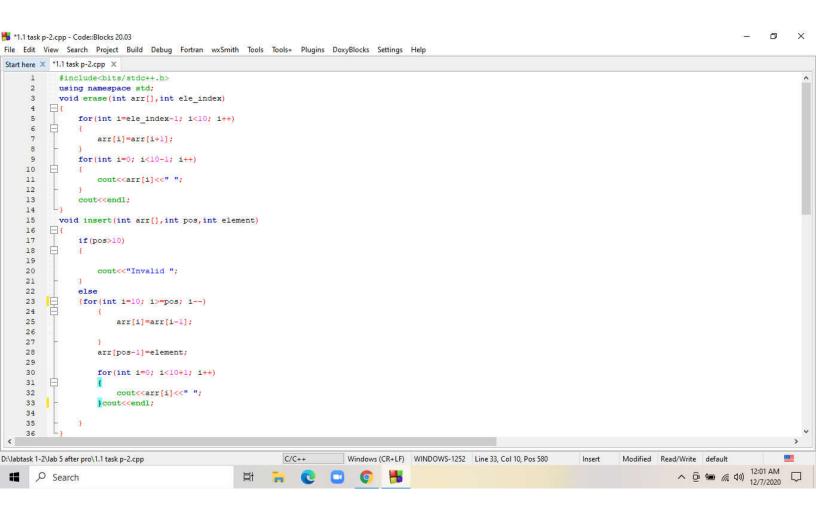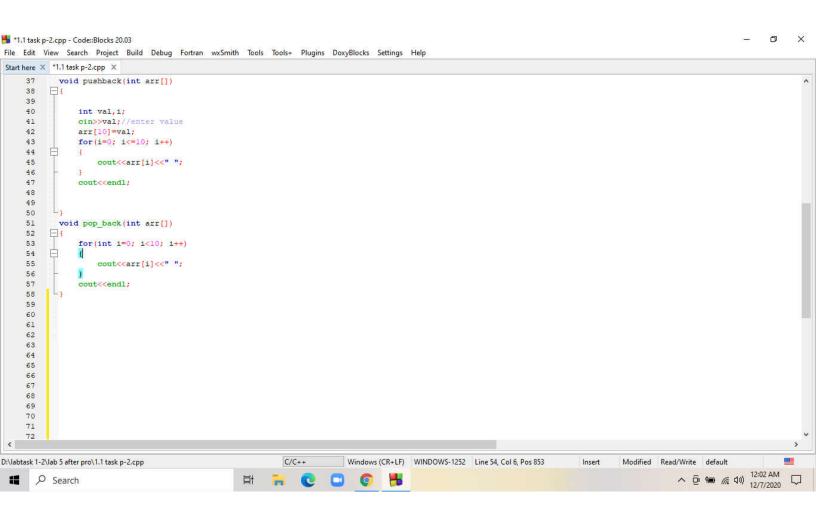File Edit View Search Project Build Debug Fortran wxSmith Tools Tools+ Plugins DoxyBlocks Settings Help

Start here   *1.1 task.cpp

```cpp
#include<bits/stdc++.h>
#include<vector>
using namespace std;
int main()
{   vector<int>v;
    int element;
    for(int i=1; i<=5; i++)
    {
        cin>>element;
        v.push_back(element);
    }
    for(int i=0; i!=v.size(); i++)
    {
        cout<<v[i]<<" ";
    }
    cout<<endl;
    v.pop_back();
    for(int i=0; i!=v.size(); i++)
    {
        cout<<v[i]<<" ";
    }
    v.insert(v.begin()+1,99);
    cout<<endl;
    for(int i=0; i!=v.size(); i++)
    {
        cout<<v[i]<<" ";
    }
    v.erase(v.begin()+3);
        cout<<endl;
    for(int i=0; i!=v.size(); i++)
    {
        cout<<v[i]<<" ";
    }
}
```

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Start here   *1.1 task p-2.cpp

```cpp
1       #include<bits/stdc++.h>
2       using namespace std;
3       void erase(int arr[],int ele_index)
4       {
5           for(int i=ele_index-1; i<10; i++)
6           {
7               arr[i]=arr[i+1];
8           }
9           for(int i=0; i<10-1; i++)
10          {
11              cout<<arr[i]<<" ";
12          }
13          cout<<endl;
14      }
15      void insert(int arr[],int pos,int element)
16      {
17          if(pos>10)
18          {
19
20              cout<<"Invalid ";
21          }
22          else
23          {for(int i=10; i>=pos; i--)
24              {
25                  arr[i]=arr[i-1];
26
27              }
28              arr[pos-1]=element;
29
30              for(int i=0; i<10+1; i++)
31              {
32                  cout<<arr[i]<<" ";
33              }cout<<endl;
34
35          }
36      }
```

