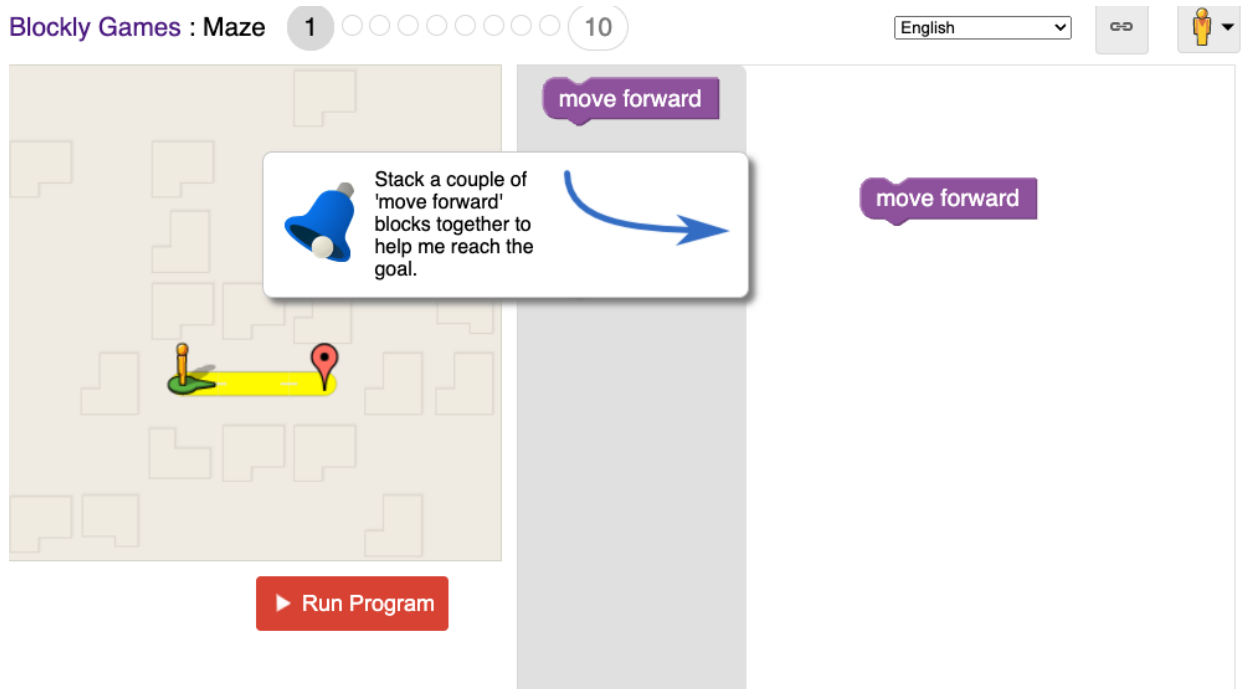


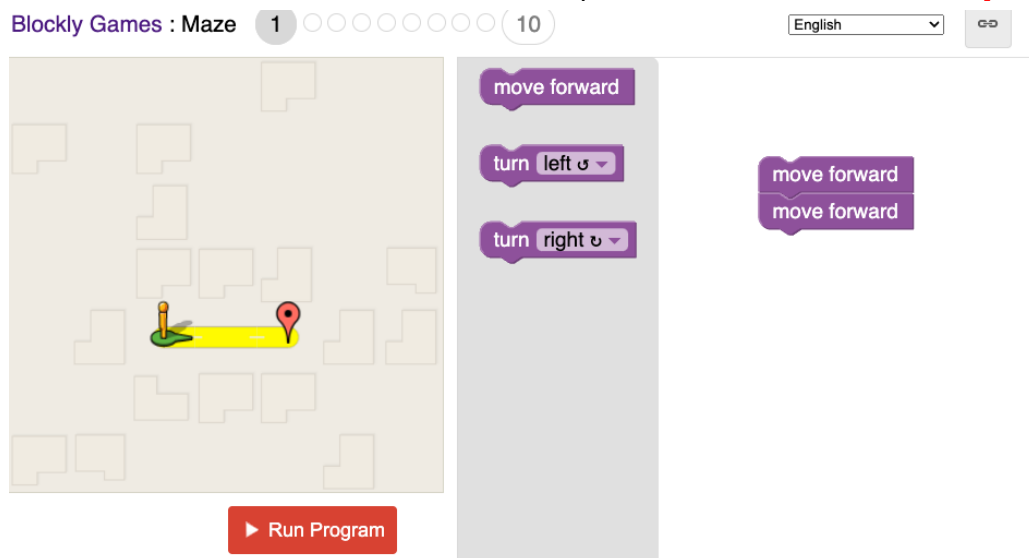
1. Click this link to be directed to the Maze game website:

