gki2CounterClock.java

```java
package gobalkrishnan_v_18_06_1995.basic;

import gobalkrishnan_v_18_06_1995.dimension2.gki2Point;

public class gki2CounterClock {

    public static List<gki2Point> sortVerticies(List<gki2Point> points) {
        // get centroid
        gki2Point center = findCentroid(points);
        Collections.sort(points, (a, b) -> {
            double a1 = (Math.toDegrees(Math.atan2(a.x - center.x, a.y - center.y)) + 360) % 360;
            double a2 = (Math.toDegrees(Math.atan2(b.x - center.x, b.y - center.y)) + 360) % 360;
            return (int) (a1 - a2);
        });
        return points;
    }
    public static gki2Point findCentroid(List<gki2Point> points) {
        int x = 0;
        int y = 0;
        for (gki2Point p : points) {
            x += p.x;
            y += p.y;
        }
        gki2Point center = new gki2Point();
        center.x = x / points.size();
        center.y = y / points.size();
```

```
        return center;
    }



}
```