Write a program that, given two integers, two doubles as `x` and `y` coordinates of two points `p1(x1,y1)` and `p2(x2,y2)` on a two-dimensional plane as input, finds the mid-point `p3(x3,y3)` of the line segment formed by `p1` and `p2` using the formula:

$$x3 = \frac{x1 + x2}{2} \text{ and } y3 = \frac{y1 + y2}{2}$$

Generic class `Point` has the following members.

- Instance variables `x` and `y`
- A constructor to initialize `x` and `y`
- A method `mid(Point p)` to return the mid-point of the line segment joining the current point to `p`
- A method that overrides the method `toString()` in the Object class to format the output

Class `Test` has the main method.

- The main method accepts the two input points. The first line of input will be two integers of point `p1`. The second line of input will be two doubles of point `p2`. It then invokes the method `mid` of one of the objects.

Sample Test Cases

Test Case 1

Input	Expected Output	Actual Output
2 3 2.2 4.2	(2.1,3.6)	

Test Case 2

Input	Expected Output	Actual Output
7 8 5 6	(6.0,7.0)	