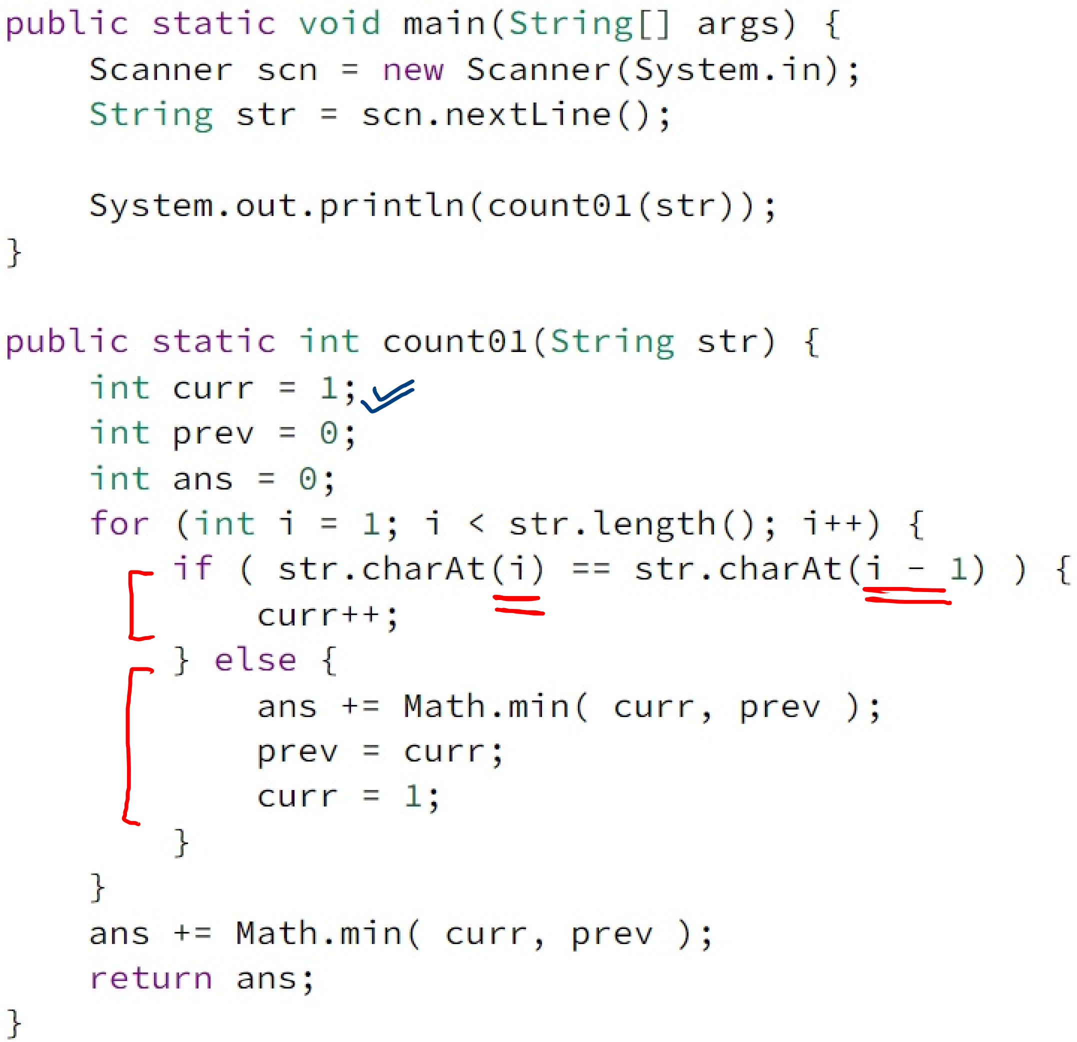
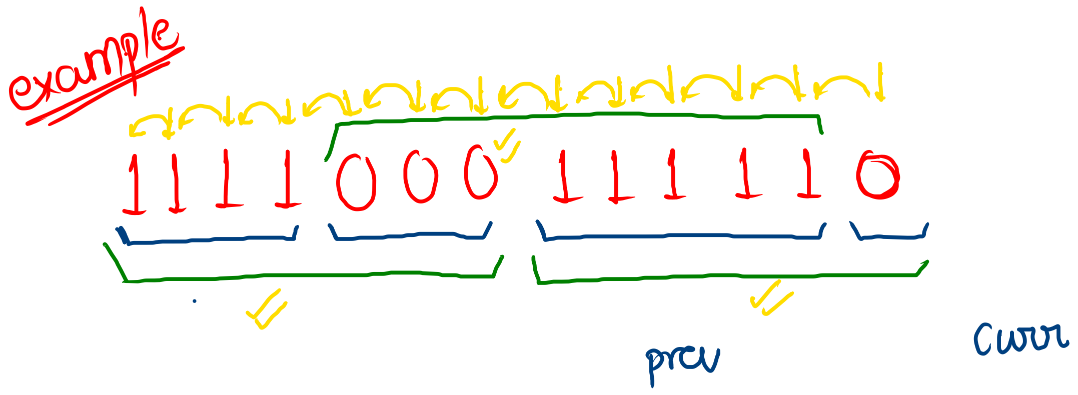


```
public static void main(String[] args) {
    Scanner scn = new Scanner(System.in);
    String str = scn.nextLine();

    System.out.println(count01(str));
}

public static int count01(String str) {
    int curr = 1;
    int prev = 0;
    int ans = 0;
    for (int i = 1; i < str.length(); i++) {
        if ( str.charAt(i) == str.charAt(i - 1) ) {
            curr++;
        } else {
            ans += Math.min( curr, prev );
            prev = curr;
            curr = 1;
        }
    }
    ans += Math.min( curr, prev );
    return ans;
}
```



