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Append and Delete

by zemen

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You have a string, s, of lowercase English alphabetic letters. You can perform two types of operations on 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, s, 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

- $1 \leq |s| \leq 100$
- $1 \leq |t| \leq 100$
- $1 \leq k \leq 100$
- s and t consist of lowercase English alphabetic letters.

Output Format

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

Sample Input 0

```
hackerhappy
hackerrank
9
```

Sample Output 0

```
Yes
```

Explanation 0

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

Sample Input 1

```
aba
aba
7
```

Sample Output 1

```
Yes
```

Explanation 1

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

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Current Buffer (saved locally, editable) C++14

```
#include <iostream>
#include <string>
#include <algorithm>

int main()
{
    std::string str; std::cin >> str;   // the initial string
    std::string fin; std::cin >> fin;   // the desired final string
    size_t k ; std::cin >> k;              // operations

    int same = 0;
    for(size_t i =0; i < std::min(str.size(),fin.size()); ++i)
```

```
        if(str[i] == fin[i]) same++;
        else     break;

    if( (str.size() + fin.size()) - (2*same) > k )
        std::cout << "No" << std::endl;

    else if( ((str.size() + fin.size()) - (2*same))%2 == k%2 )
        std::cout << "Yes" << std::endl;

    else if( str.size() + fin.size() <= k)
        std::cout << "Yes" << std::endl;

    else    std::cout << "No" << std::endl;

    return 0;
}

```

Line: 29 Col: 1

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