SOFTWARE ENGINEERING LAB FILE

NATIONAL INSTITUTE OF TECHNOLOGY DELHI
Department of Computer Science & Engineering

COURSE : SOFTWARE ENGINEERING [CSB-253]

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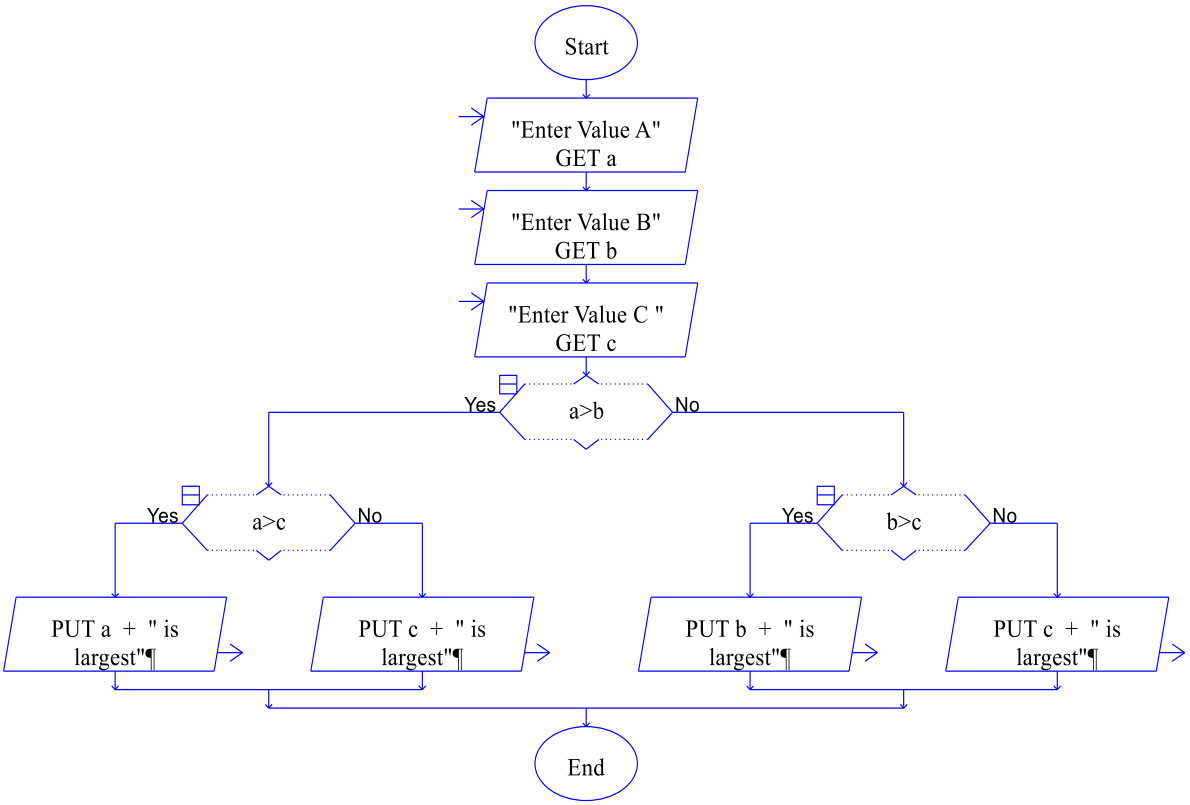
Branch : CSE
Semester : IVth

LAB 1

Experiment 1 : To find the largest of the given three numbers.

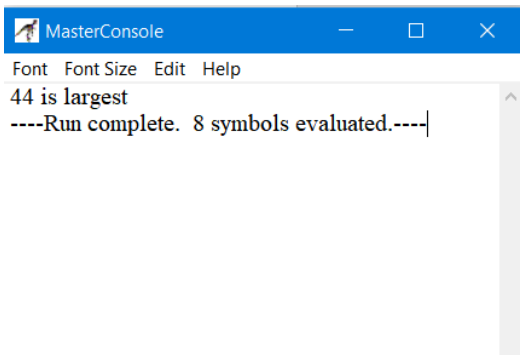
Flowchart :



Input :

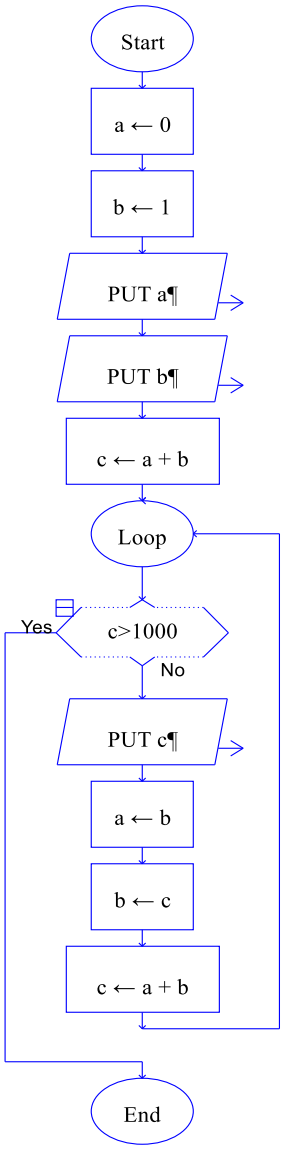
- a: 24
- b: 10
- c: 44

Output :

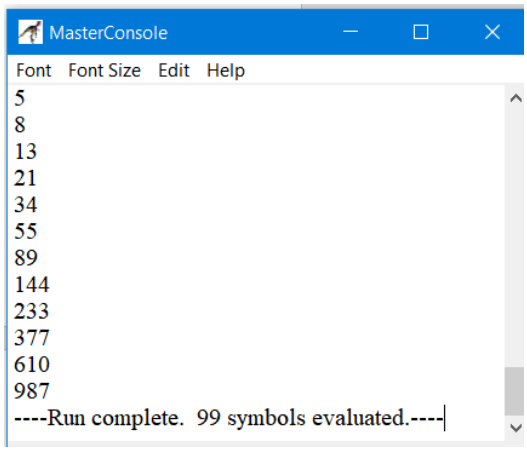


Experiment 2: To find Fibonacci Series up to 1000 .

Flowchart :

