

## Problem L. String Modification

Input file: *standard input*  
Output file: *standard output*  
Time limit: 2 seconds  
Memory limit: 512 mebibytes

Snuke received a string  $s$  as a new year present. Determine if he can convert it to his favorite string,  $t$ , by repeating the following operation zero or more times.

Operation: Choose a character from  $s$ , and insert another character right after the chosen character. The inserted character must be different from the chosen character.

For example, he can convert “abca” to “adbca” in a single operation by choosing the first ‘a’ and inserting a ‘d’ right after it. However, he can’t convert “abca” to “aabca” in a similar way.

### Input

First line of the input contains string  $s$ , second line contains string  $t$ . Both strings are composed of lowercase English letters,  $1 \leq |s| \leq |t| \leq 5000$ .

### Output

Print “Yes” in case when Snuke can convert  $s$  to  $t$ , or “No” otherwise.

### Examples

standard input	standard output
snuke snukent	Yes
snuke ssnuke	No