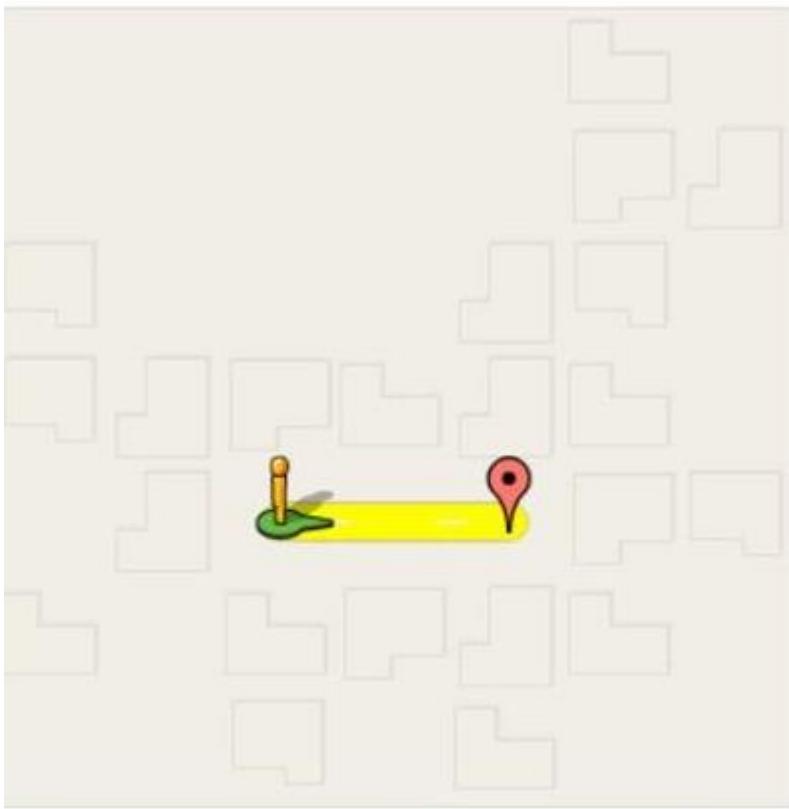


Blockly Maze Levels 1 to 6

Level 1

The path is straight. The person icon is facing right at the beginning of the path. The path is two blocks away from the destination. The path is in the middle of the maze.



The commands available to choose are as follows:

Level 1 Commands	Effect
Move forward	The icon moves forward one block
Turn left	The icon turns left
Turn right	The icon turns right

Level 1 Rules

You may repeat any of the commands and select them in any order.

Please write your Level 1 solution here:

Your Level 1 Solution Commands

Here is the [Level 1 solution](#)

Level 2

The path is three blocks long and zig zags upwards one block at a time from the bottom left to the top right. Each step is one block long. The path is in the middle of the maze. The person icon is facing right at the beginning of the path and the destination is at the end of the path. The path is straight for one block, turns left then straight for one block, turns right then straight ahead for one block until the destination.



The commands available to choose are as follows:

Level 2 Commands	Effect
Move forward	The icon moves forward one block
Turn left	The icon turns left
Turn right	The icon turns right

Level 2 Rules

You may repeat any of the commands and select them in any order.

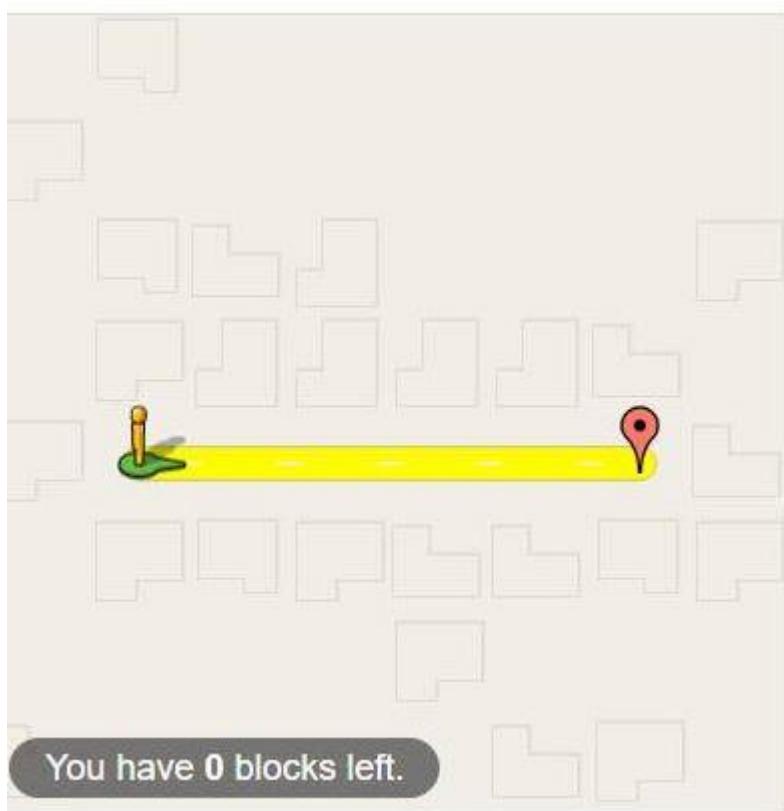
Please write your Level 2 solution here:

Your Level 2 Solution Commands

Here is the [Level 2 solution](#)

Level 3

The path is straight and the person icon is five blocks away from the destination. The person icon is facing right at the beginning of the path and the destination is at the end of the path. The path is in the middle of the maze.



The commands available to choose are as follows:

Level 3 Commands	Output
Move forward	The icon moves forward one block
Turn left	The icon turns left
Turn right	The icon turns right
'Repeat until' loop which repeats everything inside it until a certain condition (arriving at the red pin destination) is met.	The icon continues to move one block at a time as commanded until it reaches the destination

Level 3 Rules

You are limited to using only two blocks.

Please write your Level 3 solution here:

Your Level 3 Solution Commands

Here is the [Level 3 solution](#)

Level 4

The path is 14 blocks long and zig zags upwards one block at a time from the bottom left to the top right. The person icon is facing right and is positioned two blocks along the path. Each step is one block long.



The commands available to choose are as follows:

Input	Output
Move forward	The icon moves forward one block
Turn left	The icon turns left
Turn right	The icon turns right
'Repeat until' loop which repeats everything inside it until a certain condition (arriving at the red pin destination) is met.	The icon continues to move one block at a time as commanded until it reaches the destination.

Level 4 Rules

You are limited to using only five blocks.

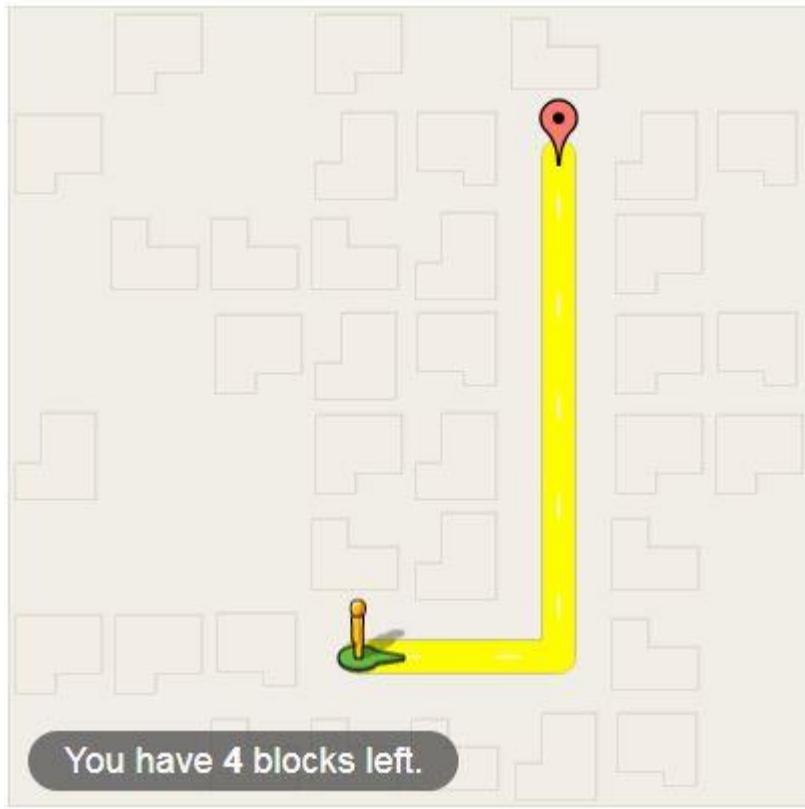
Please write your Level 4 solution here:

Your Level 4 Solution Commands

Here is the [Level 4 solution](#)

Level 5

The path is eight blocks long and is a backwards L shape. The person icon is at the beginning of the path facing right. The path begins at the bottom and middle of the maze. It is straight for two blocks then bends at 90 degrees to go straight up the maze for six blocks.