D:\labtask 1-2\lab 5 after pro\1.1 task p-2.cpp   C/C++   Windows (CR+LF)   WINDOWS-1252   Line 33, Col 10, Pos 580   Insert   Modified   Read/Write   default

```cpp
void pushback(int arr[])
{

    int val,i;
    cin>>val;//enter value
    arr[10]=val;
    for(i=0; i<=10; i++)
    {
        cout<<arr[i]<<" ";
    }
    cout<<endl;


}
void pop_back(int arr[])
{
    for(int i=0; i<10; i++)
    {
        cout<<arr[i]<<" ";
    }
    cout<<endl;
}
```

```cpp
71
72
73    int main()
74    {
75        int arr[10]= {0,1,2,3,4,5,6,7,8,9};
76        for(int i=0; i<10; i++)
77        {
78            cout<<arr[i]<<" ";
79        }
80        cout<<endl;
81
82        int choice;
83        cin>>choice;
84        if(choice==1)
85        {
86            int ele_index;
87            cin>>ele_index;//the index number of the element to delete
88            erase(arr,ele_index);
89
90        }
91
92        if(choice==2)
93        {
94            int pos,element;
95            cin>>pos>>element;
96            insert(arr,pos,element);
97
98        }
99
100        pop_back(arr);
101        pushback(arr);
102
103
104    }
105
```

Start here   1.2 task.cpp

```cpp
#include<bits/stdc++.h>
#include<iterator>
#include<vector>
using namespace std;
int main()
{
    vector<int> arr = {1,2,3,4,5};
    vector<int>::iterator it; //declare iterator
    for (it = arr.begin(); it < arr.end(); it++)
    {

        cout << *it << " ";

    }
    cout <<endl;
    it=arr.erase(arr.begin()+2);//deleting 3rd elemnat
    for (it = arr.begin(); it < arr.end(); it++)
    {

        cout << *it << " ";

    }
    return 0;
}
```

D:\labtask 1-2\lab 5 after pro\1.2 task.cpp   C/C++   Windows (CR+LF)   WINDOWS-1252   Line 1, Col 1, Pos 0   Insert   Read/Write   default
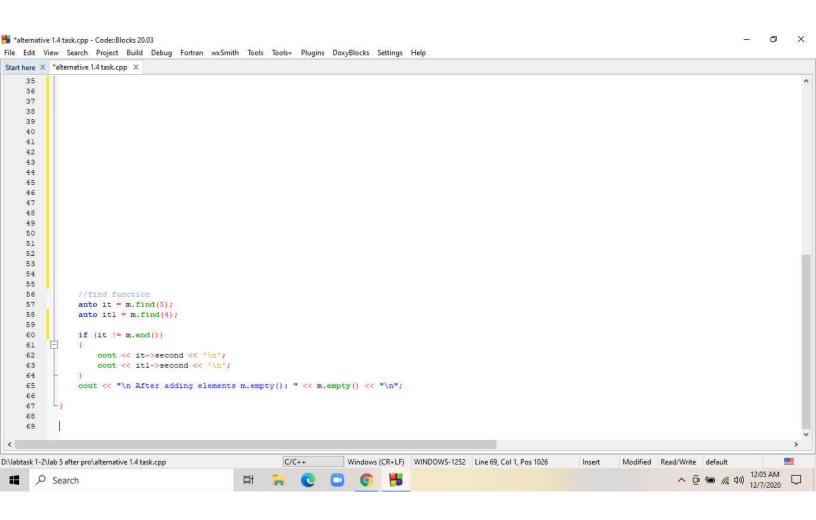
Start here ✕   1.3 task.cpp ✕

```cpp
#include<bits/stdc++.h>
#include<utility>
using namespace std;
bool sort_sec(const pair<int,int> &p1,const pair<int,int> &p2)
{
    return (p1.second < p2.second);
}
int main()
{
    vector<pair<int,int>>vp;//vector of pairs
    //push back element in vector
    vp.push_back(make_pair(1,50));
    vp.push_back(make_pair(5,30));
    vp.push_back(make_pair(3,20));
    vp.push_back(make_pair(9,10));
    vp.push_back(make_pair(-2,90));
    vp.push_back(make_pair(-7,-60));
    vp.push_back(make_pair(2,100));
    // before sorting
    for(int i=0;i<7;i++)
    {
        cout<<vp[i].first<<" || "<<vp[i].second<<endl;
    }
    cout<<endl<<"----X----"<<endl;
    //sort in ascending
    sort(vp.begin(), vp.end(), sort_sec);
     // after sorting
    for(int i=0;i<7;i++)
    {
        cout<<vp[i].first<<" || "<<vp[i].second<<endl;
    }
}
```