prev= ~~0~~ ~~4~~ ~~3~~ 5

curr= ~~1~~ ~~2~~ ~~3~~ ~~4~~ ~~1~~ ~~2~~ ~~3~~ ~~1~~ ~~2~~ ~~3~~ ~~4~~ ~~5~~ 1

ans = 0 + 3 + 3 + 1

= 7

Long Pressed Name

examples

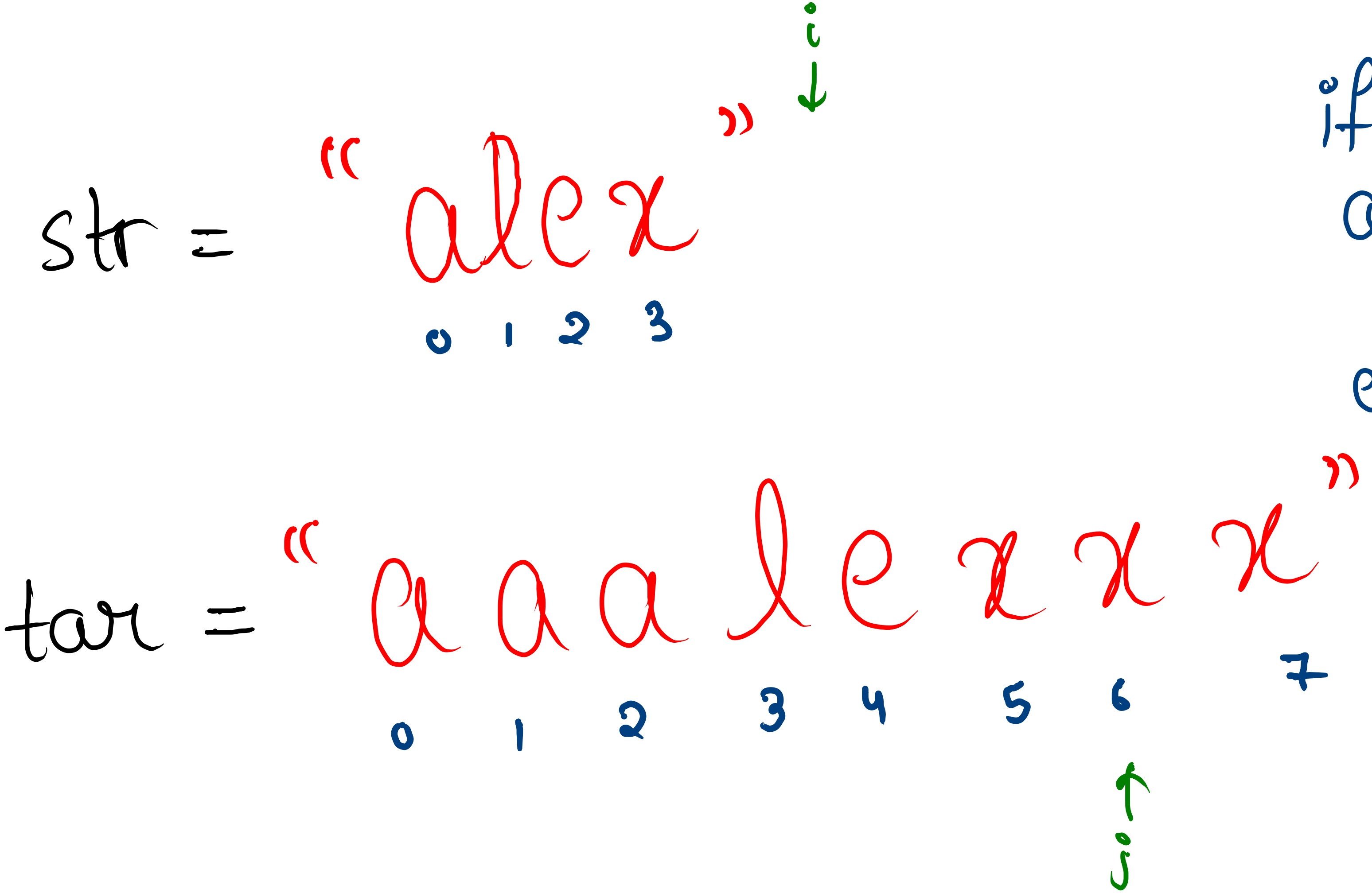
1) str = "alex"
target = " aaleex " True

