

```
include <iostream>
```

```
#include <string>
```

```
using namespace std;
```

```
struct Student {
```

```
int rollNo;
```

```
string name;
```

```
float sgpa;
```

```
};
```

```
void insertionSort(Student students[], int n) {
```

```
for (int i = 1; i < n; ++i) {
```

```
Student key = students[i];
```

```
int j = i - 1;
```

```
while (j >= 0 && students[j].rollNo > key.rollNo) {
```

```
students[j + 1] = students[j];
```

```
j = j - 1;
```

```
}
```

```
students[j + 1] = key;
```

```
}
```

```
}
```

```
void displayStudents(Student students[], int n) {
```

```
cout << "\nRoll Call List:\n";
```

```
cout << "Roll No\tName\t\tSGPA\n";
```

```
cout << "\n";
```

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

```
cout << students[i].rollNo << "\t" << students[i].name << "\t\t" << students[i].sgpa << "\n";
```

```
}
```

```
}
```

```
int main() {
```

```
int n;
```

```
int i;
```

```
cout << "Enter the number of students: ";
```

```
cin >> n;
```

```
Student students[n];
```

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

```
    cout << "\nEnter details for student : \n";
```

```
    cout << "Roll No: ";
```

```
    cin >> students[i].rollNo;
```

```
    cin.ignore();
```

```
    cout << "Name: ";
```

```
    getline(cin, students[i].name);
```

```
    cout << "SGPA: ";
```

```
    cin >> students[i].sgpa;
```

```
}
```

```
insertionSort(students, n);
```

```
displayStudents(students, n);
```

```
return 0;
```

```
}
```