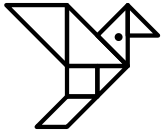


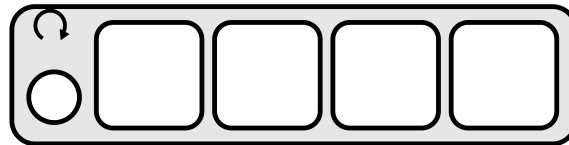
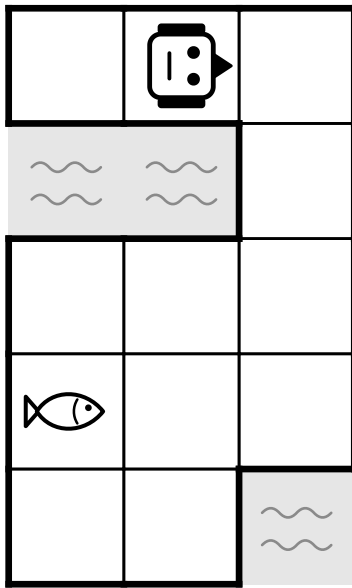


Learn a new puzzle

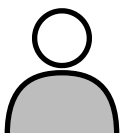
Repeat Loops



Fill in the blanks so the robot stops on the picture.
The cards in the box repeat.



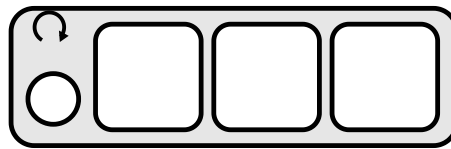
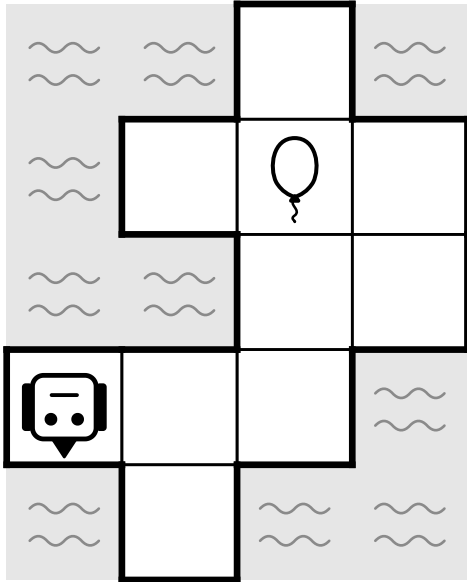
- 1 Find the part of the path that repeats: moves and turns.
- 2 Circle it each time. Count the circles: that is the number.
- 3 Follow your program to check. Turn the paper if it helps.



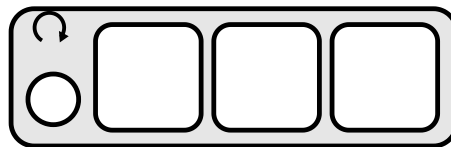
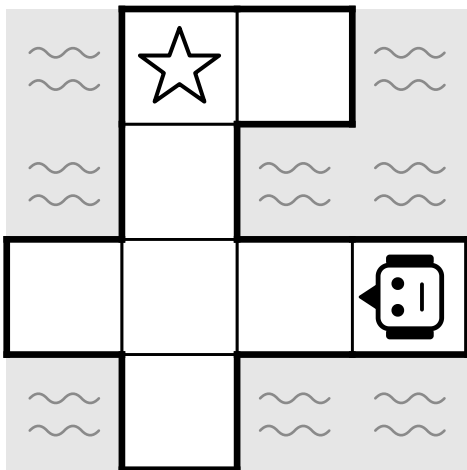
Which steps does the robot do again and again?

**1****Repeat Loops**

Fill in the blanks so the robot stops on the picture. The cards in the box repeat.

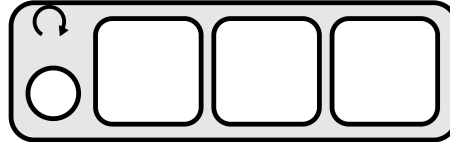
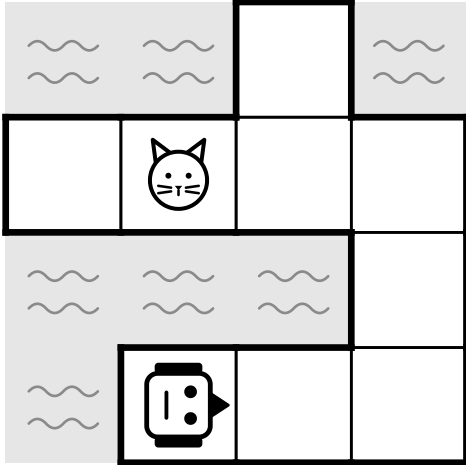
**2****Repeat Loops**

Fill in the blanks so the robot stops on the picture. The cards in the box repeat.

