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

```
    printf("\nEnter the size of the array: ");
    scanf("%d", &size);

    printf("\n\nEnter the %d elements of the array: \n\n", size);
    for(i = 0; i < size; i++)
    scanf("%d", &a[i]);

    big = a[0];
    for(i = 1; i < size; i++)
    {
        if(big < a[i])   // if larger value is encountered
        {
            big = a[i]; // update the value of big
        }
    }
    printf("\n\nThe largest element is: %d", big);

    small = a[0];
    for(i = 1; i < size; i++)
    {
        if(small>a[i])   // if smaller value is encountered
        {
            small = a[i];   // update the value of small
        }
    }
    printf("\n\nThe smallest element is: %d", small);
    return 0;
}
```

31:53

Open File | ✓Custom Input | Run

Custom Input

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```c
#include<stdio.h>

int main()
{
    int a[50], size, i, big, small;

    printf("\nEnter the size of the array: ");
    scanf("%d", &size);

    printf("\n\nEnter the %d elements of the array: \n\n", size);
    for(i = 0; i < size; i++)
    scanf("%d", &a[i]);

    big = a[0];
    for(i = 1; i < size; i++)
    {
        if(big < a[i])   // if larger value is encountered
        {
            big = a[i]; // update the value of big
        }
    }
    printf("\n\nThe largest element is: %d", big);

    small = a[0];
    for(i = 1; i < size; i++)
    {
        if(small>a[i])   // if smaller value is encountered
        {
```

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```
15      for(i = 1; i < size; i++)
16      {
17          if(big < a[i])   // if larger value is encountered
18          {
19              big = a[i]; // update the value of big
20          }
21      }
22      printf("\n\nThe largest element is: %d", big);
23
24      small = a[0];
25      for(i = 1; i < size; i++)
26      {
27          if(small>a[i])   // if smaller value is encountered
28          {
29              small = a[i];   // update the value of small
30          }
31      }
32      printf("\n\nThe smallest element is: %d", small);
33      return 0;
34  }
```

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Open File

Custom Input

Run

Custom Input

```
5
1 2 3 4 5
```

Status Successfully executed **Date** 2020-06-06 05:19:21 **Time** 0 sec **Mem** 9.424 kB

Input

```
5
1 2 3 4 5
```

Output

```
The largest element is: 5

The smallest element is: 1

        Coding is Fun !
```

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c Program do find smallest and largest element

Algorithm:

step 1: start

step 2: input n, a[50]

step 3: display how many elements

step 4: display enter array elements

```
for (i=0; i<n; i++)
    input a[i]
```

step 5: large = small = a[0]

step 6: large = small for (i=0; i<n; i++)

6.1 : large = a[i]

6.2 : if (a[i] < small)

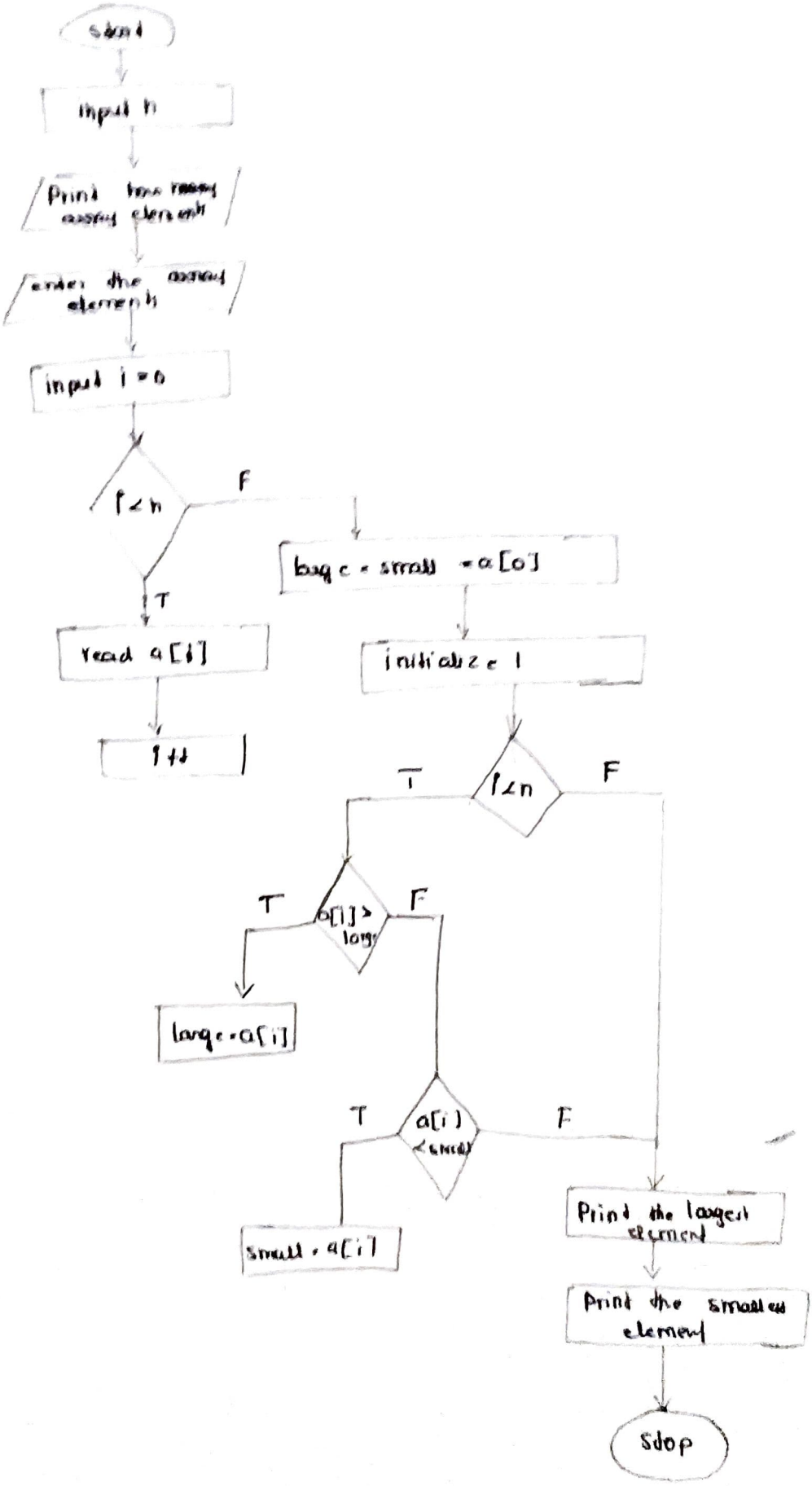
6.2.1 : small = a[i]

step 7: Print the largest element

step 8: Print the smallest element

step 9: stop.

Flowchart:


start
input n
Print how many array element
enter the array elements
input i = 0
i < n
F
T
read a[i]
i++
large = small = a[0]
initialize i
i < n
T
F
a[i] > large
T
F
large = a[i]
a[i] < small
T
F
small = a[i]
Print the largest element
Print the smallest element
stop