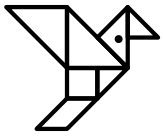


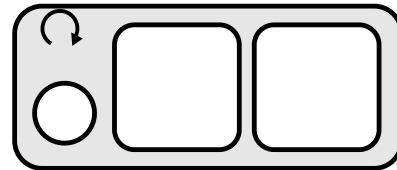
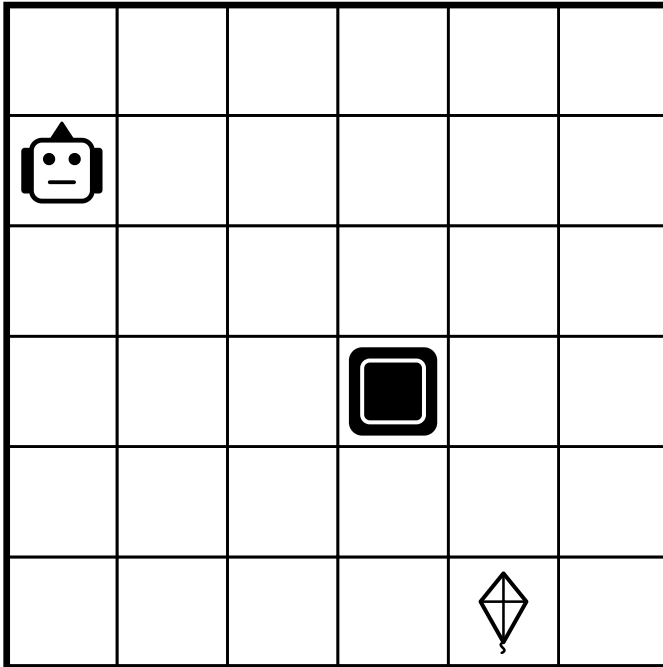


Learn a new puzzle

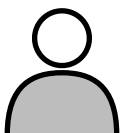
Repeat Loops



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



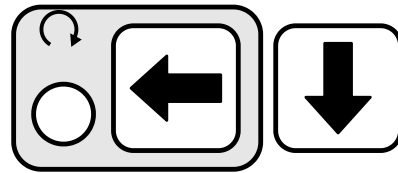
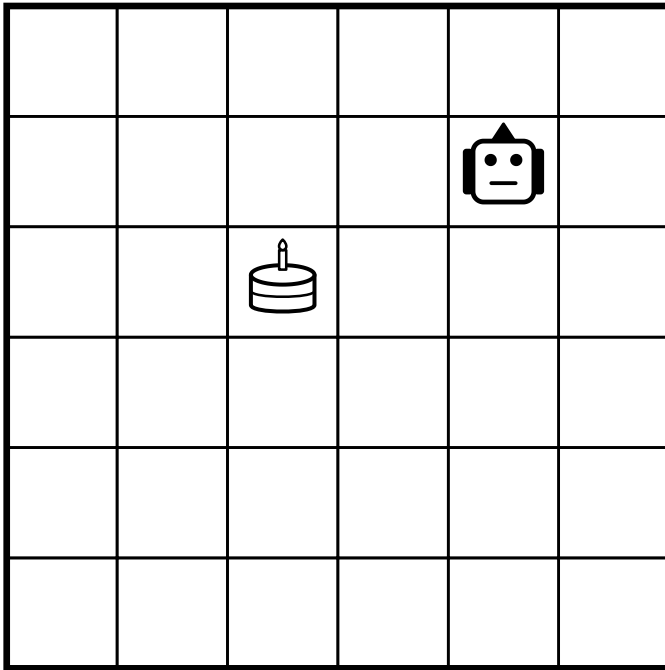
- 1 Find the part of the path that repeats.
- 2 Circle it each time. Count the circles: that is the number.
- 3 Follow your program to check. The whole box runs again each time.