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

Start here | *1.4 task.cpp

```cpp
#include<bits/stdc++.h>
#include<map>
using namespace std;
int main()
{
    map<int,int>m;
    cout << " Initially m.empty(): " << m.empty() << "\n";//to check whether the map container is empty or not
    m.insert({2,20});//(key,value)
    m.insert({3,50});
    m.insert({4,60});
    m.insert({6,70});
    m.insert({7,40});
    m.insert({5,30});
    for(auto it: m)
    {
        cout<<it.first<<" "<<it.second<<endl;
    }
    cout<<endl<<"----"<<endl;
    //erase
    m.erase(2);
    m.erase(6);
    for(auto it: m)
    {
        cout<<it.first<<" "<<it.second<<endl;
    }
    cout<<endl<<"---"<<endl;
    //find function
    auto it = m.find(5);
    auto itl = m.find(4);
    if (it != m.end())
    {
        cout << it->second << '\n';
        cout << itl->second << '\n';
    }
    cout << "\n After adding elements, m.empty(): " << m.empty() << "\n";

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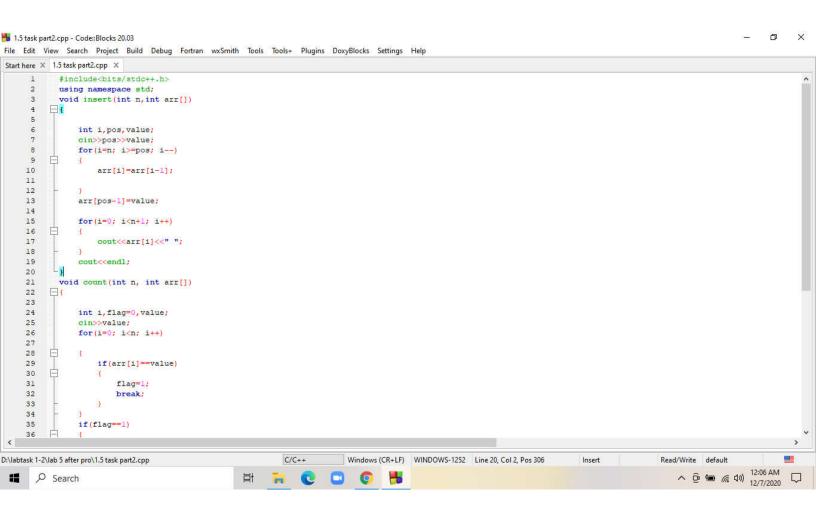
```
File  Edit  View  Search  Project  Build  Debug  Fortran  wxSmith  Tools  Tools+  Plugins  DoxyBlocks  Settings  Help
```

Start here   1.4 task part 2.cpp

```cpp
1       #include<bits/stdc++.h>
2       using namespace std;
3       void find(int a[], int k)
4       {
5           int i,flag=0;;
6           for(i=0; i<n; i++)
7           {
8               if(a[i]==k)
9               {
10                  flag++;
11                  break;
12              }
13          }
14          if(flag==0)
15              cout<<"Key not found"<<endl;
16          else
17              cout<<"Key found at index "<<i<<endl;
18      }
19
20      void empty(int a[],int arr[])
21      {
22          int i,count=0,flag=0;
23          for(i=0; i<n; i++)
24          {
25              if(a[i]!='\0')
26                  count++;
27              if(count==0)
28                  cout<<"Empty"<<endl;
29              else
30              {
31                  cout<<"Not empty"<<endl;
32              }
33          }
34      }
35
```

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

Start here ✕   1.5 task.cpp ✕

