### **Bare Code Test / Interview Process**

## Instruction:

- write code to solve the problem below as this was production code, putting as much effort and care as you would for production code, no less, no more.
- We need instruction on how to run what you provide, but do not expect a docker image or anything related to infrastructure. For example:
  - o require Ruby 3.0 or later
  - o install dependencies with XXXX
  - o run with "ruby my code.rb"

#### **Problem:**

The application is a simulation of a robot moving on a 6x6 square grid.

- There are no obstructions on the grid.
- The robot needs to be prevented from exceeding the limits of the grid, but is allowed to move freely on the grid otherwise.

Create a command-line application that reads in the following commands:

- PLACE X, Y, O
- MOVE
- LEFT
- RIGHT
- REPORT

The PLACE X, Y, O will place the robot at position X, Y on the grid, with orientation O. Orientations are N, E, S, W (for North, East, South and West). Position (0,0) on the grid is the south west corner. First coordinate is along the East/West axis, the second coordinate is along the North/South axis.

MOVE will move the robot one step forward, in whichever direction it is currently facing

LEFT and RIGHT respectfully turn the robot 90° angle to the left or to the right.

REPORT announces the position and orientation of the robot (X, Y, O) in any format (such as standard out)

# **Constraints**

- Commands are to be ignored until a valid PLACE command is issued
- Any commands that would put the robot out of the defined grid is to be ignored, all other commands (including another PLACE) are to be obeyed

# **Example**

PLACE 0,0,E MOVE REPORT Output: 1,0,E

PLACE 0,0,N MOVE MOVE RIGHT MOVE REPORT Output: 1,2,E