

# 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:

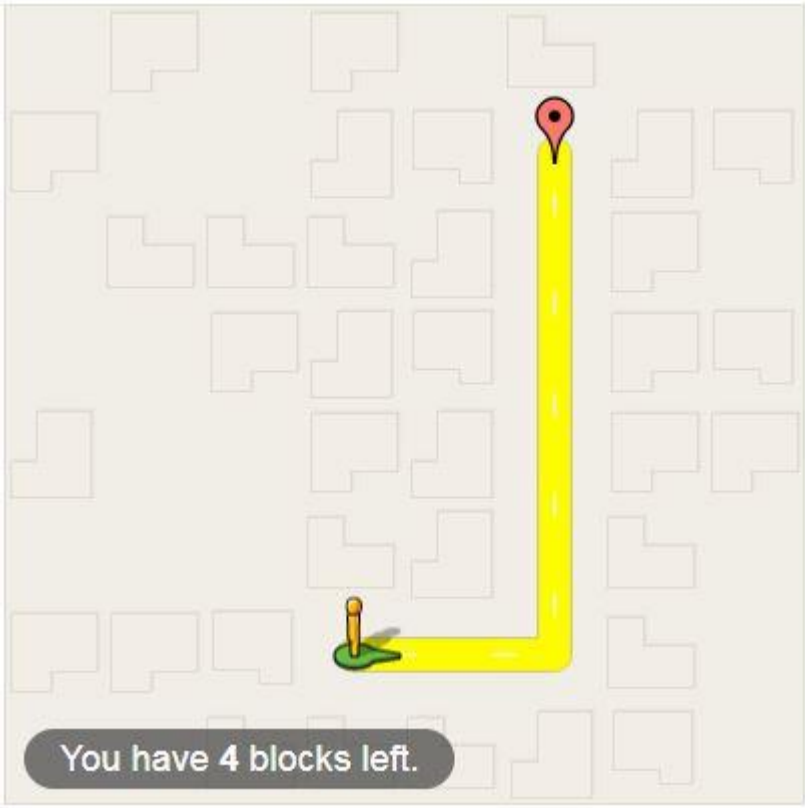
Your Level 4 Solution Commands

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"> <li>• To the left</li> <li>• Ahead</li> <li>• To the right</li> </ul> <p>do [choose command] from the following options:</p> <ul style="list-style-type: none"> <li>• Move forward</li> <li>• Turn left</li> <li>• Turn right</li> </ul>	<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:**

Your Level 6 Solution Commands

Here is the [Level 6 solution](#)

# Level 1 Solution

Blockly Games : Maze

Blockly Games : Turtle


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blockly.games/maze?lang=en&level=1&skin=0

Blockly Games : Maze

1

10



move forward

turn left ↶

turn right ↷

move forward

move forward

▶ Run Program

Level 1 Solution Commands
Move forward
Move forward

[Back to Level 2 exercise](#)

# Level 2 Solution

Blockly Games : Maze

Blockly Games : Turtle


← → ↻ 🏠

blockly.games/maze?lang=en&level=2&skin=0

Blockly Games : Maze

2

10



▶ Run Program

move forward

turn left ↶

turn right ↷

move forward

turn left ↶

move forward

turn right ↷

move forward

Level 2 Solution Commands
Move forward
Turn left
Move forward
Turn right
Move forward

[Back to Level 3 exercise](#)

## Level 3 Solution

The screenshot shows the Blockly Games: Maze interface. At the top, there are two browser tabs: "Blockly Games : Maze" and "Blockly Games : Turtle". The URL bar shows "blockly.games/maze?lang=en&level=3&skin=0". Below the browser tabs, the text "Blockly Games : Maze" is followed by a progress indicator with 10 circles, the 3rd of which is filled, and a score of 10. The main area on the left shows a maze with a yellow path leading from a green turtle to a red pin. A message box at the bottom left says "You have 0 blocks left." Below this is a red "Run Program" button. On the right, the Blockly code is displayed. It consists of a green "repeat until" loop block with a red pin icon in the "until" field. Inside the loop's "do" field is a purple "move forward" block. Below this loop, there are three other blocks: a green "move forward" block, a green "turn left" block with a dropdown arrow, and a green "turn right" block with a dropdown arrow. Below these is another green "repeat until" loop block with a red pin icon in the "until" field, and its "do" field is currently empty.

### 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

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# Level 4 Solution

Blockly Games : Maze

Blockly Games : Turtle

← → ↺ ⌂

blockly.games/maze?lang=en&level=4&skin=0

Blockly Games : Maze

4

10

move forward

turn left ↺

turn right ↻

repeat until

do

repeat until

do

move forward

turn left ↺

move forward

turn right ↻

▶ Run Program

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

Blockly Games : Turtle

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blockly.games/maze?lang=en&level=5&skin=0

Blockly Games : Maze

5

10

move forward

turn left ↺

turn right ↻

repeat until 📍  
do

move forward

move forward

turn left ↺

repeat until 📍  
do  
move forward

▶ 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

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## Level 6 Solution

Blockly Games : Maze 6 10

You have 1 block left.

Run Program

move forward

turn left

turn right

repeat until

if path to the left

repeat until

do

do

do

do

### 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