2) str = " alex "
target = " aaclxx " False

3) str = "Dhiraj "
target = " DDiirajj " False

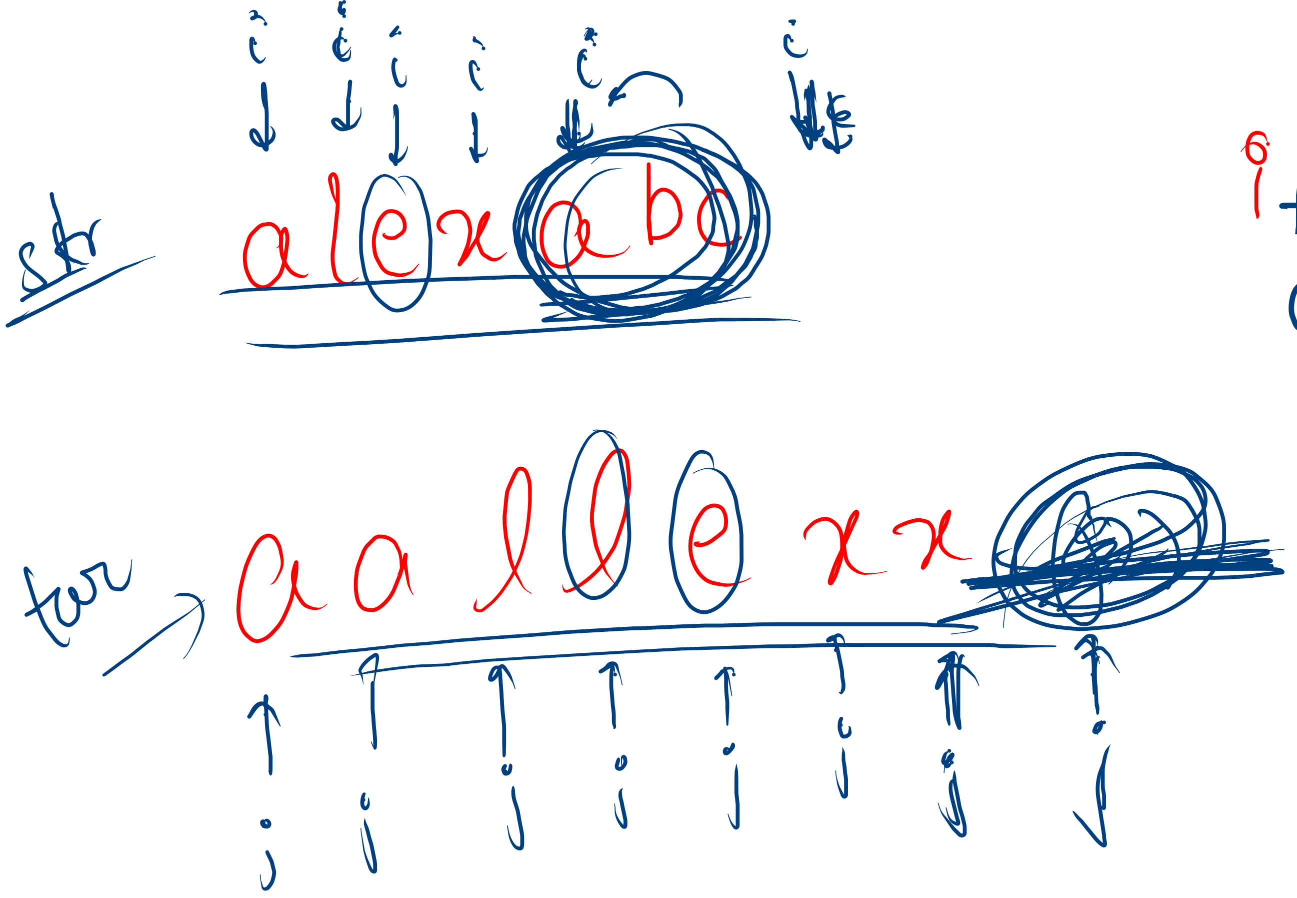
a) Array as HM

✓ b) 2 pointers



if i char & j char are same :-
  i++ , j++
else
  j++

