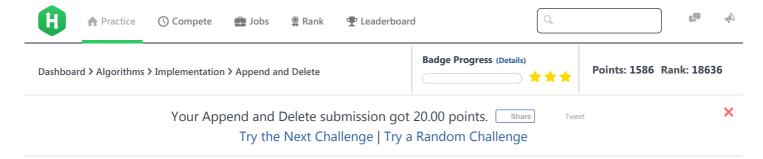
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# Append and Delete



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You have a string,  $\boldsymbol{s}$ , of lowercase English alphabetic letters. You can perform two types of operations on  $\boldsymbol{s}$ :

- 1. Append a lowercase English alphabetic letter to the end of the string.
- 2. Delete the last character in the string. Performing this operation on an empty string results in an empty string.

Given an integer, k, and two strings, s and t, determine whether or not you can convert s to t by performing exactly k of the above operations on s. If it's possible, print Yes; otherwise, print No.

### **Input Format**

The first line contains a string, **8**, denoting the initial string.

The second line contains a string, t, denoting the desired final string. The third line contains an integer, k, denoting the desired number of operations.

## Constraints

- $1 \le |s| \le 100$
- $1 \le |t| \le 100$
- $1 \le k \le 100$
- ullet and  $oldsymbol{t}$  consist of lowercase English alphabetic letters.

### **Output Format**

Print Yes if you can obtain string  $m{t}$  by performing exactly  $m{k}$  operations on  $m{s}$ ; otherwise, print No .

# Sample Input 0

hackerhappy hackerrank 9

### **Sample Output 0**

Yes

# **Explanation 0**

We perform  $\bf 5$  delete operations to reduce string  $\bf s$  to hacker. Next, we perform  $\bf 4$  append operations (i.e., r, a, n, and k), to get hackerrank. Because we were able to convert  $\bf s$  to  $\bf t$  by performing exactly  $\bf k=\bf 9$  operations, we print Yes.

# Sample Input 1

aba aba 3/31/2018 HackerRank

#### Sample Output 1

Yes

#### **Explanation 1**

We perform  $\bf 4$  delete operations to reduce string  $\bf s$  to the empty string (recall that, though the string will be empty after  $\bf 3$  deletions, we can still perform a delete operation on an empty string to get the empty string). Next, we perform  $\bf 3$  append operations (i.e., a, b, and a). Because we were able to convert  $\bf s$  to  $\bf t$  by performing exactly  $\bf k=7$  operations, we print Yes.

## Sample Input 2

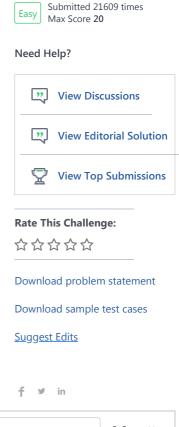
```
ashley
ash
2
```

## Sample Output 2

No

#### **Explanation 2**

To convert ashley to ash a minimum of 3 steps are needed. Hence we print No as answer.



```
C++14
Current Buffer (saved locally, editable) & • •
                                                                                                                      *
 1 ▼ #include <iostream>
 2 #include <string>
 3
    #include <algorithm>
    int main()
 5
 6 ₹ {
 7
        std::string str; std::cin >> str;
                                             // the initial string
 8
        std::string fin; std::cin >> fin;
                                             // the desired final string
 9
        size_t k ; std::cin >> k;
                                                 // operations
10
        int same = 0;
11
        for(size_t i =0; i < std::min(str.size(),fin.size()); ++i)</pre>
12
```

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```
13 ▼
                if(str[i] == fin[i]) same++;
  14
                else
                          break;
  15
           if( (str.size() + fin.size()) - (2*same) > k )
  16
                std::cout << "No" << std::endl;
  17
  18
           else if( ((str.size() + fin.size()) - (2*same))%2 == k%2 )
  19
                std::cout << "Yes" << std::endl;</pre>
  20
  21
           else if( str.size() + fin.size() <= k)
    std::cout << "Yes" << std::endl;</pre>
  22
  23
  24
                    std::cout << "No" << std::endl;</pre>
  25
  26
  27
           return 0;
      }
  28
  29
                                                                                                                           Line: 29 Col: 1
                                                                                                              Run Code
                                                                                                                             Submit Code
1 Upload Code as File
                        Test against custom input
```

Co	ngrats, you solved this challeng	ge!
	Challenge your friends: f 💆 in	
✓ Test Case #0	✓ Test Case #1	✓ Test Case #2
✓ Test Case #3	✓ Test Case #4	✓ Test Case #5
✓ Test Case #6	✓ Test Case #7	✓ Test Case #8
✓ Test Case #9	✓ Test Case #10	✓ Test Case #11
✓ Test Case #12	✓ Test Case #13	
	You's	ve earned 20.00 points. Next Challenge

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