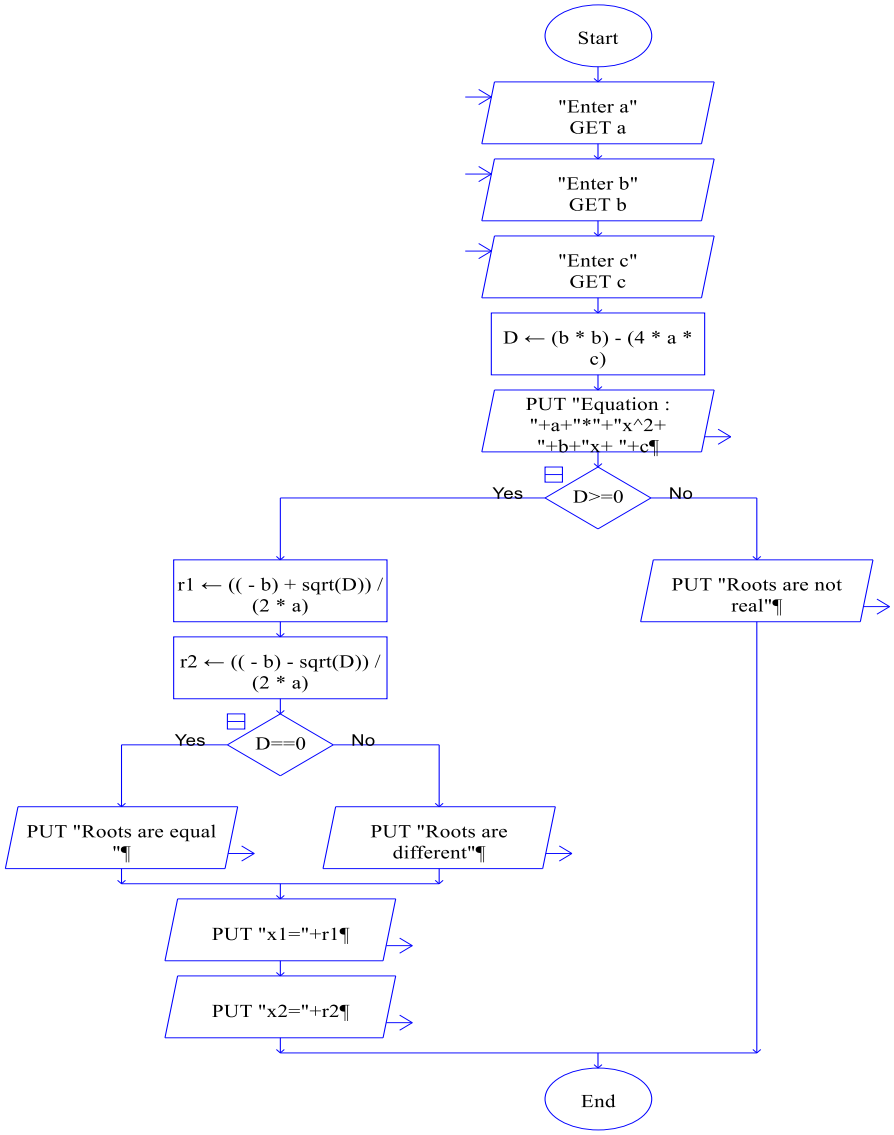


Output :



Experiment 3 : To find the real roots of a quadratic equation.

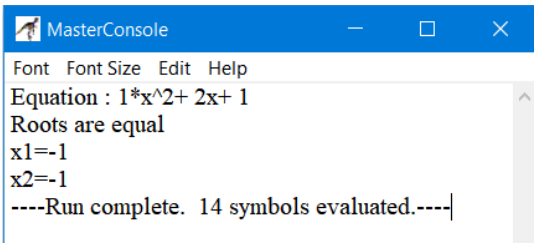
Flowchart :



Input :

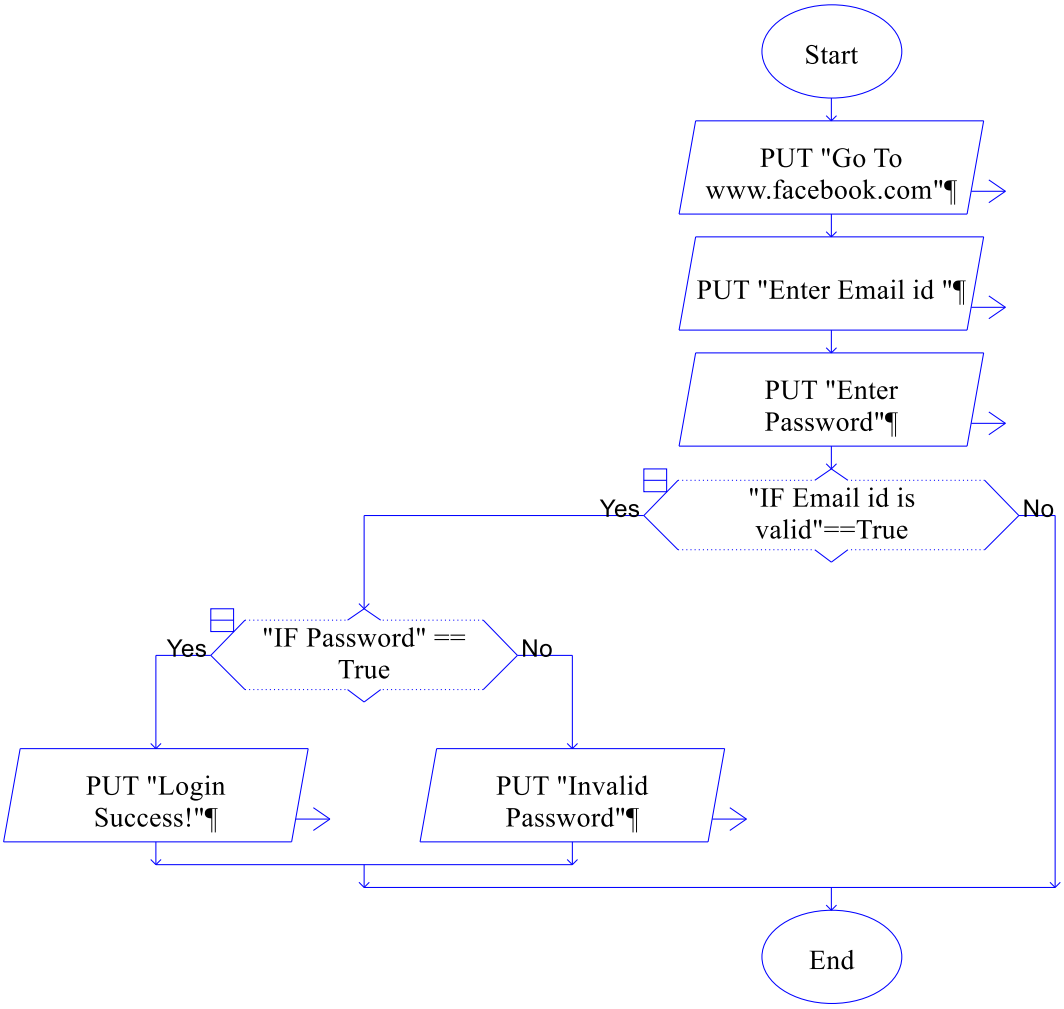
a: 1
b: 2
c: 1

Output:



Experiment 4 : To implement Facebook login.

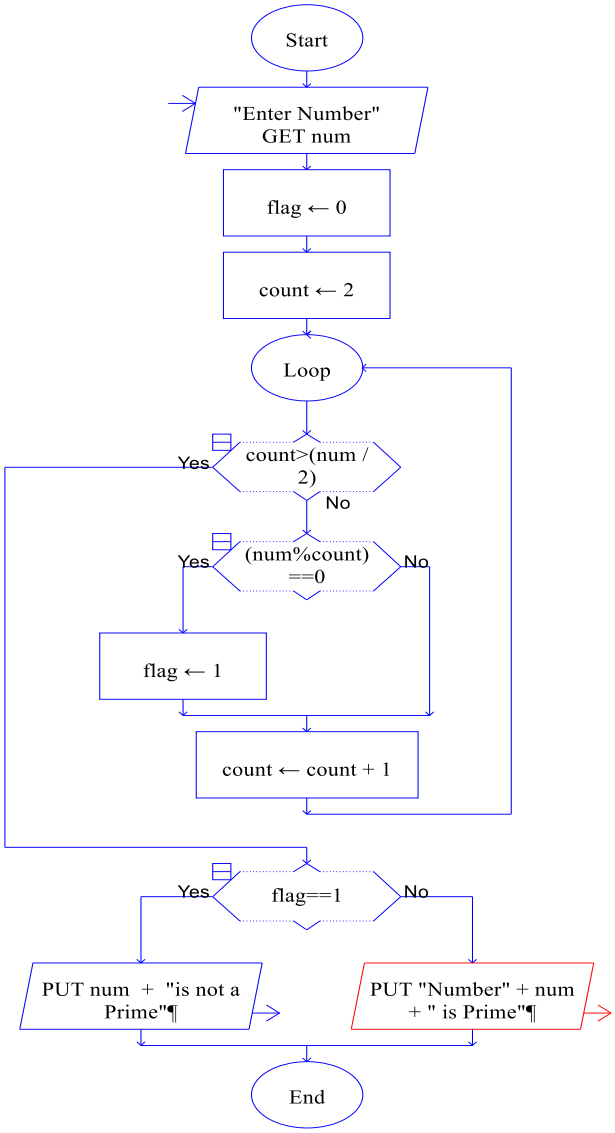
Flowchart :



LAB 2

Experiment 5 : To find whether a number is prime.

