

DMOPC '21 Contest 9 P2 - String Puzzle

Time limit: 2.0s **Memory limit:** 256M

Bored after completing all of the statistics handouts for the day, you turn around to take a peek at what Christian is doing. As it turns out, he is working on a list of T string puzzles. The goal of the i -th puzzle is to transform a string of lowercase letters A_i into the string B_i using the following operation any number of times:

- Select two consecutive occurrences of the same letter and replace them with one occurrence of the next letter in the alphabet. Note that `z` is the last letter of the alphabet, so `zz` cannot be replaced.

After working on the puzzles for a few minutes, you have a strange suspicion that some of them are impossible. Thus, write a program to determine if it is possible to solve each puzzle.

Constraints

$$1 \leq T \leq 10^5$$

$$1 \leq |A_i|, |B_i| \leq 10^6$$

The sum of $|A_i| + |B_i|$ over all puzzles does not exceed 10^6 .

A_i and B_i contain only lowercase letters.

Subtask 1 [30%]

A_i and B_i contain only `a` and `b`.

Subtask 2 [70%]

No additional constraints.

Input Specification

The first line contains an integer T .

The next T lines each contain 2 space-separated strings A_i and B_i .

Output Specification

For each puzzle, output `YES` if it is solvable or `NO` otherwise.

Sample Input

```
3
caabdfgg efh
zz z
dmopc funcontest
```

Sample Output

```
YES
NO
NO
```