

UNPLUGGED WORKSHEETS



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34 OBJECT-ORIENTED PROGRAMMING



Give your fuzz a name too!

Fuzz Builder

Directions: Build a fuzz! Give it color and at least 1 accessories. Then, describe your fuzz's properties on the lines below.

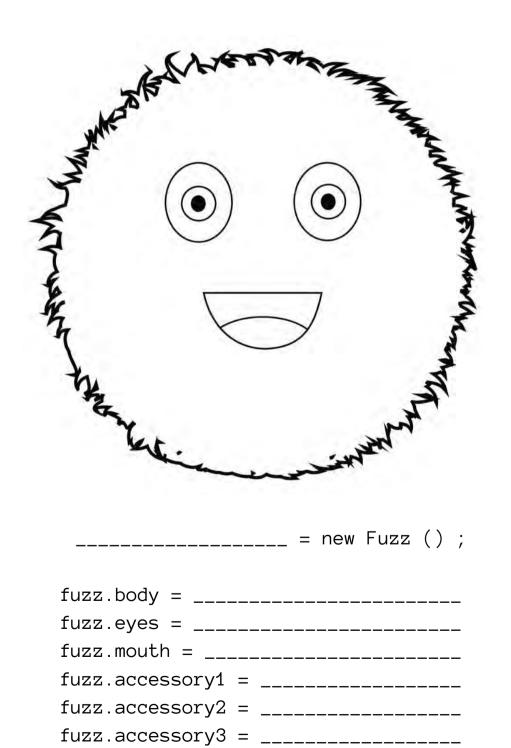
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4		$\textcircled{\bullet}$	ANN MANARA
AT-LEAST	\leq	>	the second
the	Kee.		22 Martine
Fuzz nar	ne:		
Body Co	lor:		
Eye color	n		
Accessor	ies:		

Fuzz Builder with JavaScript

Your Name: _____

Directions:

Build a fuzz! Give it color and at least 3 accessories. Get creative! Then, define it's properties in the JavaScript template below.



My First Code

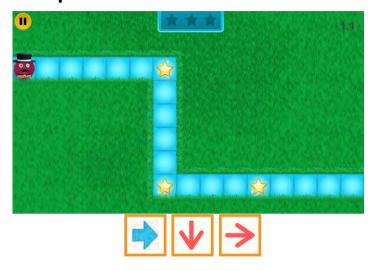
Your Name: _____

Example:

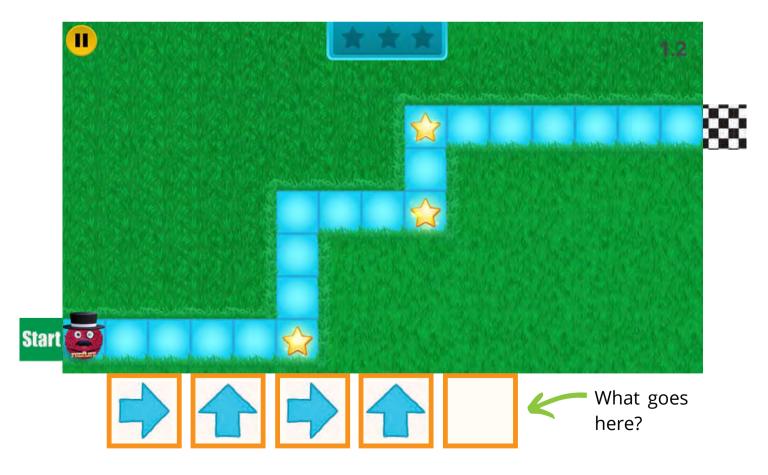


Help the Fuzz get through the maze!

