Problem B: The sound of a cat

Time limit   : 2s
Memory limit : 256MB

WooZi has a cat named Mimi which looks like this:

Mimi usually makes 3 sounds as follow:

- `meow`: This sound starts with one character `m`, followed by at least 1 character `e`, then continues followed by one character `o`, and ends with at least one character `w`.

- `purr`: This sound starts with two characters `pu`, followed by at least two characters `r`.

- `roar`: This sound starts with one character `r`, followed by at least one character `o`, and ends with two characters `ar`.

Help WooZi distinguish those types of sounds!

Input

The first line contains a positive integer t $(1 \le t \le 100)$ as the number of sounds that Mimi had made.

Each of the next t lines contains a string s of no more than 30 characters, consisting of only lowercase English letters.

Output

Output includes t lines, each contains the types of sounds that Mimi had made. If it does not fall into one of these three types of sounds, print `human noises`.

Sample Input	Sample Output
10	meow
meeeeowwwwwwwww	purr
purrrrrrrr	human noises
puuurr	meow
meowwwwww	human noises
roooooaar	roar
rooooooooooooooar	human noises
hello	human noises
ppuurr	human noises
mmmmmeow	human noises
rroar	