

```
public static String removeDoubleCharacters(String str) {  
    if (str.isEmpty()) {  
        return str;  
    }
```

```
    StringBuilder result = new StringBuilder();
```

```
    char prev = str.charAt(0);
```

```
    result.append(prev);
```

```
    for (int i = 1; i < str.length(); i++) {
```

```
        char cur = str.charAt(i);
```

```
        if (prev != cur) {
```

```
            result.append(str.charAt(i));
```

```
        }
```

```
        prev = cur;
```

```
    }
```

```
    return result.toString();
```

```
}
```