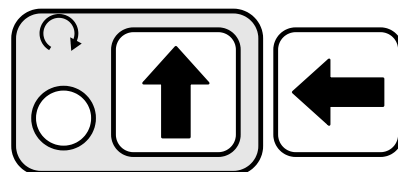
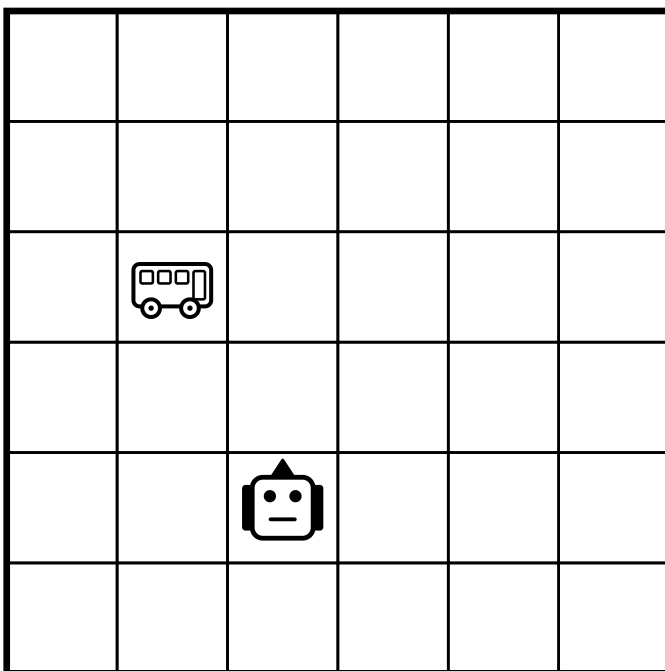
Which steps does the robot do again and again?

**1****Repeat Loops**

How many times must the box repeat? Write the number so the robot stops on the picture.

**2****Repeat Loops**

How many times must the box repeat? Write the number so the robot stops on the picture.

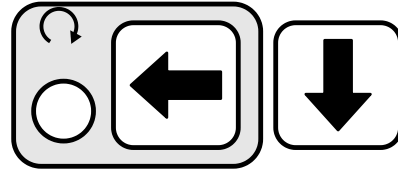
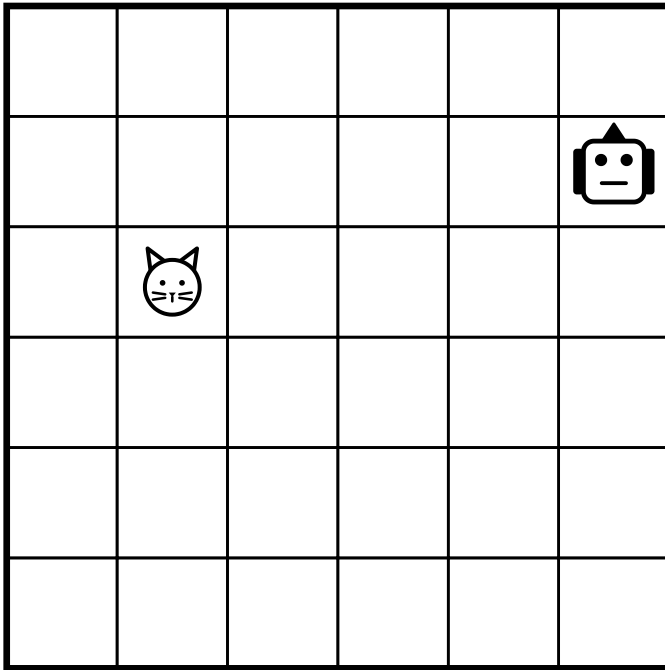