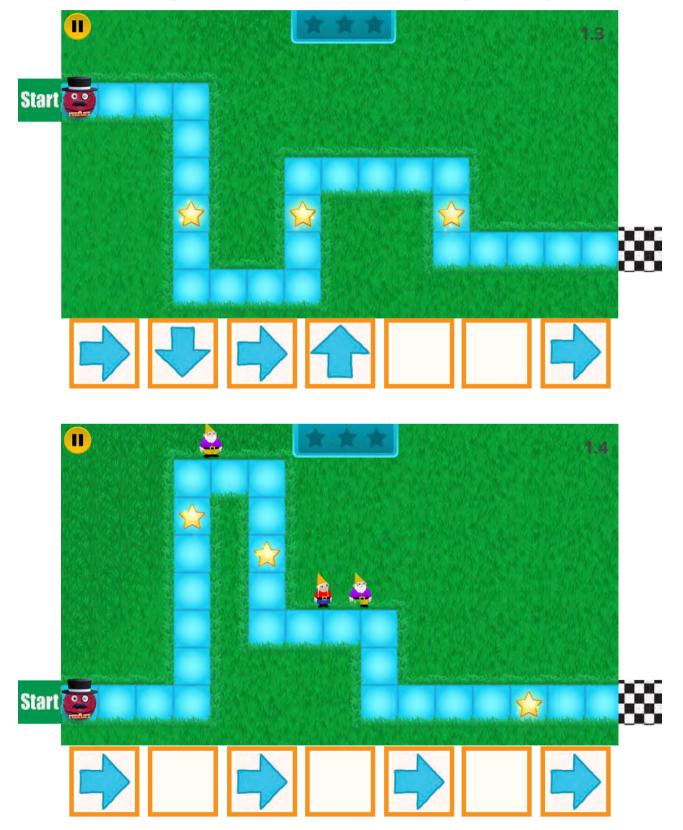
Draw the missing arrows to tell the fuzz which way to roll to get to the end of the maze.



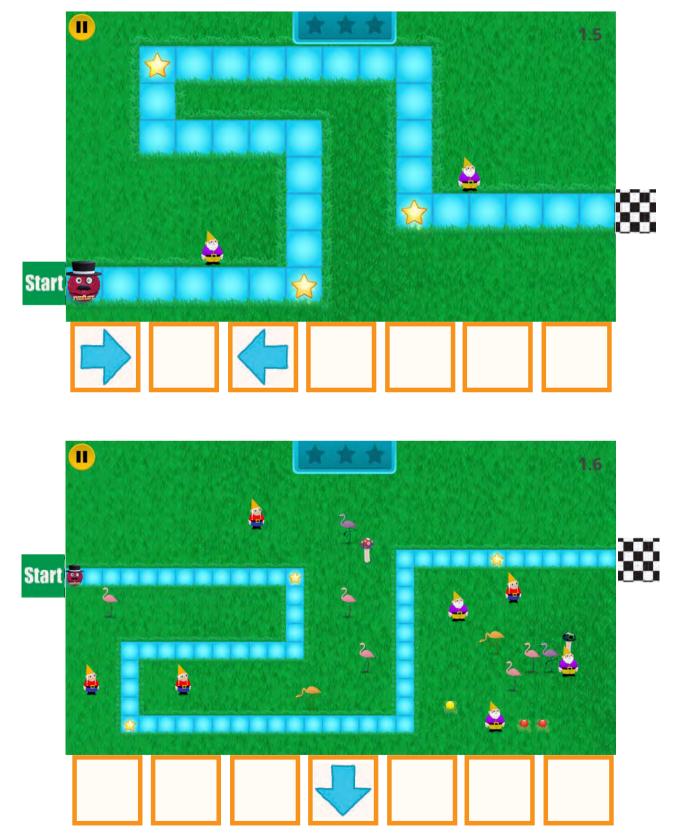
Now you try!