[Blockly Games : Maze](#)

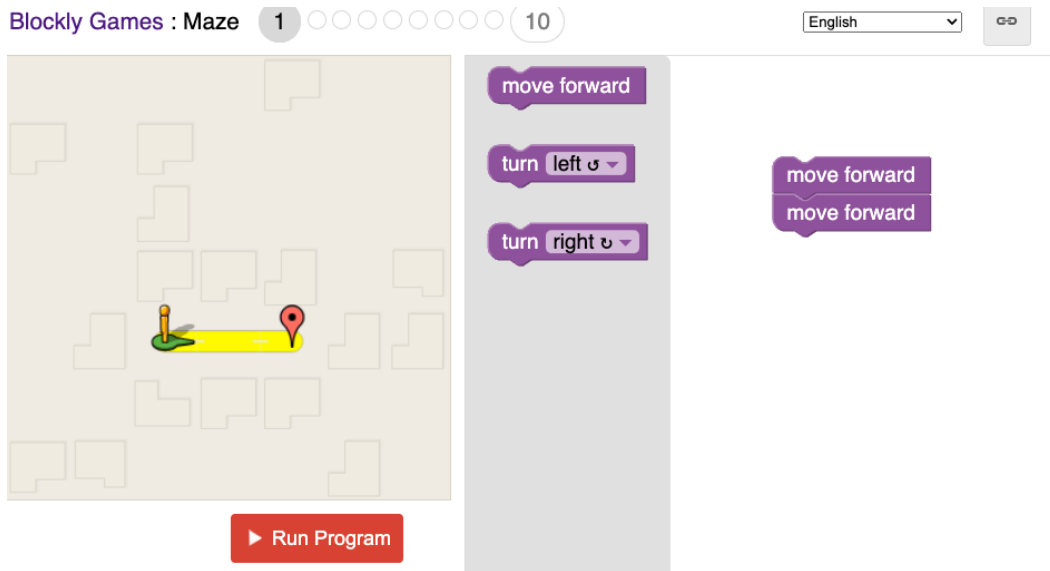
2. To solve this maze, follow the instructions on the screen to help the player reach his desired destination.



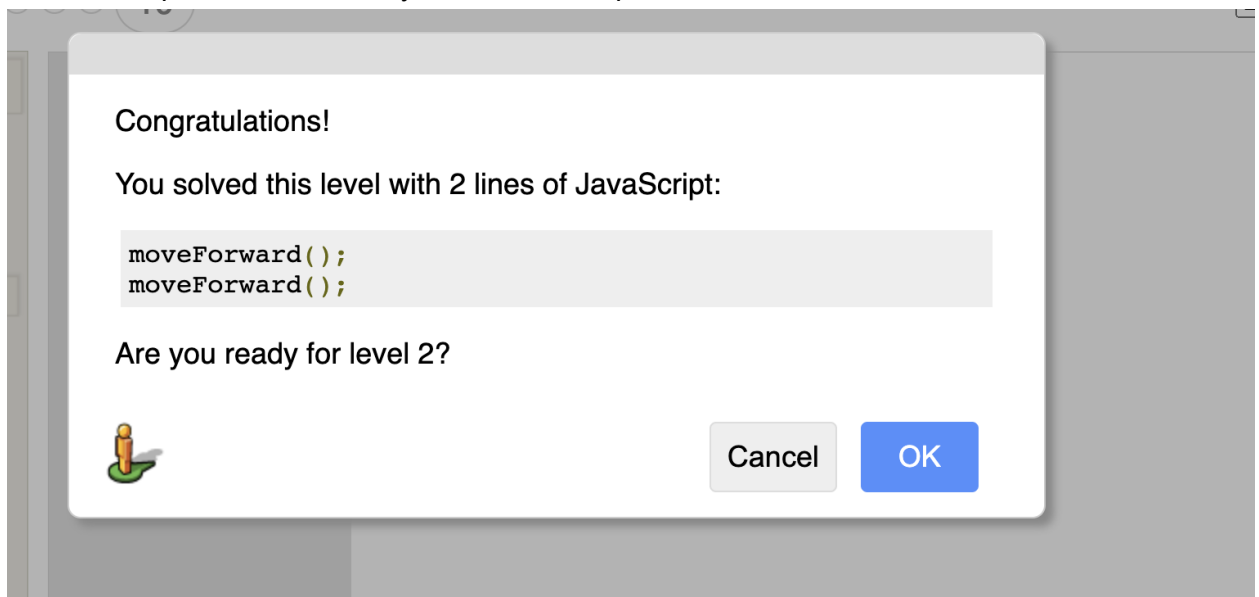
3. The image below shows the completed code stack in the workspace. This code will allow your character to move forward two blocks to the pin. Build is code stack and hit [**Run Program**]