The commands available to choose are as follows:

Input	Output
Move forward	The icon moves forward one block
Turn left	The icon turns left
Turn right	The icon turns right
'Repeat until' loop which repeats everything inside it until a certain condition (arriving at the red pin destination) is met.	The icon continues to move one block at a time as commanded until it reaches the destination.

Level 5 Rules

You are limited to using only five blocks.

Please write your Level 5 solution here:

Your Level 5 Solution Commands

Here is the [Level 5 solution](#)

Level 6

The path spirals from the bottom left of the maze to the middle. The person icon is facing right at the beginning of the path. The path is straight for four blocks then bends at 90 degrees to go straight up the maze for four blocks. Then it bends at 90 degrees and goes straight across the maze to the left for four blocks then bends at 90 degrees to straight down the maze for two blocks then bends at 90 degrees to go straight from left to right for two blocks.



Level 6 Rules

You are limited to using only five blocks.

The commands available to choose are as follows:

Input	Output
Move forward	The icon moves forward one block
Turn left	The icon turns left
Turn right	The icon turns right

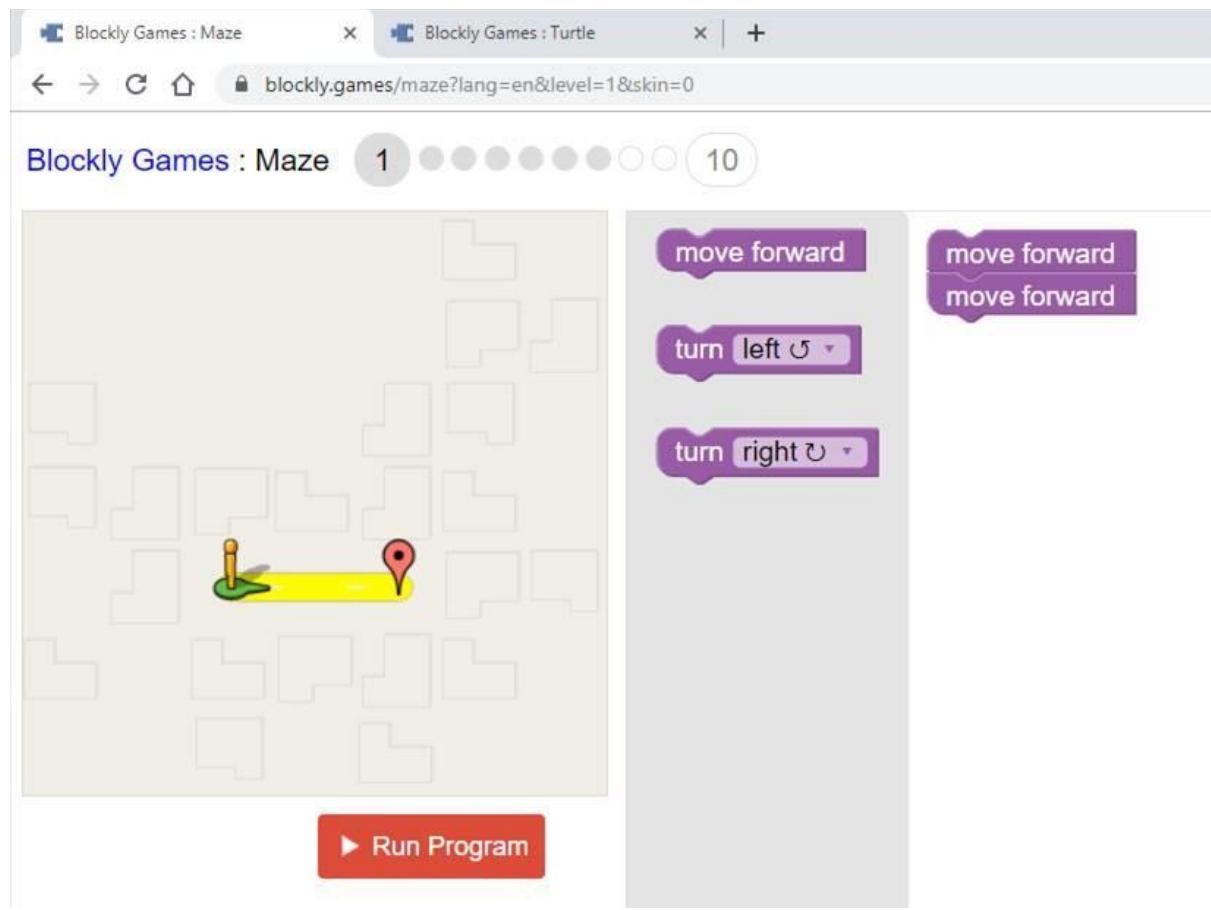
<p>'Repeat until' loop which repeats everything inside it until a certain condition (arriving at the red pin destination) is met.</p>	<p>The icon continues to move one block at a time as commanded until it reaches the destination.</p>
<p>'If-else' statement which is a control structure. If path is [choose from the following commands]:</p> <ul style="list-style-type: none"> • To the left • Ahead • To the right <p>do [choose command] from the following options:</p> <ul style="list-style-type: none"> • Move forward • Turn left • Turn right 	<p>The icon moves only if the condition is true. You may need to change the 'condition' shown in the command to solve the problem.</p>