3

Repeat Loops

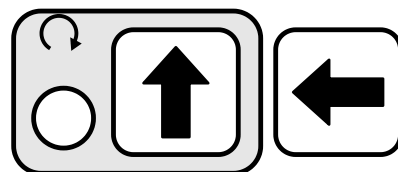
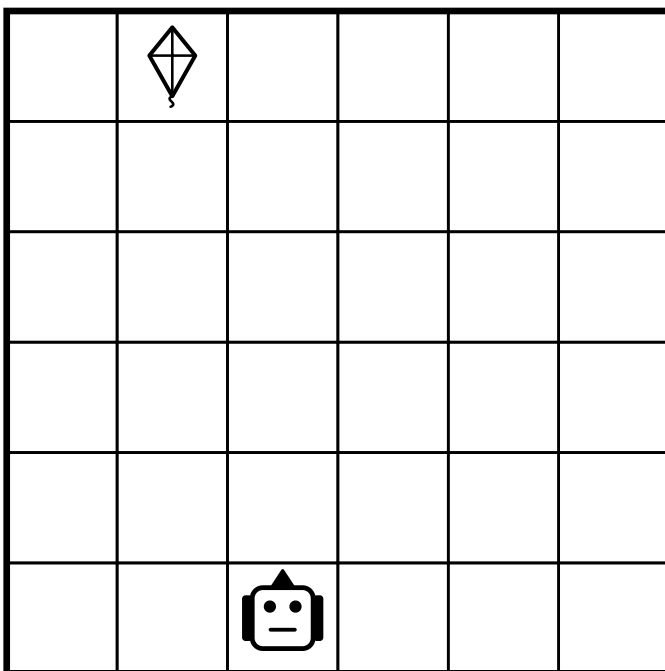
How many times must the box repeat? Write the number so the robot stops on the picture.



4

Repeat Loops

How many times must the box repeat? Write the number so the robot stops on the picture.

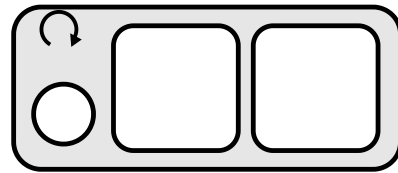
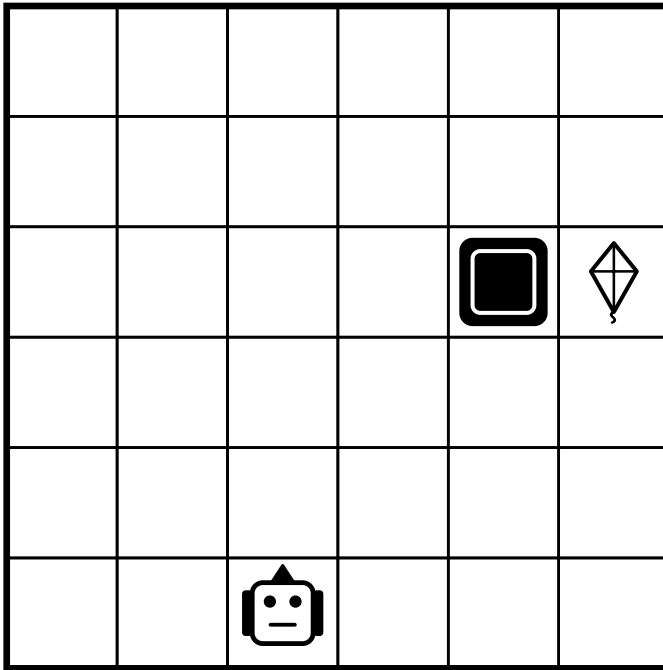




5

Repeat Loops

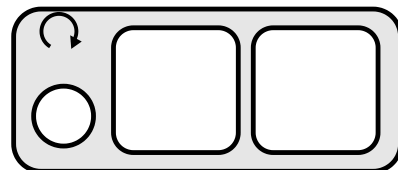
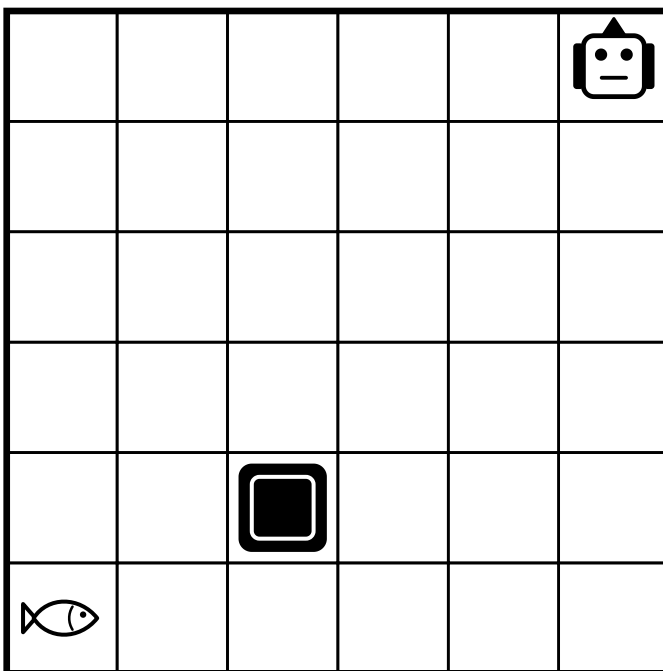
Fill in the blanks so the robot stops on the picture. The cards in the box repeat.



