Palindro-Cost

Problem Submissions

Problem Statement

In the heart of a cosy town, there was a puzzling problem solver named Lily. Lily had a knack for turning strings into palindromes, but she had a rule – she could only change one letter at a time, and each change had a cost based on the absolute difference between the letters' positions in the alphabet where a=1 , b=2 ,c=3.... z= 26.

For example, changing 'a' to 'c' would cost 2, changing 'm' to 'z' would cost 13 , changing ‘z’ to ‘m’ would also cost 13. With this in mind, townsfolk would bring Lily their strings and a budget for changes.

With her trusty pencil and paper, Lily worked tirelessly to determine if she could transform the strings into palindromes within the given cost K. If she could, she'd cheerfully announce “YES”. If not, she'd gently explain the limitations of her craft and say “NO”.

Input Format

The first line will contain Q, the number of villagers who will give a string.. For every Queries, the input will contain one string and an integer cost K.

Constraints

- 1 <= Q <=100
- 1<=|S| <= 100000 (all characters in lowercase format)
- 0 <=K <= 100000

Output Format

Print “YES” (without quotes) if it is possible to transform the string to a palindrome within given costs. Otherwise print “NO” (without quotes).

Sample Input 0

```
3
abcbca 2
abxaba 3
xyzya 23
```

Sample Output 0

```
YES
NO
YES
```

Explanation 0

Explanation : In the 1st test case , the string is already palindrome , so no cost is required to make it palindrome , so the answer is YES.

2nd test case , there is no way to make the string palindrome using cost 3. In the 3rd test case , We can change the first letter 'x' to 'm' which will cost 24 - 13 = 11 , and the last letter 'a' to 'm' which will cost 13-1 = 12 . So the total cost is 11+12 = 23. We can make the string palindrome using cost 23.

Contest ends in 1 hour 28 minutes 19 seconds

Submissions: 37
Max Score: 1

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C++

```
#include <cmath>
#include <cstdio>
#include <vector>
#include <iostream>
#include <algorithm>
using namespace std;


int main() {
    /* Enter your code here. Read input from STDIN. Print output to STDOUT */
    return 0;
}

```

Line: 1 Col: 1

Upload Code as File Test against custom input Run Code Submit Code