

Problem F

Flipping Substrings

Given two strings a and b . Your task is to determine whether it is possible to transform string a into string b , using only the following operation multiple (possibly zero) times: Select a substring of a with **odd length** and reverse it.

Recall that a substring is a contiguous sequence of characters within a string.

Input

The first line of the input contains a single integer t – the number of test cases. t test cases follow, each consists of 2 lines: the first line contains string a , and the second line contains string b .

It is guaranteed that the total length of all strings in the input does not exceed 10^5 , and all given strings contain lowercase English letters only.

Output

For each test case, print a single line containing YES if it is possible to transform string a into string b using the given operation only, and NO otherwise.

Sample Explanation

In the first test case, you can transform string a into string b using the following sequence of operations (note that it is not the one with least number of steps):

- Reverse substring `han`. a becomes `nahoi`.
- Reverse the whole string. a becomes `iohan`.
- Reverse substring `han`. a becomes `ionah`.

Sample Input 1

Sample Output 1

3	YES
hanoi	NO
ionah	YES
ac	
wa	
hue	
hue	