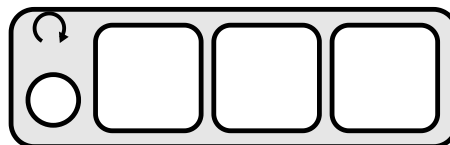
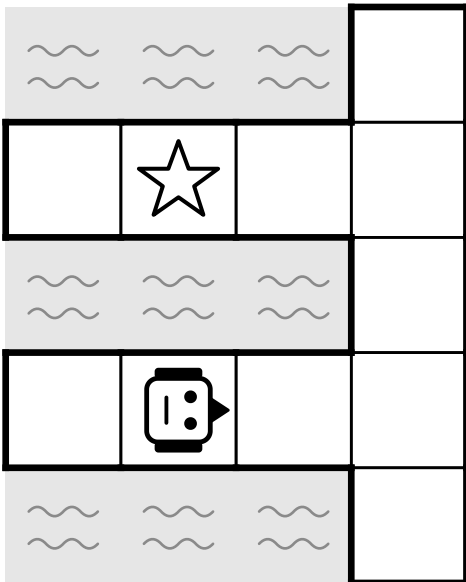


**3****Repeat Loops**

Fill in the blanks so the robot stops on the picture. The cards in the box repeat.

**4****Repeat Loops**

Fill in the blanks so the robot stops on the picture. The cards in the box repeat.

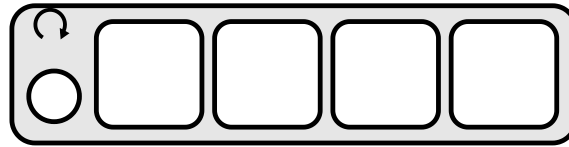
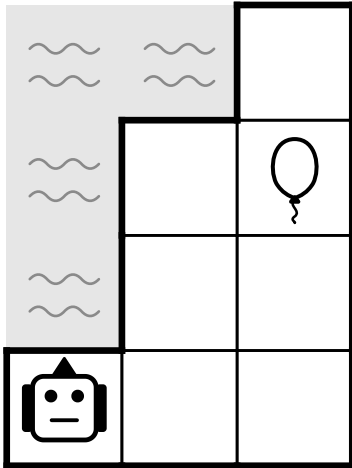




5

Repeat Loops

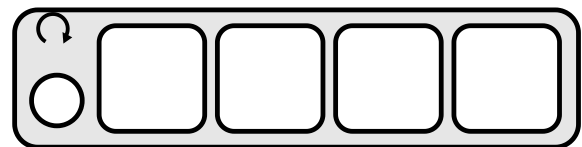
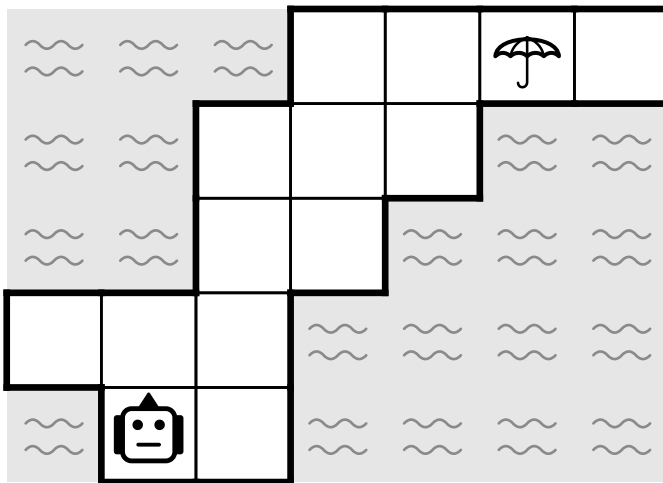
Fill in the blanks so the robot stops on the picture. The cards in the box repeat.



6

Repeat Loops

Fill in the blanks so the robot stops on the picture. The cards in the box repeat.

