

Code, Compile & Run

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21

```
#include<stdio.h>
int main()
{
    int a[50],i,n,large,small;
    printf("How many elements:");
    scanf("%d",&n);
    printf("Enter the Array:");
    for(i=0;i<n;++i)
        scanf("%d",&a[i]);
    large=small=a[0];
    for(i=1;i<n;++i)
    {
        if(a[i]>large)
            large=a[i];
        if(a[i]<small)
            small=a[i];
    }
    printf("The largest element is %d",large);
    printf("\nThe smallest element is %d",small);
    return 0;
}
```

C (gcc 6.3)

Code gets auto saved every second

0

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19:1

Open File

Custom Input

Run

Custom Input

2

10 20

Status Successfully executed

Date 2020-06-30 04:13:59

Time 0 sec

Mem 9.424 kB

X

Input

2

10 20

Output

How many elements:Enter the Array:The largest element is 20

The smallest element is 10

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Algorithm:

step 1: start

step 2: Input the array elements

step 3: Initialize $small = large = arr[0]$

step 4: Repeat from $i = 2$ to n

step 5: if $(arr[i] > large)$

step 6: $large = arr[i]$

step 7: if $(arr[i] < small)$

step 8: $small = arr[i]$

step 9: Print $small$ and $large$

step 10: stop.

(ii) Flowchart :

