APCS :: Lab 9

Relay Racer

Write a program in which a robot starts out at the origin (1,1) facing East with a beeper. The robot moves East until it runs into another robot. The first robot hands the beeper to the second robot, who then moves North until it runs into a third robot. The second robot hands the beeper to the third robot, who moves West until it runs into a fourth robot. The third robot hands the beeper to the fourth robot, who moves South until it reaches the origin, where it puts the beeper down.

Notes:

- You might need a class, call it RelayBot, that extends SuperBot. What additional methods will RelayBot need? Are these useful enough that SuperBot should have these methods?
- Your main method will have to create all four robots and put them at the right corners.
  Test 1: the four robots should be at (1,1) (1,8) (6,8) and (6,1)
  Test 2: the four robots should be at (1,1) (1,12) (2,12) and (2,1)
- Does your program still work if all 4 robots are at the origin? Try it!