

HOME TOP CATALOG CONTESTS GYM PROBLEMSET GROUPS RATING EDU API CALENDAR HELP ICPC CHALLENGE 🖫

PROBLEMS SUBMIT CODE MY SUBMISSIONS STATUS HACKS STANDINGS CUSTOM INVOCATION

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	Сору
7	
4	
meOw	
14	
mMmeoOoWWWwwWW	
3	
mew	
7	
MmeEeUw	
4	
MEOW	
6	
MmyaVW	
5	
meowA	
output	Сору
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 ${\tt 'U'}$, so it does not describe a meowing.

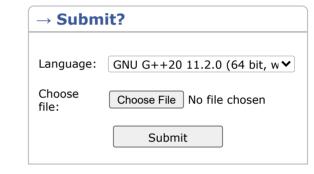
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Start virtual contest





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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





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