

Q2 Design a class called student with roll no,name and marks as data members,set_data(),get_data() as member functions to read and print student details.Implement sort_data() as member function to sort data in ascending order according to user option(roll no,name,marks).

```
#include<bits/stdc++.h>

using namespace std;

class student{

public:

vector<string>rollno,name;

vector<int>marks;

void set(string a,string b,int c){

    rollno.push_back(a);

    name.push_back(b);

    marks.push_back(c);

}

void get(int n){

    if(n==1){

        sort(rollno.begin(),rollno.end());

        for(int i=0;i<rollno.size();i++)

            cout<<rollno[i]<<" ";

    }

    if(n==2){

        sort(name.begin(),name.end());

        for(int i=0;i<name.size();i++)

            cout<<name[i]<<" ";

    }

    if(n==3){
```



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        sort(marks.begin(),marks.end());

        for(int i=0;i<marks.size();i++)

            cout<<marks[i]<<" ";

    }

}

};

int main(){

    int n;

    cout<<"enter the number of student details you want: ";

    cin>>n;

    string a,b;

    int x;

    student A;

    for(int i=0;i<n;i++){

        cout<<"enter the rollno of student-"<<i+1<<": ";

        cin>>a;

        cout<<"enter the name of student-"<<i+1<<": ";

        cin>>b;

        cout<<"enter the marks of student-"<<i+1<<": ";

        cin>>x;

        A.set(a,b,x);

    }

    cout<<"enter the sorting criteria for rollno enter 1 for name enter 2 for marks enter 3";

    int t;

    cin>>t;

```



```
while(t<1 ||t>3){  
    cout<<"wrong input!!!";  
    cout<<"enter the sorting criteria for rollno enter 1 for name enter 2 for marks enter 3";  
    cin>>t;  
}  
A.get(t);  
return 0;  
}
```