1) when char are equal
2) " " " unequal
3) when to stop



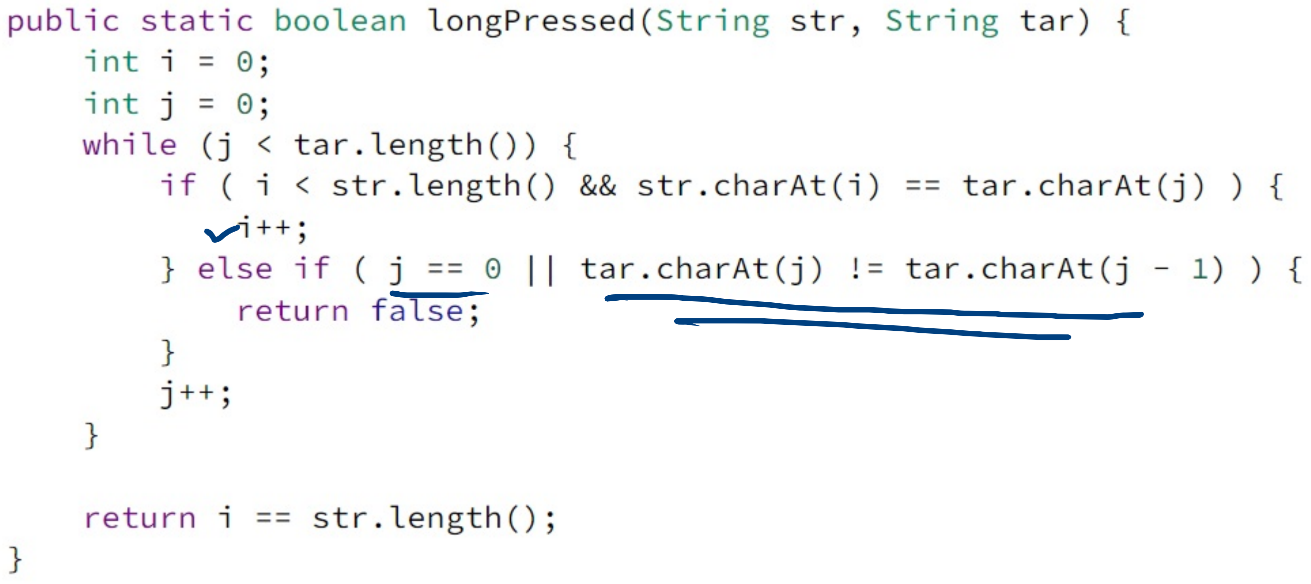
if i char & j char are same :-

i++ , j++

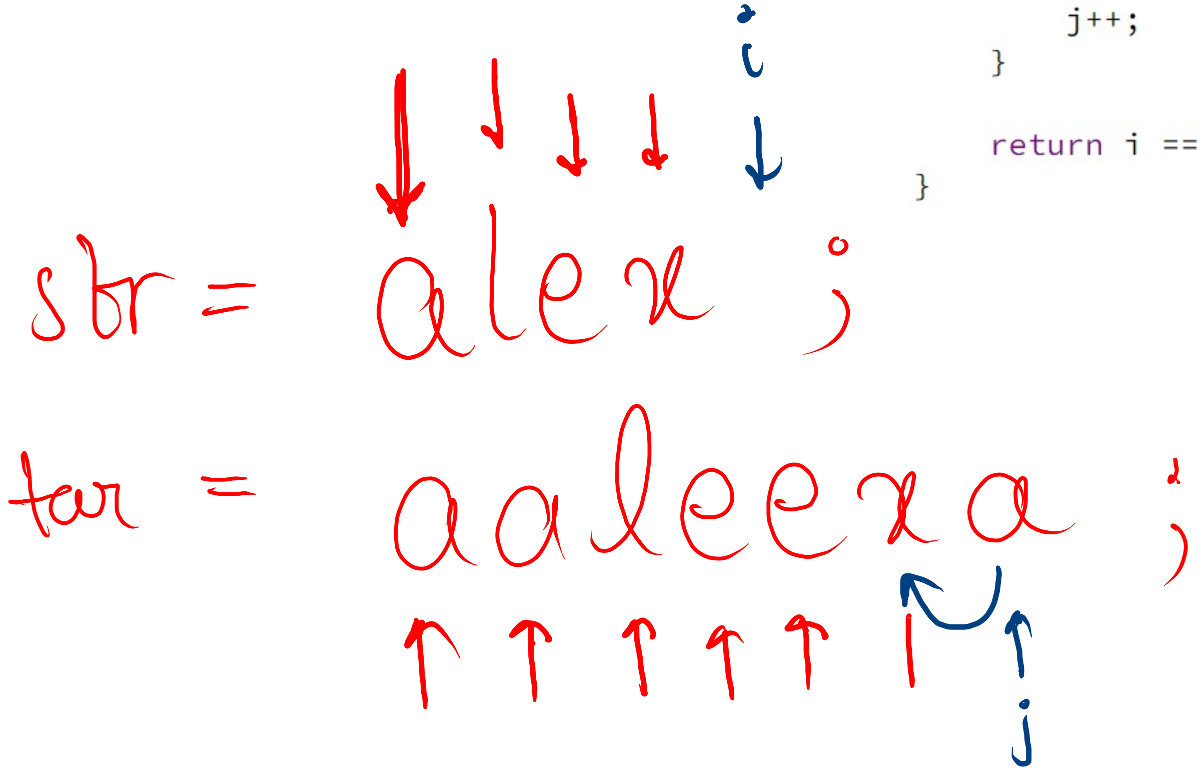
else

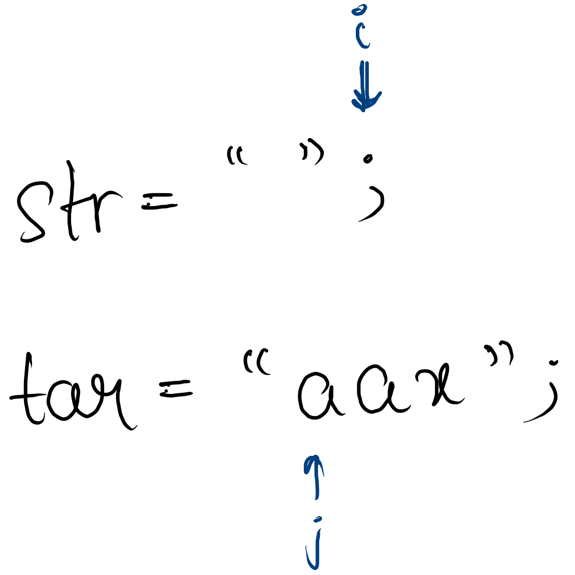
j++

