

```
File Edit View Navigate Code Refactor Build Run Tools VCS Window Help Lab_11 - main.c
Lab_11 > main.c
Project
> Lab_11 D:\Tarleton Su
> External Libraries
Scratches and Consoles
1 //Class_Lab_11
2 //July 20, 2021
3 //Sonny Sparks
4 //Lab_11
5
6 #include <stdio.h>
7 #include <stdlib.h> //Call to Libraries
8 #define MAX_SIZE 10
9 #define TRUE 1 //Global Constants
10 ///////////////////////////////////////////////////
11 int getSize();
12 int validateArraySize();
13 void readEle(int[],int); //Function prototypes
14 void swap(int[],int);
15 ///////////////////////////////////////////////////
16 int main()
17 {
18     int a[MAX_SIZE], n;
19     n=validateArraySize(); //function calls (Downward Communication)
20     readEle(a,n);
21     swap(a,n);
22     return 0;
23 }
24 ///////////////////////////////////////////////////
25 int getSize()
26 {
27     int s;
28     printf(_Format: "\nEnter the array size :"); //Function to get Array size
29     scanf_s(_Format: "%d", &s);
30     return s;
31 }
32 ///////////////////////////////////////////////////
33 int validateArraySize()
34 {
35     swap
36 }
```


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External Libraries

Scratches and Consoles

main.c

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swap

void readEle(int a[],int n)

{

int i;

srand(_Seed: time(NULL));

//Array random elements calculations

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

{

a[i]=rand();

}

printf(_Format: "\n*****Array elements generated*****\n");

}

void swap(int a[], int n) {

//Original Print////////////////////////////////

int i;

printf(_Format: "\nArray elements are: \n");

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

printf(_Format: "%d\t", a[i]);

}

//Swap and print function

int small=a[0];

int small2=a[0];

int pos = 0, I;

int pos2=0, II;

for (I = 1; I < n; I++) {

if (a[I] < small){

small = a[I];

pos = I;

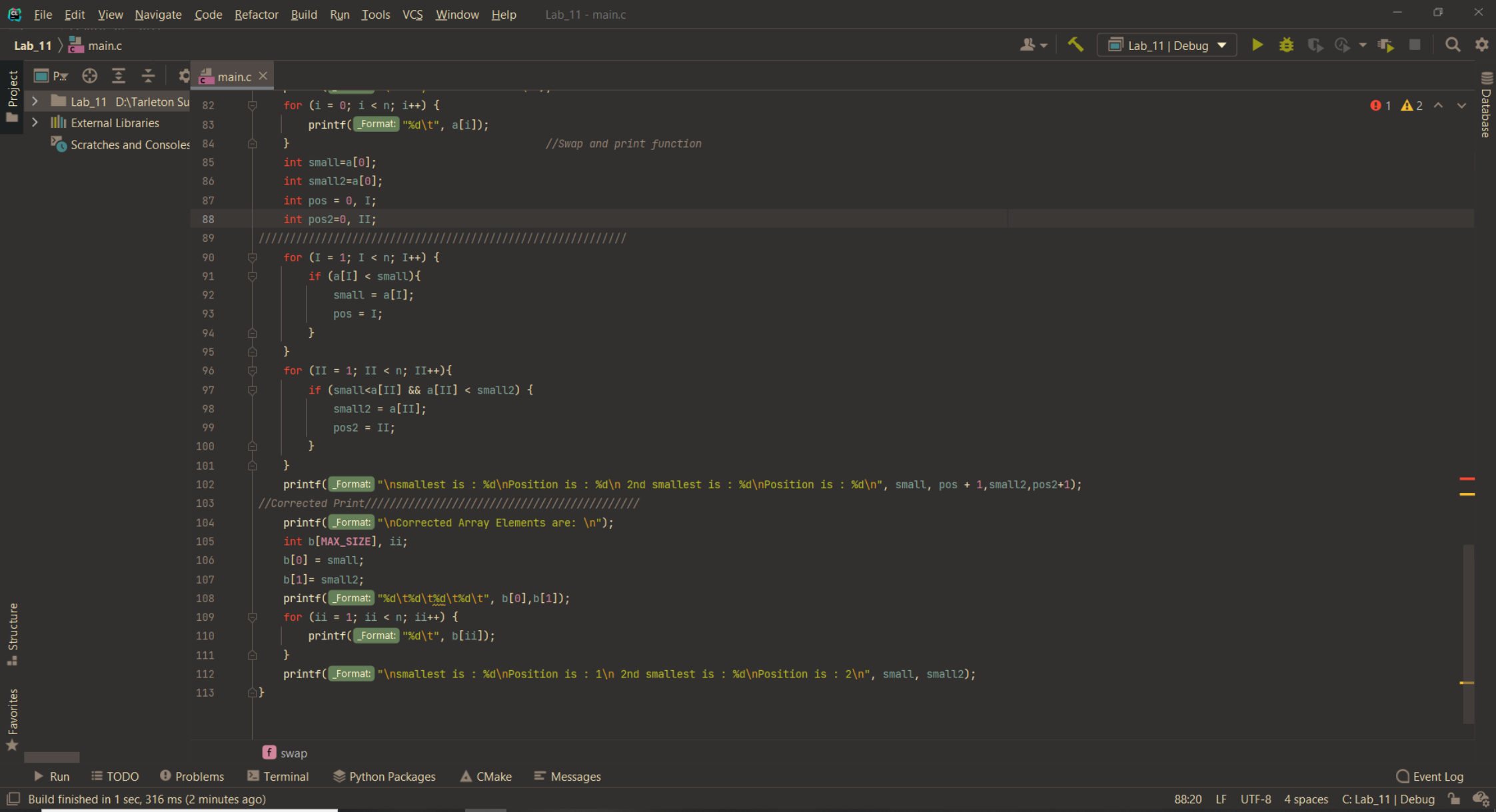
}

for (II = 1; II < n; II++){

if (small<a[II] && a[II] < small2) {

Build finished in 1 sec, 316 ms (2 minutes ago)

88:20 LF UTF-8 4 spaces C: Lab_11 | Debug



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```
//Class_Lab_11
//July 20, 2021
//Sonny Sparks
//Lab_11

#include <stdio.h>
#include <stdlib.h>           //Call to Libraries
#define MAX_SIZE 10
#define TRUE 1               //Global Constants
////////////////////////////////////
swap
```

1 2 ^ v

Run: Lab_11

▶ ↑
⚙️ ↓
↺
⏏️
🖨️
★

"D:\Tarleton Sum 21'\Sum 21' Procedural Programming\Class_Lab 11\Lab_11\cmake-build-debug\Lab_11.exe"

Enter the array size :10

*****Array elements generated*****

Array elements are:
7787 20316 27802 222 19340 12990 20065 21245 7435 23533
smallest is : 222
Position is : 4
2nd smallest is : 7435
Position is : 9

Corrected Array Elements are:
222 7435 11925888 -858993460 7435 -858993460 -858993460 -858993460 -858993460
-858993460 -858993460 -858993460 -858993460
smallest is : 222
Position is : 1
2nd smallest is : 7435
Position is : 2

Process finished with exit code 0
|

Run

TODOProblemsTerminalPython PackagesCMakeMessages

Build finished in 1 sec, 543 ms (moments ago)

23:1 L F UTF-8 4 spaces