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Robot Simulator in Scala

Readme (readme)

Test Suite (../robot-simulator)

Robot Simulator

Write a robot simulator.

A robot factory's test facility needs a program to verify robot movements.

The robots have three possible movements:

- turn right
- · turn left
- advance

Robots are placed on a hypothetical infinite grid, facing a particular direction (north, east, south, or west) at a set of $\{x,y\}$ coordinates, e.g., $\{3,8\}$, with coordinates increasing to the north and east.

The robot then receives a number of instructions, at which point the testing facility verifies the robot's new position, and in which direction it is pointing.

- The letter-string "RAALAL" means:
 - Turn right
 - Advance twice
 - Turn left
 - Advance once
 - · Turn left yet again
- Say a robot starts at {7, 3} facing north. Then running this stream of instructions should leave it at {9, 4} facing west.

The Scala exercises assume an SBT project scheme. The exercise solution source should be placed within the exercise directory/src/main/scala. The exercise unit tests can be found within the exercise directory/src/test/scala.

To run the tests simply run the command sbt test in the exercise directory.

For more detailed info about the Scala track see the help page (http://help.exercism.io/getting-started-with-scala.html).

Source

Inspired by an interview question at a famous company. view source

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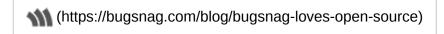


Beta

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