

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
3 int main()
4 {
5     int a[50], size, i, big, small;
6
7     printf("\nEnter the size of the array: ");
8     scanf("%d", &size);
9
10    printf("\nEnter the %d elements of the array: \n\n", size);
11    for(i = 0; i < size; i++)
12        scanf("%d", &a[i]);
13
14    big = a[0];
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("\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}
```

31:53

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

Enter the size of the array:

Enter the 5 elements of the array:

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```
7 printf("\nEnter the size of the array: ");
8 scanf("%d", &size);
9
10 printf("\n\nEnter the %d elements of the array: \n\n", size);
11 for(i = 0; i < size; i++)
12 scanf("%d", &a[i]);
13
14 big = a[0];
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 }
```

31:53



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

```
Enter the size of the array:
Enter the 5 elements of the array:
```

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

```
Enter the size of the array:
```

```
Enter the 5 elements of the array:
```

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 !
```

Algorithm

step 1: start

step 2: read value for size.

step 3: enter the element of array

for ($i = 0; i < \text{size}; i++$)

read $a[i]$.

step 4: $\text{big} = a[0]$.

step 5: for ($i = 1; i < \text{size}; i++$)

if ($\text{big} < a[i]$).

$\text{big} = a[i]$.

print the big value

step 6: $\text{small} = a[0]$

step 7: for ($i = 1; i < \text{size}; i++$)

if ($\text{small} > a[i]$).

$a[i] = \text{small}$.

print the smallest element.

step 8: stop.

flow chart