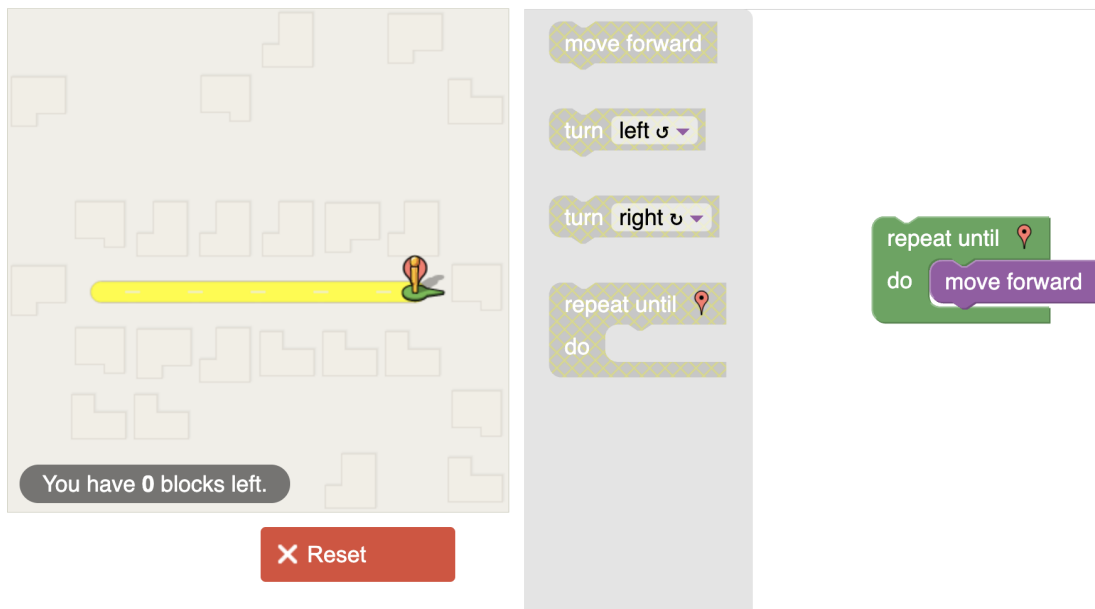
4. This is the completed maze for Level one



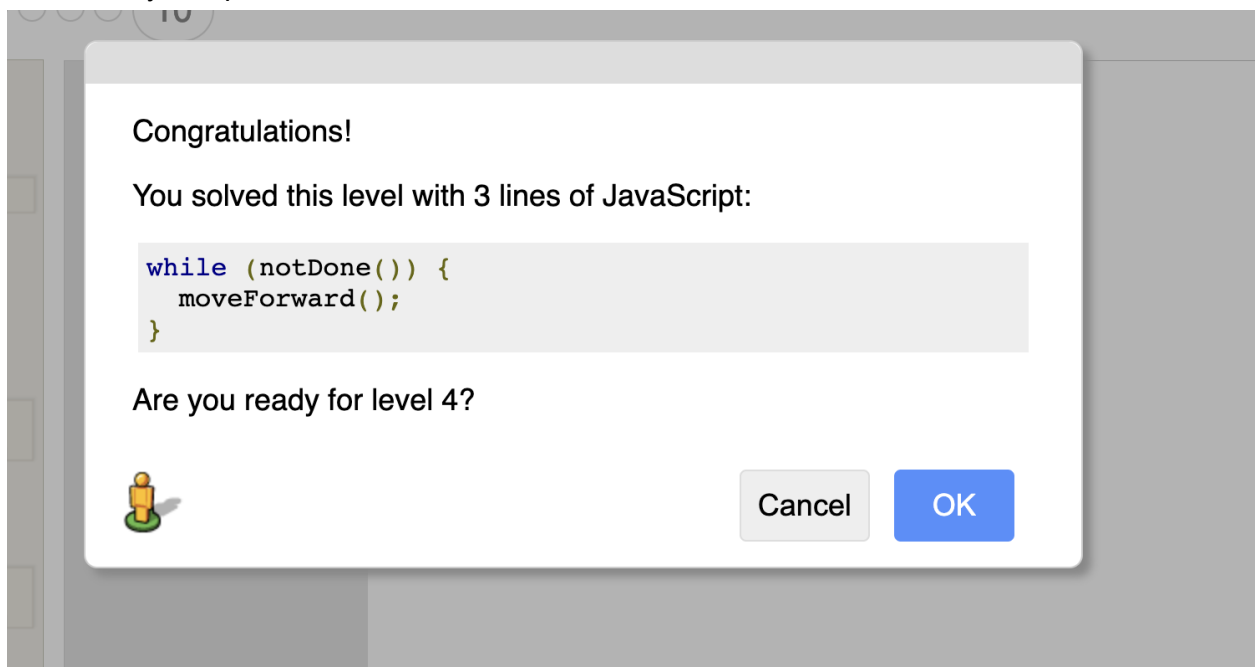
5. After you click Run Program this pop up appears. This shows the completion of level 1 and the lines of code in computer science that you used to complete the maze.