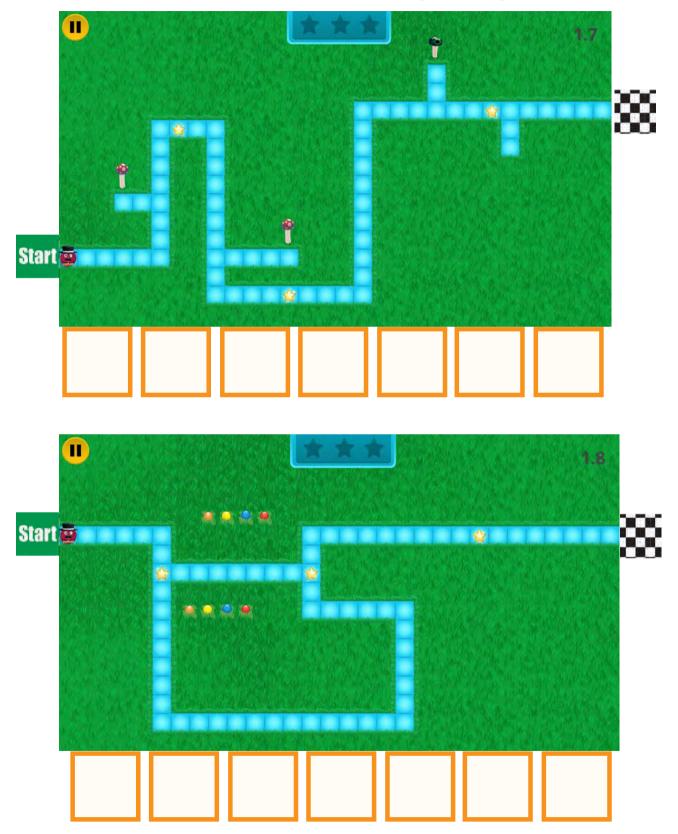


Draw the missing arrows to show the fuzz how to get through the maze

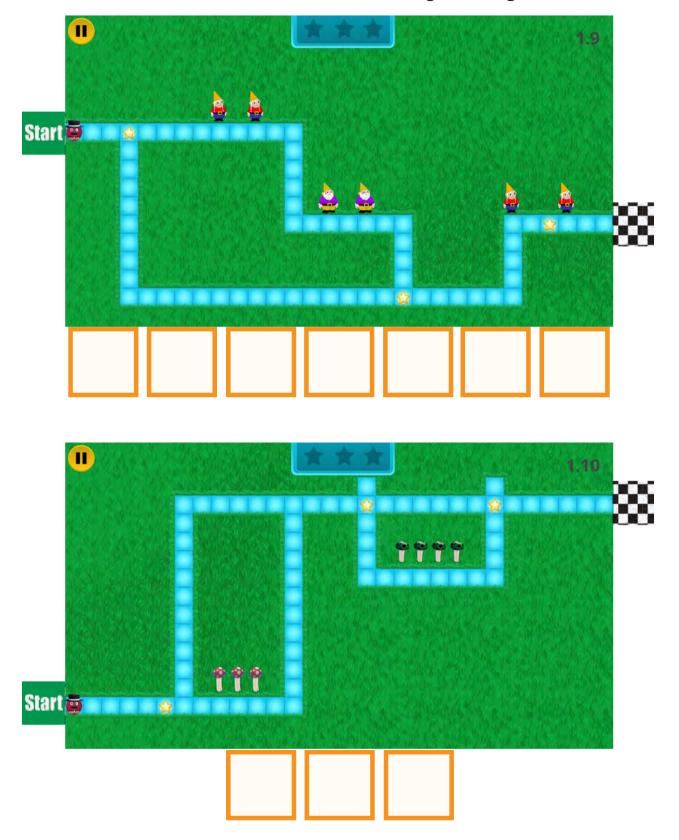


Draw the missing arrows to show the fuzz how to get through the maze





Draw the arrows to show the fuzz how to get through the maze.



Draw the arrows to show the fuzz how to get through the maze

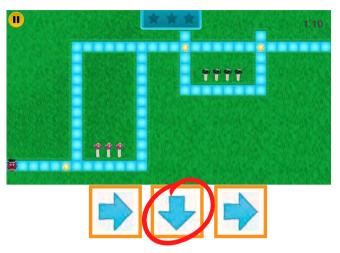


Example:

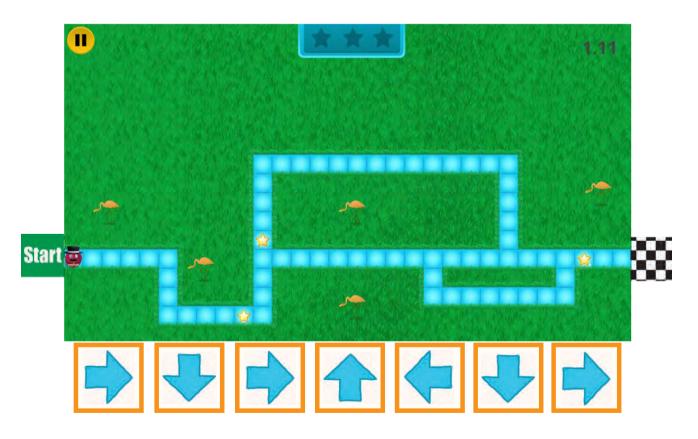
Directions:

One of the commands in the code below the maze is wrong.

Find the incorrect command and circle it.

