

Create a class named `Student` that has three member variables:

<code>name</code>	– A string that stores the name of the student
<code>numClasses</code>	– An integer that tracks how many courses the student is currently enrolled in
<code>grades</code>	– A dynamic array of integers used to store the grades of the classes that the student is enrolled in

Write appropriate constructor(s) for the class along with the following:

- A method named **reset** that resets the number of classes to 0 and the classList to an empty list.
- A method named **average** that calculates the grade average of the student.
- An **overloaded iostream >> operator** that inputs all values from the user. This method will have to support input for an arbitrary number of classes.
- An **overloaded iostream << operator** that outputs the name and list of all courses.
- **Overloaded <, >, <=, >, ==, != operators** that compares the averages of the students.
- An **overloaded assignment operator** that correctly makes a new copy of the list of courses.
- An **overloaded copy operator** that correctly makes a new copy of the list of courses.
- A **destructor** that releases all memory that has been allocated.