6. Follow the instructions for the rest of the levels to complete the maze.
7. Level 3 introduces you to loops. In this case your player is repeating the move forward action until it reaches the destination.



8. In terms of computer science code, this is the action being performed in level 3. This pops up after you successfully complete the maze in level 3.

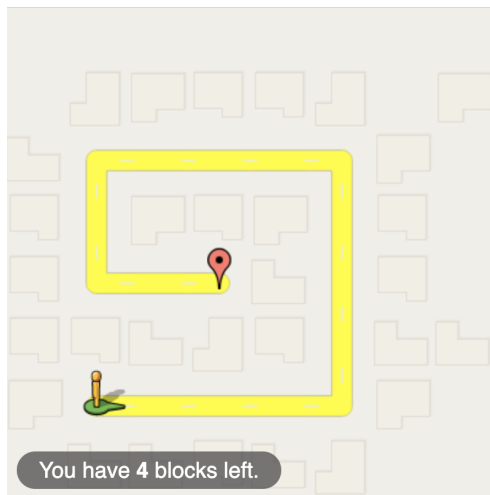


9. Use the idea in (7) to complete the next levels.

10. Level 6 introduces you to If blocks (if statements). The If block will only do something if the condition is true.

Blockly Games : Maze

6 10



Run Program

move forward

turn left ↺

turn right ↻

repeat until 📍

do

if path to the left ↺

do

move forward

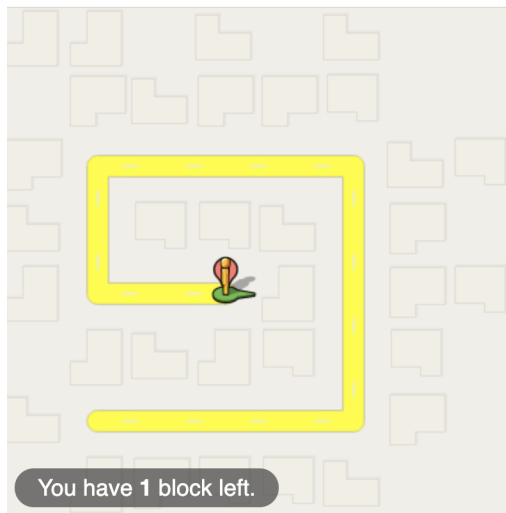
An 'if' block will do something only if the condition is true. Try turning left if there is a path to the left.

