The application is a simulation of a Rover Robot moving on a square zone to be explored, of dimensions 10 units x 10 units. Coordinates start at 0,0 (bottom left corner).
- The input is an input stream of unknown length that will contain a series of lines terminated in \n.
- The following commands may be sent:

```
DEPLOY X,Y,F : Deploys the robot to position X,Y if it is a valid position
PIT X,Y      : Adds a pit
MOVE         : Moves the robot by 1 position in the current orientation direction
LEFT         : Robot will stay in the same coordinate, but face the direction to the left of the current one (i.e.: SOUTH -> EAST)
RIGHT        : Robot will stay in the same coordinate, but face the direction to the right of the current one (i.e.: SOUTH -> WEST)
REPORT       : Issue a line to the report in the format "X,Y,DIRECTION" (without quotes and all caps)
```

- The robot can not be deployed to a position with a pit or off the limits of the zone.
- PIT commands are optional and can only follow a DEPLOY command and precede MOVE, LEFT, RIGHT.
- REPORT commands can happen at any time.
- The first command to be considered is DEPLOY. Commands before this can be safely ignored.
- Failure to parse one line should be logged to System.err but continue
- Multiple DEPLOYs can be called, so:
-- PITs can follow any DEPLOY command, not necessarily the first one.
-- The robot can't be deployed on a PIT.
-- A new DEPLOY command redeploys the "same" robot (there is only one on the board).
-- Multiple PIT commands can be issued, as long as they only follow a DEPLOY or another PIT command.
- The robot can't move into PIT or off the zone.
- The following error messages can be reported back (in this exact format):
-- "Outside Zone: Ignored"   -> When trying to deploy/move out of the zone
-- "PIT Detected: Ignored"   -> When trying to deploy/move onto a pit.
-- "ROBOT Detected: Ignored" -> When trying to add a pit to the current position of the robot.

<p>
Create an application that can read in commands of the following form:
<p>

```
DEPLOY X,Y,F
PIT X,Y
PIT X,Y
PIT X,Y
MOVE
LEFT
RIGHT
REPORT
```

We expect back:
- A zip file containing your local repository (create a local git repository for your work). We will evaluate your git history.
- Remove any files that you wouldn't commit (like `target/build`).

We will evaluate:
- How many of the testing scenarios are covered.
- Design, exception handling and proper use of Java APIs.