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Package TieFighter
Class Main
{
    Method Main - Void - String[] args
    {
        in = new Scanner(pilot_routes.txt) //Reader
        String [20] names //Arrays
        double[20][16][2] coords

        for(i = 0; i < coords.length; i++)
        {
            --//Extra stop if no more lines
            --//Convert to Strings and then doubles
            String line = in.nextLine()
            String[] lineparts = line.split()
            names[i] = lineparts[0]

            //Iterate through coordinates
            for(j = 1; j < lineparts.length; j++)
            {
                //Split each part by comma
                String[] xy = lineparts[j].split()
                //Assign values to x or y coordinates
                coords[i][j-1][0] = Double(xy[0])
                coords[i][j-1][1] = Double(xy[1])
            }
        }
        //Math Function
        double[] summations = new double[names.length];
        for(i = 0; i < names.length; i++)
            summations[i] = calculate(coords[i])
        //Output to text file
        output(names, summations)
    }
    Method output - Void - String[] names, double[] summations
    {
        out = new FileWriter(pilot_areas.txt)
        for(i = 0; i < names.length; i++) //Iterate for each line of
output
            out.write(names[i] + " " + areas[i])
        }
    Method calculate - Double - Double[][] coords
    {
        double number = 0
        for(i = 0; i < coords.length; i++) //Go through summation using
for loop
            number += (x_i+1 + x_i)(y_i+1 - y_i)
        return 1/2 * |number|
    }
}

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