

CSE102: Data Structures and Algorithm
Winter 2016
Lab Test 1

Problem 2

Given a string, figure out whether any anagram of the string can be a palindrome or not.

Definitions

- Anagram: The result of rearranging the letters of a word or phrase to produce a new word or phrase. [Source: Wikipedia]
- Palindrome: a word, phrase, number, or other sequence of characters which reads the same backward or forward. [Source: Wikipedia]

Implement a function

char* checkPalind(char* s)

that takes the string as argument and returns a string "YES" or "NO". Call this function in your main method. We shall verify for this.

Input

First line contains an integer T, indicating the number of test cases
Following T lines contain a string in each line

Constraints

$1 \leq \text{length of string} \leq 105$

$1 \leq T \leq 100$

Each character of the string is a lowercase English letter.

Output

T lines which contain either YES or NO in uppercase.

Sample Input

```
2
aaabbbb
cdefghmnopqrstuvw
```

Sample Output

```
YES
NO
```