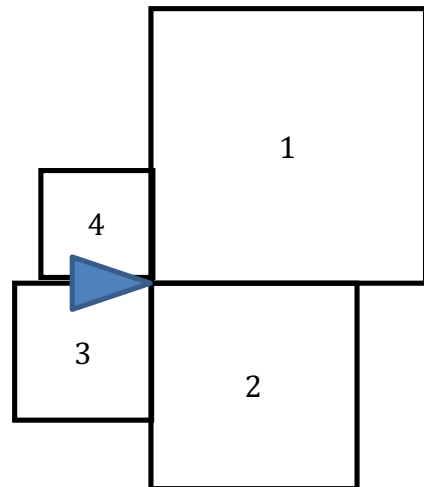Name _____

CPADS Lab #5

1. Develop a **strategy** with pseudocode that creates a pinwheel by obtaining user input for variables **size1, size2**, **size3**, **size4** and computing movement to the centers of each square **USING** the following functions:

   - For squares 1 and 2 – using right angles to move to the center and back to the origin
   - For squares 3 and 4 – using diagonals to move directly from center to center, i.e. from the center of 2 to the center of 3, and from the center of 3 to the center of 4

   Hint: ***Your strategy should have three parts – one for each function and one for the main program. Consider what information the functions will need. Be sure to leave the cursor in the same orientation in which it began.***

Name _____

2. **Download the file pinwheelFunctions.py from the course webpage**

https://ycpcs.github.io/cs100-fall2017/labs/src/pinwheelFunctions.py

 and open it with PyCharm. USING YOUR STRATEGY FROM PART 1, complete
the program by adding code:
   - To obtain user input for variables **size2**, **size3**, **size4**
   - Complete the **moveToCenterRightAngle** function by adding necessary
     parameters and function code
   - Complete the **moveToCenterDiagonal** function by adding necessary
     parameters and function code
   - Complete **main** to *call* the functions with appropriate *arguments* such
     that **main** contains **no** movement commands (but may use orientation
     commands)