11. This is the completed maze for level 6.

Blockly Games : Maze

6 10

English



Reset

move forward

turn left ↺

turn right ↻

repeat until 📍

do

if path to the left ↺

do

turn left ↺

move forward

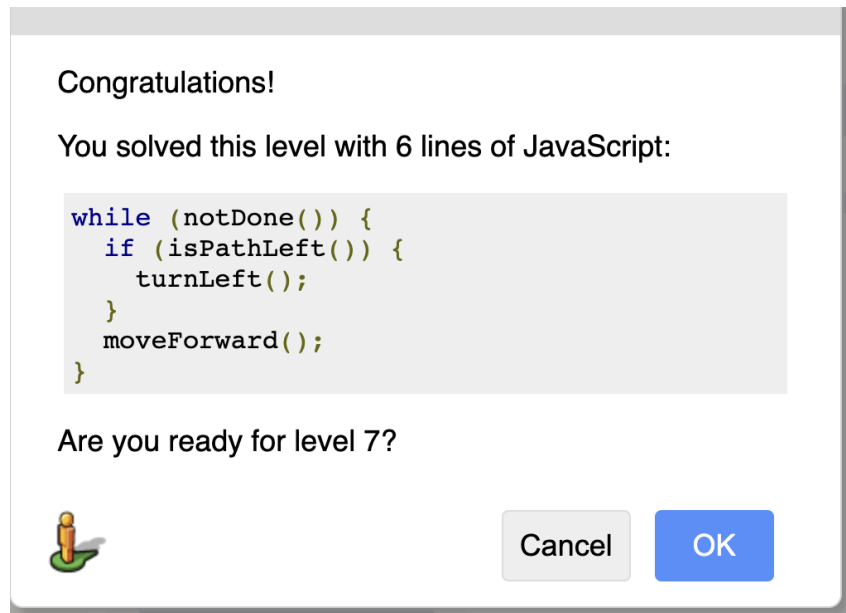
repeat until 📍

do

if path to the left ↺

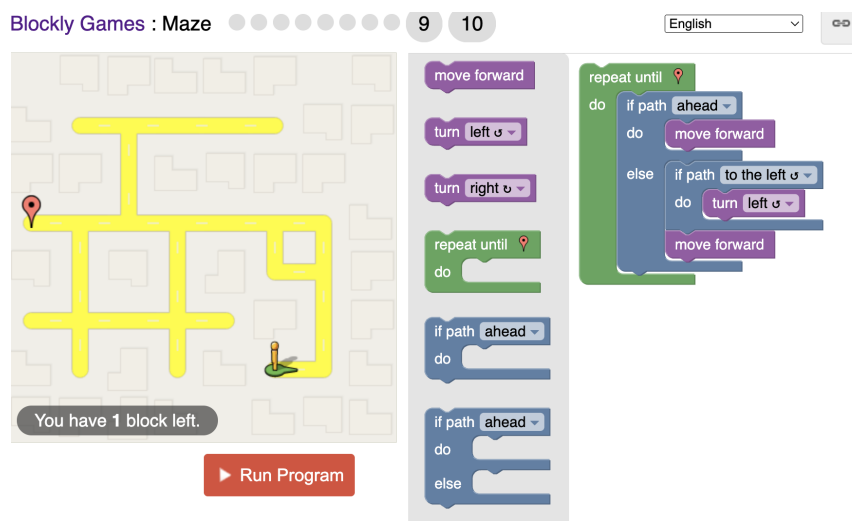
do

12. In terms of computer science code this is the action being performed at level 6.



13. Use the idea above to complete the next levels.

14. Level 9 introduces you to the If - else block (if-else statement). If the statement is true do one thing, else do the other.



15. In terms of computer science code this is the action being performed at level 9.

Congratulations!

You solved this level with 10 lines of JavaScript:

```
while (notDone()) {  
  if (isPathForward()) {  
    moveForward();  
  } else {  
    if (isPathLeft()) {  
      turnLeft();  
    }  
    moveForward();  
  }  
}
```

Are you ready for level 10?



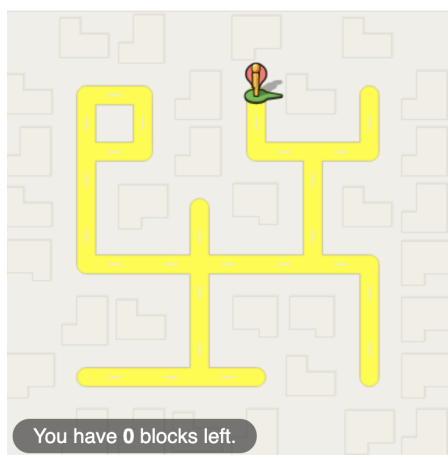
Cancel

OK

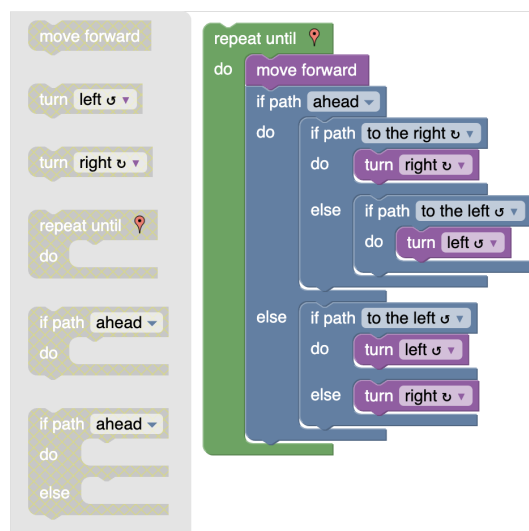
16. Use the idea above to complete level 10 .This is the answer key for level 10.

