

Triangle2D
- p1 : MyPoint - p2 : MyPoint - p3 : MyPoint
Triangle2D() Triangle2D(newP1 : MyPoint, newP2 : MyPoint, newP3 : MyPoint) + getP1() : MyPoint + setP1(newX : double, newY : double) : void + getP2() : MyPoint + setP2(newX : double, newY : double) : void + getP3() : MyPoint + setP3(newX : double, newY : double) : void + getArea() : double + getPerimeter : double + contains(newP : MyPoint) : boolean + contains(newTriangle : Triangle2D) : boolean + overlaps(newTriangle : Triangle2D) : boolean

Point 1 of the triangle default (0,0)  
 Point 2 of triangle default (1, 1)  
 Point 3 of triangle default (2, 5)  
 No-arg constructor using defaults  
 Construct new triangle with new points  
  
 Get point 1 of triangle  
 Set new x and y values for point 1  
  
 Get point 2 of triangle  
 Set new x and y values for point 2  
  
 Get point 3 of triangle  
 Set new x and y values for point 3  
  
 Compute area of triangle  
 Compute perimeter of triangle  
  
 Method returns true if point newP is within triangle  
 Method returns true if newTriangle is within triangle  
  
 Method returns true if newTriangle overlaps triangle

Line
-p1x : double -p1y : double -p2x : double -p3x : double -A : double -B : double -C : double
+Line(p1x : double, p1y : double, p2x : double, p2y : double) +getA() : double +getB() : double +getC() : double +get1X() : double +get1Y() : double +get2X() : double +get2Y() : double +calculateArea(p1 : MyPoint, p2 : MyPoint, p3 : MyPoint) : double +calculateContains(p : MyPoint) : double