A. Is It a Cat?

time limit per test: 2 seconds
memory limit per test: 256 megabytes
input: standard input
output: standard output

You were walking down the street and heard a sound. The sound was described by the string s consisting of lowercase and uppercase Latin characters. Now you want to find out if the sound was a cat meowing.

For the sound to be a meowing, the string can only contain the letters 'm', 'e', 'o' and 'w', in either uppercase or lowercase. Also:

- string must start with non-empty sequence consisting only of characters 'm' or 'M'
- it must be immediately followed by non-empty sequence consisting only of characters 'e' or 'E'
- it must be immediately followed by non-empty sequence consisting only of characters 'o' or 'O'
- it must be immediately followed by non-empty sequence consisting only of characters 'w' or 'W', this sequence ends the string, after it immediately comes the string end

For example, strings "meow", "mmmEeOWww", "MeOooOw" describe a meowing, but strings "Mweo", "MeO", "moew", "MmEW", "meowmeow" do not.

Determine whether the sound you heard was a cat meowing or something else.

Input

The first line of input data contains a single integer t ($1 \le t \le 10^4$) — the number of test cases.

The description of the test cases follows.

The first line of each test case contains an integer n ($1 \le n \le 50$) — the length of the string describing the sound.

The second line of each test case contains a string s of n characters. The string describes the sound you heard and consists only of lowercase and uppercase Latin letters.

Output

For each test case, output on a separate line:

- YES if the sound was a cat meowing;
- NO otherwise.

You can output YES and NO in any case (for example, strings yEs, yes, Yes and YES will be recognized as positive response).

Example

input Copy

```
7
4
meOw
14
mMmeoOoWWWwwwW
3
mew
7
MmeEeUw
4
MEOW
6
MmyaVW
5
meowA
```

output Copy

```
YES
YES
NO
NO
YES
NO
NO
```

Note

In the first test case, the string consists of a sequence of characters 'm', 'e', 'O', 'w', which satisfies the definition of meowing.

In the second test case, the string consists of a sequence of 3 characters 'm' and 'M', one 'e', a sequence of 3 characters 'o' and 'O' and a sequence of 7 characters 'w' and 'W', which satisfies the definition of meowing.

In the third test case, the string does not describe a meowing because it lacks a sequence of 'o' or 'O' characters between 'e' and 'w'.

In the fourth test case, the string contains the character 'U', so it does not describe a meowing.

Codeforces Round 855 (Div. 3)
Finished
Practice

→ Virtual participation

Virtual contest is a way to take part in past contest, as close as possible to participation on time. It is supported only ICPC mode for virtual contests. If you've seen these problems, a virtual contest is not for you - solve these problems in the archive. If you just want to solve some problem from a contest, a virtual contest is not for you - solve this problem in the archive. Never use someone else's code, read the tutorials or communicate with other person during a virtual contest.

Start virtual contest

→ Clone Contest to Mashup

You can clone this contest to a mashup.

Clone Contest

→ Submit?

Language: GNU G++20 11.2.0 (64 bit, w

Choose file: Choose File No file chosen

Submit

→ Last submissions

Submission	Time	Verdict
229329267	Oct/22/2023 21:21	Accepted
196341701	Mar/07/2023 09:17	Accepted
195620702	Mar/02/2023 18:09	Wrong answer on test 2
195613329	Mar/02/2023 18:03	Wrong answer on test 2

→ Problem tags

implementation strings *800

No tag edit access

→ Contest materials

- Announcement
- Tutorial