Please write your Level 6 solution here:

<p>Your Level 6 Solution Commands</p>

Here is the [Level 6 solution](#)

Level 1 Solution



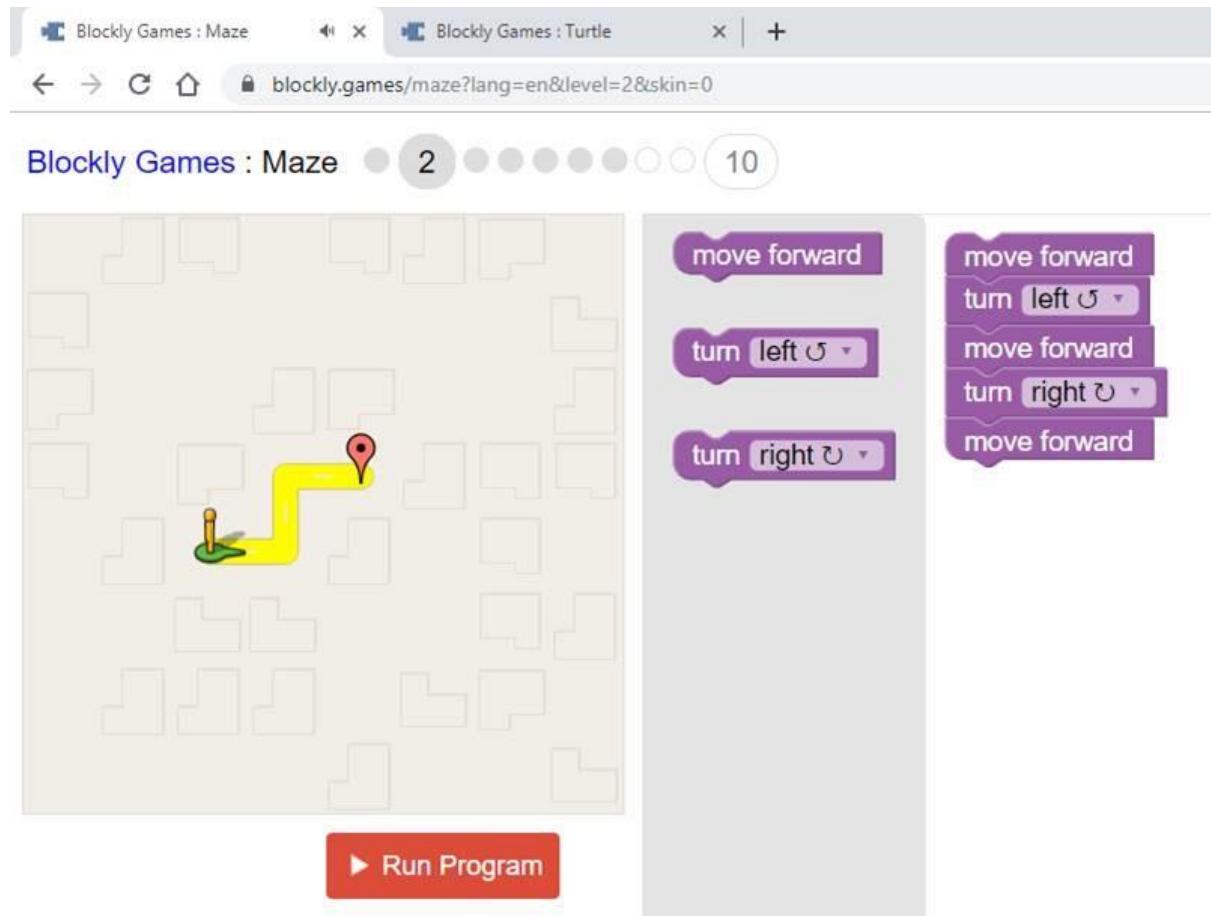
Level 1 Solution Commands

Move forward

