



# Coding is my superpower

What's your name, explorer?

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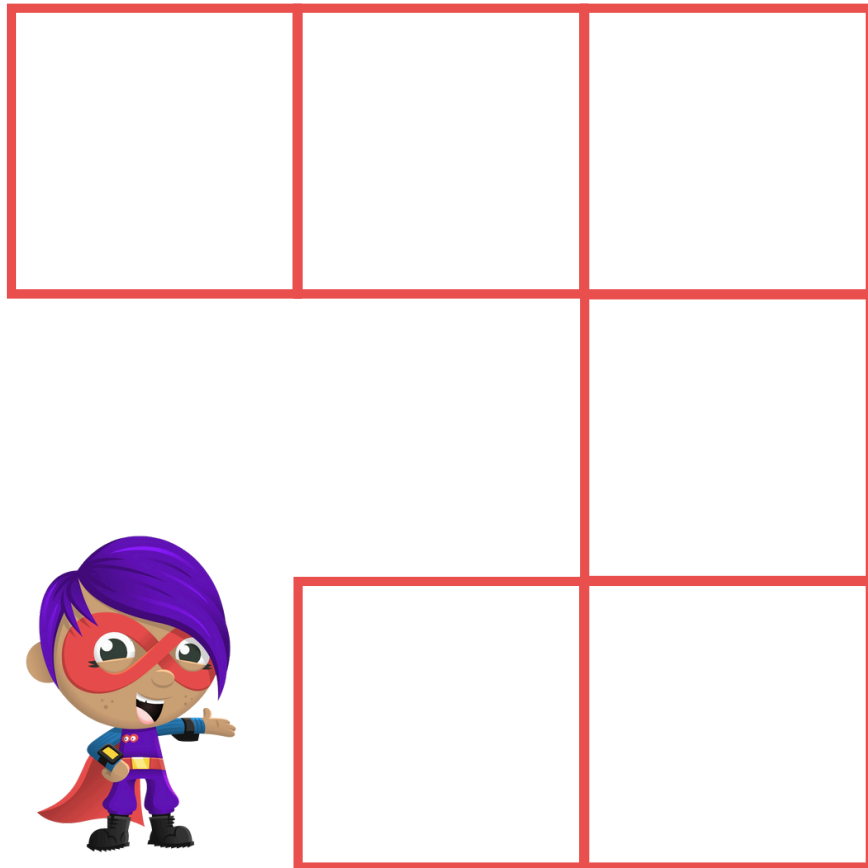
# ALGORITHMS

## Algorithms are a set of instructions

Can you give our drone, Luna, a set of instructions to move across the grid to get to Pixel? Draw arrows into each square to show Luna which way to go.

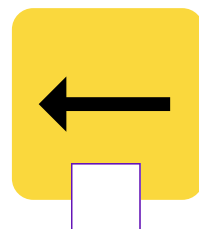
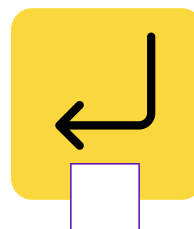
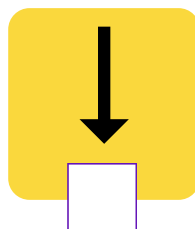
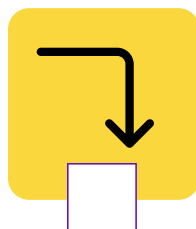
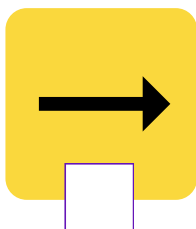


Luna



Pixel

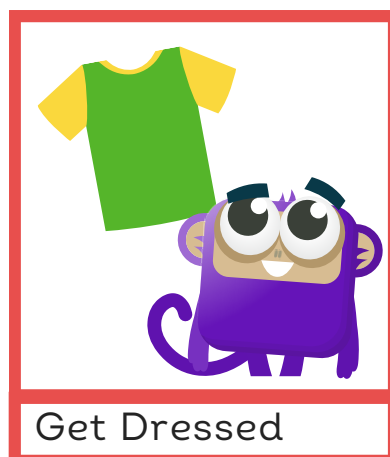
How many of each arrow did you use in your algorithm? Write your answer in the little squares under each arrow.



# SEQUENCING

**Sequencing is all about putting things in order**

Can you put the following tasks in the right order and help Pixel get ready for school? You can either cut out the pictures or put numbers next to each one to show the correct sequence.



# DEBUGGING

**Debugging is all about finding mistakes and correcting them!**

Can you help Pixel debug the following sentences which have errors by re-writing the correct version underneath the sentence you are debugging.

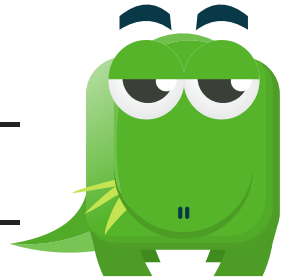
1. Pixel met a zoo at the monkey.

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2. The dinosaur is red.

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3. Luna likes to fruit eat.

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4. The dog said meow!

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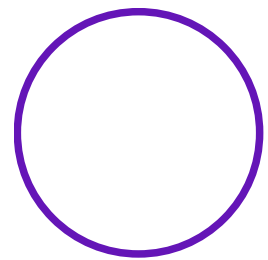
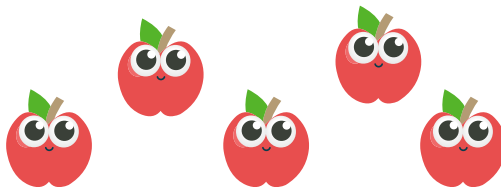


# LOOPS

**Loops are a fun way to describe actions that repeat**

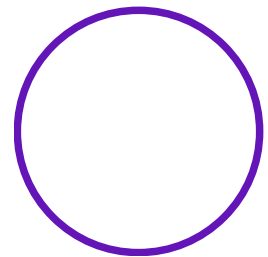
Can you help Pixel work out how many loops are required for each activity below?

1.



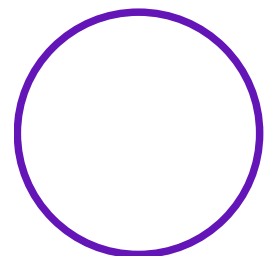
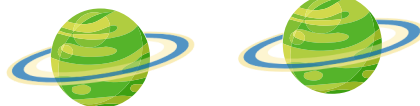
Hint: How many apples does Pixel need to pick?

2.



Hint: How many rocks does Pixel need to pick up?

3.



Hint: How many planets does Luna need to fly past to reach Pixel?

# Mission Complete!

Well done, Explorer!

You've just learned some of the building blocks of coding – like algorithms, debugging, loops, and sequencing. That's some seriously smart thinking!

I want to say a big thank you for being such a helpful little explorer. You used your brain, your imagination, and your problem-solving powers, and that's what coding is all about.

Don't forget to tick this mission off your Code + Play Summer Challenge sheet and have a think...

What challenge will you take on next?

There are so many more to explore!

Keep learning, keep creating, and keep being curious.

See you on your next mission!

Pixel

