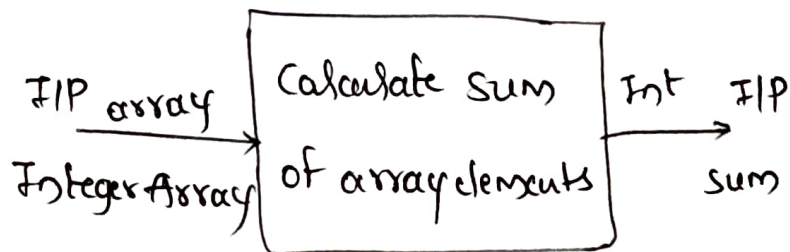


JAVA practice

Sum of all elements in integer Array.



1> Read a value at a time (iteration-loop)

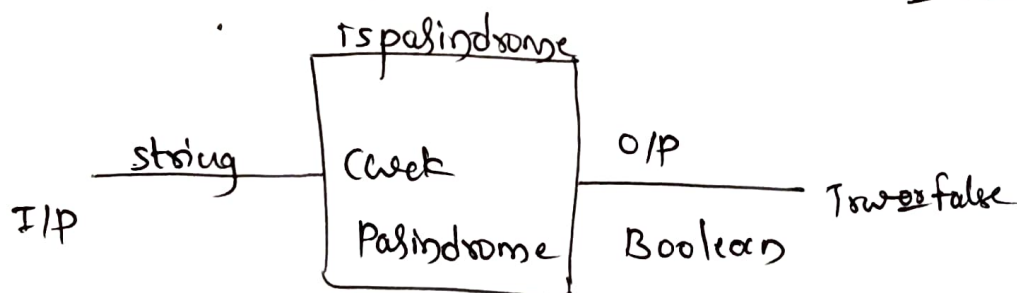
2> sum $\rightarrow 0$

3> add sum return sum at end

```
SumArray.java X
C: > java programs > SumArray.java > ...
1 public class SumArray {
2     public static void main(String[] args) {
3         int[] arr = {10, 20, 30, 40, 50};
4         int sum = 0;
5
6         for (int i = 0; i < arr.length; i++) {
7             sum += arr[i];
8         }
9
10        System.out.println("Sum = " + sum);
11    }
12 }
13
```

Prints the sum
of Array elements

Q> write a function to get a string Palindrome or Not.



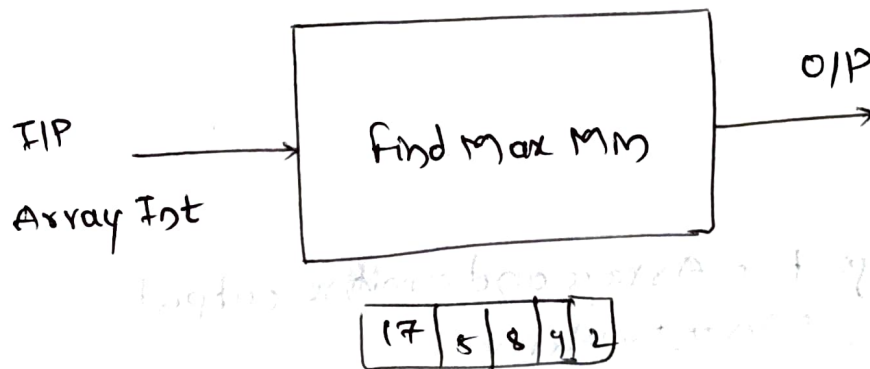
f b a b a b f

J PalindromeCheck.java 1 X

C: > java programs > J PalindromeCheck.java > ...

```
1 public class PalindromeCheck {
2     public static void main(String[] args) {
3         String str = "level";
4         boolean isPalindrome = true;
5
6         for (int i = 0; i < str.length() / 2; i++) {
7             if (str.charAt(i) != str.charAt(str.length() - 1 - i)) {
8                 isPalindrome = false;
9                 break;
10            }
11        }
12
13        if (isPalindrome)
14            System.out.println(str + " is Palindrome");
15        else
16            System.out.println(str + " is Not Palindrome");
17    }
18 }
19
```