6

Repeat Loops

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

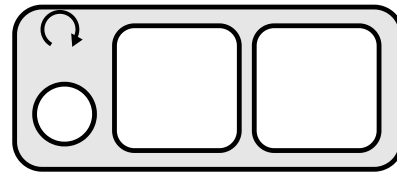
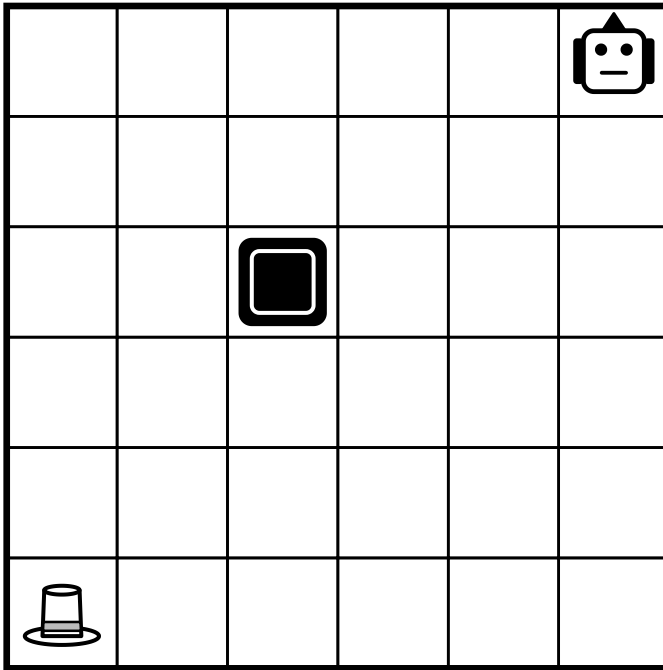




7

Repeat Loops

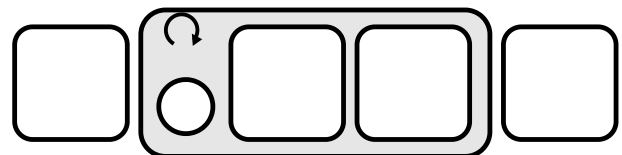
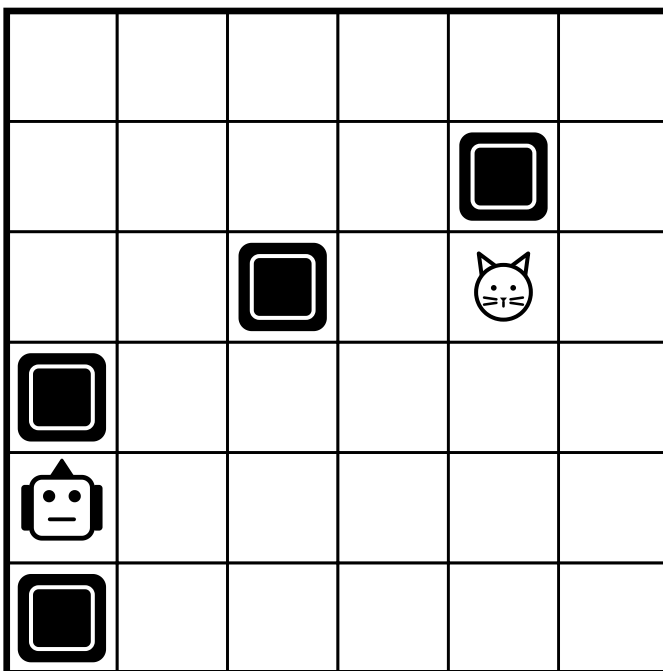
Fill in the blanks so the robot stops on the picture. The cards in the box repeat.