Blockly Games : Maze

10



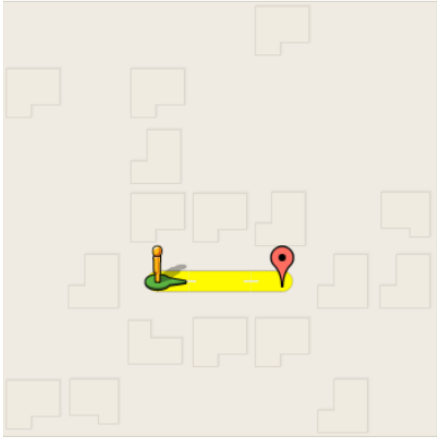
Reset



The Following are the answer keys to all the levels.

1. Level 1

Blockly Games : Maze 1 ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ (10) English



Run Program

move forward

turn left ↶

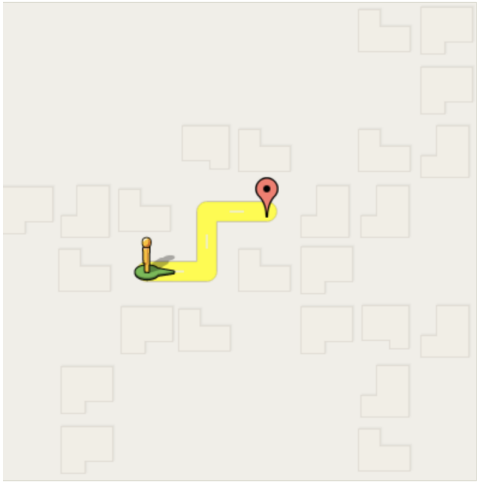
turn right ↷

move forward

move forward

2. Level 2

Blockly Games : Maze 2 ● ● ● ● ● ● ● ● ● ● (10)



Run Program

move forward

turn left ↶

turn right ↷

move forward

turn left ↶

move forward

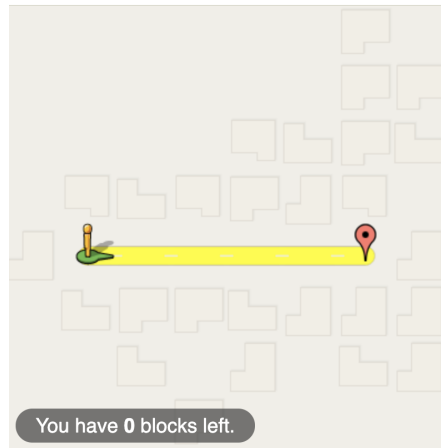
turn right ↷

move forward

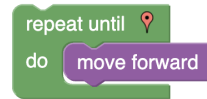
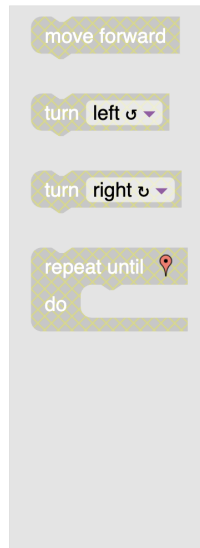
3. Level 3

