

<https://course.acciojob.com/idle?question=e44c691c-d898-4fe4-8b1f-7de20c826a8d>

MEDIUM

Max Score: 40 Points

String Cleaner

Bob was given a string `str`, he was asked to delete the adjacent same characters and return the new string. Help Bob in solving this question (use recursion to solve).

Input Format

The first line of input contains a string `str`.

Output Format

Return the string after deleting the same adjacent characters.

Example 1

Input

`Hello`

Output:

`HeLo`

Explanation:

`ll` are the characters same and adjacent to each other so we delete one of them and get `HeLo` as output.

Example 2

Input

`XXabcYY`

Output:

`XabcY`

Explanation:

`xx` and `yy` are the characters same and adjacent to each other so we delete one of each of them and get `xabcY` as output.

Constraints

$1 \leq N \leq 1000$

Topic Tags

Recursion

My code

// in java

```
import java.io.*;
```

```
import java.util.*;
```

```
public class Main {
```

```
    public static void main(String args[]) throws IOException {
```

```
        Scanner sc = new Scanner(System.in);
```

```
        String str=sc.nextLine();
```

```
Solution accio=new Solution();
String ans=accio.findString(str);

System.out.println(ans);
}
}
```

```
class Solution {

    public String findString(String str)
    {
        // Your code here
        int n=str.length();
        String st="";
        char prev=str.charAt(0);
        st+=Character.toString(prev);
        for(int i=1;i<n;i++)
        {
            if(str.charAt(i)==prev)
                continue;
            else
            {
                prev=str.charAt(i);
                st+=Character.toString(prev);
            }
        }
        return st;
    }
}
```