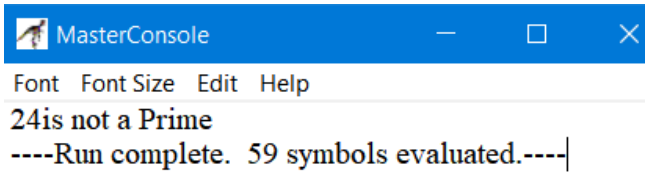
Flowchart :



Input :

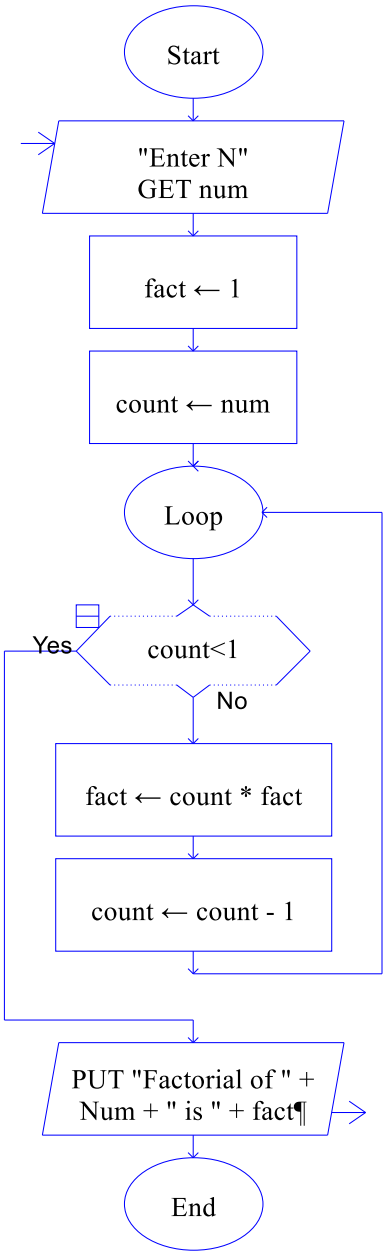
count: 13
flag: 1
num: 24

Output :



Experiment 6 : To find the factorial of a number.

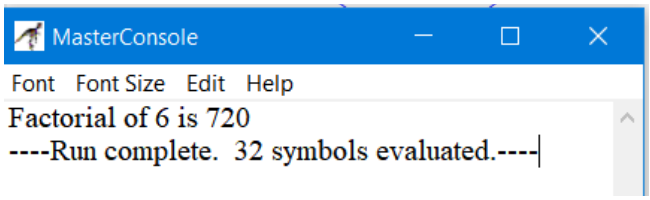
Flowchart :



Input :

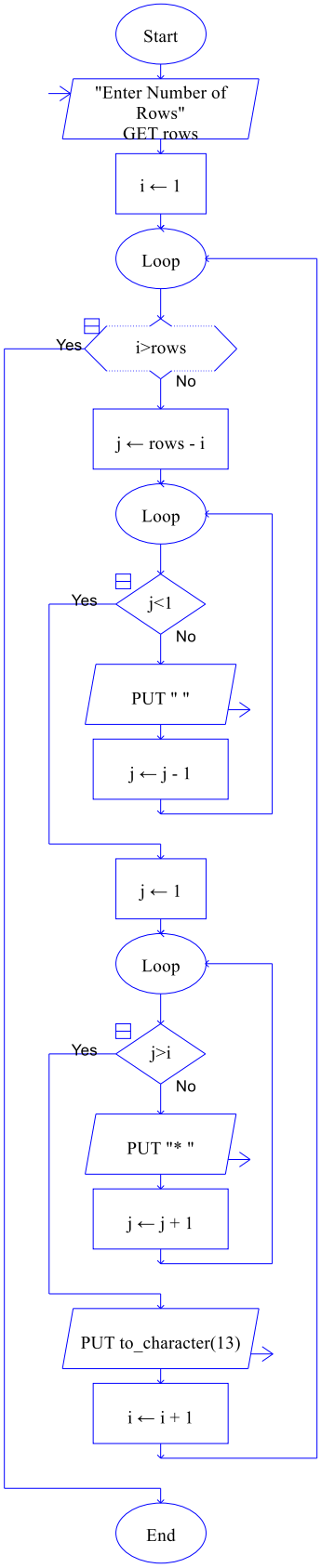
count: 0
fact: 720
num: 6

Output :



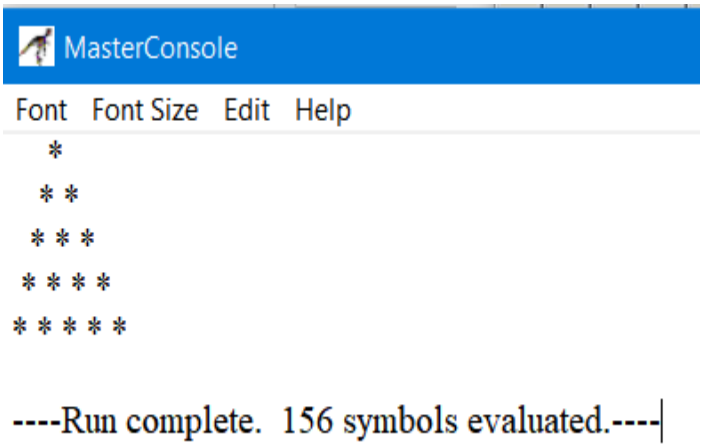
Experiment 7: To print the pyramid pattern for ‘n’ rows.

Flowchart :



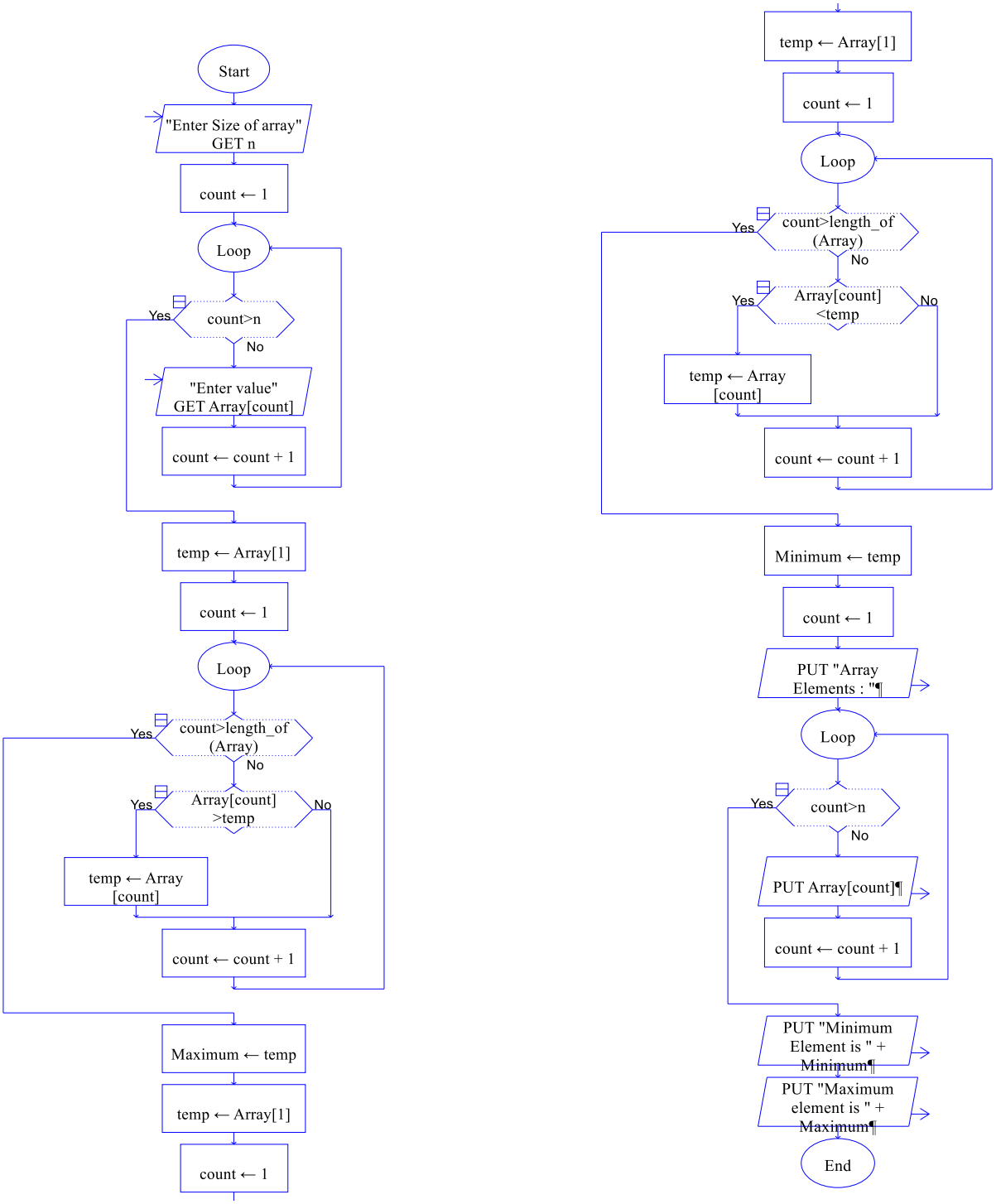
Input :