Move forward

[Back to Level 2 exercise](#)

Level 2 Solution



Level 2 Solution Commands

Move forward

Turn left

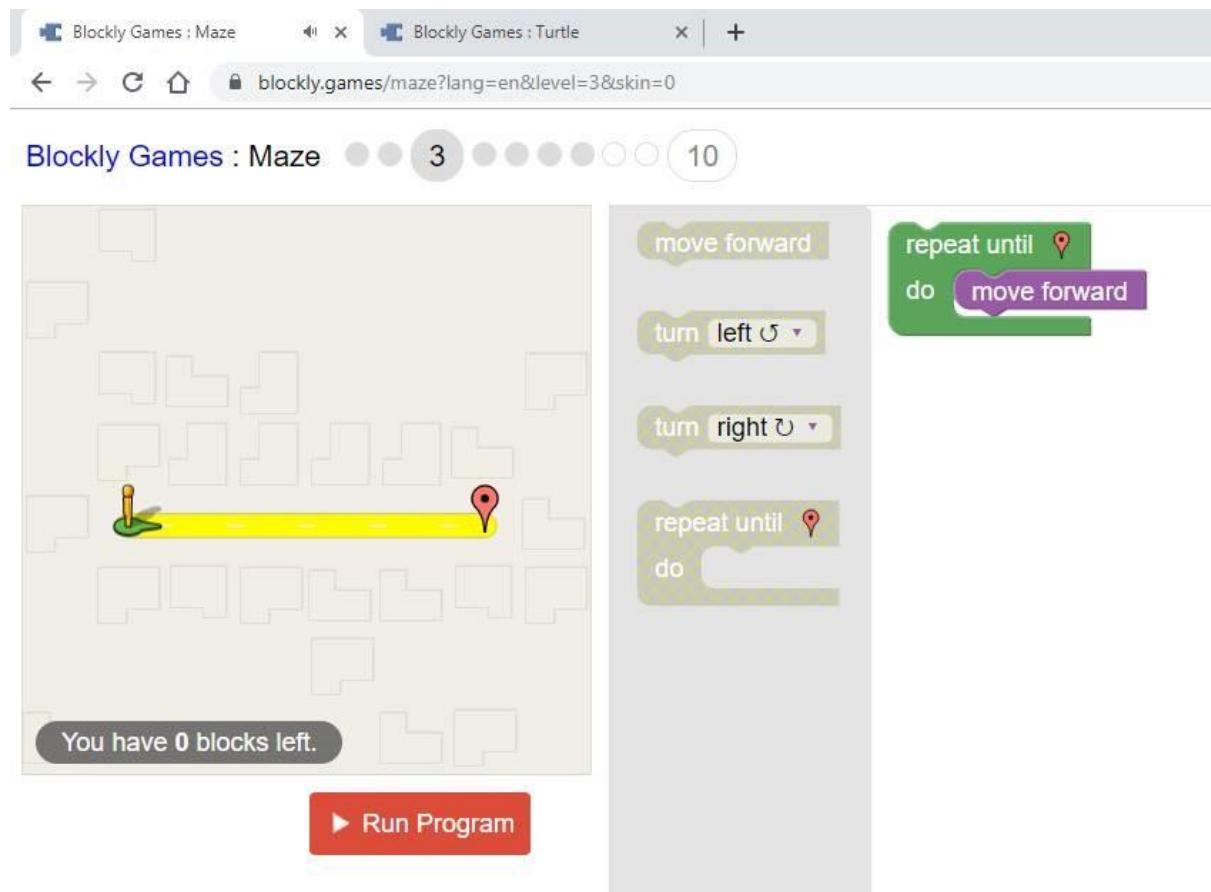
Move forward

Turn right

Move forward

[Back to Level 3 exercise](#)

