```
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();
```