Output :

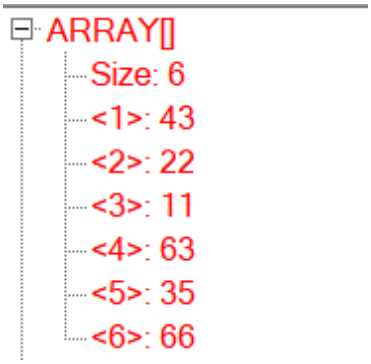


Experiment 8 : To find maximum and minimum elements in an array.

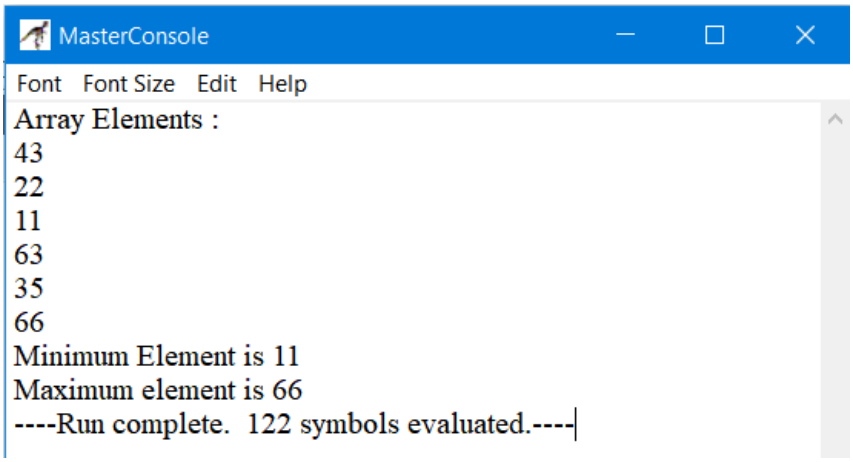
Flowchart :



Input :



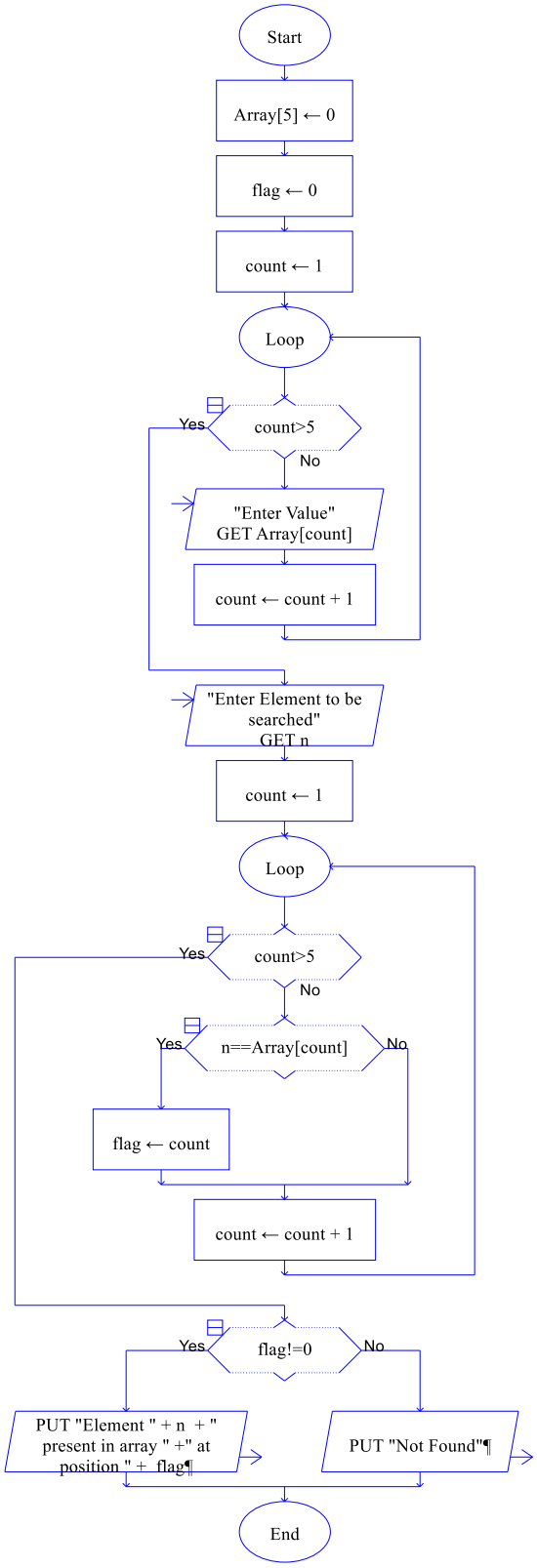
Output :



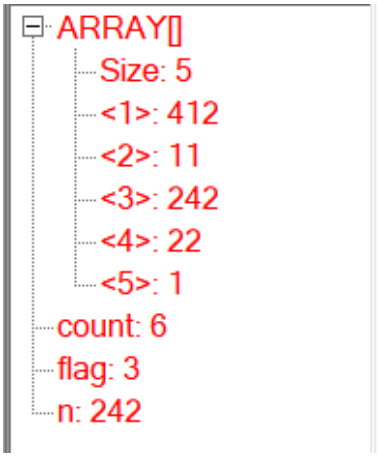
LAB 3

Experiment 9 : To implement linear search

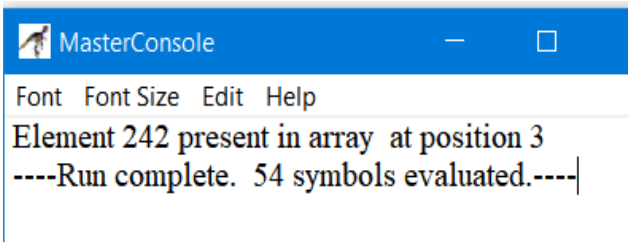
Flowchart :



Input :

