## Sum of All Substrings

> How to convert a String to Integer

1) Integer. panse Int (str);

2) Integer. value Of (str);

Sum = 0 1) loop i from 0 to (n-1) 1.1) loop j from (i+1) to (n) 1.1.1) find substring and convert into int sum += int netun sum;

```
Code
```

```
7. C = 0(N3)
```

```
public static void main(String[] args) {
    Scanner scn = new Scanner(System.in);
    String str = scn.nextLine();
    int ans = sumOfSub(str);
    System.out.println(ans);
public static int sumOfSub(String str) {
    int sum = 0;
    for (int j = i + 1; j <= str.length(); j++) {
String sub = str.substring(i, j);
int num = Integer pares T
    for (int i = 0; i < str.length(); i++) {
             sum += num;
    return sum;
```

## **Desired String**

-> count the substrings that start and end with 'A' > print length of longest substring with above cond is print that longest substring psudo code 1) loop i from 0 to (n-1) 1.1) loop if from (i+1) to (n) 1.1.1) find substring and check if start & end with 'A' count 4 3

Sub

PA AD BA AB

BAD - ABA

BADA ABAD

MABADA

Jen = 5 Sub = ABADA

count = 3

```
code
```

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

Power of a String (Imp)



```
count = 1, and = -\infty
1) traverse i loop from 0 to (n-2)
  1.1) check if charati == charat (i+1)
       Count ++;
  (1.2) check if charati! = charat(i+1)
         ary = max (ans, count);
         Count = 1
```

2) return ans ;