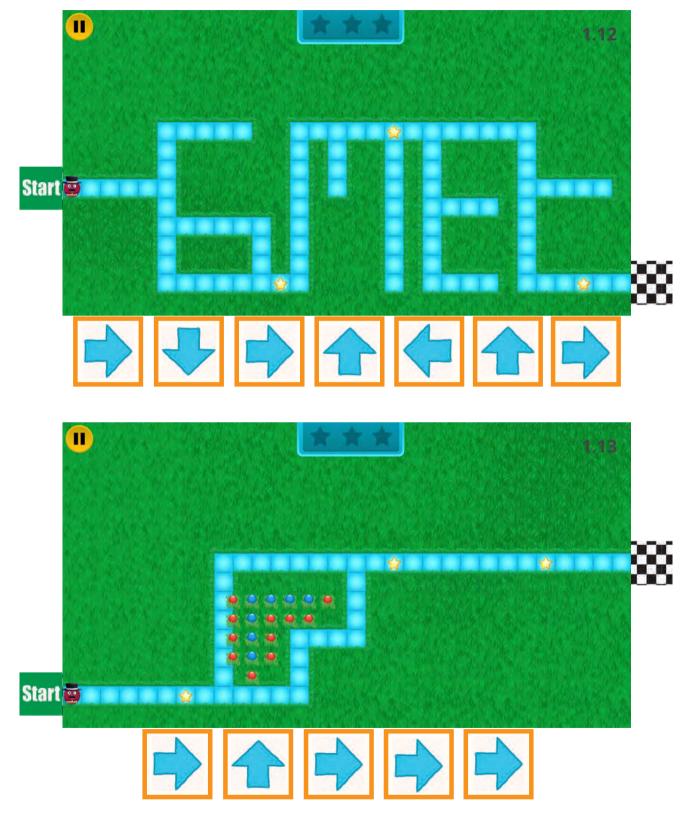


Now You Try!



Which of these commands is wrong?

Circle the command that is incorrect.





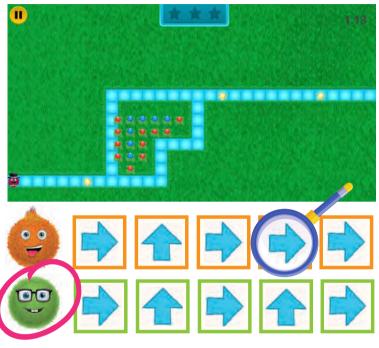
Directions:

One of the Fuzzes has the correct code to solve the maze.

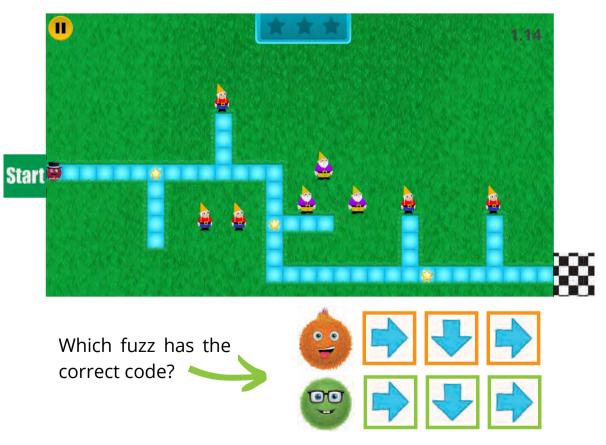
Circle the fuzz with the correct code!

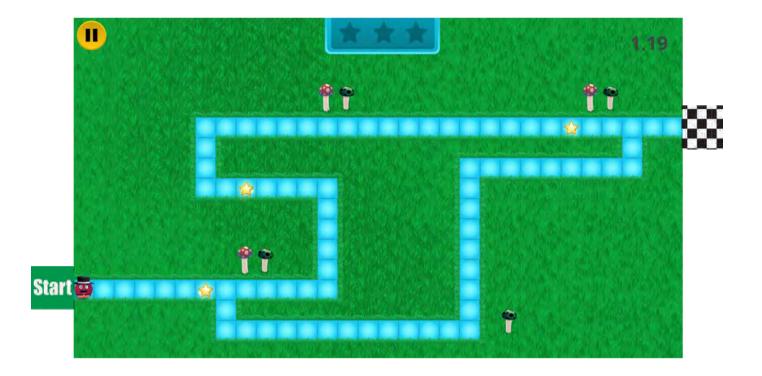
Your Name: _____

Example:

