Problem 1011.Kazuha's String

Kazuha has two strings S_1 and S_2 consisting of lowercase letters "a", "b" and "c", here are the possible operations:

Add or Delete "aa" at any place of the string.

Add or Delete "bbb" at any place of the string.

Add or Delete "$cccc$" at any place of the string.

Add or Delete "$ababab$" at any place of the string.

Add or Delete "$acacac$" at any place of the string.

Add or Delete "$bcbc$" at any place of the string.

Add or Delete "abc" at any place of the string.

Kazuha can operate any time with any operations, determine if S_1 can be transformed into S_2 .

Input

The first line contains one integer T $(1 \leq T \leq 2 \times 10^5)$.

The first line of each test case contains a single string S_1 .

The second line of each test case contains a single string S_2.

It guaranteed that the length of each string does not exceed 10^5, and the sum of string lengths does not exceed 2×10^6.

Output

For each test case, print a single line containing **yes** if S_1 can be transformed into S_2 and **no** otherwise.

Example Input

```
3
aa
bbb
bab
acc
acbacccac
bbcacacbc
```

Example Output

```
yes
yes
no
```