Palindroms

Timelimit: 2 sec

Problem description

Find out if a string is a palindrom. A palindrom is a word that is the same if you read it backwards.

For example, "heoeh" is a palindrom, but "hello" is not.

Input

A number n followed by n lines containing strings $s_1, \ldots, s_n$ each of length at least one from the alphabet of lower case letters.

The total length of all strings does not exceed 10^7.

Output

The output consists of n lines containing the strings YES or NO.

The kth line must contain YES iff s_k is a palindrom.

Sample input/output

Input	Output
5 aaaaa hello amanaplanacanalpanama aabaa ababb	YES NO YES YES NO