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| --- | --- |
| Class | Rectangle2D |
| Data Field Members | * double x * double y * double width * double height * double area * double perimeter |
| Behaviors | * Rectangle2D() * Rectangle2D(double setx, double sety, double setwidth, double setheight) * double setnewx(double pointx) * double setnewy(double pointy) * double getnewx() * double getnewy() * double setnewwidth(double newwidth) * double setnewheight(double newheight) * double getnewwidth() * double getnewheight() * const int getArea() * const int getPerimeter() * const bool contains(double pointx, double pointy) * const bool contains(const Rectangle2D &r) * const bool true(const Rectangle2D &r) |

|  |  |
| --- | --- |
| Class | Course |
| Data Field Members | * string courseName * string student * int numberOfStudents * int capacity |
| Behaviors | * Course() * Course(string setCourseName, string setStudent, int setNumberOfStudents, int setCapacity) * int\* addStudent(const int\* numberOfStudents, int size) * void dropStudent(const int\* numberOfStudents) * void Clear() * string getCourseName() * string getStudent() * const int getNumberOfStudents() |