False

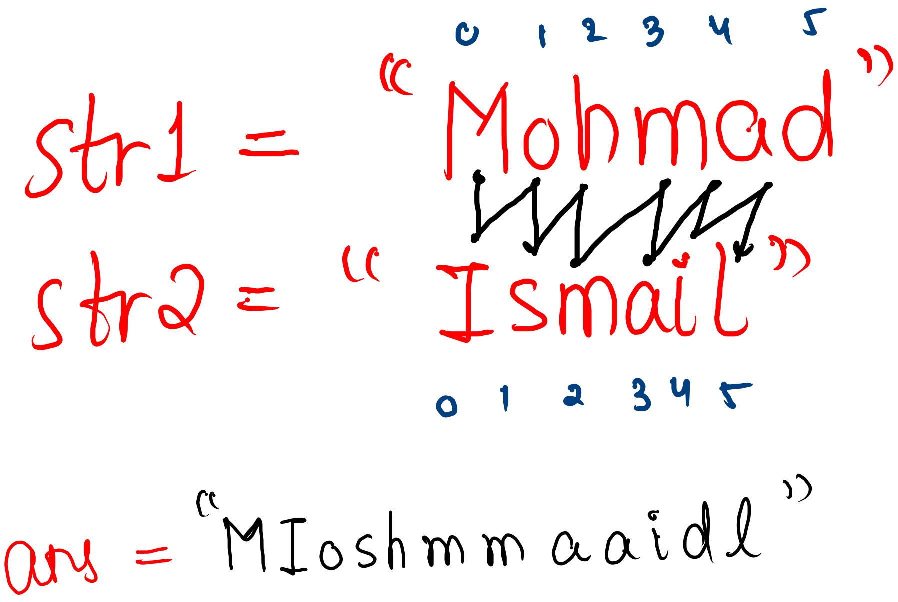


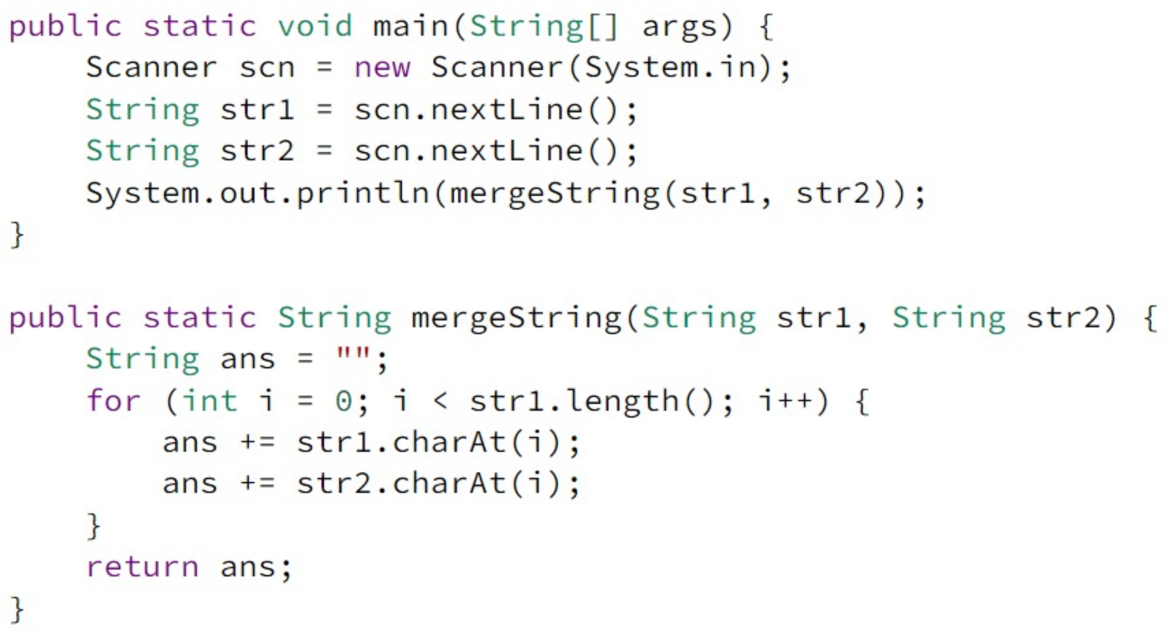
```
public static boolean longPressed(String str, String tar) {
    int i = 0;
    int j = 0;
    while (j < tar.length()) {
        if ( i < str.length() && str.charAt(i) == tar.charAt(j) ) {
            i++;
        } else if ( j == 0 || tar.charAt(j) != tar.charAt(j - 1) ) {
            return false;
        }
        j++;
    }

    return i == str.length();
}
```





