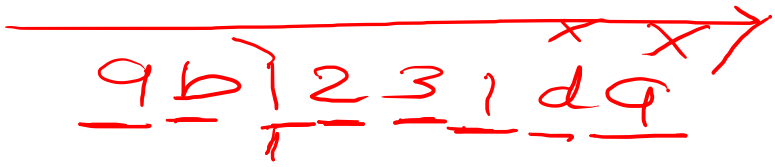
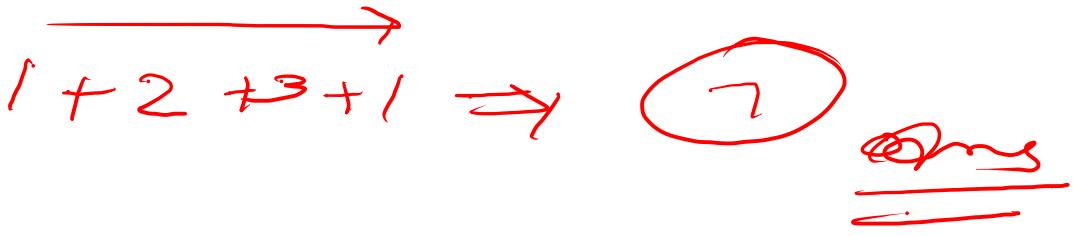
```
ab1231da
```



int sum = 0



Find Sum in Alphanumeric String

Language: Java 7

```java
import java.io.*;
import java.util.*;
import java.text.*;
import java.math.*;
import java.util.regex.*;

public class Solution {

    public static void main(String[] args) {
        /* Enter your code here. Read input from STDIN. Print output to STDOUT. Your class should be
        Scanner sc = new Scanner(System.in);
        String str = sc.next();
        System.out.println(addDigits(str));
    }
    public static int addDigits(String str){
        int sum=0;
        for(int i=0;i<str.length();i++){
            char ch = str.charAt(i);
            if(Character.isDigit(ch)){
                int val = Character.getNumericValue(ch);
                sum+=val;
            }
        }
        return sum;
    }
}
```

1+1i
1+1i

1 + 1i com

i2 = -1

Real + Imaginary

r = 1

(a+bi) * (c+di);

a = 1
b = 1
c = 1
d = 1

=>

(a x c) + (a x di) + (bi x c) + (bi * di)

(a x c) + (a x d) i + (b x c) i + (b x d) i^2

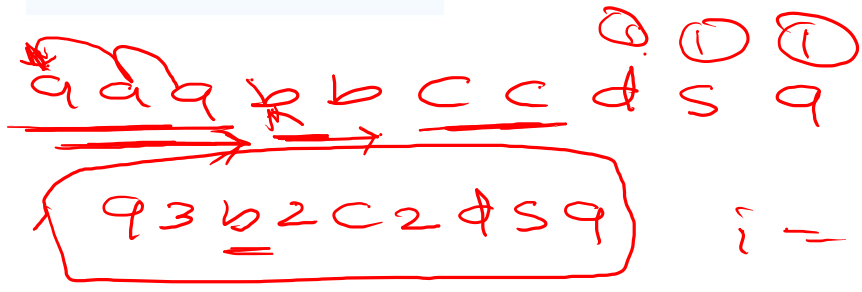
real real real

(a x c - b x d) + (a x d + b x c) i

(1 x 1 - 1 x 1) + (1 x 1 + 1 x 1)

(1 - 1) 2

aaabbccdsa



int i = 0

i = 0

while(i<n){

char ch = a

int count = 0

while(i<n && ch == str(i)

{

count++;

}

3

3

Compress The String

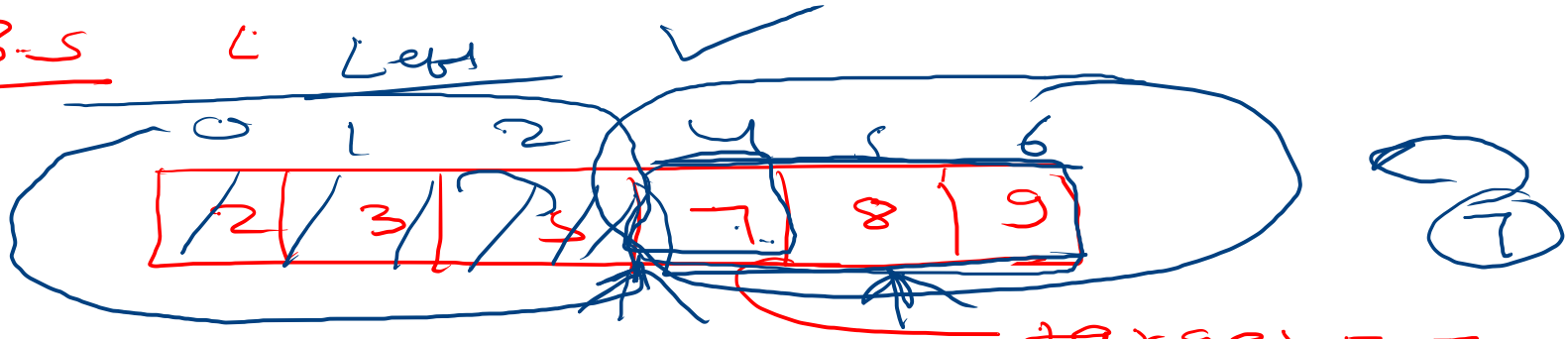
```java
import java.io.*;
import java.util.*;

public class Solution {

    public static void main(String[] args) {
        /* Enter your code here. Read input from STDIN. Pr
        Scanner sc = new Scanner(System.in);
        String str = sc.next();
        compress(str);
    }
    public static void compress(String str){
        int n = str.length();
        StringBuffer sb = new StringBuffer();
        int i=0;
        while(i<n){
           char ch = str.charAt(i);
            int count=0;
            while(i<n && ch==str.charAt(i)){
                count++;
                i++;
            }
            sb.append(ch);
            if(count>1){
                sb.append(count);
            }

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

Multiply Complex Number

Language: Java 15

