

# Super Reduced String **■**



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Steve has a string, **s**, consisting of **n** lowercase English alphabetic letters. In one operation, he can delete any *pair of adjacent letters* with same value. For example, string "aabcc "would become either "aab " or "bcc " after **1** operation.

Steve wants to reduce s as much as possible. To do this, he will repeat the above operation as many times as it can be performed. Help Steve out by finding and printing s's non-reducible form!

Note: If the final string is empty, print Empty String .

#### **Input Format**

A single string, s.

#### **Constraints**

•  $1 \le n \le 100$ 

# **Output Format**

If the final string is empty, print Empty String; otherwise, print the final non-reducible string.

# Sample Input 0

aaabccddd

## Sample Output 0

abd

## Sample Case 0

Steve can perform the following sequence of operations to get the final string:

- 1. aaabccddd → abccddd
- 2. abccddd → abddd
- 3. abddd → abd

Thus, we print abd.

#### Sample Input 1

baab

## Sample Output 1

Empty String

## **Explanation 1**

Steve can perform the following sequence of operations to get the final string:

```
1. baab → bb
```

```
2. bb \rightarrow Empty String
```

Thus, we print Empty String.

# Sample Input 2

aa

# **Sample Output 2**

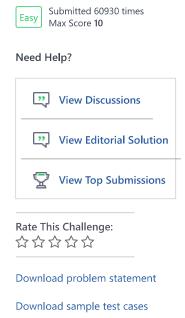
Empty String

#### **Explanation 2**

Steve can perform the following sequence of operations to get the final string:

```
1. aa \rightarrow Empty String
```

Thus, we print Empty String.



**Suggest Edits** 

```
8
 9 ▼ int main() {
 10
         string s;
 11
         cin >> s;
 12
         string result = super_reduced_string(s);
         cout << result << endl;</pre>
 13
         return 0;
 14
 15
    }
 16
                                                                                                                                 Line: 16 Col: 1
                         Test against custom input
                                                                                                                   Run Code
                                                                                                                                  Submit Code
1 Upload Code as File
```

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