

screenrec

File Edit Selection View Go Run Terminal Help

DAA

LinearSearch.cpp X

LinearSearch.cpp > main()

```
1 //Linear Search
2 //Name: Maniyar Danish
3 //Reg.no: 2020BIT028
4 #include<iostream>
5 using namespace std;
6 int main(){
7     int arr[9]={2,4,6,1,5,3,8,9,7};
8     cout<<"Enter a number from 1 to 9:";
9     int n;
10    cin>>n;
11    for(int i=0;i<9;i++){
12        if(arr[i]==n){
13            cout<<"Index of entered number is:"<<i<<endl;
14            break;
15        }
16    }
17 }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
PS C:\Users\Optimal\Desktop\DAA> g++ LinearSearch.cpp
PS C:\Users\Optimal\Desktop\DAA> .\a.exe
Enter a number from 1 to 9:8
Index of entered number is:6
PS C:\Users\Optimal\Desktop\DAA> 
```

Ln 17, Col 2 Spaces: 4 UTF-8 CRLF C++ Win32

Type here to search 30°C Haze ENG IN 10:05 PM 1/30/2023

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← →

🔍 DAA

screenrec

EXPLORER

▼ DAA

.vscode

a.exe

BinarySearch.cpp

LinearSearch.cpp

LinearSearch.exe

BinarySearch.cpp > ...

```
1 //Binary Search//Name: Maniyar Danish// Reg.no:2020BIT028
2 #include<iostream>
3 using namespace std;
4 int main(){
5     int arr[9]={1,2,3,4,5,6,7,8,9};
6     int size=sizeof(arr)/sizeof(arr[0]);
7     int l=0,e=size-1,mid=(l+e)/2;
8     cout<<"Enter a number from 1 to 9:";
9     int n;
10    cin>>n;
11    while(l<=e){
12        if(arr[mid]==n){
13            cout<<"Index of entered number is:"<<mid<<endl;
14            break;
15        }
16        else if(arr[mid]>n){
17            e=mid-1;
18            mid=(e+l)/2;
19        }
20        else{
21            l=mid+1;
22            mid=(e+l)/2;
23        }
24    }
25 }
```

PROBLEMS

OUTPUT

DEBUG CONSOLE

TERMINAL

```
Enter a number from 1 to 9:6
Index of entered number is:5
PS C:\Users\Optimal\Desktop\DAA> 
```

Ln 1, Col 58 Spaces: 4 UTF-8 CRLF C++ Win32

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⚙️

📄 C/C++: ... ✓

🔗 cppdbg: Lin...

🔗 cppdbg: Lin...

FileEditSelectionViewGoRunTerminalHelp

DAA

screenrec

EXPLORER

DAA

.vscode

a.exe

BinarySearch.cpp

HalfLinearSearch.cpp

LinearSearch.cpp

LinearSearch.exe

HalfLinearSearch.cpp > main()

```
1 //Half Linear Search
2 //Name: Maniyar Danish
3 // reg no: 2020BIT028
4 #include<iostream>
5 using namespace std;
6 int main(){
7     int arr[9]={2,4,6,1,5,3,8,9,7};
8     int l=0,e=sizeof(arr)/sizeof(arr[0])-1;
9     int n;
10    cin>>n;
11    while(l<=e){
12        if(arr[l]==n||arr[e]==n){
13            if(arr[l]==n){
14                cout<<"Index of Entered number is:"<<l<<endl;
15            }
16            else{
17                cout<<"Index of Entered number is:"<<e<<endl;
18            }
19            break;
20        }
21        l++;
22        e--;
23    }
24 }
```

PROBLEMS

OUTPUT

DEBUG CONSOLE

TERMINAL

```
PS C:\Users\Optimal\Desktop\DAA> g++ HalfLinearSearch.cpp
PS C:\Users\Optimal\Desktop\DAA> .\a.exe
6
Index of Entered number is:2
PS C:\Users\Optimal\Desktop\DAA> |
```