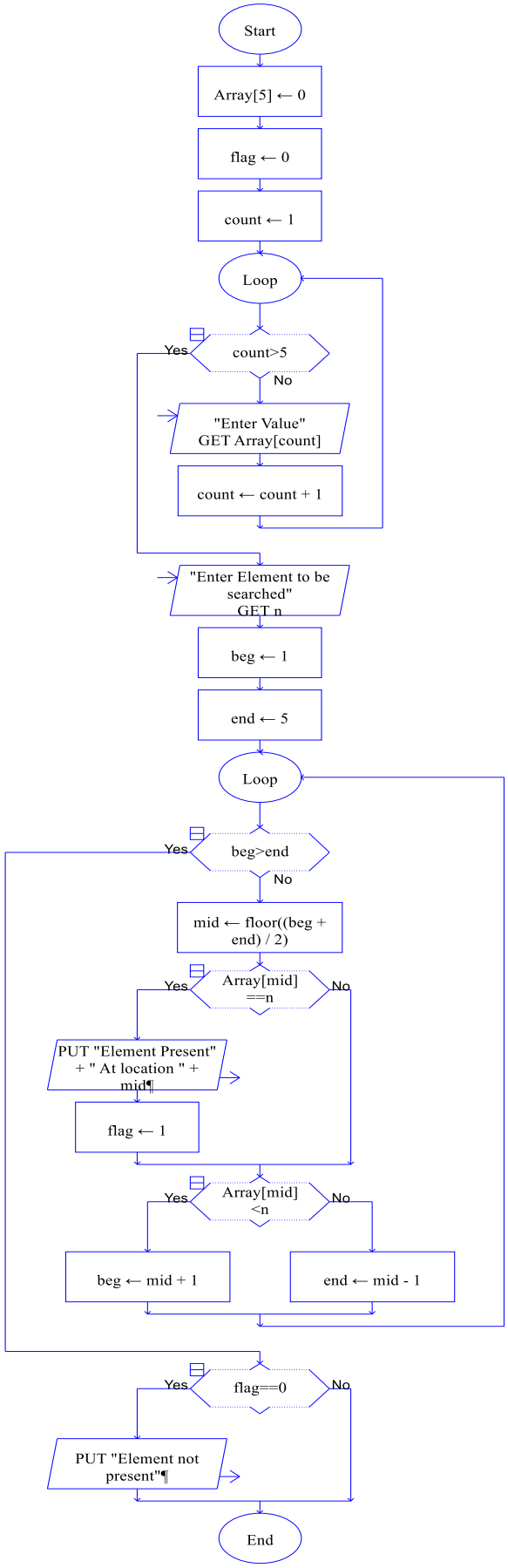


Output :

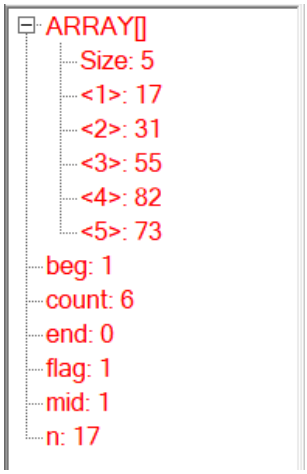


Experiment 10 : To implement Binary Search

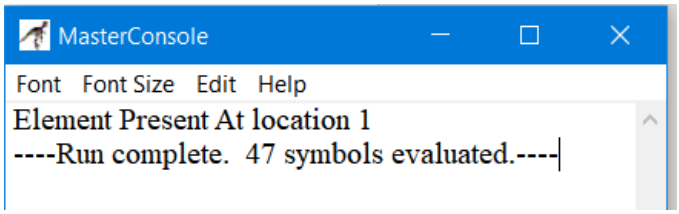
Flowchart :



Input :

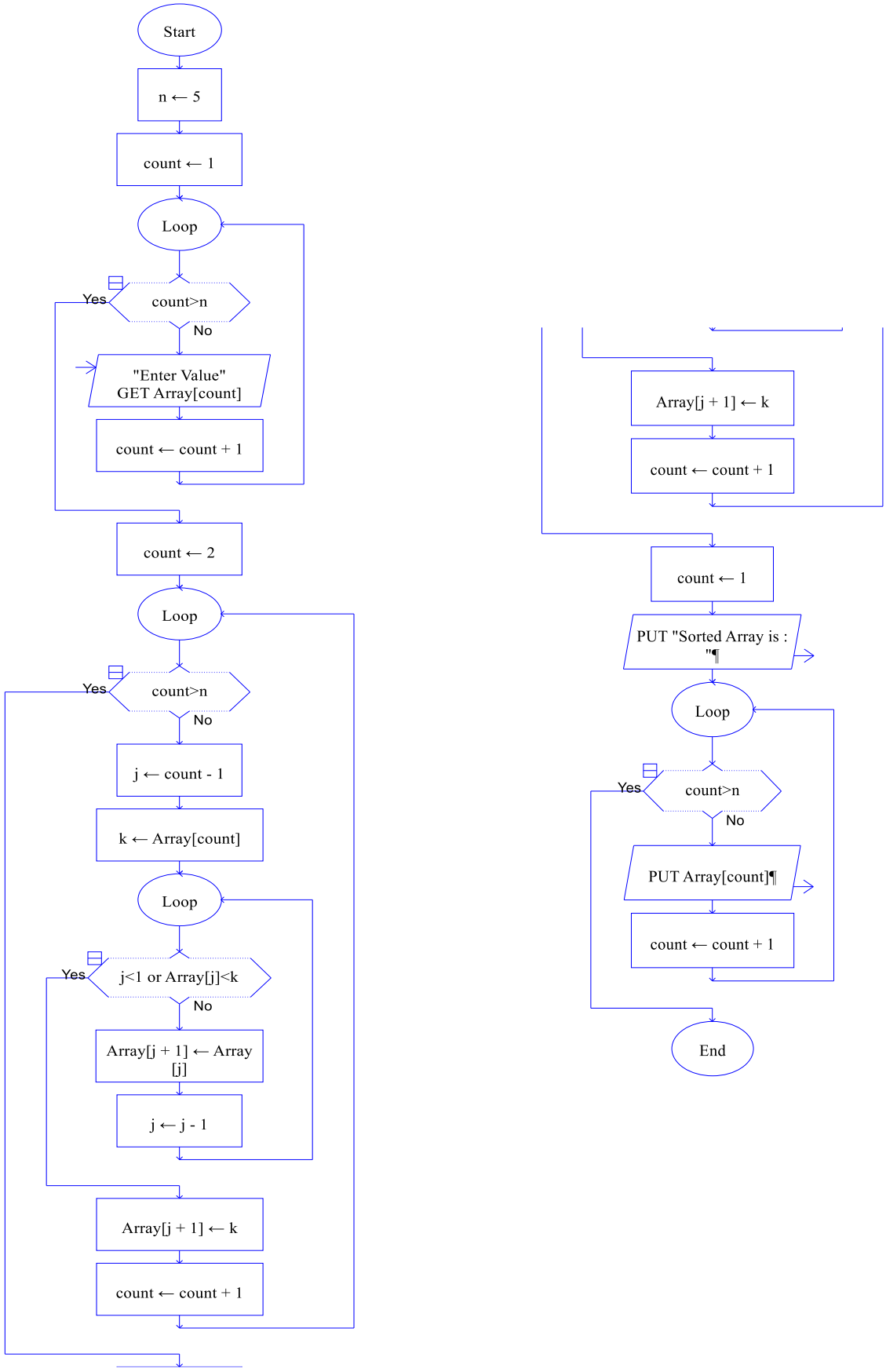


Output :

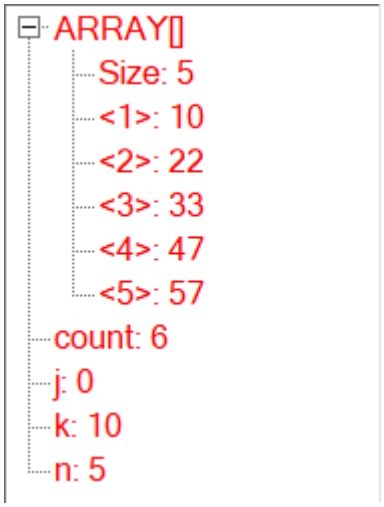


Experiment 11 : To implement Insertion Sort

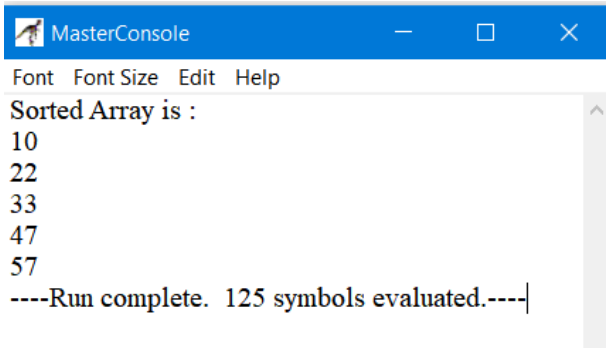
Flowchart :



Input :

