C++ Programming

#6   class 정의

2017년 1학기

실습 문제

```
Student Count: 3
        Name: Kim GPA: 3.5
        Name: Park GPA: 2.7
        Name: Lee GPA: 4
Student Count: 3
        Name: Lee GPA: 4
        Name: Kim GPA: 3.5
        Name: Park GPA: 2.7
Student Count: 4
        Name: Yoon GPA: 3.3
        Name: Kim GPA: 3.5
        Name: Park GPA: 2.7
        Name: Hong GPA: 4.3
Student Count: 4
        Name: Hong GPA: 4.3
        Name: Kim GPA: 3.5
        Name: Yoon GPA: 3.3
        Name: Park GPA: 2.7
The Top Student: Name Hong GPA: 4.3
```

```cpp
int main() {
    vector<Student> students ;

    Student s1("Kim", 3.5F) ;
    students.push_back(s1) ;

    Student s2("Park", 2.7F) ;
    students.push_back(s2) ;

    Student s3("Lee", 4.0F) ;
    students.push_back(s3) ;

    print(students) ;

    sort(students) ; // descending
    print(students) ;

    Student& topStudent = students[0] ;
    topStudent.setGPA(3.3F) ;
    topStudent.setName("Yoon") ;

    Student s4("Hong", 4.3F) ;
    students.push_back(s4) ;

    print(students) ;
    sort(students) ;
    print(students) ;

    cout << "The Top Student: Name " << students[0].getName()
        << " GPA: " << students[0].getGPA() << endl ;
}
```

제약 조건

❖ Define class Student!

```
class Student {
private:
    string name ;
    float gpa ;

public:
    ...
} ;
```