

SOURCE CODE

```
#include<iostream>
using namespace std;

int main(){
    int *a,n,x;
    cout<<"enter the size: ";
    cin>>n;
    a=new int[n];
    cout<<"Enter the elements: "<<endl;
    for(int i=0;i<n;i++){
        cin>>a[i];
    }
    // search
    cout<<"Enter the element you want to search: ";
    cin>>x;
    int count=0;
    for(int i=0;i<n;i++){
        if(a[i]==x){
            cout<<"Element "<<a[i]<<" is found at: "<<(i+1)<<endl;
            count++;
            break;
        }
    }
    if(count==0){
        cout<<"Element is not found"<<endl;
    }
    return 0;
}
```

OUTPUT

```
PS C:\Users\anil kumar\Documents\anil\.vscode\DataStructure_in_nsut>
PS C:\Users\anil kumar\Documents\anil\.vscode\DataStructure_in_nsut> cd "c:\Users\anil kumar\Documents\anil\.vscode\DataStructure_in_nsut" ; if ($?) { g++ linearSearch
h.cpp -o linearSearch } ; if ($?) { .\linearSearch }
enter the size: 5
Enter the elements:
1 2 3 4 5
Enter the element you want to search: 5
Element 5 is found at: 5
PS C:\Users\anil kumar\Documents\anil\.vscode\DataStructure_in_nsut> cd "c:\Users\anil kumar\Documents\anil\.vscode\DataStructure_in_nsut" ; if ($?) { g++ linearSearch
h.cpp -o linearSearch } ; if ($?) { .\linearSearch }
enter the size: 5
Enter the elements:
1 2 3 4 5
Enter the element you want to search: 1
Element 1 is found at: 1
PS C:\Users\anil kumar\Documents\anil\.vscode\DataStructure_in_nsut> cd "c:\Users\anil kumar\Documents\anil\.vscode\DataStructure_in_nsut" ; if ($?) { g++ linearSearch
h.cpp -o linearSearch } ; if ($?) { .\linearSearch }
enter the size: 5
Enter the elements:
1 2 3 4 5
Enter the element you want to search: 6
Element is not found
PS C:\Users\anil kumar\Documents\anil\.vscode\DataStructure_in_nsut> |
```