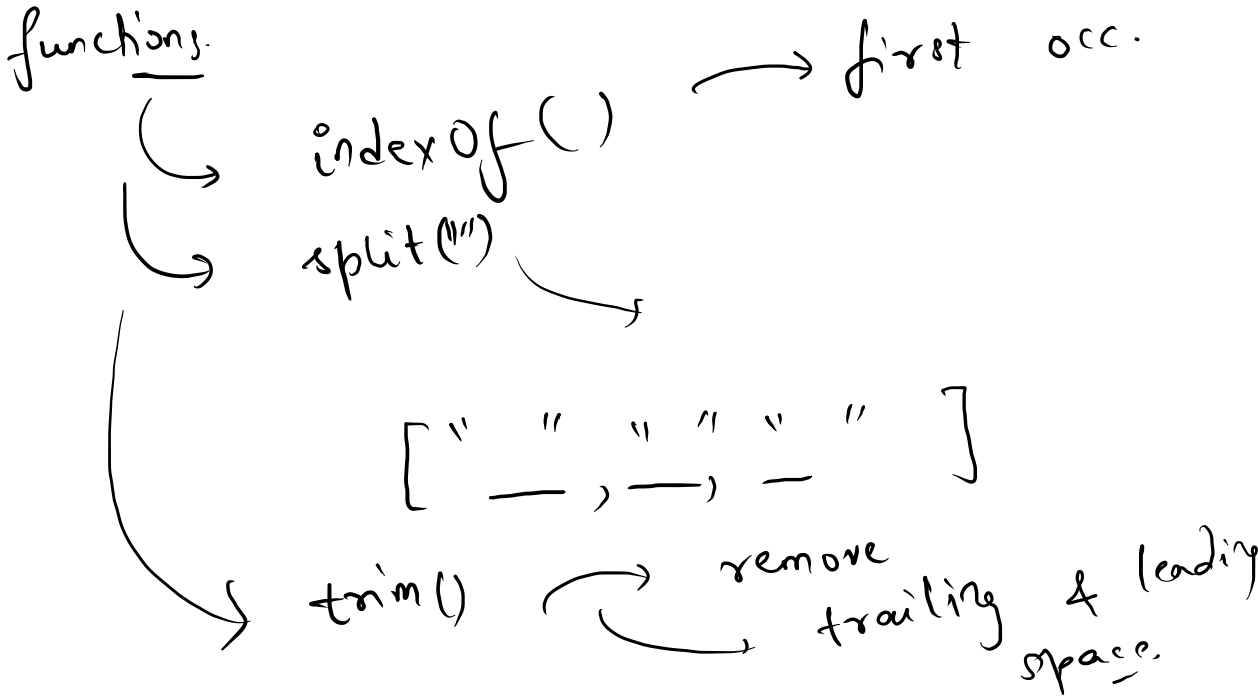
Revision.


functions.
indexOf()
first occ.
split("")
[" " " " " " " "]
trim()
remove trailing & leading space.

Substring.

Sub-array.

n = 4

s → abcd

4(5)/2

= 10

a b c d

ab bc cd

abc bcd

abcd

1 2 3 4 5

$t = n(n+1)/2$

= 15

1 2 3 4 5

12 23 34 45

123 234 345

1234 2345

12345

Substring. ⇝ Print all substring.

"a b c d"

