

# Even Palindrome

[Vietnamese](#)

[English](#)

Palindrome is a string that has the property of reading the same in either direction (left to right or right to left). You are to determine whether a given string can be expressed as a concatenation of palindromes of even length.

Note: A string can be formed by concatenation of any number of even palindrome strings.

## Input

First line contains **T** ( $T < 100$ ), the number of test cases. **T** lines follow, each containing the string corresponding to that particular test case.

### Note:

There might be a new-line character (i.e. '\r' in C++) at the end of each line. Be careful with your languages.

## Output

Output consists of **T** lines, one corresponding to each test case. You should output *YES* if the string can be expressed as concatenation of even length palindromes and *NO* otherwise.

## Example

### Input:

```
3
madam
aA
aabb
```

### Output:

```
NO
NO
YES
```

## Constraints

Length of string  $\leq 10^6$