mr. Square square.

### Output specification

Output  $T$  lines, one per test case. Print "YES" without quotes if the square of Mr. Square is perfect. Otherwise, print "NO" without quotes.

### Sample input

```
5
1
a
2
ab
aa
2
cd
dc
3
ccc
ccc
ccc
5
qwert
yuiop
```

asdfg  
hijklz  
xcvbn

## Sample output

YES  
NO  
YES  
NO  
YES

## Hint(s)

Source	Yonny Mondelo Hernández
Added by	<b>ymondelo20</b>
Addition date	2014-03-31
Time limit (ms)	10000
<b>Test limit (ms)</b>	1000
Memory limit (kb)	256000
Output limit (mb)	64
Size limit (bytes)	15000
Enabled languages	Bash C C# C++ Java Pascal Perl PHP Python Ruby Text