



<global> main() : int



Managemen x

Project

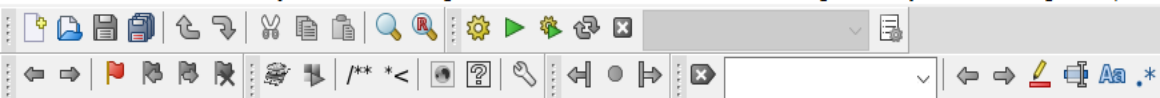
Workspace

Start here x merge_sort.c x

```
1  #include<stdio.h>
2  #include<stdlib.h>
3  #include<time.h>
4  void mergesort(int left[],int right[],int a[],int nl,int nr);
5  void split(int n,int a[])
6  {
7
8      int mid,i,j;
9      if(n<2)
10         return;
11     mid=(n)/2;
12     int left[mid];
13     int right[n-mid];
14     for(i=0;i<mid;i++)
15     {
16         left[i]=a[i];
17     }
18     for(j=mid;j<n;j++)
19     {
20         right[j-mid]=a[j];
21     }
22     split((sizeof(left))/(sizeof(int)),left);
23     split((sizeof(right))/(sizeof(int)),right);
24     mergesort(left,right,a,(int)((sizeof(left))/sizeof(int)),(int)((sizeof(right))/sizeof(int)));
25 }
```

Logs & others

Code::Blocks x Search results x Cccc x Build log x Build messages x CppCheck/Vera++ x CppCheck/Vera++ messages x Cscope x Debugger x DoxyBlocks x Fortran info x Closed files list x Thread search x



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Project

Workspace

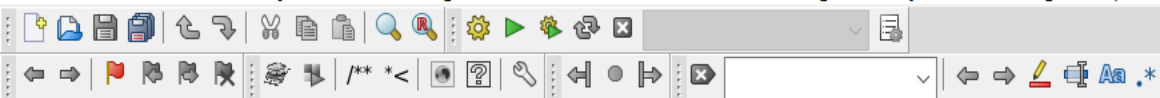
Start here x

merge_sort.c x

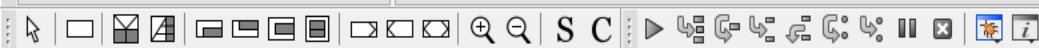
```
25 }
26 void mergesort(int left[],int right[],int a[],int nl,int nr)
27 {
28     int i=0;
29     int j=0;
30     int k=0;
31     while(i<nl&& j<nr)
32     {
33         if(left[i]<right[j])
34         {
35             a[k]=left[i];
36             i++;
37         }
38         else
39         {
40             a[k]=right[j];
41             j++;
42         }
43         k++;
44     }
45     while(i<nl)
46     {
47         a[k]=left[i];
48         i++;
49         k++;
```

