Algorithm

Sagar. S. Yadravi
'G' sec
4AL19CS079

Step 1: Start

Step 2: Input size

Step 3: Enter the integer number

for (i=0 ; i< size ; i++)

Input arr [i]

Step 4: large = largest (arr, size)

Step 5: Small = Smallest (arr, size)

Step 6: Display the largest element output large

Step 7: Display the smallest element output small

Step 8: Stop.

large .(int arr [s], int Size)

Step 1: Entry

Step 2: temp 1 = arr[0]

Step 3: for (i=1 ; i < size ; i++)

if (arr [i] > temp 1)

temp1 = arr [i]

Step 4: return (temp1)
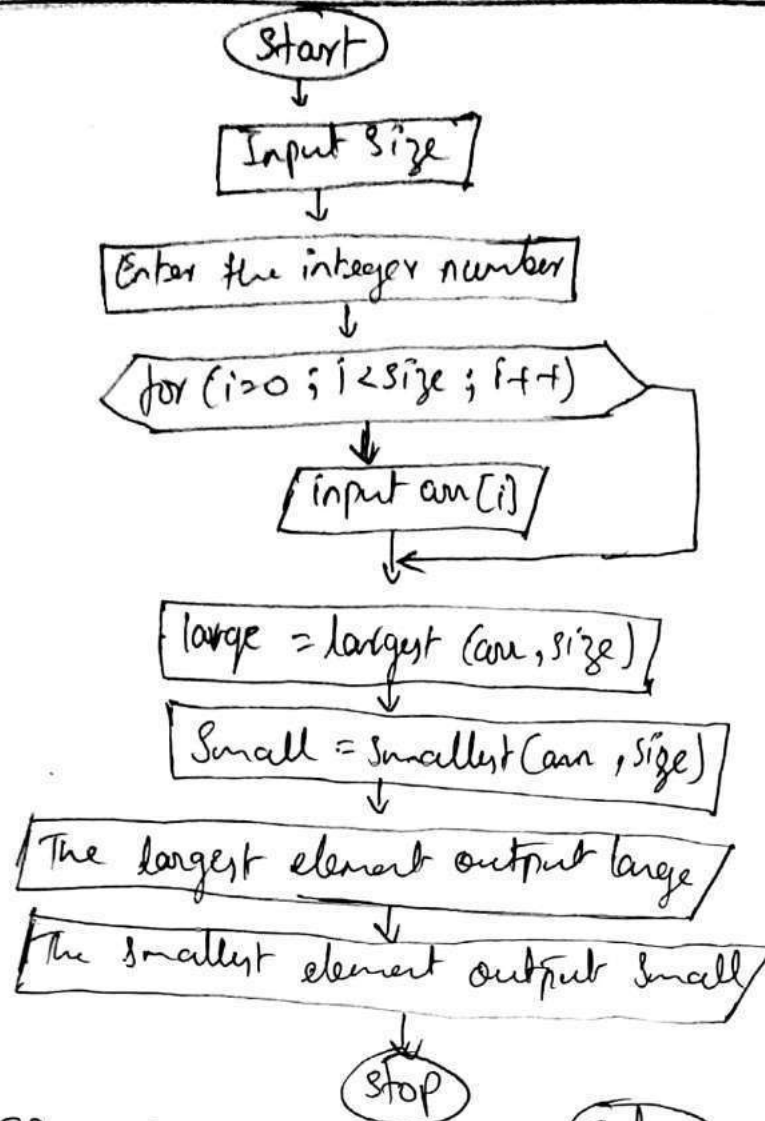
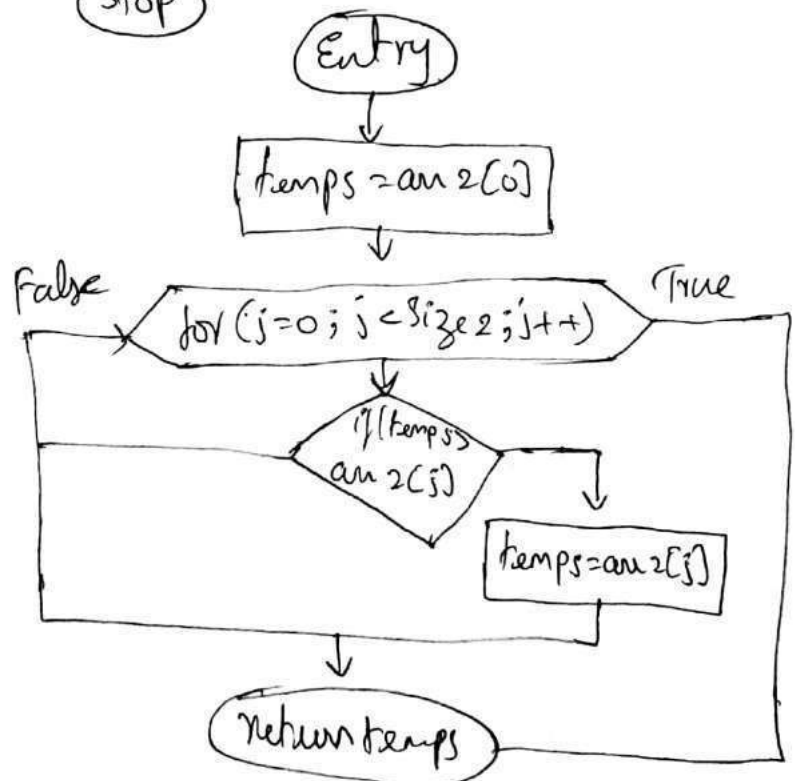Smallest (int arr 2[], Int size 2)

Step 1: Entry

Step 2: temp = arr 2[0]

Step 3: for (j=0 ; j < size 2; j++)

if (temp > arr 2[i])

temp = arr 2[i]

Step 4: return (temp)

Flowchart

$$\big(\text{Start}\big)$$

Input Size

Enter the integer number

for (i=0 ; i < size ; i++)

input arr [i]

large = largest (arr, size)

Small = Smallest (arr, size)

The largest element output large

The smallest element output Small

$$\big(\text{stop}\big)$$

Smallest
large (int arr2[], int size)

$$\big(\text{Entry}\big)$$

temps = arr 2 [0]

False ── for (j=0 ; j < size 2 ; j++) ── True

if (temps > arr 2(j))

temps = arr 2 [j]

$$\big(\text{return temps}\big)$$

longest (int arr[], int size)

Entry

temp = arr[0]

False ← for (i=1; i<size; i++) → True

False ← if(arr[i]> temp) → True

temp = arr[i]

return temp