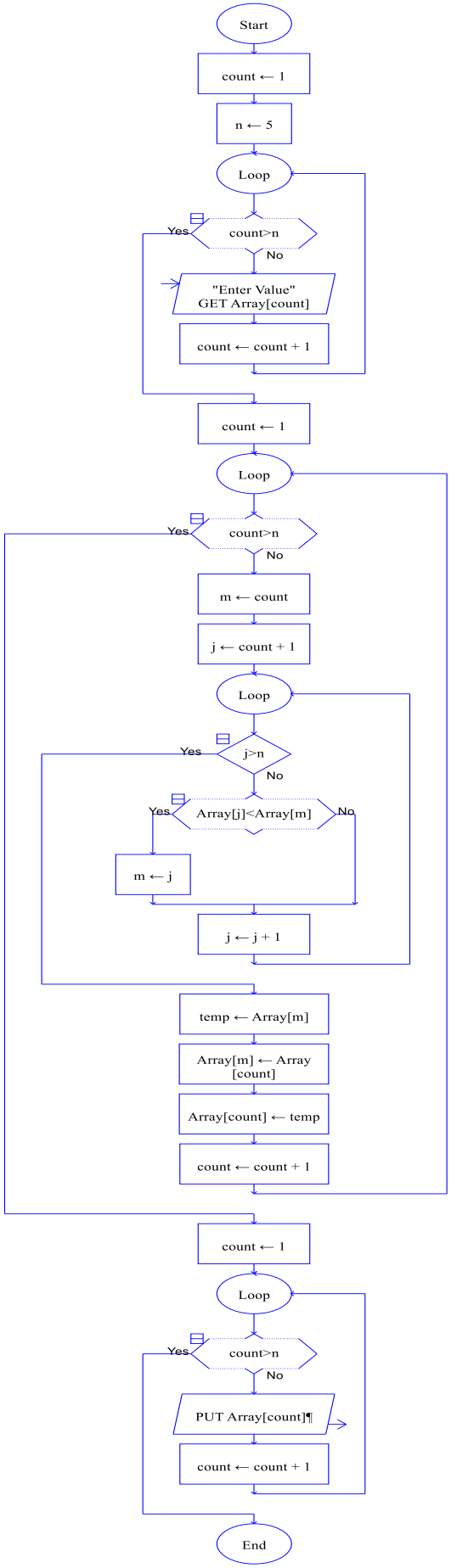


Output :

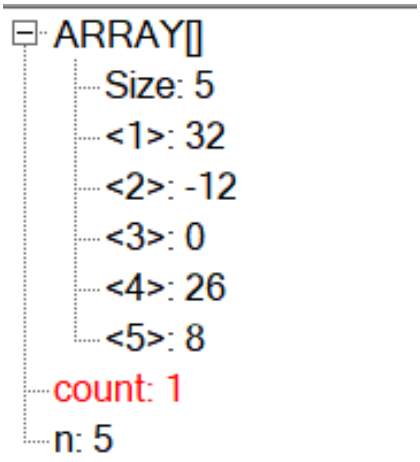


Experiment 12 : To implement Selection Sort.

Flowchart :



Input :

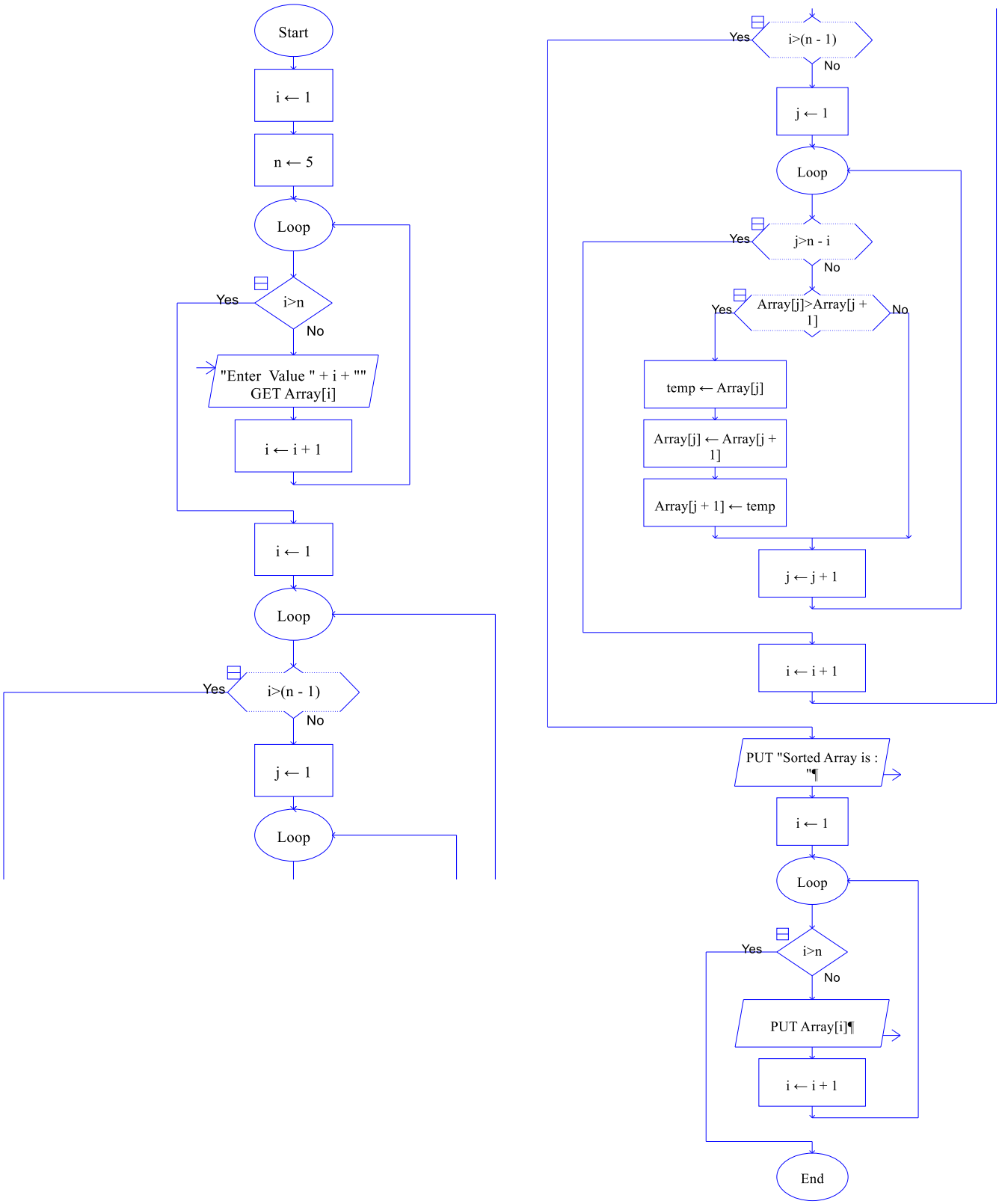


Output :

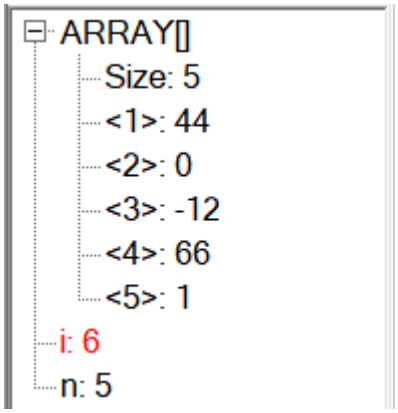
```
-12
0
8
26
32
----Run complete.  146 symbols evaluated.----
```

Experiment 13 : To implement Bubble Sort.

