Given a sequence of words, say which of them are palindromes and which are not. Remember that a word is a palindrome if it is read equal from left to right and from right to left.

Input

The first line of the input contains a number \( n \). The \( n \) following lines contain each one a non-empty word formed exclusively by uppercase letters.

Output

For each word, your program must print in a line if it is a palindrome following the format of the instance.

Sample input

```
2
CASA
POP
```

Sample output

```
CASA no es palindrom
POP es palindrom
```