

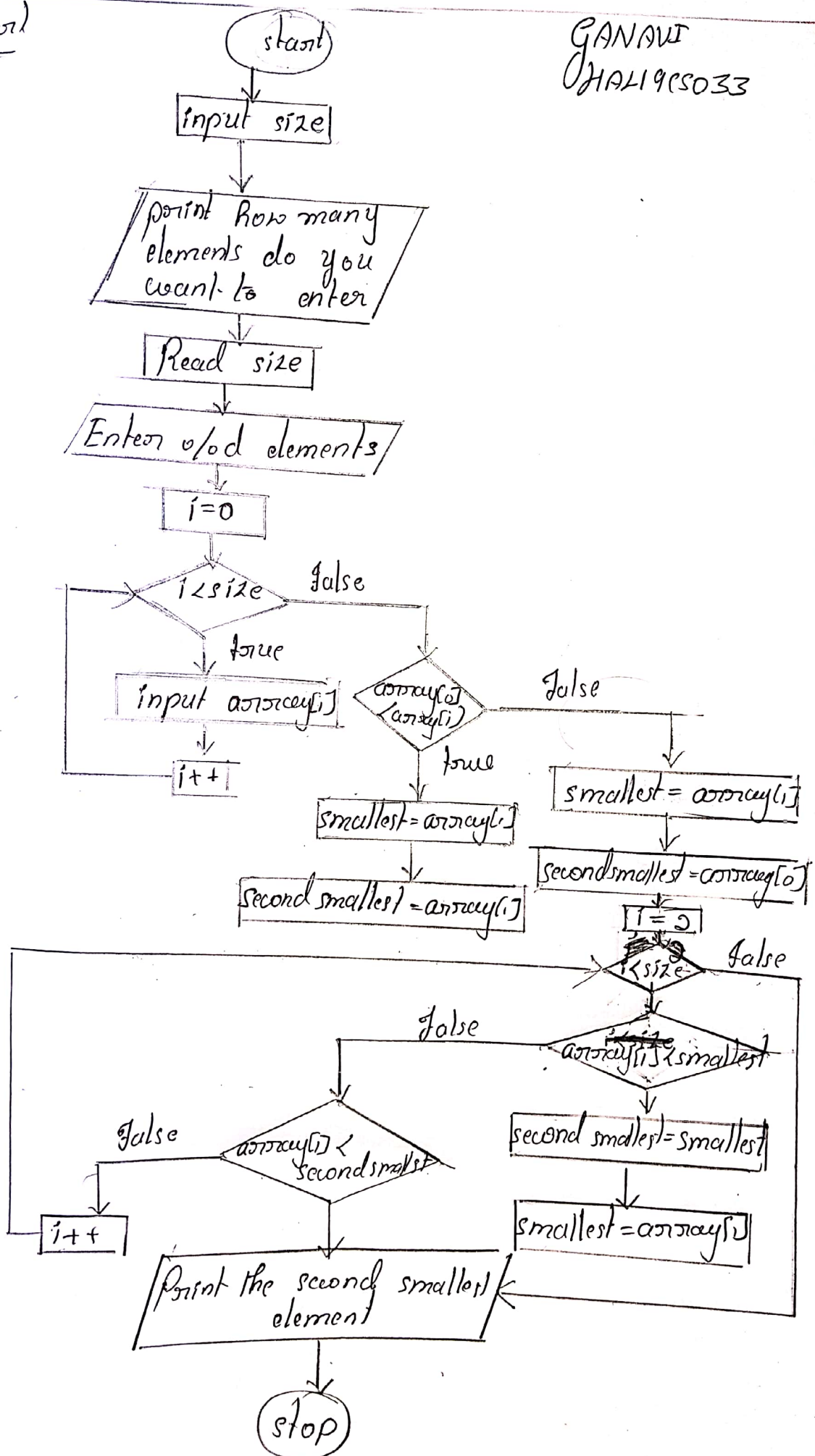
C program to find second & smallest element in an array.

Algorithm

- 1) Start
- 2) Input size
- 3) Display how many elements do you want to enter
- 4) Display enter %d elements
- 5) for ($i=0$; $i < \text{size}$; $i++$)
 input array[i]
- 6) if (array[0] < array[i])
 - 5.1 smallest = array[0]
 - 5.2 Secondsmallest = array[i]
 - 5.3 goto step 10 and step 11
- 7) else
 - smallest = array[i]
 - secondsmallest = array[0]
 - goto step 10 & step 11
- 8) for ($i=2$; $i < \text{size}$; $i++$)
- 9) if (array[i] < smallest)
 - secondsmallest = smallest
 - smallest = array[i]
 - goto step 10 & step 11
- 10) else if (array[i] < secondsmallest)
 - secondsmallest = array[i]
- 11) Print the second smallest element
- 12) stop

Flowchart

GANAWI
HALI9CS033





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Hello ganavi2



Logout



PRACTICE COMPETE DISCUSS COMMUNITY HELP ABOUT

Code, Compile & Run

ide

Contest Code/Name (e.g. JULY15/PRACTICE)

Problem Code/Name (e.g. TEST)

Select

C (gcc 6.3)

Code gets autosaved every second

```
1 #include <stdio.h>
2 #include <string.h>
3
4 main()
5 {
6     int smallest, secondsmallest;
7     int array[100], size, i;
8     printf("\n How many elements do you want to enter: ");
9     scanf("%d", &size);
10    printf("\nEnter %d elements: ", size);
11    for (i = 0; i < size; i++)
12        scanf("%d", &array[i]);
13    if (array[0] < array[1]) {
14        smallest = array[0];
15        secondsmallest = array[1];
16    }
17    else {
18        smallest = array[1];
19        secondsmallest = array[0];
20    }
21    for (i = 2; i < size; i++) {
22        if (array[i] < smallest) {
23            secondsmallest = smallest;
24            smallest = array[i];
25        }
26        else if (array[i] < secondsmallest) {
27            secondsmallest = array[i];
28        }
29    }
30 }
```

30.1

Open File

Custom Input

Run

Custom Input

4
3 6 12 9

Status: Successfully executed Date: 2020-06-06 14:09:46 Time: 0 sec Mem: 9,424 kB

Input

4
3 6 12 9

Output

How many elements do you want to enter:
Enter 4 elements:
Second smallest element is 6