

Key

Name _____

Score _____/20

```
class student {
public:
    student( string );    // constructor
    list<double> getGrades();
    string getName();
    void addGrade( double );
private:
    list<double> grades;
    string name;
};

vector<student> bio102;
```

1. Write the addGrade member function.

```
void student::addGrade( double g) {
    grades.push_back( g);
}
```

2. Write a segment of code which will compute and print each student's name and highest gpa. Assume data has been 'read into' bio102.

```
for (int i = 0; i < bio102.size(); i++ ) {

    list<double> gList = bio102[i].getGrades();    // get copy of grades
    list<double>::iterator lit;

    double high =-1.0;

    for (lit = gList.begin(); lit != gList.end(); lit++)
        if ( *lit > high ) high = *lit;

    cout << " Name: " << bio102[i].getName() << high << endl;
}
```