
Domino of words

P47539_en

Vint-i-dosè Concurs de Programació de la UPC - Final (2024-10-02)

You are given n words. Can you permute the words (not their letters) so that the second word begins with the last letter of the first word, the third word begins with the last letter of the second word, and so on?

Input

Input consists of several cases, each with n , followed by n words made up of between 1 and 10 lowercase letters. You can assume $1 \leq n \leq 10^5$.

Output

For every case, print "yes" if it is possible arrange all the words like in the game of domino. Otherwise, print "no".

Sample input

```
3 the easiest task
2 or not
1 hello
2 ab abc
5 za z zz zz bz
3 a a a
```

Sample output

```
yes
no
yes
no
yes
yes
```

Problem information

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