8

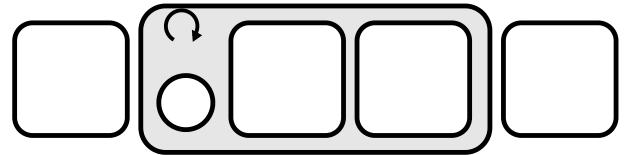
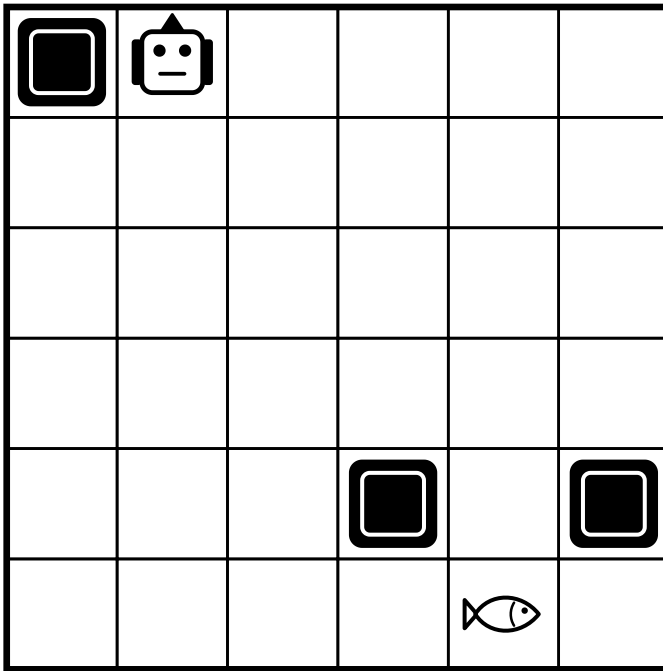
Repeat Loops

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

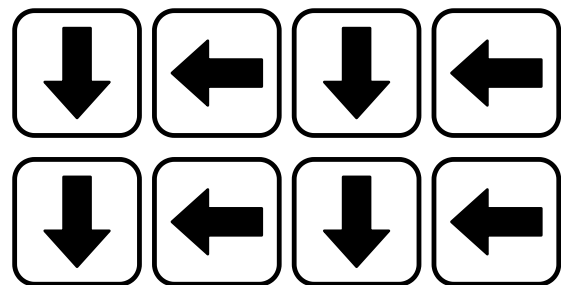
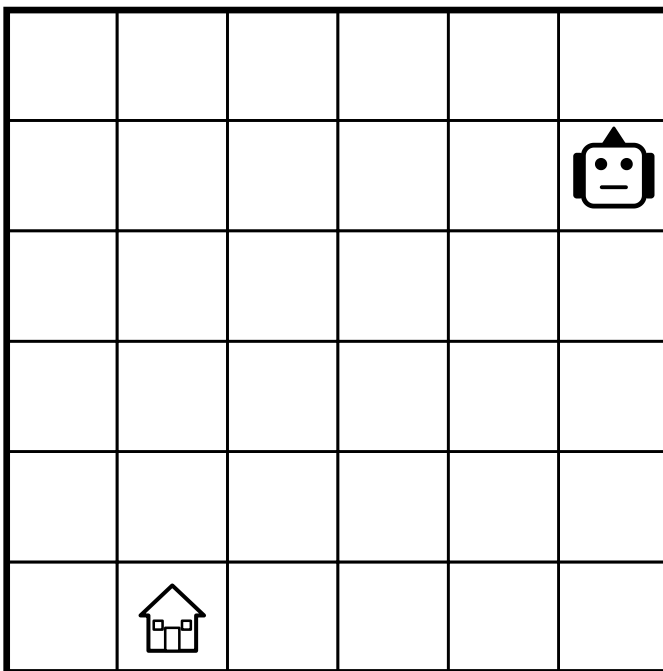


**9****Repeat Loops**

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, using one repeat box.



