HW 2

Due: Wednesday 4/13 at 11:59pm

Complete the following problems. Submit the first by putting your webpage into your student account or emailing me a link. Submit the second on paper (submitted in class or slipped under my door) or via email.

1. (10 points) Write a JES function `drawPile` to draw the following picture:

   You may pick any size for the blocks that you want, but the entire pile should fit into the default world (which is 640 × 480) and each block should be twice as wide as it is tall. The image must be drawn centered in the world. The function should take a turtle as its only argument and draw the same image no matter where that turtle is currently located or which way it is facing.

   Note that you can make this drawing by specifying each separate line, but it is far simpler to build up some helper functions.

2. (4 points) In class, I claimed that JES gives the wrong answer for 3.14 * 20 because of the limited precision available to represent floating point numbers. Find another expression (not involving 3.14) for which it similarly gives the wrong answer. List both the answer that JES gives and the correct answer.