

# 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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