CONSTRUCT STRING

Given two strings s1 and s2, check if s2 can be can be constructed by using the letters from s1.

Input

The first line is the string s1 $(0 \le |s1| \le 10^5)$

The second line is the string s2 $(0 \le |s2| \le 10^5)$.

Both strings contain only lowercase characters.

Output

Print "YES" if s2 can be can be constructed by using the letters from s1, otherwise print "NO"

Sample

Input	Output
abcdbacdb acb	YES
abcc aabc	NO