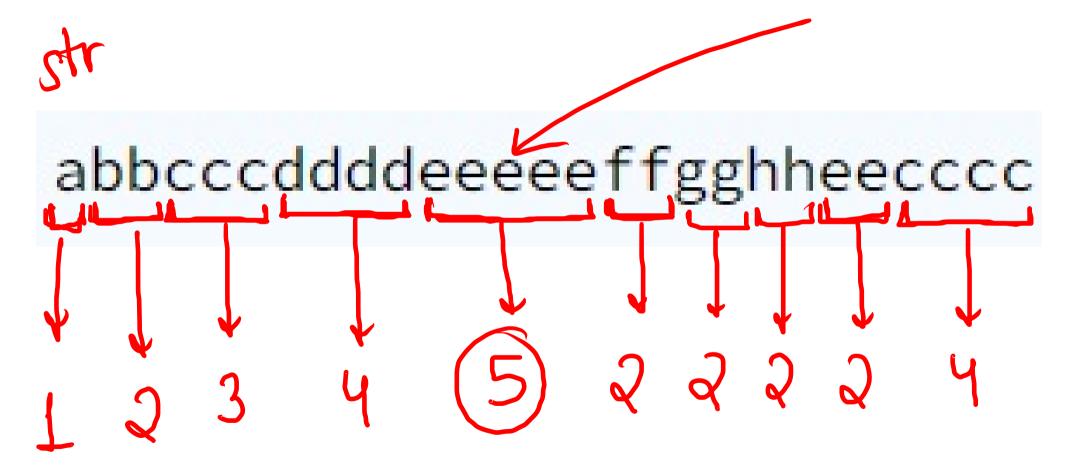
Power of a String

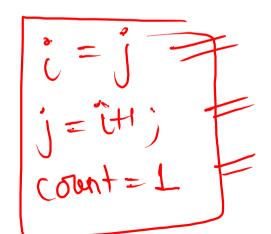


aaaaabbb CCCC

$$i=0;$$
 count=1
 $j=i+1;$ ans=0
if strop $a==$ strop b
count++; j++;

$$count = X 2 3 4 8 X 2 3 X 2 3 4$$

$$ans = 85$$



```
public static void main(String[] args) {
    Scanner scn = new Scanner(System.in);
    String str = scn.nextLine();
    int ans = powerOfString(str);
    System.out.println(ans);
public static int powerOfString(String str) {
    int i = 0;
    int count = 1;
    int ans = 0:
   while (i < str.length()) {</pre>
        int j = i + 1;
        while (j < str.length()) {</pre>
            if (str.charAt(i) != str.charAt(j)) {
                ans = Math.max(ans, count);
                count = 1;
                break:
            count++;
            j++;
        i = j;
    ans = Math.max(ans, count);
    return ans;
```

abbcccddddeeeeeffgghheeccccc

abcdefg:- accessing all elements atmost 2 times $T_0C = O(2\times n) \cong O(n)$

Long Pressed Name

Psudo code while (j< our length)

if strofi == type of j

rif (i==str.length()) frue lesse false

```
public static void main(String[] args) {
    Scanner scn = new Scanner(System.in);
    String str = scn.nextLine();
    String typo = scn.nextLine();
   int i = 0;
   int j = 0;
   while ( j < typo.length() ) {
        if ( i < str.length() && str.charAt(i) == typo.charAt(j) ) {
            j++;
            j++;
                                             out of bound test case:
        } else {
           j++;
                                               str = a
typo = aca
    if ( i == str.length() ) {
        System.out.println(true);
    } else {
        System.out.println(false);
```

Compress The String

code

```
public static void main(String[] args) {
    Scanner scn = new Scanner(System.in);
    String s = scn.nextLine();
    String ans = "";
    for (int i = 0; i < s.length(); i++) {
        int count = 1;
        while (i + 1 < s.length() \&\& s.charAt(i) == s.charAt(i + 1)) {
            count++;
            j++;
        ans += s.charAt(i);
        if (count > 1) {
            ans += count;
    System.out.println(ans);
```