

lab 5 prblm 1.c - Code::Blocks 20.03

File Edit View Search Project Build Debug Fortran wxSmith Tools Tools+ Plugins DoxyBlocks Settings Help

<global> merge(int arr[], int l, int m, int r) : void

Management

Projects Files FSymbols

Workspace

```
1  #include <stdio.h>
2  #include <stdlib.h>
3  void merge(int arr[], int l, int m, int r)
4  {
5      int i, j, k;
6      int n1 = m - 1 + 1;
7      int n2 = r - m;
8
9
10     int L[n1], R[n2];
11
12
13     for (i = 0; i < n1; i++)
14         L[i] = arr[l + i];
15     for (j = 0; j < n2; j++)
16         R[j] = arr[m + 1 + j];
17
18
19     i = 0;
20     j = 0;
21     k = 1;
22     while (i < n1 && j < n2) {
23         if (L[i] <= R[j]) {
24             arr[k] = L[i];
25             i++;
26         }
27         else {
28             arr[k] = R[j];
29             j++;
30         }
31         k++;
```

C:\Users\Scorpion\Downloads\alg lab\lab 5 prblm 1.c C/C++ Windows (CR+LF) WINDOWS-1252 Line 3, Col 1, Pos 41 Insert Read/Write default

lab 5 prblm 1.c - Code::Blocks 20.03

File Edit View Search Project Build Debug Fortran wxSmith Tools Tools+ Plugins DoxyBlocks Settings Help

<global> merge(int arr[], int l, int m, int r) : void

Management

Projects Files FSymbols

Workspace

```
31         k++;
32     }
33
34
35     while (i < n1) {
36         arr[k] = L[i];
37         i++;
38         k++;
39     }
40
41
42     while (j < n2) {
43         arr[k] = R[j];
44         j++;
45         k++;
46     }
47 }
48
49
50 void mergeSort(int arr[], int l, int r)
51 {
52     if (l < r) {
53
54         int m = l + (r - l) / 2;
55
56         mergeSort(arr, l, m);
57         mergeSort(arr, m + 1, r);
58
59         merge(arr, l, m, r);
60     }
61 }
```

C:\Users\Scorpion\Downloads\alg lab\lab 5 prblm 1.c C/C++ Windows (CR+LF) WINDOWS-1252 Line 3, Col 1, Pos 41 Insert Read/Write default



