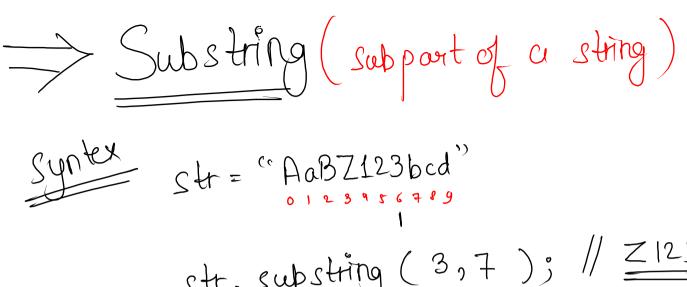
Find Distance B/W Two Characters



```
public static void main(String[] args) {
    Scanner scn = new Scanner(System.in);
    String str = scn.nextLine();
    char ch1 = scn.next().charAt(0);
    char ch2 = scn.next().charAt(0);
    System.out.println(findDistance(str, ch1, ch2));
public static int findDistance(String str, char ch1, char ch2) {
    int ans = Integer.MAX_VALUE;
    for (int i = 0; i < str.length(); i++)
        if ( str.charAt(i) == ch1 )
            for (int j = i + 1; j < str.length(); j++)
                if ( str.charAt(j) == ch2 )
                    ans = Math.min(ans, j - i - 1);
    return ans;
}
```



str. substring (3,7); $\frac{Z123}{Str. substring}(1,4)$; $\frac{ABZ}{2bcd}$ str. substring (6); $\frac{ABZ}{2bcd}$

Note:

T. C of substime ((N)

ab (0,2) abc (0,3)

psudo code 1) loop i start at 0 101) loop j start at i+1

code

Sum of All Substrings

code

```
public static void main(String[] args) {
     Scanner scn = new Scanner(System.in);
     String str = scn.nextLine();
     int ans = 0;
     for (int i = 0; i < str.length(); i++) {
     for (int j = i + 1; j <= str.length(); j++) {
   String subs = str.substring(i, j);
   ans = ans + Integer.parseInt(subs);</pre>
     System.out.println(ans);
```

Desired String

 ("A" X
 ("A" X

 ("BA")
 ("AO")

 ("BAD")
 ("AOA")

 ("BADA")
 ("AOA")

- Quel 1) count substring with "A" at start and end 2) print longest such substing
 - 3) print den of longest substring



```
public static void main(String[] args) {
    Scanner scn = new Scanner(System.in);
    String str = scn.nextLine();
   int count = 0;
   int len = 0;
    String maxSubstring = "";
   for (int i = 0; i < str.length(); i++) {</pre>
      for (int j = i + 1; j <= str.length(); j++) {
            String subs = str.substring(i, j);
           -if ( subs.length() != 1 && subs.charAt(0) == 'A' && subs.charAt(subs.length() - 1) == 'A' ) {
              rif ( subs.length() > len ) {
                  maxSubstring = subs;
                   len = subs.length();
    if ( count == 0 ) {
        System.out.println(-1);
    } else {
        System.out.println(count);
        System.out.println(len);
        System.out.println(maxSubstring);
```