TSOC '16 Contest 2 #2 - Oh My!

Time limit: 2.5s   **Memory limit:** 256M

George Takei is busy writing a new screenplay. He wishes to finish it in time for April 20, a very significant day for him. While he has finished the rough draft, it is too full of errors to use. Help him correct it before the deadline! George knows that you can't fix everything, but you can at least help him trim his draft a little.

The only words the script should contain are variations on the phrase `ohmy`. Some letters may be duplicated, but this is okay as long as they are still in order (George needs to have good inflection, after all), so the phrases `ooohhhhmmmyyyy` and `ooooooooooooooooooooohmy`, for example, are also valid `ohmy` phrases. Your task is to remove the minimum possible amount of letters needed to produce a screenplay with the maximum possible number of `ohmy` phrases. Additionally, every character in the screenplay must be a valid part of one of these phrases.

Input Specification

The first line of input is n $(1 \leq n \leq 25)$, the number of characters in the screenplay. The second line of input contains the text of the screenplay in lowercase. There are no spaces.

Output Specification

An `ohmy` phrase, where the number of `h`'s is the maximum possible number of `ohmy` phrases in the screenplay, and the number of `y`'s is the minimum number of characters that must be removed. Note that an `ohmy` phrase must have a positive integer for the number of each letter. If 0 deletions are needed or there are 0 `ohmy` phrases in the screenplay, omit the corresponding letter in your output, but know that your output is not an actual `ohmy` phrase.

Sample Input 1

```
25
ohmyohhhhhmyyyhohmyohqqmy
```

Sample Output 1

```
ohhhhmyyy
```

Explanation of Sample Output 1

The sample input contains three errors:

ohmyohhhhhmyyy**h**ohmyoh**qq**my

With these errors removed, the phrase becomes:

ohmyohhhhhmyyyohmyohmy

Which separates into four ohmy phrases:

ohmy-ohhhhhmyyy-ohmy-ohmy

Sample Input 2

```
22
ohhhhhhhhhhohmymyohmymy
```

Sample Output 2

```
ohhmyyy
```

Explanation of Sample Output 2

The maximum number of ohmy phrases this screenplay could contain is two, so two h 's are outputted. The best way to create a valid screenplay is by deleting three characters:

ohhhhhhhhhh**o**hmy**m**yohm**y**my

Leaving:

ohhhhhhhhhhhmyyohmmy

Which separates into two ohmy phrases:

ohhhhhhhhhhmyy-ohmmy