

C:\Users\Admin\Desktop\4th sem\ADA lab\ADA lab programs\linear search recursion\recursive_linear_search.cpp - [Executing] - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help

TDM-GCC 4.9.2 64-bit Release

(globals)

```
Project Classes Debug recursive_linear_search.cpp
1 #include<stdio.h>
2 void linear_search(int[],int,int,int);
3 void bubble_sort(int[],int);
4 int main(){
5     int key,size,i;;
6
7     C:\Users\Admin\Desktop\4th sem\ADA lab\ADA lab programs\linear search recursion\recursive_linear_search.exe
8     enter the size of a list :3
9     enter elements
10    123
11    3
12    8
13
14    Enter the search key
15    34
16    key not found
17
18    -----
19    Process exited after 6.656 seconds with return value 0
20    Press any key to continue . . .
21
22
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35
36
37
38
39 if(list[lo]==key){
40     printf("key found \n");
41 }
42 else
43     linear_search(list,lo+1,hi,key);
44 }
```

Compiler Resources Compile Log Debug Find Results Close

Compilation results...

- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\Admin\Desktop\4th sem\ADA lab\ADA lab programs\linear search recursion\recursive_linear_search.exe
- Output Size: 130.5458984375 KiB
- Compilation Time: 0.14s

Line: 45 Col: 1 Sel: 0 Lines: 45 Length: 834 Insert Done parsing in 0.016 seconds

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(globals)

Project Classes Debug

recursive_linear_search.cpp

```
1  #include<stdio.h>
2  void linear_search(int[],int,int,int);
3  void bubble_sort(int[],int);
4  int main(){
5      int key,size,i;;
6      int list[25];
7      printf("enter the size of a list :");
8      scanf("%d",&size);
9      printf("enter elements \n");
10     for(i=0;i<size;i++){
11         scanf("%d",&list[i]);
12     }
13     bubble_sort(list,size);
14     printf("\n");
15     printf("\n Enter the search key \n");
16     scanf("%d",&key);
17     linear_search(list,0,size,key);
18     return 0;
19 }
20 void bubble_sort(int list[],int size){
21     int temp,i,j;
22     for(i=0;i<size;i++){
23         for(j=1;j<size;j++){
24             if(list[i]>list[j]){
25                 temp=list[i];
26                 list[i]=list[j];
27                 list[j]=temp;
28             }
29         }
30     }
31 }
32 }
33
34 void linear_search(int list[],int lo, int hi, int key){
35     if(lo>hi){
36         printf("key not found \n");
37         return;
38     }
39     if(list[lo]==key){
40         printf("key found \n");
41     }
42     else
43         linear_search(list,lo+1,hi,key);
44 }
45 }
```

Compiler Resources Compile Log Debug Find Results

Line: 45 Col: 1 Sel: 0 Lines: 45 Length: 834 Insert Done parsing in 0.016 seconds

Type here to search

11:43 15-04-2021 ENG

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(globals)

Project Classes Debug recursive_linear_search.cpp

```
1 #include<stdio.h>
2 void linear_search(int[],int,int,int);
```

C:\Users\Admin\Desktop\4th sem\ADA lab\ADA lab programs\linear search recursion\recursive_linear_search.exe

enter the size of a list :4

enter elements

1223

43

6

22

Enter the search key

6

key found

Process exited after 9.19 seconds with return value 0

Press any key to continue . . .

```
35 if(lo>hi){
36     printf("key not found \n");
37     return;
38 }
39 if(list[lo]==key){
40     printf("key found \n");
41 }
42 else
43     linear_search(list,lo+1,hi,key);
44 }
```

Compiler Resources Compile Log Debug Find Results Close

Abort Compilation

☐ Shorten compiler paths

Compilation results...

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