

Assignment-2

The screenshot shows the Code::Blocks IDE with a C++ project named 'largest.c'. The code in the editor finds the first and second largest numbers in an array. The output window shows the execution results for an array of size 5 with elements 54, 78, 2, 45, 12.

```
largest.c - Code::Blocks 20.03
File Edit View Search Project Build Debug Fortran wxSmith Tools Tools+ Plugins DovyBlocks Settings Help
<global>
main0: int
23 largest1 = array[0];
24 largest2 = array[1];
25
26 if (largest1 < largest2)
27 {
28     temp = largest1;
29     largest1 = largest2;
30     largest2 = temp;
31 }
32
33 for (int i = 2; i < n; i++)
34 {
35     if (array[i] > largest1)
36     {
37         largest2 = largest1;
38         largest1 = array[i];
39     }
40     else if (array[i] > largest2 && array[i] != largest1)
41     {
42         largest2 = array[i];
43     }
44 }
45
46 printf ("The FIRST LARGEST = %d\n", largest1);
47 printf ("THE SECOND LARGEST = %d\n", largest2);
48
49 return 0;
50 }

Log & others
Build messages
File Line Message
--- Build file: "no target" in "no project" (compiler: unknown) ---
--- Build finished: 0 error(s), 0 warning(s) (0 minute(s), 26 second(s)) ---

C/C++ Windows (CR+LF) WINDOWS-1252 Line 50, Col 2, Pos 1050 Insert Read/Write default
```

Output window (C:\Users\yash\Documents\largest.exe):

```
Enter the size of the array
5
Enter the elements
54
78
2
45
12
The array elements are :
54 78 2 45 12
The FIRST LARGEST = 78
THE SECOND LARGEST = 54
Process returned 0 (0x0) execution time : 17.769 s
Press any key to continue.
```

The screenshot shows the Code::Blocks IDE with a C++ project named 'small.c'. The code sorts an array of numbers in descending order. The output window shows the execution results for an array of size 10 with elements 44, 57, 75, 90, 100.

```
small.c - Code::Blocks 20.03
File Edit View Search Project Build Debug Fortran wxSmith Tools Tools+ Plugins DovyBlocks Settings Help
<global>
main0: int
1 #include <stdio.h>
2 void main ()
3 {
4     int number[30];
5     int i, j, a, n, counter, average;
6
7     printf("Enter the value of N\n");
8     scanf("%d", &n);
9
10    printf("Enter the numbers \n");
11    for (i = 0; i < n; ++i)
12        scanf("%d", &number[i]);
13
14    for (i = 0; i < n; ++i)
15    {
16        for (j = i + 1; j < n; ++j)
17        {
18            if (number[i] < number[j])
19            {
20                a = number[i];
21                number[i] = number[j];
22                number[j] = a;
23            }
24        }
25    }
26
27 }
28 }

Log & others
Build messages
File Line Message
--- Build file: "no target" in "no project" (compiler: unknown) ---
--- Build finished: 0 error(s), 0 warning(s) (0 minute(s), 13 second(s)) ---

C/C++ Windows (CR+LF) WINDOWS-1252 Line 57, Col 6, Pos 1481 Insert Read/Write default
```

Output window (C:\Users\yash\Documents\small.exe):

```
Enter the value of N
10
Enter the numbers
44
57
75
90
100
The numbers arranged in descending order are given below
100
90
75
57
44
The 2nd largest number is = 90
The 2nd smallest number is = 57
The average of 90 and 57 is = 73 is not in the array
Process returned 55 (0x37) execution time : 121.157 s
Press any key to continue.
```