Level 3 Solution



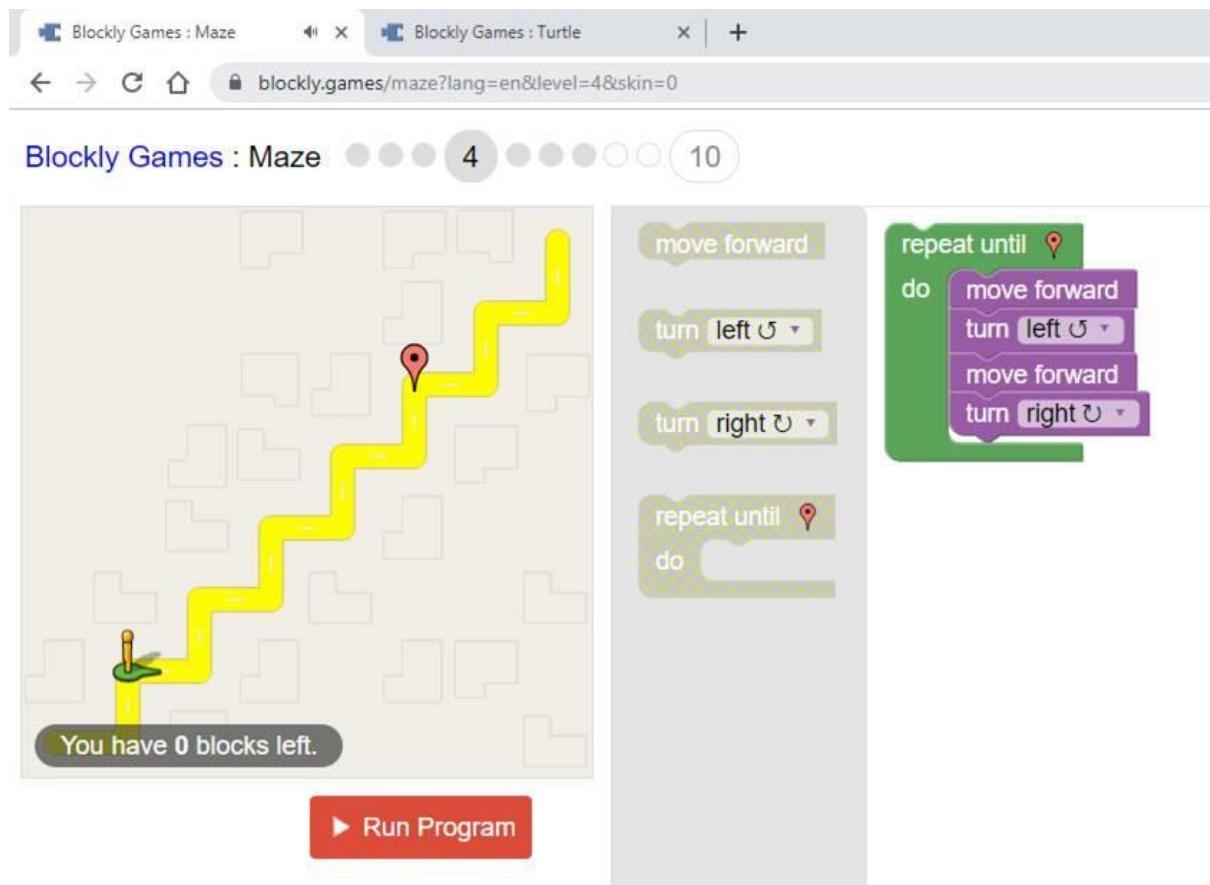
Level 3 Solution Commands

'Repeat until' loop which repeats everything inside it until a certain condition (arriving at the red pin destination) is met.

