C++ Programming

#7 class 정의
Member initialization list
Constructor overloading

2017년 1학기

실습 문제

School Name: PNU, Count: 4

 Name: Kim GPA: 3.5 Major: Electrical Eng.

 Name: Hong GPA: 4.3 Major: Computer Eng.

 Name: Lee GPA: 4 Major: Computer Eng.

 Name: Joo GPA: 1.5 Major: Mechanical Eng.

School Name: PNU, Count: 4

 Name: Hong GPA: 4.3 Major: Computer Eng.

 Name: Lee GPA: 4 Major: Computer Eng.

 Name: Kim GPA: 3.5 Major: Electrical Eng.

 Name: Joo GPA: 1.5 Major: Mechanical Eng.

```
int main() {
    School pnu("PNU") ;

    Student* kim = pnu.addStudent("Kim", EE) ;
    kim->setGPA(3.5F) ;

    Student* hong = pnu.addStudent("Hong", CE) ;
    hong->setGPA(4.3F) ;

    Student* lee = pnu.addStudent("Lee", 4.0F) ;
    lee->setMajor(CE) ;

    Student* joo = pnu.addStudent("Joo", 1.5F) ;
    joo->setMajor(ME) ;

    pnu.print() ;

    pnu.sort() ; // descending
    pnu.print() ;
}
```

```
School Name: PNU, Count: 4
    Name: Kim GPA: 3.5 Major: Electrical Eng.
    Name: Hong GPA: 4.3 Major: Computer Eng.
    Name: Lee GPA: 4 Major: Computer Eng.
    Name: Joo GPA: 1.5 Major: Mechanical Eng.

School Name: PNU, Count: 4
    Name: Hong GPA: 4.3 Major: Computer Eng.
    Name: Lee GPA: 4 Major: Computer Eng.
    Name: Kim GPA: 3.5 Major: Electrical Eng.
    Name: Joo GPA: 1.5 Major: Mechanical Eng.
```

제약 조건

```
enum MajorType { CE, EE, ME, UD};
class Major {
private:
    MajorType majorType ;
public:
```

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

public:
    ...
} ;
```

```
class School {
private:
    string schoolName ;
    vector<Student> students ;

public:
    ...
} ;
```

제출 방법

❖ 제출 위치: PLMS "실습7: class 2"

❖ 첨부 파일 이름: 실습7_이름_학번.cpp