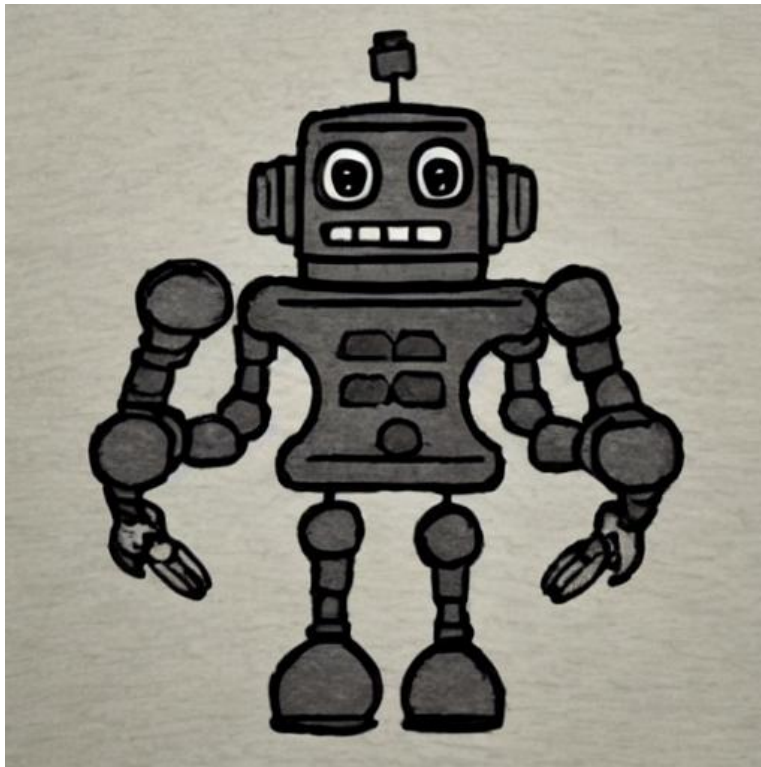


## Robot Control

We need a control system for the robots that inhabit our 100 by 100 grid world. The coordinates of our world are 0 based and the world wraps so grid coordinates 0 and 99 are adjacent. The origin is bottom left.



## Initial Location

Each robot starts with a simple compass heading N, S, E, W and a grid coordinate, X, Y.

## The Commands

The robot is controlled with a set of simple commands.

M - Move Forward

L - Rotate 90° Left

R - Rotate 90° Right

Each command may be followed by a number from 1-100. Which indicates the number of times to perform the action. Absence of a number is equivalent to 1

## The Input

A single file is used for input. The first line of the file is the initial position, the second is the sequence of commands. Additional lines are ignored.

## The Output

The control system should print the final position of the robot to std out.

## Example

N 0 0

M1RM4L3M2