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/*Write C++ program using STL for sorting and searching user defined records
such as personal records (Name, DOB, Telephone number etc) using vector container.*/
#include <iostream>
#include <algorithm>
using namespace std;
class person
  public:
  string name;
  string dob;
  long tel;
  void getdata()
    cout<<"ENTER NAME: "<<endl;
    cin>>name;
    cout<<"ENTER BIRTHDATE: "<<endl;</pre>
    cin>>dob:
    cout<<"ENTER PHONE NUMBER: "<<endl;
    cin>>tel;
  }
  void displaydata()
    cout<<"\nNAME :-"<<name<<endl;
    cout<<"DATE OF BIRTH:-"<<dob<<endl;
    cout<<"TELEPHONE :-"<<tel<<endl;
 }
};
bool compare(const person & a, const person & b)
  return a.name < b.name;
}
int main()
  int n,c;
  cout<<"ENTER TOTAL NUMBER OF RECORDS :-";
  cin>>n;
  string z[n];
  person p[n];
  for(int i=0;i<n;i++)
```

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{
    p[i].getdata();
  }
  cout<<"****SORTED RECORD******"<<endl;
  sort(p, p+n, compare);
  for(int i=0;i<n;i++)
    p[i].displaydata();
  }
  cout<<endl;
  string nm;
  cout<<"ENTER NAME TO BE SEARCH: ";
  cin>>nm;
  for(int i=0;i<n;i++)
  {
    z[i]=p[i].name;
  }
  if(binary_search(z, z+n, nm))
    cout<<"****RECORD FOUND****";
  }
  else cout<<"***RECORD NOT FOUND****";
}
```