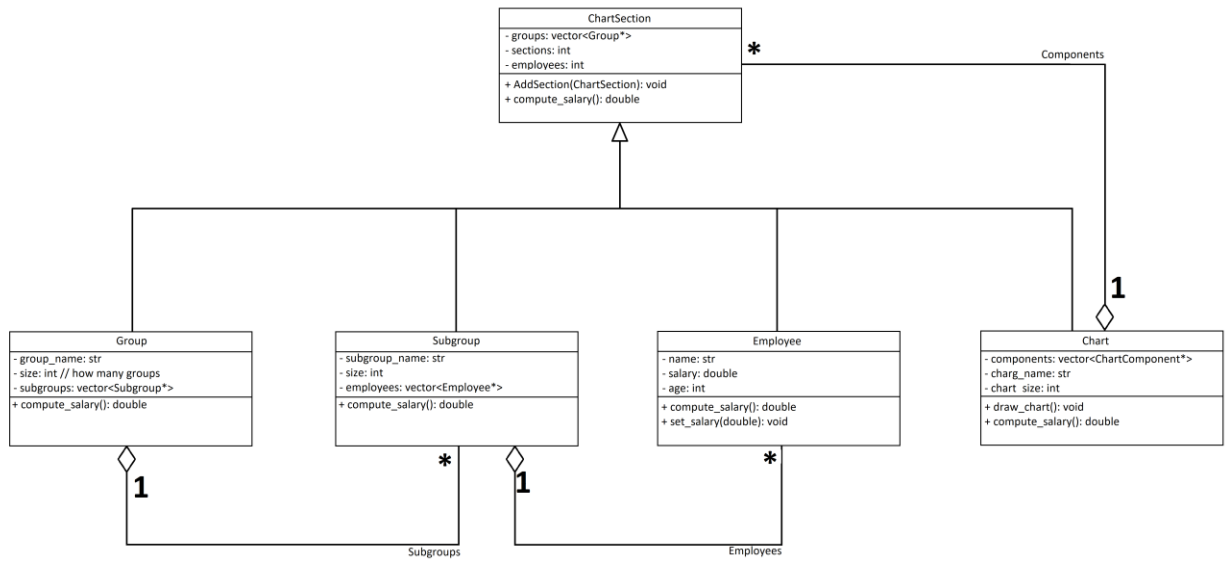


ICE #5

1)



2)

// chart.h

```

#ifndef CHART_H
#define CHART_H

#include <iostream>
#include <vector>

using namespace std;

class ChartSection {
private:
    vector<Group*> groups;
    int sections;
    int employees;

public:
    void AddSection(ChartSection);
    double compute_salary() const;
};

class Employee : public ChartSection {
private:
    string name;
    double salary;
    int age;

public:
    double compute_salary() const;
    void set_salary(double);
};

class Subgroup : public ChartSection {
private:
    string subground_name;
    int size;
    vector<Employee*> employees;

public:
    double compute_salary() const;
};

class Group : public ChartSection {
private:
    string group_name;
    int size;
    vector<Subgroup*> subgroups;

public:
    double compute_salary() const;
};

#endif /* CHART_H */

```

```

// implementation.cpp

#include "chart.h"

using namespace std;

double ChartSection::compute_salary() const {

    double total = 0.0;
    for (int i = 0; i < this->groups.size(); i++) {
        total += this->groups.at(i).compute_salary();
    }

    return total;
}

double Employee::compute_salary() const {

    return this->salary();
}

double Subgroup::compute_salary() const {

    double total = 0.0;
    for (int i = 0; i < this->employees.size(); i++) {
        total += this->employees.at(i).compute_salary();
    }

    return total;
}

double Group::compute_salary() const {

    double total = 0.0;
    for (int i = 0; i < this->subgroups.size(); i++) {
        total += this->subgroups.at(i).compute_salary();
    }

    return total;
}

```