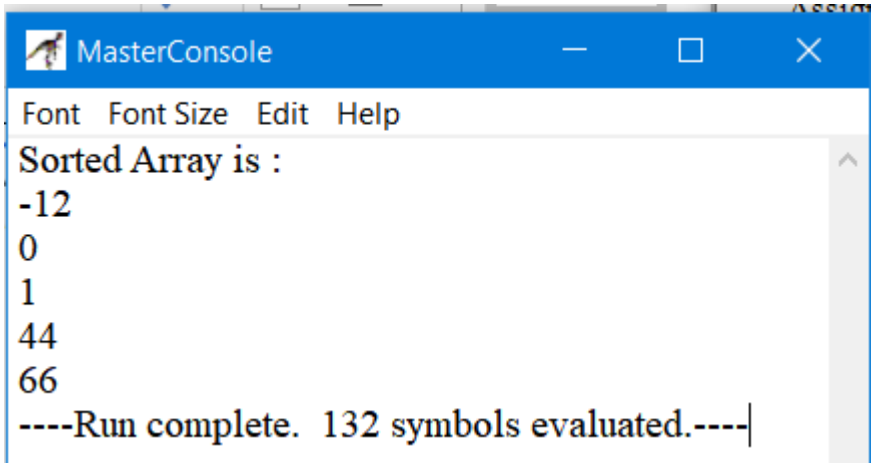
Flowchart :



Input :



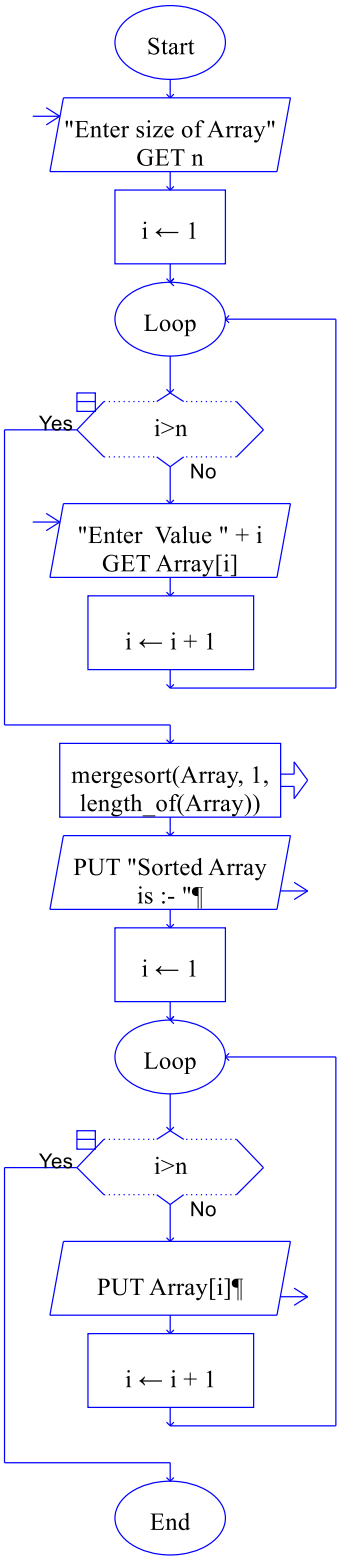
Output :



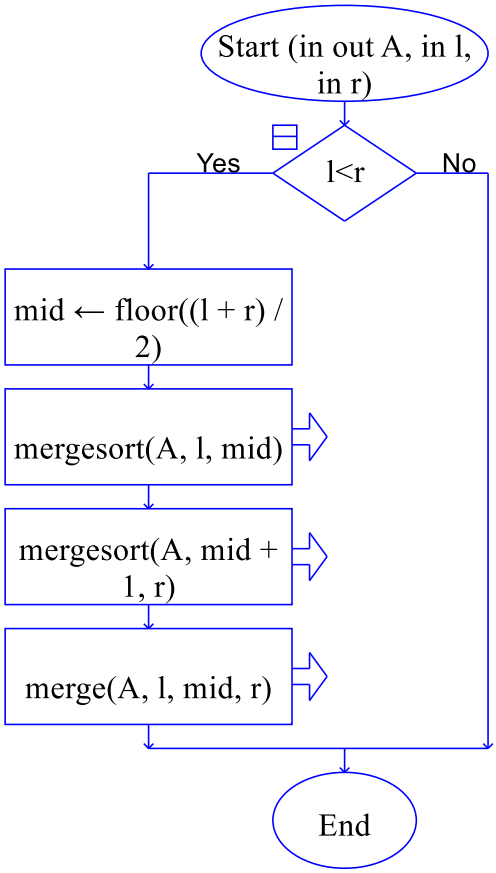
Experimet 14 : To implement Merge Sort.

Flowchart :

