

chetan\_projects > C\_experiments > exp5 > C 1\_seclargest.c > main()

```
1  #include <stdio.h>
2
3  int main() {
4      int n, i;
5      int arr[100];
6      int largest, second_largest;
7
8      printf("Enter number of elements: ");
9      scanf("%d", &n);
10
11     printf("Enter %d integers:\n", n);
12     for (i = 0; i < n; i++) {
13         scanf("%d", &arr[i]);
14     }
15
16     largest = arr[0];
17     second_largest = arr[0];
18
19     for (i = 0; i < n; i++) {
20         if (arr[i] > largest) {
21             second_largest = largest;
22             largest = arr[i];
23         } else if (arr[i] > second_largest && arr[i] != largest) {
24             second_largest = arr[i];
25         }
26     }
27
28     printf("\nSecond largest number = %d\n", second_largest);
29
30     return 0;
31 }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS D:\chetan_projects> & 'c:\Users\DELL\.vscode\extensions\ms-vscode.cp
-In-q5tla1ko.wkj' '--stdout=Microsoft-MIEngine-Out-4xvhjrss.fwd' '--std
=C:\msys64\ucrt64\bin\gdb.exe' '--interpreter=mi'
```

Enter number of elements: 3

Enter 3 integers:

6

3

9

Second largest number = 6

PS D:\chetan\_projects> █

## Output

Enter no. of elements: 3  
Enter 3 integers:

6  
9  
3

Second largest number is 6

Experiment No.

5.1

Name:

DATE: / /

```
#include <stdio.h>
int main() {
```

```
    int n, i;
    int arr[100];
```

```
    int largest, second-largest;
```

```
    printf("Enter no. of elements: ");
```

```
    scanf("%d", &n);
```

```
    printf("Enter %d integers: \n", n);
```

```
    for (i=0; i<n; i++) {
```

```
        scanf("%d", &arr[i]);
```

```
    }
```

```
    largest = arr[0];
```

```
    second-largest = arr[0];
```

```
    for (i=0; i<n; i++) {
```

```
        if (arr[i] > largest) {
```

```
            second-largest = largest;
```

```
            largest = arr[i];
```

```
        } else if (arr[i] > second-largest && arr[i] != largest) {
```

```
            second-largest = arr[i];
```

```
        }
```

```
    }
```

```
    printf("\n Second largest number = %d\n", second-largest);
```

```
    return 0;
```

```
}
```