

UWPC

Question 8

Signal Error Correction

You have recorded a repeating message signal that is partially corrupted. Your task is to recover the original message by finding the most frequent character for each position in the message.

Input

- Multiple lines of text representing the recorded messages. Each line is of the same length.

Output

- A single line of text representing the error-corrected version of the message, constructed by choosing the most frequent character in each column of the message.

Sample 1

Input

```
eedadn
drvtee
eandsr
raavrd
atevrs
tsrnev
sdttsa
rasrtv
nssdts
ntnada
svetve
tesnvt
vntsnd
vrdear
dvrsen
enarar
```

Output

```
easter
```

Explanation: The most common character in each column forms the word "easter".

Sample 2

Input

```
uqgc  
uwpc  
wwpc  
ugec
```

Output

```
uwpc
```

Explanation: The most common character in each column forms the word "uwpc".