

Robot rover / turtle problem

Description

Create a command line that prompts for commands and moves a rover around a 2D plane.

The robot should point in a direction, turn to face different directions, and move in the direction it is facing.

Demo

```
Hello! Robot coming online.
```

```
Command the robot with:
```

```
L - turn left
```

```
R - turn right
```

```
M - move forward
```

```
? - print this message
```

```
Q - quit
```

```
> M
```

```
Robot at (0, 1) facing North
```

```
> L
```

```
Robot at (0, 1) facing West
```

```
> M
```

```
Robot at (-1, 1) facing West
```

```
> M
```

Robot at (-2, 1) facing West

> R

Robot at (-2, 1) facing North

> R

Robot at (-2, 1) facing East

> M

Robot at (-1, 1) facing East

> ?

Command the robot with:

L - turn left

R - turn right

M - move forward

? - print this message

Q - quit

> Q

Robot shutting down.

Requirements

- State your assumptions. Anywhere you feel that the requirements are unclear please make an assumption and document that assumption.
- Your code quality is important.
- You are not allowed to use any external libraries.
- The performance of your code matters, so please try to keep your code as optimized as possible.
- The code should be covered with test cases.