Blockly Games : Maze ● ● ● 3 ● ● ● ● ● 10

English



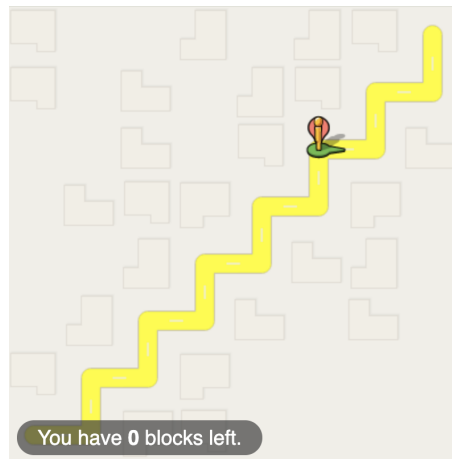
▶ Run Program



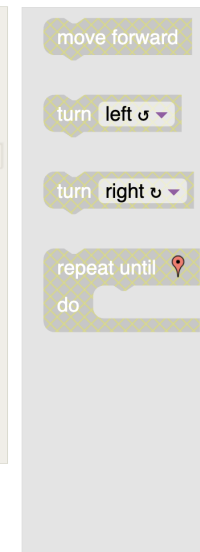
4. Level 4

Blockly Games : Maze ● ● ● 4 ● ● ● ● ● 10

English



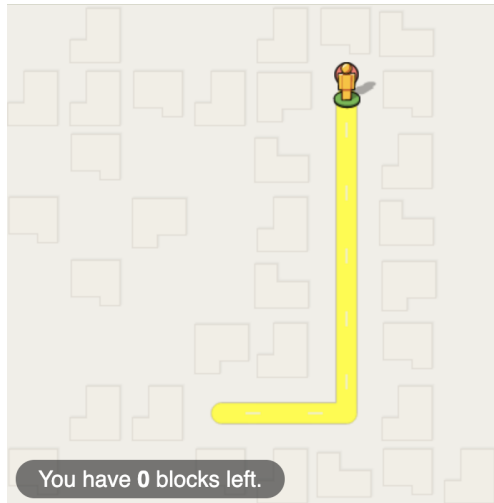
✕ Reset



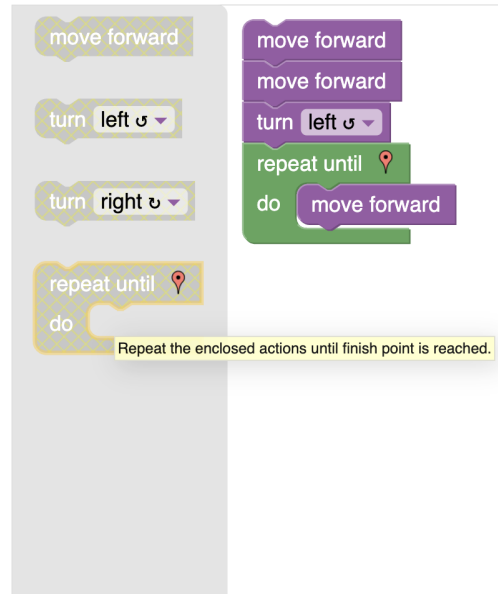
5. Level 5

Blockly Games : Maze ● ● ● ● ● 5 ● ● ● ● ● 10

English



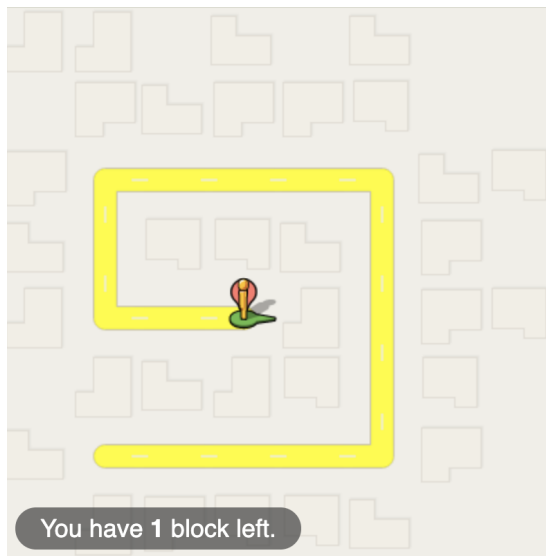
✕ Reset



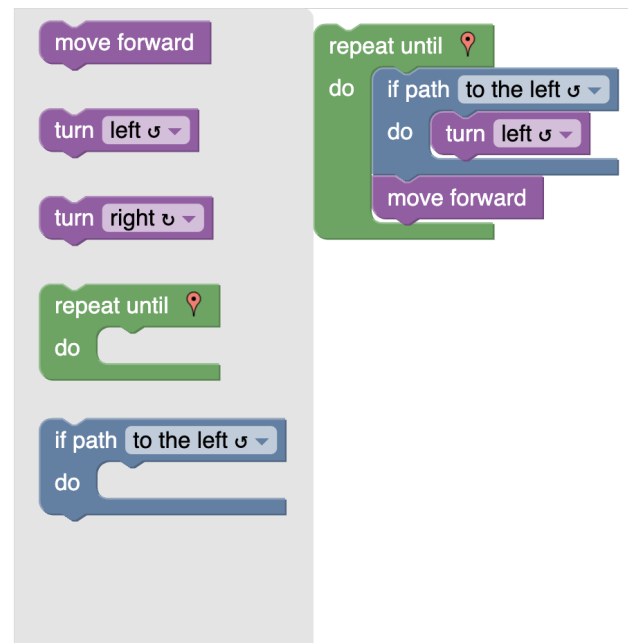
6. Level 6

Blockly Games : Maze ● ● ● ● ● 6 ● ● ● ● ● 10

English



✕ Reset



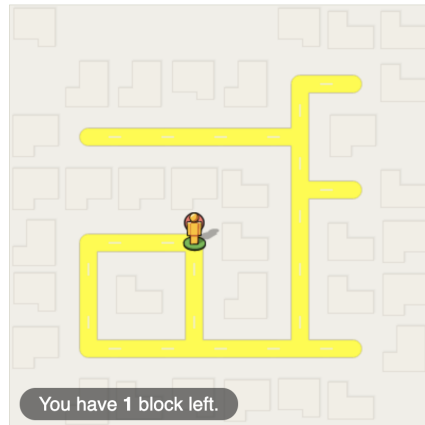
7. Level 7

Blockly Games : Maze

7

10

English



Reset

move forward
turn left
turn right

repeat until
do

if path ahead
do

repeat until
do
if path to the right
do
turn right
move forward

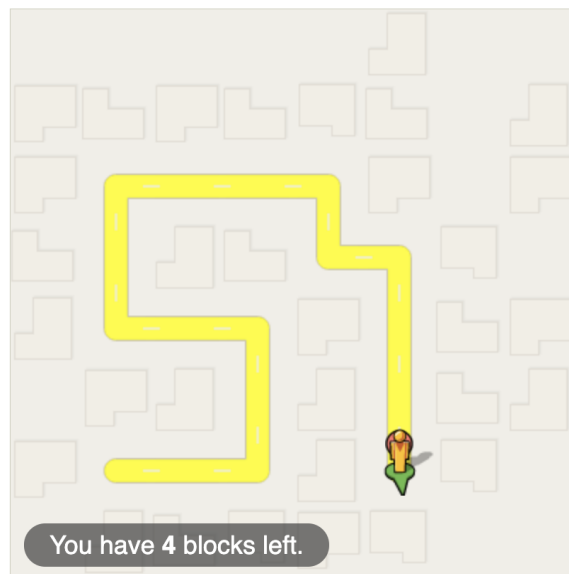
8. Level 8