```java
import java.io.*;
import java.util.*;
import java.text.*;
import java.math.*;
import java.util.regex.*;

public class Solution {

    public static void main(String[] args) {
        /* Enter your code here. Read input from STDIN. Print output to STDOUT. Your class should be r
        Scanner sc = new Scanner(System.in);
        String str = sc.next();
        String str1 = sc.next();

        System.out.println(multiply(str,str1));
    }
    public static String multiply(String str,String str1){
       int a = Integer.parseInt(str.substring(0,str.indexOf('+')));
       int b = Integer.parseInt(str.substring(str.indexOf('+')+1,str.length()-1));
         int c = Integer.parseInt(str1.substring(0,str1.indexOf('+')));
       int d = Integer.parseInt(str1.substring(str1.indexOf('+')+1,str1.length()-1));

      return ""+(a*c - b*d)+"+"+(a*d+b*c)+"i";
        // return "yash";


    }
}
```

B-S

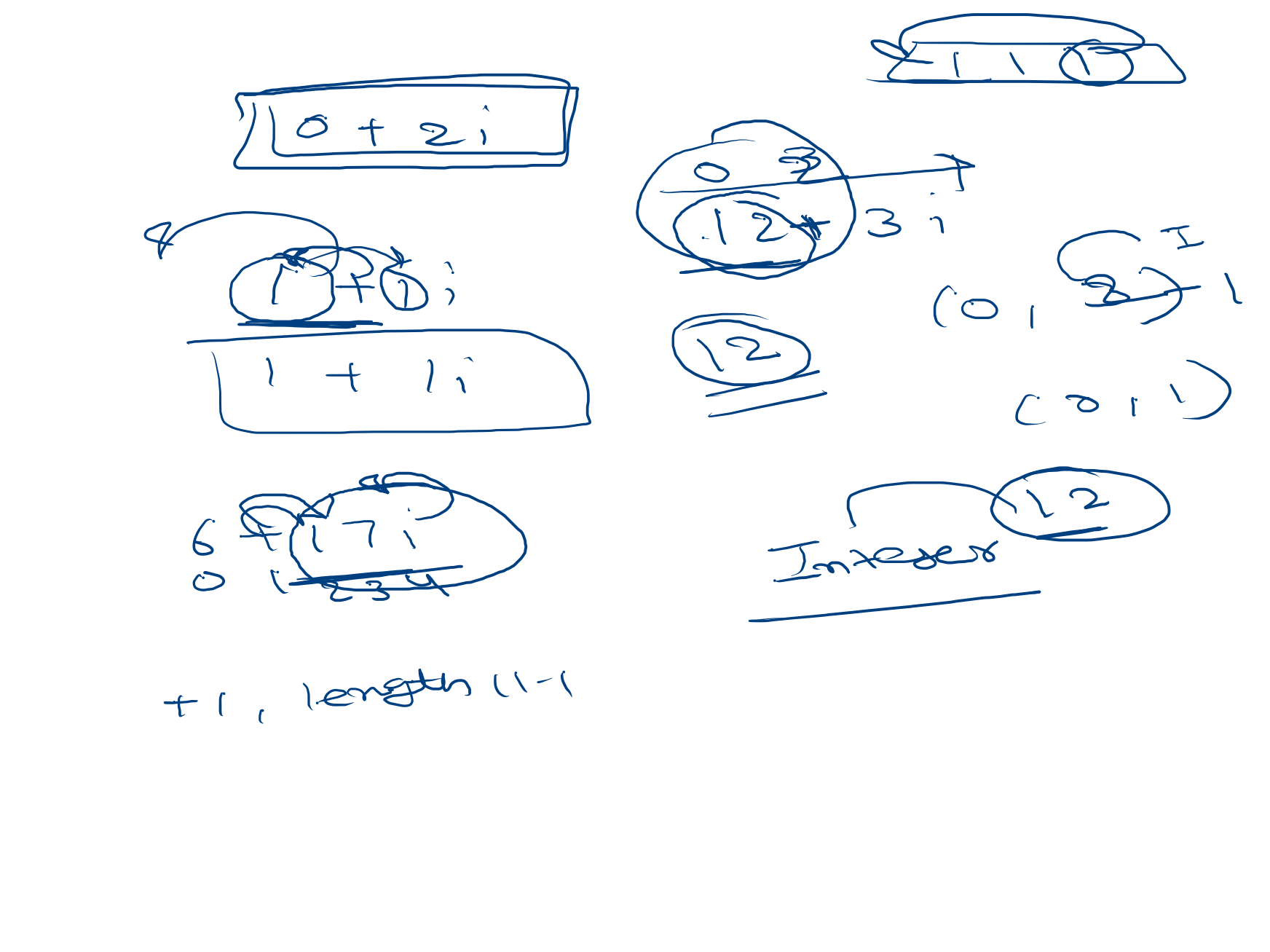


(1) Sorted Array

→ Increasing

→ Decreasing

O(n)


0 + 2i
1 + 1i
12
Integer
+1, length -1