

Method Details

lsfit

```
public static double[] lsfit(List<ca.queensu.cs.cisc124.notes.basics.geometry.Vector2> p)
```

Finds the line of best fit to a sequence of points using ordinary least squares. The returned array consists of the y-intercept followed by the slope of the best fit line. If a is the returned array, then the equation of the line is given by:

$$y = a[0] + a[1] * x;$$

Parameters:

p - a list of points to fit a line to

Returns:

an array containing the y-intercept and slope of the best fit line

Throws:

`IllegalArgumentException` - if p has fewer than two points

`ArithmeticException` - if the line of best fit is exactly vertical

plot

```
public static void plot(List<ca.queensu.cs.cisc124.notes.basics.geometry.Vector2> p,  
                        double[] line)
```

Plots the specified sequence of points and line.

Parameters:

p - a list of points to plot

line - the y-intercept and slope of the line to plot

main