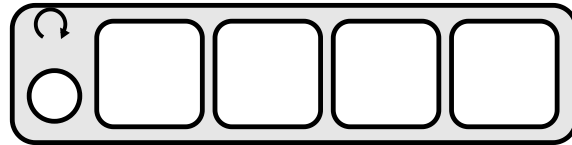
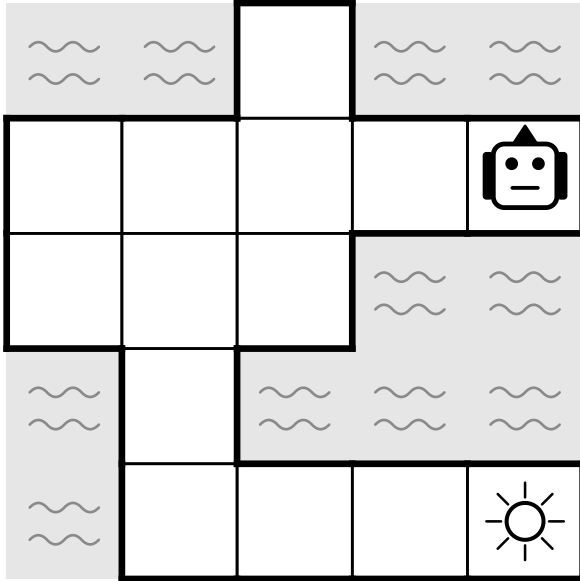




7

Repeat Loops

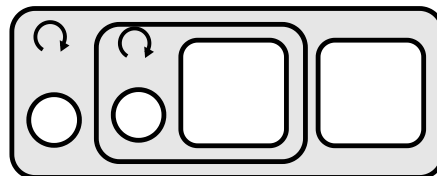
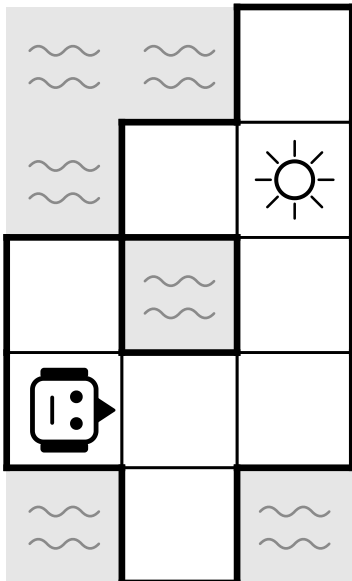
Fill in the blanks so the robot stops on the picture. The cards in the box repeat.



8

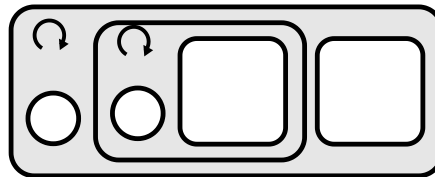
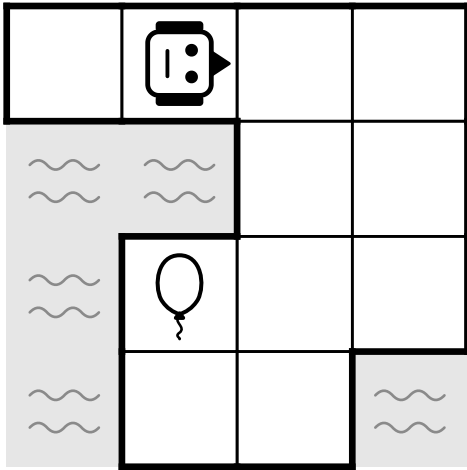
Repeat Loops

Fill in the blanks so the robot stops on the picture. The cards in the box repeat.



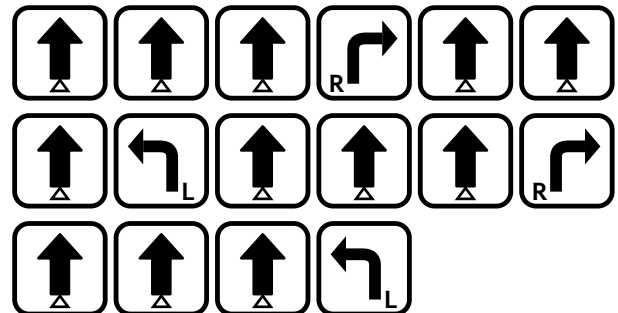
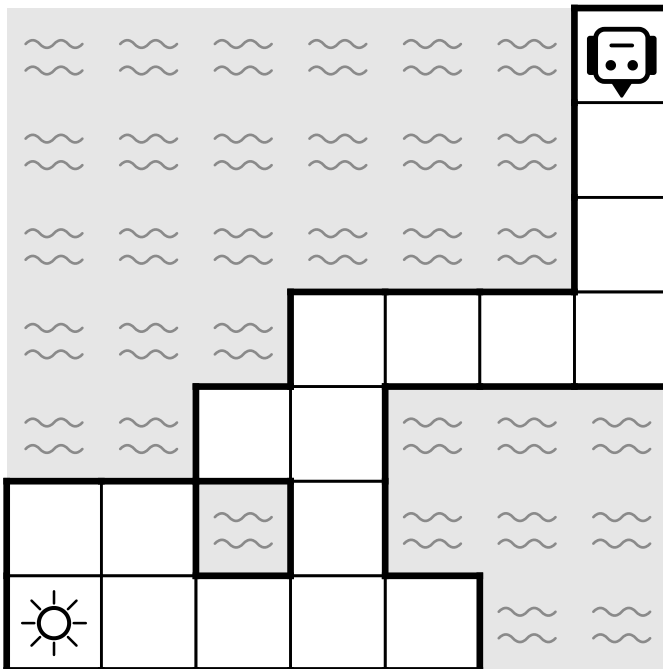
⑨ Repeat Loops