Merge Strings Alternatively





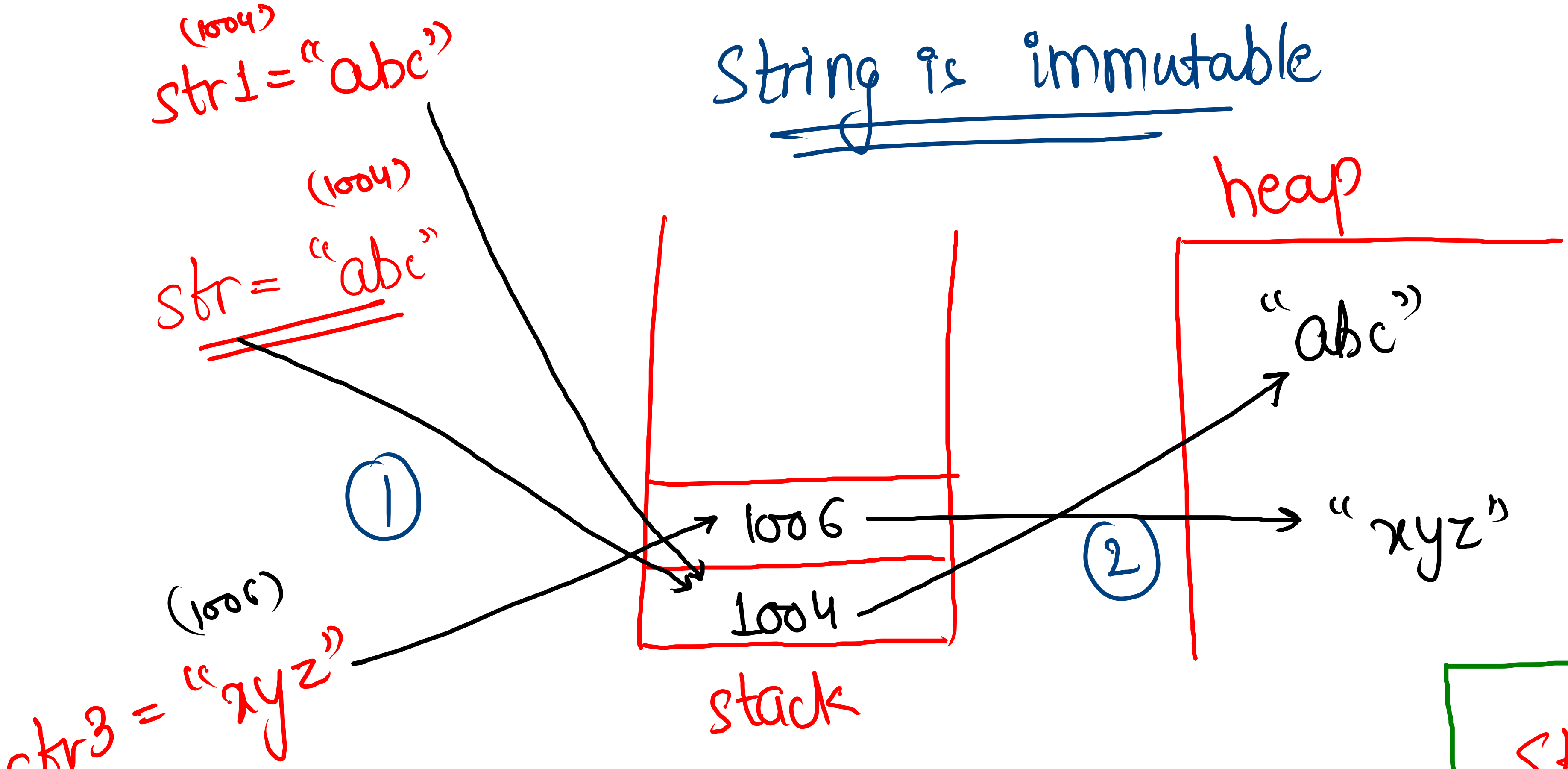
```java
public static void main(String[] args) {
    Scanner scn = new Scanner(System.in);
    String str1 = scn.nextLine();
    String str2 = scn.nextLine();
    System.out.println(mergeString(str1, str2));
}

public static String mergeString(String str1, String str2) {
    String ans = "";
    for (int i = 0; i < str1.length(); i++) {
        ans += str1.charAt(i);
        ans += str2.charAt(i);
    }
    return ans;
}
```

⇒ String in Java is Immutable

```
(1000)  ans = " ";

(1002)  ans = "a";

(1004)  ans = "ax";

(1006)  ans = "axb";

(1008)  ans = "axby";
           ⋮
```

```
str1 = "abc";

str2 = "xyz";
```

String is immutable



2 level architecture

StringBuilder

StringBuffer