Q) function to print MinMax function in an Array



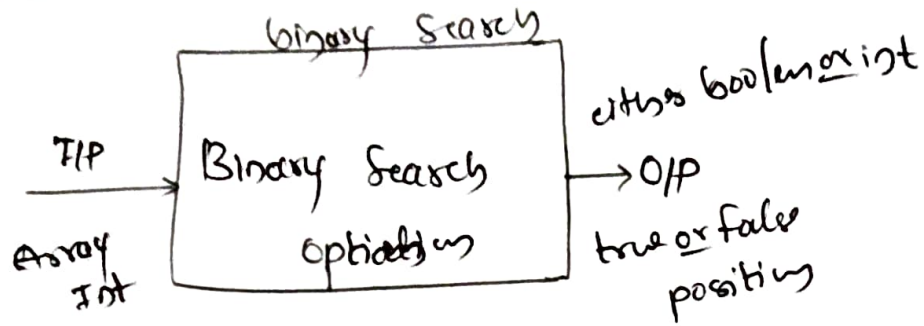
- ① Min Max
- ② Loop traversal
- ③ print Minmax

J MinMaxArray.java 1 X

C: > java programs > J MinMaxArray.java > ...

```
1 public class MinMaxArray {
2     public static void main(String[] args) {
3         int[] arr = {25, 10, 45, 90, 5};
4
5         int min = arr[0];
6         int max = arr[0];
7
8         for (int i = 1; i < arr.length; i++) {
9             if (arr[i] < min) {
10                 min = arr[i];
11             }
12             if (arr[i] > max) {
13                 max = arr[i];
14             }
15         }
16
17         System.out.println("Min = " + min);
18         System.out.println("Max = " + max);
19     }
20 }
```

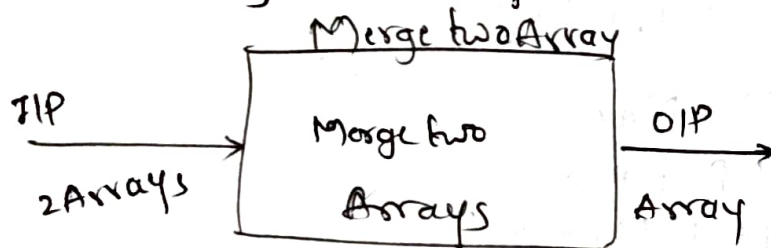
8) Function to Search in a Sorted Integer Array.



```

J SearchSortedArray.java 1 X
C: > java programs > J SearchSortedArray.java > Language Support for Java(TM) by Red Hat > SearchSortedArray
1  import java.util.Arrays;
2
3  public class SearchSortedArray {
4      public static void main(String[] args) {
5          int[] arr = {5, 10, 15, 20, 25, 30}; // sorted array
6          int key = 20;
7
8          int pos = Arrays.binarySearch(arr, key);
9
10         if (pos >= 0)
11             System.out.println(key + " found at index " + pos);
12         else
13             System.out.println(key + " not found");
14     }
15 }
16
  
```

9) Function to Merge two Arrays and combine output-



```

J MergeArrays.java 1 X
C: > java programs > J MergeArrays.java > Language Support for Java(TM) by Red Hat > MergeArrays
1  import java.util.Arrays;
2
3  public class MergeArrays {
4      public static void main(String[] args) {
5          int[] arr1 = {1, 2, 3};
6          int[] arr2 = {4, 5, 6};
7          int[] merged = new int[arr1.length + arr2.length];
8
9          System.arraycopy(arr1, srcPos:0, merged, destPos:0, arr1.length);
10         System.arraycopy(arr2, srcPos:0, merged, arr1.length, arr2.length);
11
12         System.out.println(Arrays.toString(merged));
13     }
14 }
  
```