Logs & others

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<global> main(): int



Managemen x

Project

Workspa

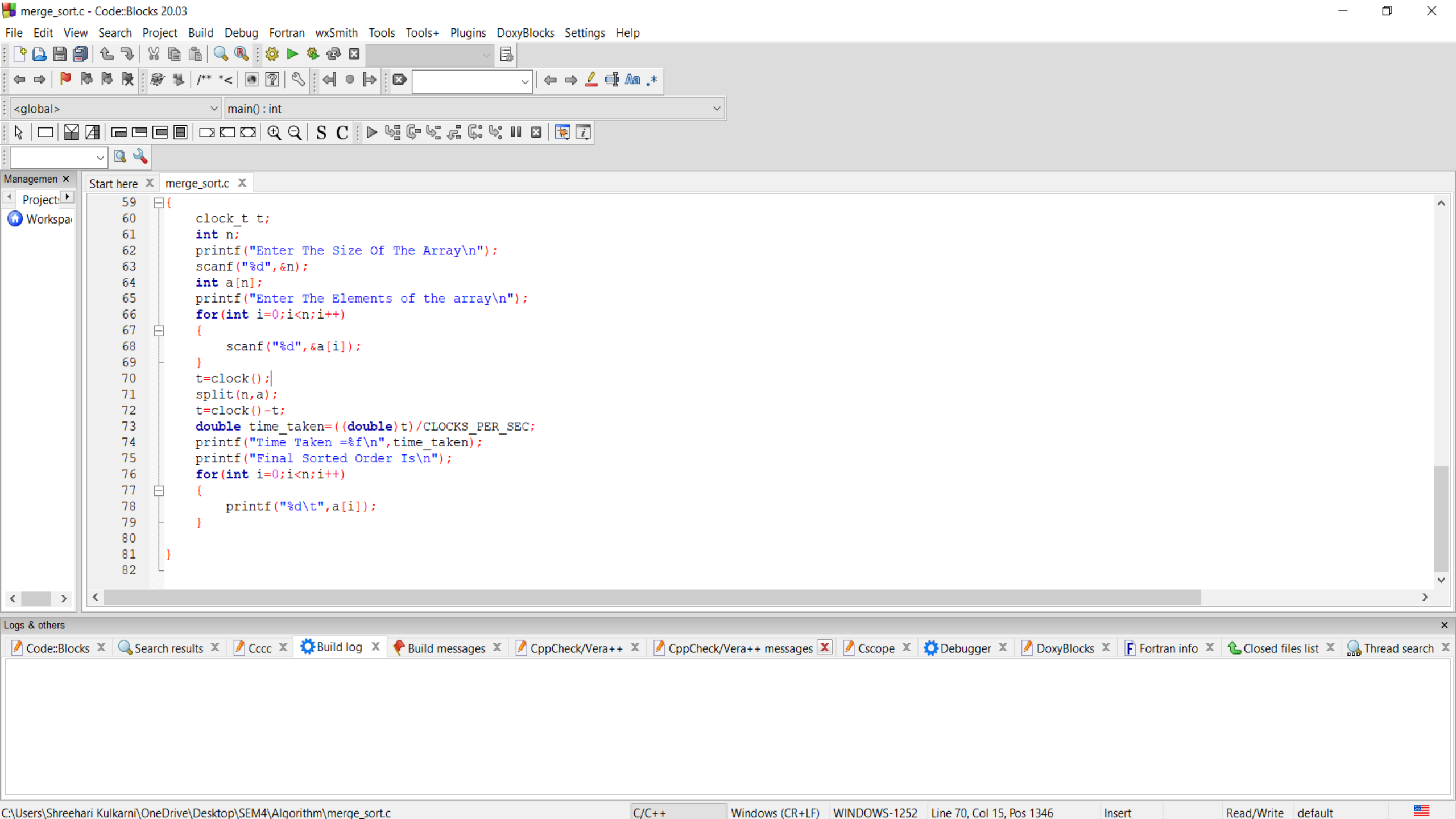
Start here x

merge_sort.c x

```
49         k++;
50     }
51     while(j<nr)
52     {
53         a[k]=right[j];
54         j++;
55         k++;
56     }
57 }
58 int main()
59 {
60     clock_t t;
61     int n;
62     printf("Enter The Size Of The Array\n");
63     scanf("%d",&n);
64     int a[n];
65     printf("Enter The Elements of the array\n");
66     for(int i=0;i<n;i++)
67     {
68         scanf("%d",&a[i]);
69     }
70     t=clock();
71     split(n,a);
72     t=clock()-t;
73     double time taken=((double)t)/CLOCKS_PER_SEC;
```

Logs & others

Code::Blocks x Search results x Cccc x Build log x Build messages x CppCheck/Vera++ x CppCheck/Vera++ messages x Cscope x Debugger x DoxyBlocks x Fortran info x Closed files list x Thread search x



```
23
Enter The Elements of the array
23
22
21
20
19
18
17
16
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1
Time Taken =0.000006
Final Sorted Order Is
1      2      3      4      5      6      7      8      9      10     11     12     13     14     15     16     17
8      19     20     21     22     23

...Program finished with exit code 0
Press ENTER to exit console.
```