



Super Reduced String ☆

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Problem

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Editorial

 Editorial by [harshil7924](#)

In this problem, to get the fully reduced string, we have to use stack. Suppose we are at i^{th} position of the string. If the character at top of the stack is the same as $S[i]$, we pop the top element of stack and move to the $i+1^{\text{th}}$ position. Otherwise if the stack is empty or the top element is not equal to $S[i]$, we will push $S[i]$ to top of the stack and then move to $i+1^{\text{th}}$ position. Our final answer is all the elements present in the stack from bottom to top. See the setter's code for implementation details.

 Set by [harshil7924](#)

Problem Setter's code:

```
// There is nothing in a caterpillar that tells you its going to be a butterfly ----- !
#include<bits/stdc++.h>
using namespace std;
#define rep(i,n) for(int i=0;i<n;i++)
#define ll long long int
#define pi pair<ll,ll>
#define pii pair<ll,pi>
#define f first
#define mp make_pair
#define mod 1000000007
#define s second
#define pb push_back
int main(){

    string S;
    cin >> S;
    vector<char>ans;
    rep(i,S.length()){
        if(ans.size()==0 or S[i]!=ans.back()) ans.pb(S[i]);
        else ans.pop_back();
    }
    if(ans.size()==0) cout<<"Empty String";
    else{
        for(auto x:ans) cout<<x;
    }
}
```

 Tested by [AllisonP](#)

Problem Tester's code:

```
import java.util.*;

public class Solution {

    public static void main(String[] args) {
        Scanner scan = new Scanner(System.in);
        String s = scan.next();
        scan.close();

        while (true) {
            // Used for loop termination
            int len = s.length();
```



```
// "(.)" is a capturing group that captures any character
// "\\1" is a backreference that will match the character captured by the first capturing group (i.e. the one cap
s = s.replaceAll("(.)\\1", "");

// If no changes were made to string, break loop
if( s.length() == len ){
    break;
}

System.out.println( (s.isEmpty()) ? "Empty String" : s);
}
```

Feedback

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