Ln 23, Col 6

Spaces: 4

UTF-8

CRLF

C++

Win32

Type here to search

30°C Haze

ENG IN

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1/30/2023

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DAA

LinearSearch.cpp BinarySearch.cpp HalfLinearSearch.cpp BubbleSort.cpp

EXPLORER

DAA

.vscode

a.exe

BinarySearch.cpp

BubbleSort.cpp

HalfLinearSearch.cpp

LinearSearch.cpp

LinearSearch.exe

BubbleSort.cpp > ...

```
1 //Bubble Sort
2 // Name: Maniyar Danish
3 // Reg. no: 2020BIT028
4 #include<iostream>
5 using namespace std;
6 int main(){
7     int arr[9]={2,4,6,1,5,3,8,9,7};
8     int n=sizeof(arr)/sizeof(arr[0]);
9     for(int i=0;i<n-1;i++){
10         for(int j=0;j<n-i-1;j++){
11             if(arr[j]>arr[j+1]){
12                 int temp=arr[j];
13                 arr[j]=arr[j+1];
14                 arr[j+1]=temp;
15             }
16         }
17     }
18     cout<<"Sorted array is:";
19     for(int i=0;i<n;i++){
20         cout<<arr[i]<<" ";
21     }
22     cout<<endl;
23 }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
PS C:\Users\Optimal\Desktop\DAA> .\a.exe
PS C:\Users\Optimal\Desktop\DAA> g++ BubbleSort.cpp
PS C:\Users\Optimal\Desktop\DAA> .\a.exe
Sorted array is:1 2 3 4 5 6 7 8 9
PS C:\Users\Optimal\Desktop\DAA> 
```

Ln 3, Col 23 Spaces: 4 UTF-8 CRLF C++ Win32

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DAA

LinearSearch.cpp BinarySearch.cpp HalfLinearSearch.cpp BubbleSort.cpp SelectionSort.cpp

EXPLORER

DAA

.vscode

a.exe

BinarySearch.cpp

BubbleSort.cpp

HalfLinearSearch.cpp

LinearSearch.cpp

LinearSearch.exe

SelectionSort.cpp

SelectionSort.cpp > main()

```
1 //Selection Sort
2 //Name: Maniyar Danish
3 //Reg.no: 2020BIT028
4 #include<iostream>
5 using namespace std;
6 int main(){
7     int arr[9]={2,4,6,1,5,3,8,9,7};
8     int n=sizeof(arr)/sizeof(arr[0]);
9     for(int i=0;i<n-1;i++){
10         for(int j=i+1;j<n;j++){
11             if(arr[i]>arr[j]){
12                 int temp=arr[i];
13                 arr[i]=arr[j];
14                 arr[j]=temp;
15             }
16         }
17     }
18     cout<<"Sorted array is:";
19     for(int i=0;i<n;i++){
20         cout<<" "<<arr[i];
21     }
22     cout<<endl;
23 }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
PS C:\Users\Optimal\Desktop\DAA> g++ SelectionSort.cpp
PS C:\Users\Optimal\Desktop\DAA> .\a.exe
Sorted array is: 1 2 3 4 5 6 7 8 9
PS C:\Users\Optimal\Desktop\DAA> 
```

Ln 22, Col 16 Spaces: 4 UTF-8 CRLF C++ Win32

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EXPLORER

> DAA

> .vscode

≡ a.exe

BinarySearch.cpp

BubbleSort.cpp

HalfLinearSearch.cpp

InsertionSort.cpp

LinearSearch.cpp

≡ LinearSearch.exe

SelectionSort.cpp

LinearSearch.cpp

BinarySearch.cpp

HalfLinearSearch.cpp

BubbleSort.cpp

SelectionSort.cpp

InsertionSort.cpp

InsertionSort.cpp > main()

```
1 //Insertion Sort
2 //Name: Maniyar Danish
3 //Reg.no:2020BIT028
4 #include<iostream>
5 using namespace std;
6 int main(){
7     int arr[9]={2,4,6,1,5,3,8,9,7};
8     int n=sizeof(arr)/sizeof(arr[0]);
9     for(int i=1;i<n;i++){
10         int temp=arr[i];
11         int j=i-1;
12         while(j>=0&&arr[j]>temp){
13             arr[j+1]=arr[j];
14             j--;
15         }
16         arr[j+1]=temp;
17     }
18     cout<<"Sorted array is:";
19     for(int i=0;i<n;i++){
20         cout<<" "<<arr[i];
21     }
22     cout<<endl;
23 }
```

PROBLEMS

OUTPUT

DEBUG CONSOLE

TERMINAL

PS C:\Users\Optimal\Desktop\DAA> g++ InsertionSort.cpp
PS C:\Users\Optimal\Desktop\DAA> .\a.exe
Sorted array is: 1 2 3 4 5 6 7 8 9
PS C:\Users\Optimal\Desktop\DAA>

OUTLINE

TIMELINE

Ln 13, Col 29

Spaces: 4

UTF-8

CRLF

C++

Win32

21°C Mostly clear

ENG IN

11:39 PM

1/30/2023