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Super Reduced String

by harshil7924

Problem

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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

- $1 \leq n \leq 100$

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:

- aaabccddd \rightarrow abccddd
- abccddd \rightarrow abddd
- abddd \rightarrow 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 → 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 → Empty String

Thus, we print Empty String.

f t in

Submissions: [64590](#)



Max Score: 10



Difficulty: Easy

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Current Buffer (saved locally, editable)  

C++14  

```
1 #include <bits/stdc++.h>
2 using namespace std;
3
4 string super_reduced_string(string s)
5 {
6     for(unsigned int i=1; i<s.length(); ++i)
7         if(s.at(i-1)==s.at(i))
8         {
9             s.erase(i-1,2);
10            i=0;
11        }
12    if(s.length()==0)
13        return "Empty String";
14    else
15        return s;
16 }
17
18 int main()
19 {
20     string s;
21     cin >> s;
22     if(s.length()>=1 && s.length()<=100)
23     {
24         string result = super_reduced_string(s);
25         cout << result << endl;
26     }
27     return 0;
28 }
29
```

Line: 1 Col: 1

 [Upload Code as File](#) ☐ Test against custom input

Run Code

Submit Code

Congrats, you solved this challenge!

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- ✓ Test Case #0
- ✓ Test Case #3
- ✓ Test Case #6
- ✓ Test Case #9
- ✓ Test Case #12
- ✓ Test Case #15

- ✓ Test Case #1
- ✓ Test Case #4
- ✓ Test Case #7
- ✓ Test Case #10
- ✓ Test Case #13

- ✓ Test Case #2
- ✓ Test Case #5
- ✓ Test Case #8
- ✓ Test Case #11
- ✓ Test Case #14

You've earned 10.00 points.

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