

S.No: 5	Exp. Name: Removing duplicate characters from a glitchy message by using StringBuffer constructor	Date:2024-08-23
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Aim:

A group of friends sent a message to Jaya, but due to a technical glitch, the message contained duplicate characters. To overcome this kind of problem she decided to craft a Java program using a **StringBuffer** constructor that takes the glitchy message as input and returns a new string with all duplicate characters removed.

How can Jaya craft this program?

Input Format:

The input line reads a string representing the glitchy message.

Output Format:

The output is a string after removing the duplicate characters (Including special characters, space).

Note: Use println() to print the output statements.

Source Code:

q22135/Main.java

```
package q22135;
import java.util.HashSet;
import java.util.Scanner;
import java.util.Set;
public class Main{
    public static void main(String[] args){
        Scanner scanner=new Scanner(System.in);
        String input=scanner.nextLine();
        StringBuffer result=new StringBuffer();
        Set<Character>seen=new HashSet<>();
        for(char c:input.toCharArray()){
            if(!seen.contains(c)){
                seen.add(c);
                result.append(c);
            }
        }
        System.out.println(result.toString());
    }
}
```

Execution Results - All test cases have succeeded!

Test Case - 1
User Output
abcdef
abcdef

Test Case - 2
User Output
a a b b c c
a bc