```cpp
#include<bits/stdc++.h>
#include<set>
using namespace std;
int main()
{
    set<int,greater<int>>s;
    set<int,greater<int>>::iterator it;//descending order
    s.insert(50);
    s.insert(40);
    s.insert(30);
    s.insert(30);
    s.insert(60);
    for(it=s.begin();it!=s.end();it++)
    {
        cout<<*it<<" ";
    }

    cout<<endl;
     if (s.count(40))
        cout << "40 is present in the set\n";
    else
        cout << "40 is not present in the set\n";

}
```

D:\labtask 1-2\lab 5 after pro\1.5 task.cpp   C/C++   Windows (CR+LF)   WINDOWS-1252   Line 1, Col 1, Pos 0   Insert   Read/Write   default

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

Start here   ✕   *alternative 1.4 task.cpp   ✕

```cpp
#include<bits/stdc++.h>
#include<map>
using namespace std;
int main()
{
    map<int,int>m;
    cout << " Initially m.empty(): " << m.empty() << "\n";//to check whether the map container is empty or not
    //insert

    m[2]=20;
    m[3]=50;
    m[4]=60;
    m[6]=70;
    m[7]=40;
    m[5]=30;//(key,value)

    for(auto it: m)
    {
        cout<<it.first<<" "<<it.second<<endl;
    }
    cout<<endl<<"----"<<endl;
    //erase
    m.erase(2);
    m.erase(6);
    for(auto it: m)
    {
        cout<<it.first<<" "<<it.second<<endl;
    }
    cout<<endl<<"---"<<endl;
```

D:\labtask 1-2\lab 5 after pro\alternative 1.4 task.cpp   C/C++   Windows (CR+LF)   WINDOWS-1252   Line 39, Col 5, Pos 654   Insert   Modified   Read/Write   default

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

Start here | *alternative 1.4 task.cpp

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55
56      //find function
57      auto it = m.find(5);
58      auto it1 = m.find(4);
59
60      if (it != m.end())
61      {
62          cout << it->second << '\n';
63          cout << it1->second << '\n';
64      }
65      cout << "\n After adding elements m.empty(): " << m.empty() << "\n";
66
67  }
68
69
```

D:\labtask 1-2\lab 5 after pro\alternative 1.4 task.cpp   C/C++   Windows (CR+LF)   WINDOWS-1252   Line 69, Col 1, Pos 1026   Insert   Modified   Read/Write   default

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

Start here   1.5 task part2.cpp

```cpp
#include<bits/stdc++.h>
using namespace std;
void insert(int n,int arr[])
{

    int i,pos,value;
    cin>>pos>>value;
    for(i=n; i>=pos; i--)
    {
        arr[i]=arr[i-1];

    }
    arr[pos-1]=value;

    for(i=0; i<n+1; i++)
    {
        cout<<arr[i]<<" ";
    }
    cout<<endl;
}
void count(int n, int arr[])
{

    int i,flag=0,value;
    cin>>value;
    for(i=0; i<n; i++)
    {
        if(arr[i]==value)
        {
            flag=1;
            break;
        }
    }
    if(flag==1)
    {
```

D:\labtask 1-2\lab 5 after pro\1.5 task part2.cpp   C/C++   Windows (CR+LF)   WINDOWS-1252   Line 20, Col 2, Pos 306   Insert   Read/Write   default

```cpp
            cout<<endl;
        }
    void count(int n, int arr[])
    {

        int i,flag=0,value;
        cin>>value;
        for(i=0; i<n; i++)

        {
            if(arr[i]==value)
            {
                flag=1;
                break;
            }
        }
        if(flag==1)
        {
            cout<<value<<" is present";
        }
        else
        {
            cout<<value<<" isn't present";
        }

    }
    int main()
    {

        int n,i;
        int arr[10000];;
        cin>>n;
        for(i=0; i<n; i++)
        {
            cin>>arr[i];
        }
```

```cpp
        int i,flag=0,value;
        cin>>value;
        for(i=0; i<n; i++)

        {
            if(arr[i]==value)
            {
                flag=1;
                break;
            }
        }
        if(flag==1)
        {
            cout<<value<<" is present";
        }
        else
        {
            cout<<value<<" isn't present";
        }

}
int main()
{

    int n,i;
    int arr[10000];;
    cin>>n;
    for(i=0; i<n; i++)
    {
        cin>>arr[i];
    }
    insert(n,arr);
    count(n,arr);
}
```