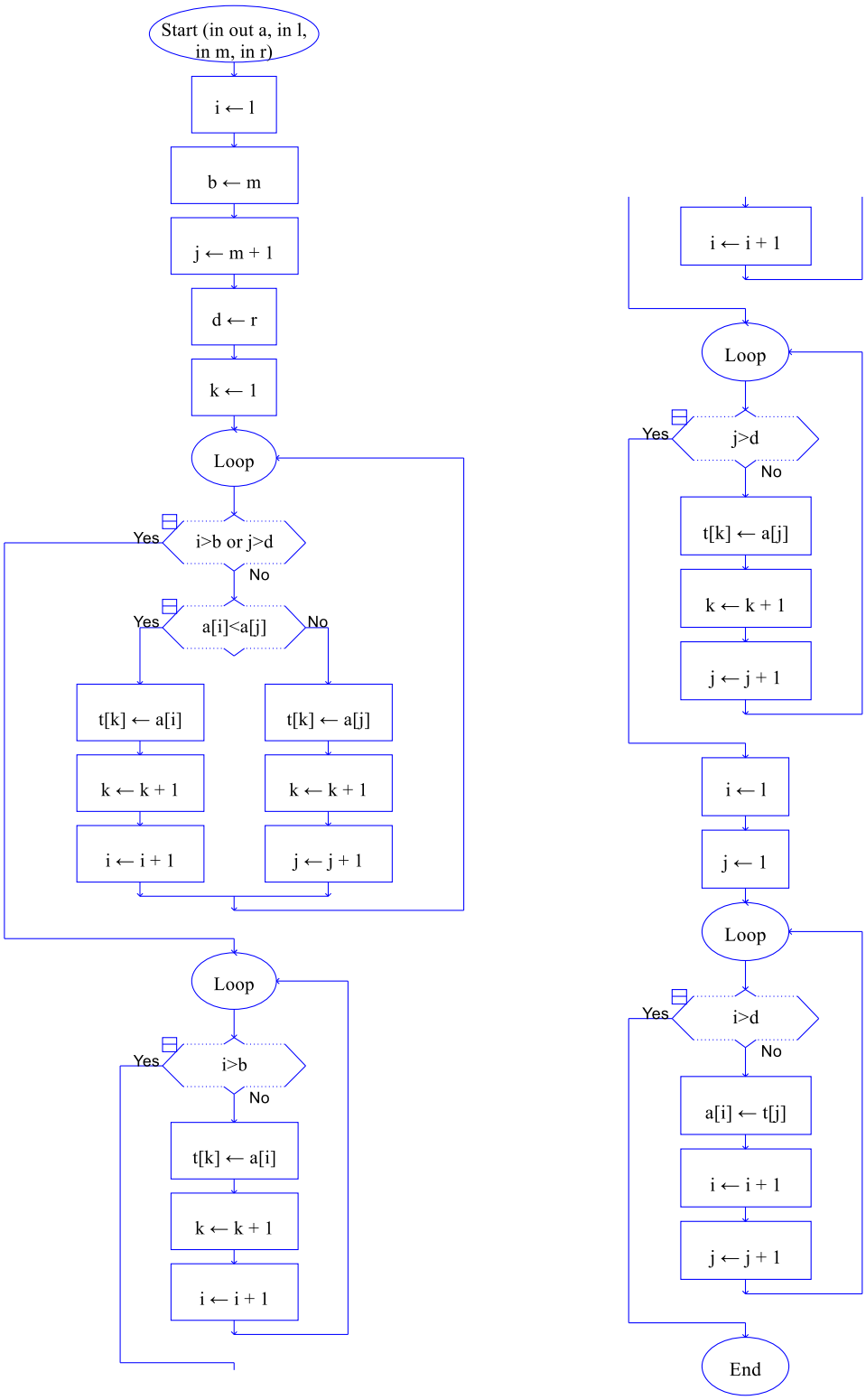
Main Function



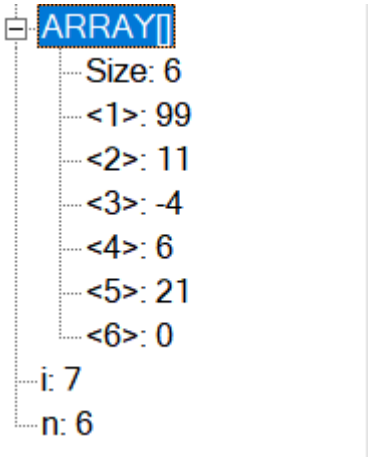
mergesort Function



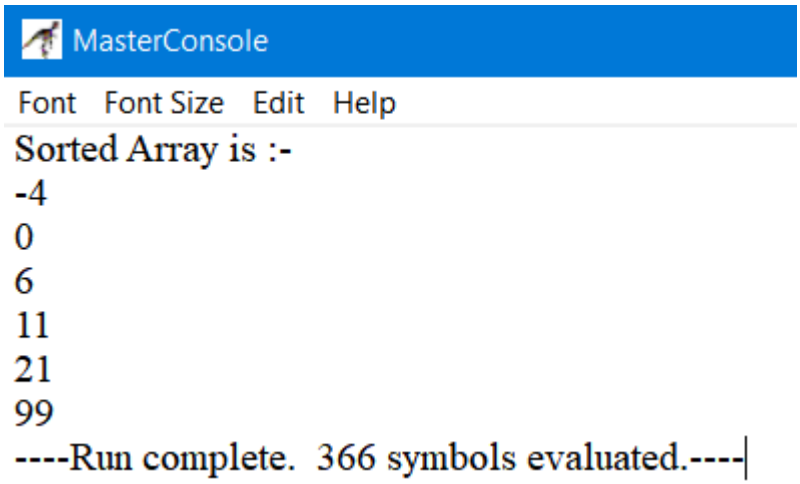
Merge Function



Input :



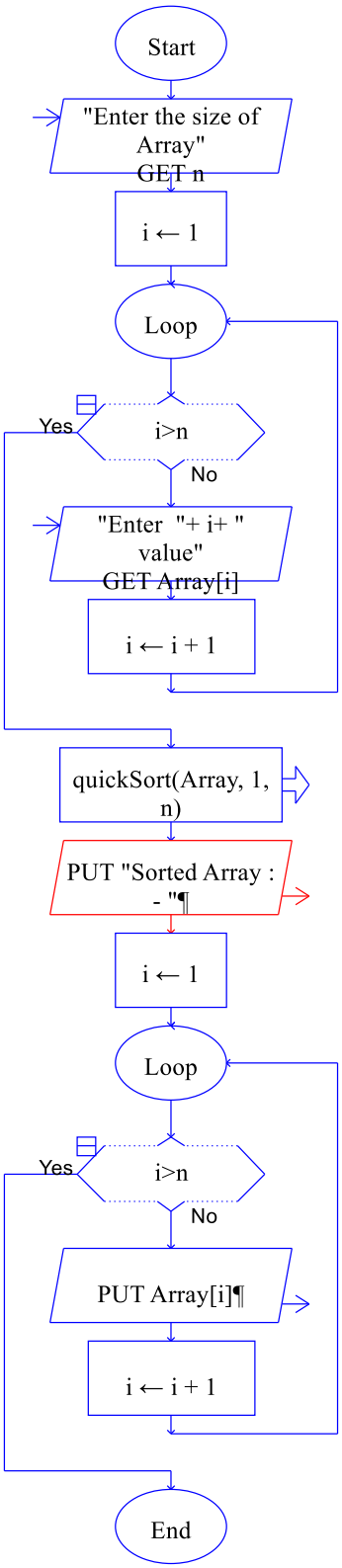
Output :



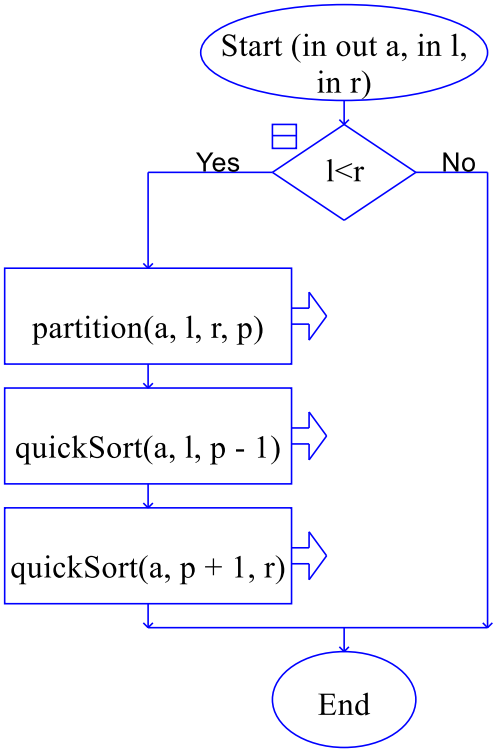
Experiment 15 : To implement Quick Sort.

Flowchart :

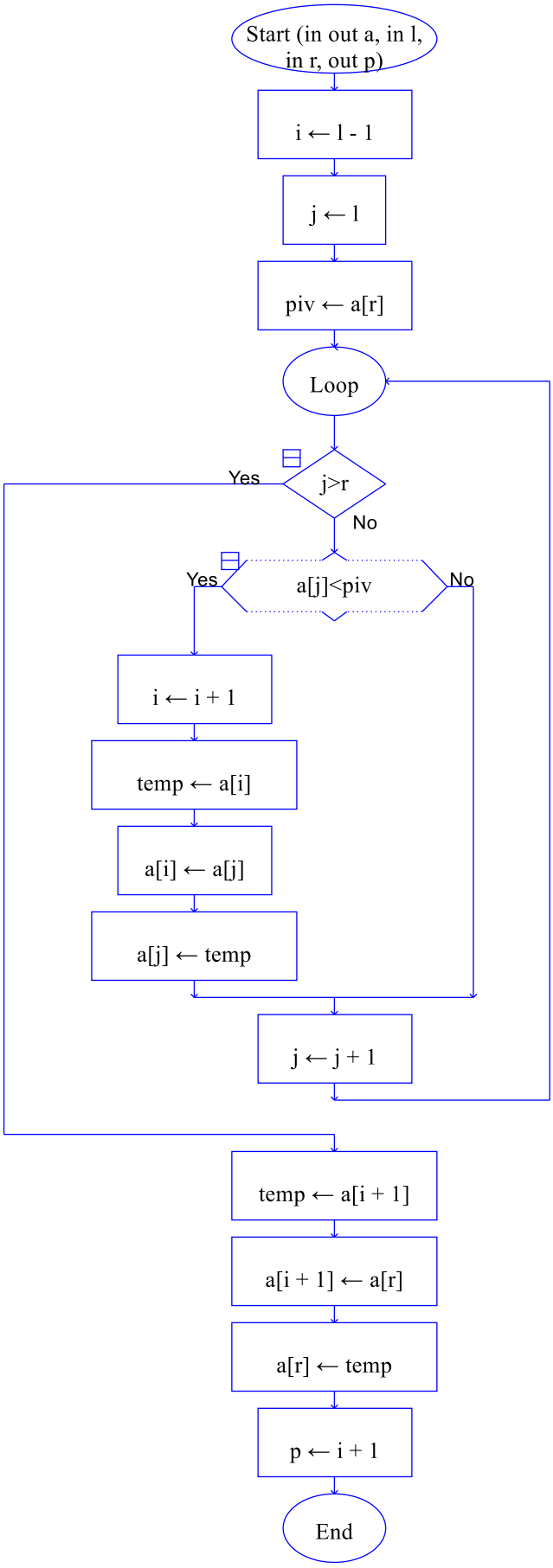
Main Function



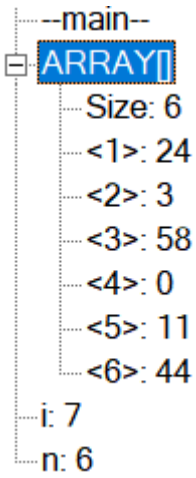
quickSort Function



Partition Function :



Input :



Output :

```
Sorted Array :-
0
3
11
24
44
58
----Run complete.  194 symbols evaluated.----
```