Fill in the blanks so the robot stops on the picture. The cards in the box repeat.



⑩ Repeat Loops

This program works but is long. Write it again with the fewest cards. You may put a repeat box inside another repeat box.



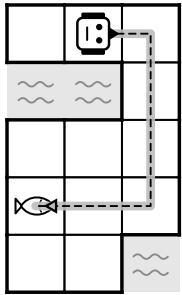
Shorter:



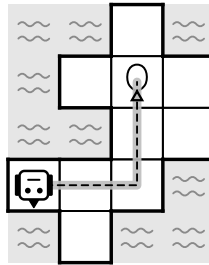
Answers

For grown-ups. Cut off or keep this page aside until the puzzles are done.

Learn · Repeat Loops

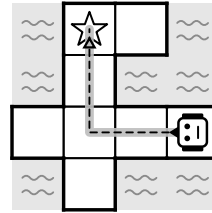


#1



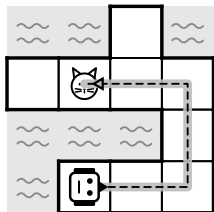
The path repeats "turn left, forward, then forward" 2 times.

#2



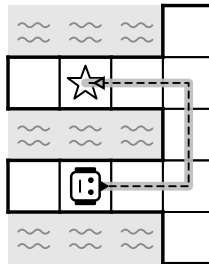
The path repeats "forward, forward, then turn right" 2 times.

#3



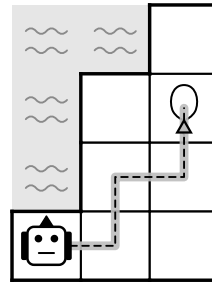
The path repeats "forward, forward, then turn left" 3 times.

#4



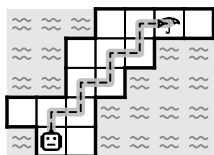
The path repeats "forward, forward, then turn left" 3 times.

#5



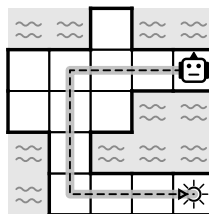
The path repeats "turn right, forward, turn left, then forward" 2 times.

#6



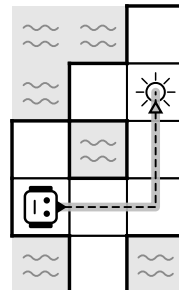
The path repeats "forward, turn right, forward, then turn left" 4 times.

#7



The path repeats "turn left, forward, forward, then forward" 3 times.

#8

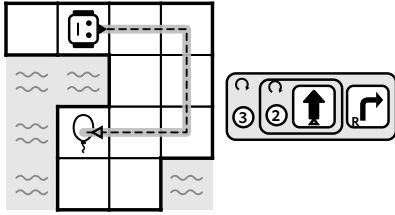


The path repeats "forward 2 times, then turn left" 2 times.



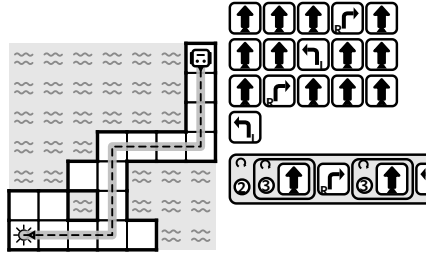
Answers For grown-ups. Cut off or keep this page aside until the puzzles are done.

#9



The path repeats "forward 2 times, then turn right" 3 times.

#10



The path repeats "forward 3 times, turn right, forward 3 times, turn left" 2 times: that is the big box. "forward 3 times" goes in a small box inside it. 7 cards instead of 16.