

s = "7"

ch = '7' - '0' = 7

Sum of All Substrings

Take a **String str** as input and print the **sum** of all **substrings** of a string representing a **number**.

```
Eg: str="1234"

Sum = 1 + 2 + 3 + 4 + 12 + 23 + 34 + 123 + 234 + 1234 = 1670
```

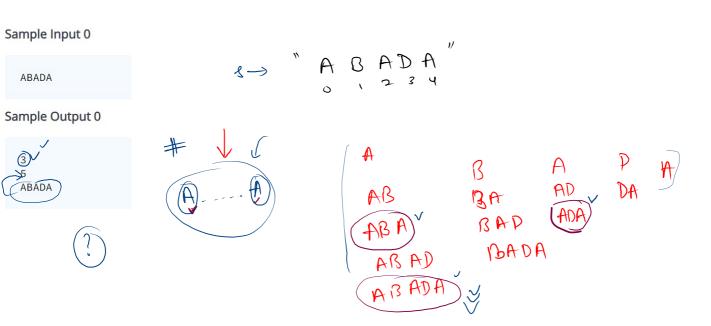
```
8 \rightarrow "1234"
"1''
"12''
123
123
1234
```

```
import java.io.*;
 2 import java.util.*;
 4 public class Solution {
       public static void main(String[] args) {
           Scanner scn = new Scanner(System.in);
           String s = scn.next();
           int ans = 0;
           for(int i = 0; i < s.length(); i++){
10
11
               for(int j = i; j < s.length(); j++){</pre>
12
                   ans += Integer.parseInt(s.substring(i, j+1));
13
14
           System.out.println(ans);
15
16
17 }
```

Desired String

Take a **string** as input. Print the **count** of all the **substrings** that start with 'A' and end with 'A'. Also print the **length** of the **longest** such substring in the **second line**. In the **third line**, print that **longest substring**.

If no such substring exists, print -1.



```
longest = "ADA"
public static void main(String[] args) {
    Scanner scn = new Scanner(System.in);
   String s = scn.next();
   int count = 0; //A....A
   String longest = "";
   for(int i = 0; i < s.length(); i++){
        for(int j = i; j < s.length(); j++){
            String ss = s.substring(i, j+1);
            if(ss.length() > 1 \& ss.charAt(0) == 'A' \& ss.charAt(ss.length()-1) == 'A'){
                count++;
                if(ss.length() > longest.length()){
                    longest = ss;
                }
   if(count == 0){
        System.out.println(-1);
   }else{
        System.out.println(count);
        System.out.println(longest.length());
        System.out.println(longest);
```

BADA

5 6 ▼

10

13

15

16 17 •

18 19

24

26

27 28

29 30

25 ▼

14 ▼

Power of a String

Take a **String str** as input and calculate the **Power** of the string.

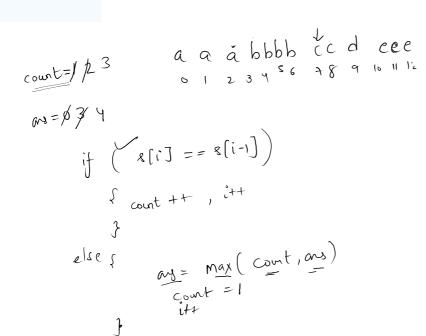
Power of a string is defined as the maximum length of substring that contains only one unique character.

A **substring** is a continuous sequence of characters within a string.

Note: All characters in the string are in lowercase.

Sample Input 0

Sample Output 0



(out=/2/3)

```
1 vimport java.io.*;
    import java.util.*;
 4 ▼public class Solution {
 6
        public static void main(String[] args) {
7
            Scanner scn = new Scanner(System.in);
 8
            String s = scn.next();
 9
            int count = 1;
10
            int ans = 0;
11
            int idx = 1;
12 ▼
            while(idx < s.length()){</pre>
13 ▼
                if(s.charAt(idx) == s.charAt(idx-1)){
14
                    count++;
15 ▼
                }else{
16
                    ans = Math.max(count, ans);
17
                    count = 1;
18
19
                idx++;
20
21
            System.out.println(ans);
22
23 }
```

1 < 4 2 < 4 3 < 9 (4 < 4) >

b b aaaaa

```
Language: Java 8
```

24 }

```
1 import java.io.*;
2 import java.util.*;
4 public class Solution {
5
6
       public static void main(String[] args) {
           Scanner scn = new Scanner(System.in);
           String s = scn.next();
           int count = 1;
10
           int ans = 0;
11
           int idx = 1;
12
           while(idx < s.length()){</pre>
13
               if(s.charAt(idx) == s.charAt(idx-1)){
14
                   count++;
15
               }else{
16
                   ans = Math.max(count, ans);
17
                   count = 1;
18
19
               idx++;
20
21
        \# ans = Math.max(count, ans);
22
           System.out.println(ans);
23
```

```
Merge String Alternatively
                      s→ GEEK
Sample Input 0
  GEEK
  STER
                      u, "GSETEE KR"
Sample Output 0
  GSETEEKR
                                                   €> " GAME"

+>" PLAN"
     import java.io.*;
   2 import java.util.*;
   4 public class Solution {
        public static void main(String[] args) {
                                                     W= GPALMAEN
            Scanner scn = new Scanner(System.in);
            String s = scn.next();
            String t = scn.next();
                                                                    0<7
                                                       1=8
            String ans = "";
            for(int i = 0; i < s.length(); i++){
                                                                     1<4
               ans += s.charAt(i);
               ans += t.charAt(i);
                                                                     2 < 4
  15
            System.out.println(ans);
                                                                    3 < 4
  17
  18 }
```

6

8

9

11

12

13

14

16