Move forward inside the 'repeat until' loop

[Back to Level 4 exercise](#)

Level 4 Solution



Level 4 Solution Commands

'Repeat until' loop which repeats everything inside it until a certain condition (arriving at the red pin destination) is met. Commands inside the 'repeat until' loop are:

Move forward

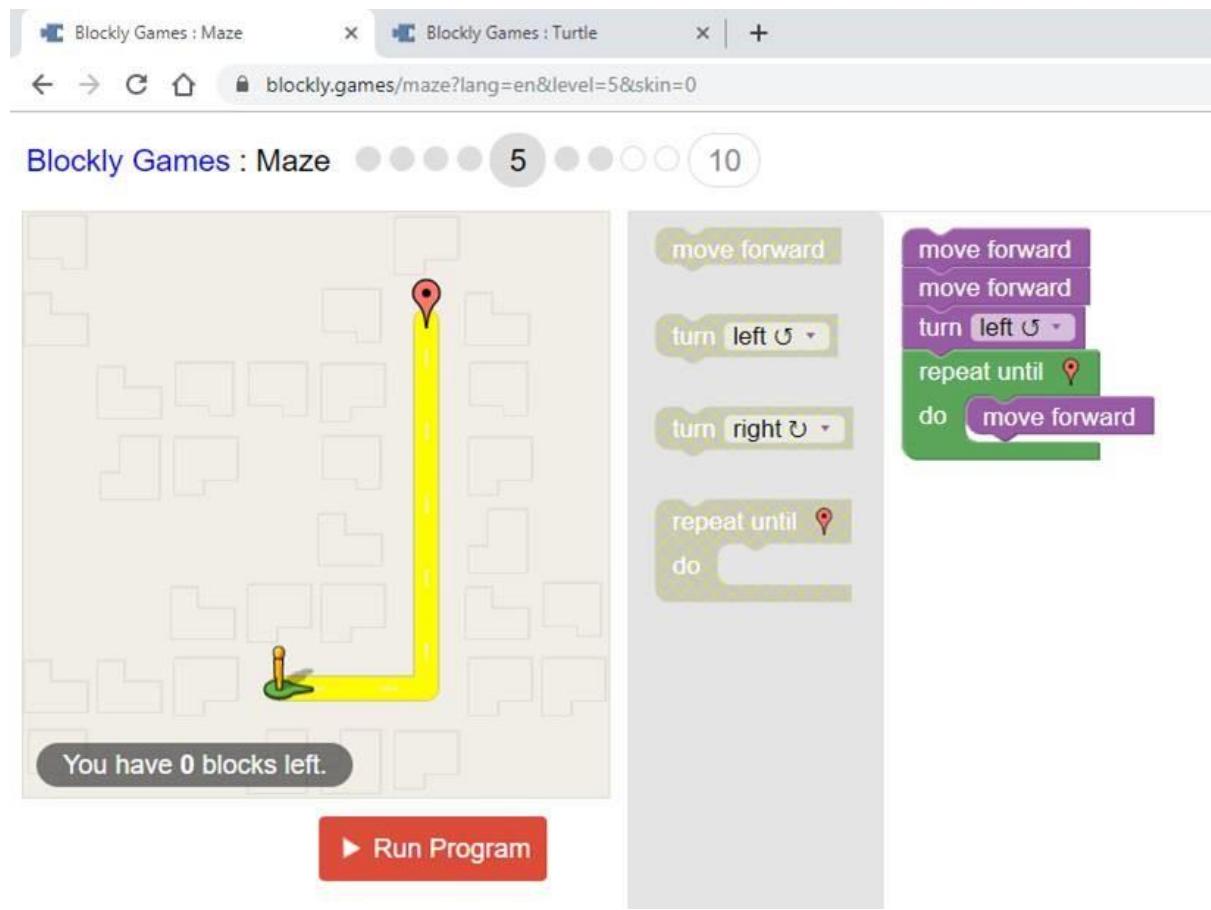
Turn left

Move forward

Turn right

[Back to Level 5 exercise.](#)

Level 5 Solution



Blockly Games : Maze 5 10

move forward
move forward
turn left 5°
turn right 5°
repeat until (red pin)
do (move forward)

repeat until (red pin)
do (move forward)

You have 0 blocks left.

▶ Run Program

Level 5 Solution Commands

Move forward

Move forward

Turn left

'Repeat until' loop which repeats everything inside it until a certain condition (arriving at the red pin destination) is met. Commands inside the 'repeat until' loop are:

Move forward

[Back to Level 6 exercise](#)

Level 6 Solution

Blockly Games : Maze 6 10

You have 1 block left.

Run Program

```
repeat until [ ]
  move forward
  if path to the left [ ]
    turn left
  end
end
```

Level 6 Solution Commands

'Repeat until' loop which repeats everything inside it until a certain condition (arriving at the red pin destination) is met. Commands inside the 'repeat until' loop are:

Move forward

'If-else' statement: If path is to the left, do turn left