```
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RLL NO:COSA46
CLASS:SE
#include <iostream>
#include <algorithm>
#include <vector>
#include <string>
using namespace std;
class student
{
public:
       int rollno;
       string name;
       char dob[15];
       bool operator==(const student &student1)
       {
         if(rollno==student1.rollno)
           return 1;
           return 0;
       }
       bool operator<(const student &student1)</pre>
       {
         if(rollno<student1.rollno)</pre>
                return 1;
                return 0;
       }
```

```
};
vector<student> s1;
void print(student &k);
void display();
void insert();
void search();
void sort1();
void delet();
bool compare(const student &k, const student &i2)
      {
             return(k.rollno<i2.rollno);
      }
int main()
{
  int op;
  do
  {
      cout<<"\n\n\t\t-----";
      cout<<"\n\t\t1.Insert";
      cout<<"\n\t\t2.Display ";
      cout<<"\n\t\t3.Search ";
       cout << "\n\t 4.Sort";
      cout<<"\n\t\t5.Delete ";
      cout << "\n\t \6.Quit";
      cout<<"\n\t\t----";
      cout<<"\n\t\tEnter your choice : ";</pre>
      cin >> op;
```

```
switch(op)
       case 1:
                      insert();
                      break;
       case 2:
                      display();
                      break;
       case 3:
                      search();
                      break;
       case 4:
                      sort1();
                      cout<<"sorted on roll number";
                                display();
                      break;
       case 5:
                      delet();
                      cout<<"After deleting : ";</pre>
                      display();
                      break;
       }
  }while(op!=6);
return 0;
}
```

```
void insert()
         student k;
              cout<<"\nEnter Roll No: ";
         cin>>k.rollno;
         cout<<"\nEnter Name : ";</pre>
         cin>>k.name;
         cout<<"\nEnter DOB: ";
         cin>>k.dob;
        s1.push_back(k);
      }
void display()
      {
           for_each(s1.begin(),s1.end(),print);
       }
void print( student &i1)
{
  cout<<endl;
  cout<<"Student Name: "<< i1.name<<endl;
  cout<<"Student roll number: "<< i1.rollno<<endl;
  cout<<"Student DOB: "<< i1.dob<<endl;
}
void search()
{
    vector<student>::iterator p;
```

```
student k;
    cout<<"\nEnter Student Roll No To Search: ";
    cin>>k.rollno;
   p=find(s1.begin(),s1.end(),k);
   if(p!=s1.end())
         cout<<"Found!!";
    else
         cout<<"\nNot found ";
}
void delet()
      {
             student k;
             cout<<"\nEnter Student Roll No To Delete: ";
             cin>>k.rollno;
             vector<student>::iterator p;
             p=find(s1.begin(),s1.end(),k);
             if(p!=s1.end())
                    s1.erase(p);
             else
                    cout<<"\nNot found ";
      }
       void sort1()
              {
                     sort(s1.begin(),s1.end(),compare);
              };
```

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