0 1 2 3

$_0a_0$ $_1b_1$ $_2c_2$ $_3d_3$

$_0a\ b_1$ $_1b\ c_2$ $_2cd_3$

$_0a\ b\ c_2$ $_1b\ c\ d_3$

$_0a\ b\ cd_3$ $_1b\ cd_3$

st. pt	end.
0	0 1 2 3
1	1 2 3
2	2 3
3	3

s , e

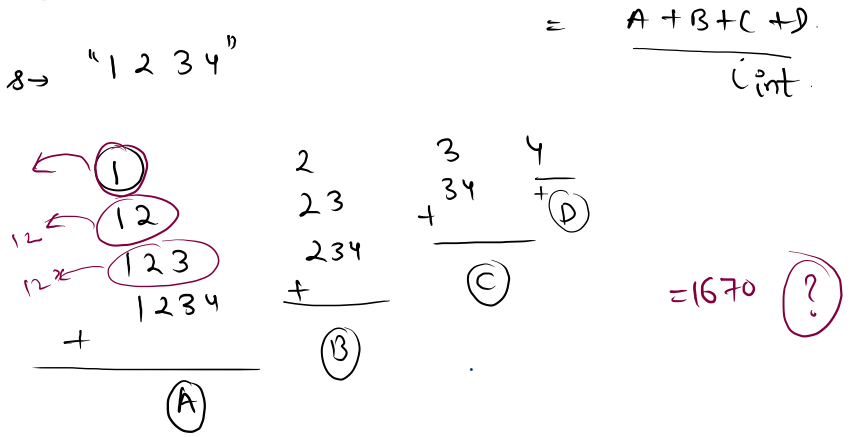
[1 , 3]

↓

bcd.

```java
public class Solution {

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

        for(int st = 0; st < s.length(); st++){
            for(int end = st; end < s.length(); end++){

                for(int k = st; k <= end; k++){
                    System.out.print(s.charAt(k));
                }
                System.out.println();

            }
        }
    }
}
```

Sum of All Substrings




```java
import java.io.*;
import java.util.*;

public class Solution {

    public static void main(String[] args) {
        Scanner scn = new Scanner(System.in);
        String s = scn.nextLine();
        int ans = 0;

        for(int st = 0; st < s.length(); st++){

            for(int end = st; end < s.length(); end++){

                 String currStr = "";

                for(int k = st; k <= end; k++){
                    currStr += s.charAt(k);
                }

                ans += Integer.parseInt(currStr);
            }
        }

        System.out.println(ans);
    }
}
```

ParseInt..

```java
import java.util.*;
public class Main
{
    public static void main(String[] args) {
        String s = "123";

        String t = "45";

        int v1 = Integer.parseInt(s);
        int v2 = Integer.parseInt(t);
        System.out.println(v1 + v2);
    }
}
```

valueOf

String → Integer

parseInt

String → int

Desired String

any ss
↳ A..... A

Sample Input 0

"A B A D A"

```
ABADA
```

Sample Output 0

?

```
3
5
ABADA
```

3
5
ABADA

Explanation 0

there are 3 substring ABA , ABADA and ADA. longest substring is ABADA and its length is 5

A B A D A

n=5

A ... A

A

A B

A B A

A B A D

A B A D A

n=5

B

B A

B A D

B A D A

A

A D

A D A

D

A

D A

if(C++)

len > 1 and

S[0] = 'A'

and

S[len] = 'A'

```java
import java.io.*;
import java.util.*;

public class Solution {

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

        String maxString = "";
        int count = 0;


        for(int st = 0; st < s.length(); st++){

            for(int end = st; end < s.length(); end++){

                String currStr = "";

                for(int k = st; k <= end; k++){
                    currStr += s.charAt(k);
                }

                if(currStr.length() > 1 && currStr.charAt(0) == 'A' && currStr.charAt(currStr.length()-1) == 'A'){
                    //desired str
                    count++;

                    if(currStr.length() > maxString.length()){
                        maxString = currStr;
                    }

                }

            }
        }
```

```java
        if(count == 0){
            System.out.println(-1);
        }
        else{
            System.out.println(count);
            System.out.println(maxString.length());
            System.out.println(maxString);
        }
```

Power of a String

Sample Input 0

```
abbcccddddeeeeeffgghheecccc
```

Sample Output 0

```
5
```

evaluate

count of same ch.

C = ~~1~~ 6

maxLen = ~~0~~ ~~1~~ 2 ~~3~~ ~~4~~ ~~5~~ 6

if → (s[i] == s[i-1]) C++;

else(s[i] ≠ s[i-1]) → evaluate.

maxLen = max (maxLen, C)

C = 1

```java
import java.io.*;
import java.util.*;

public class Solution {

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

        int maxLen = 0;
        int count = 1;

        for(int i = 1; i < s.length(); i++){
            if(s.charAt(i) == s.charAt(i-1)){
                count++;
            }
            else{
                //evaluate
                maxLen = Math.max(count, maxLen);
                count  = 1;
            }
        }

        maxLen = Math.max(count, maxLen);
        System.out.println(maxLen);

    }
}
```