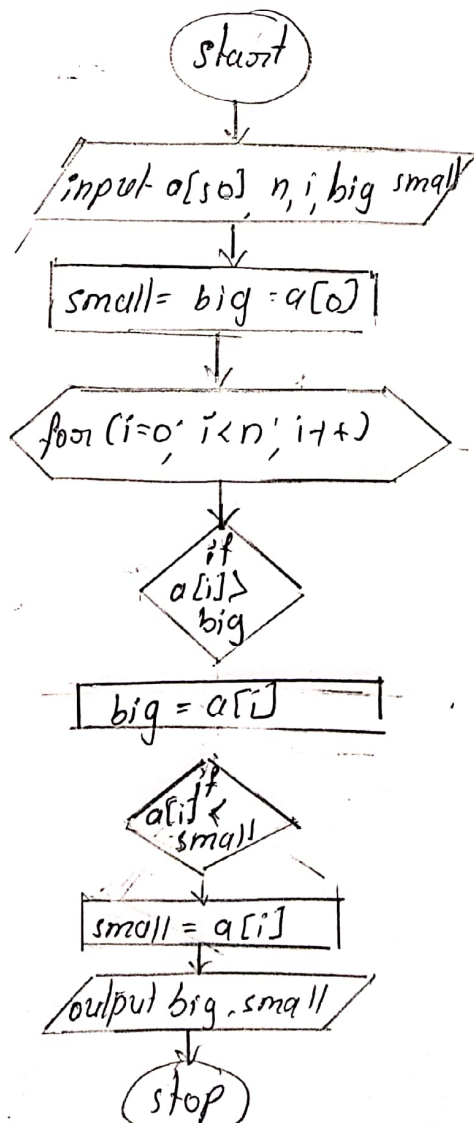


Program to find smallest & largest element in an array.

Algorithm:

- 1) Start
- 2) Read $a[50], n, i, \text{small}, \text{big}$
- 3) Enter no. of elements in an array
- 4) Enter array elements
- 5) $\text{small} = \text{big} = a[0]$
- 6) for ($i=0; i < n; i++$)
 if ($a[i] > \text{large}$)
 $\text{large} = a[i]$
 if ($a[i] < \text{small}$)
 $\text{small} = a[i]$
- 7) Display small & big element
- 8) Stop

Flowchart:





codechef.com/ide

**CODECHEF**

An Educational Initiative



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Code, Compile & Run

Ide

x

+

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
3 int main()
4 {
5     int a[50],i,n,large,small;
6     printf("How many elements:");
7     scanf("%d",&n);
8     printf("Enter the Array:");
9     for(i=0;i<n;++i)
10     scanf("%d",&a[i]);
11     large=small=a[0];
12     for(i=1;i<n;++i)
13     {
14         if(a[i]>large)
15             large=a[i];
16         if(a[i]<small)
17             small=a[i];
18     }
19     printf("The largest element is %d",large);
20     printf("\nThe smallest element is %d",small);
21     return 0;
22 }
```

0:0



Open File

✓ Custom Input

Run

Custom Input

```
4
1 2 3 4
```

Status Successfully executed Date 2020-06-05 09:03:49 Time 0 sec Mem 9.424 kB



Input

```
4
1 2 3 4
```

Output

```
How many elements:Enter the Array:The largest element is 4
The smallest element is 1
```