

# REMOVING CHARACTERS

Given two strings  $S_1$  and  $S_2$ . You are asked to check if it is possible to delete some characters from  $S_1$  to make it become  $S_2$ .

## Input

The first line is the string  $S_1$  ( $0 \leq |S_1| \leq 10^5$ )

The second line is the string  $S_2$  ( $0 \leq |S_2| \leq 10^5$ ).

Both strings contain only lowercase characters.

## Output

Print "YES" (without quotes) if it is possible to delete some characters from  $S_1$  to make it become  $S_2$ , otherwise print "NO".

## Sample

Input	Output
abcdb acb	YES
abcdb adc	NO