Blockly Games : Maze

8

10

English



Reset

move forward

turn left

turn right

repeat until
do

if path ahead
do

repeat until
do
if path to the left
do
turn left
if path to the right
do
turn right
move forward

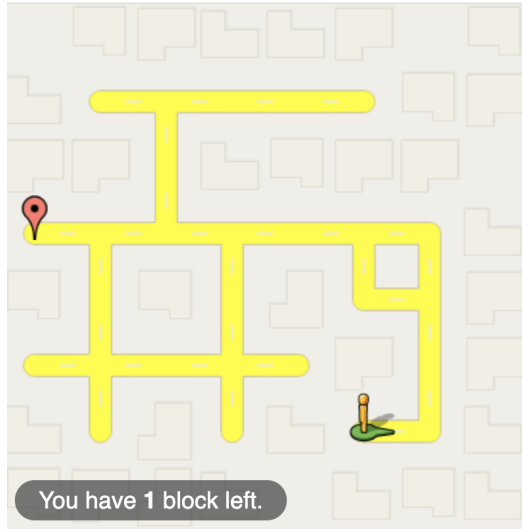
9. Level 9

Blockly Games : Maze

9

10

English



Run Program

move forward

turn left

turn right

repeat until

if path ahead

if path ahead

repeat until

do

if path ahead

do

move forward

else

if path to the left

do

turn left

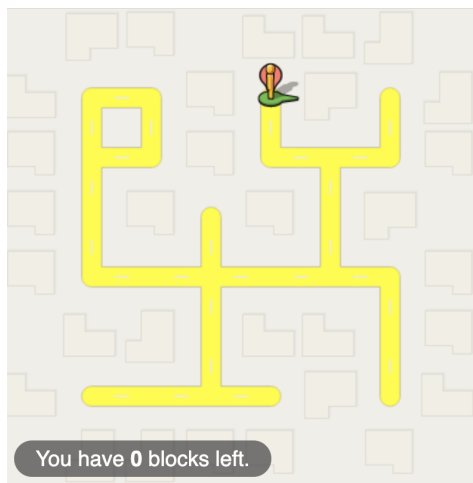
move forward

10. Level 10

Blockly Games : Maze

10

English



Reset

move forward

turn left

turn right

repeat until

if path ahead

if path ahead

repeat until

do

move forward

if path ahead

do

if path to the right

do

turn right

else

if path to the left

do

turn left

else

turn right