Shorter:

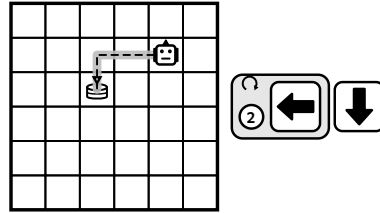
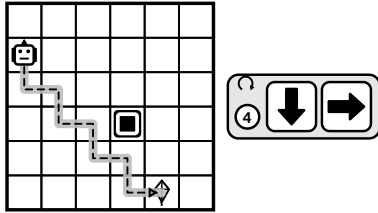


Answers

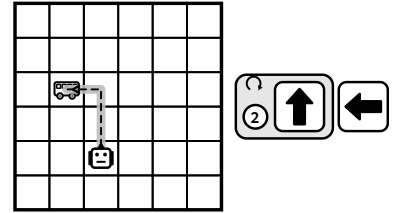
For grown-ups. Cut off or keep this page aside until the puzzles are done.

Learn · Repeat Loops

#1



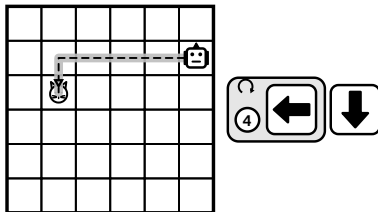
#2



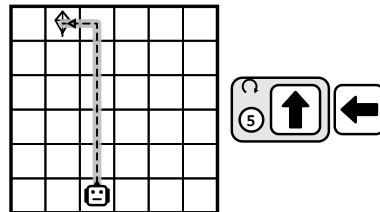
The path repeats "left" 2 times.

The path repeats "up" 2 times.

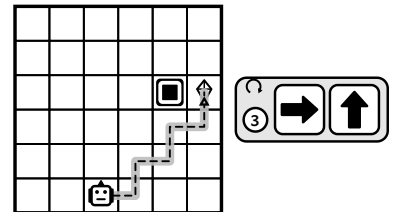
#3



#4



#5

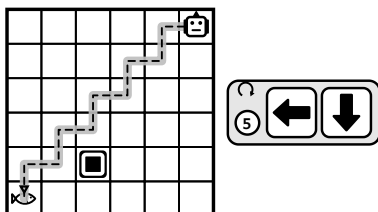


The path repeats "left" 4 times.

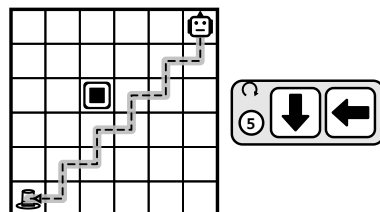
The path repeats "up" 5 times.

The path repeats "right then up" 3 times.

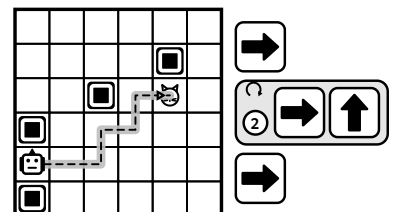
#6



#7



#8



The path repeats "left then down" 5 times.

The path repeats "down then left" 5 times.

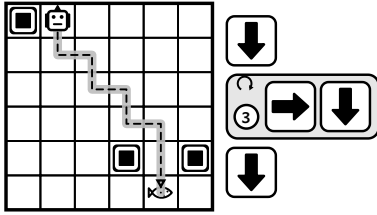
The path repeats "right then up" 2 times.



Answers

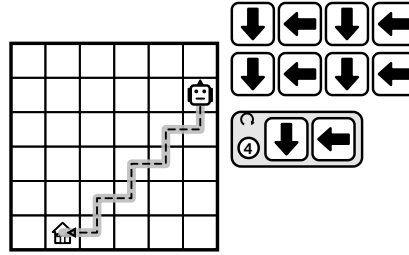
For grown-ups. Cut off or keep this page aside until the puzzles are done.

#9



The path repeats "right then down" 3 times.

#10



"down then left" comes 4 times in a row: 3 cards instead of 8.