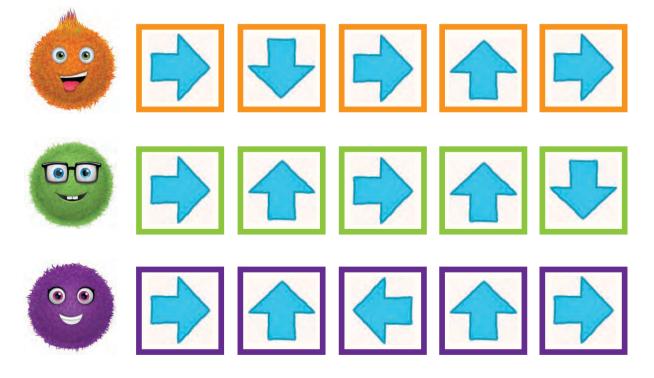


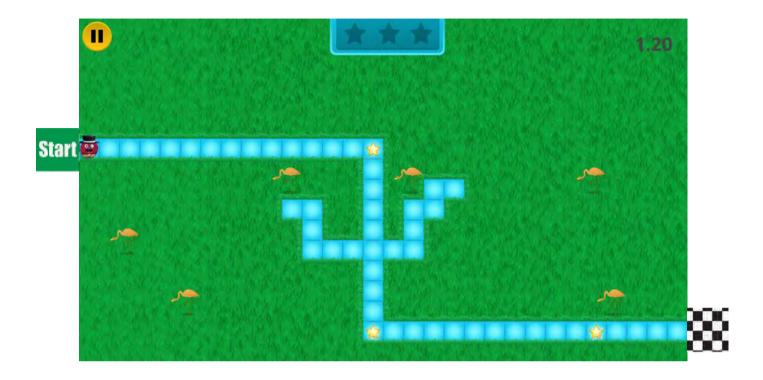
Now You Try!



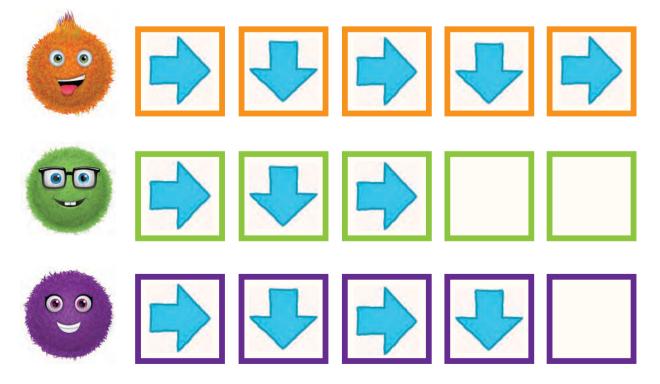


Circle the fuzz with the correct code!





Circle the fuzz with the correct code!



Beach Cleanup

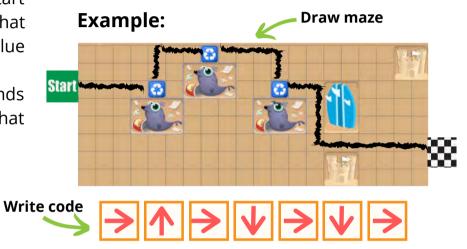
Directions:

- 1.Draw a path from the start tile to the end tile that connects with all the blue recycle tiles.
- 2. Write the arrow commands in the command bins that would solve the maze!

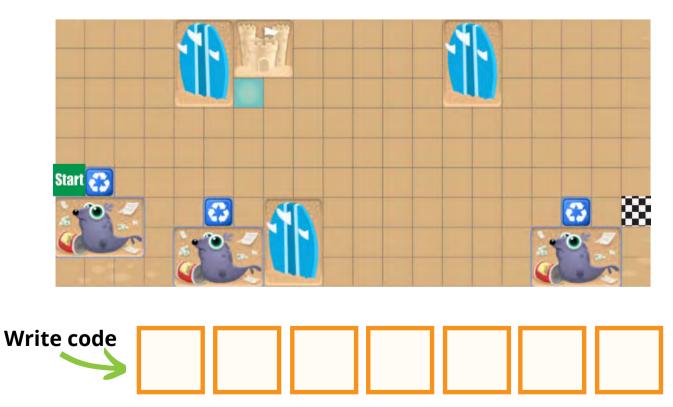
Your Name: _____

Maze Rules:

- Must connect with all the pieces of trash.
- Can't cross over any obstacles (objects or sea creatures)

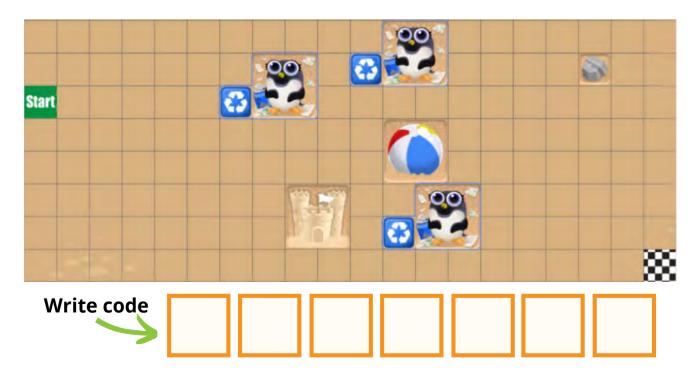


Now you try! Draw the path that connects the recycle tiles

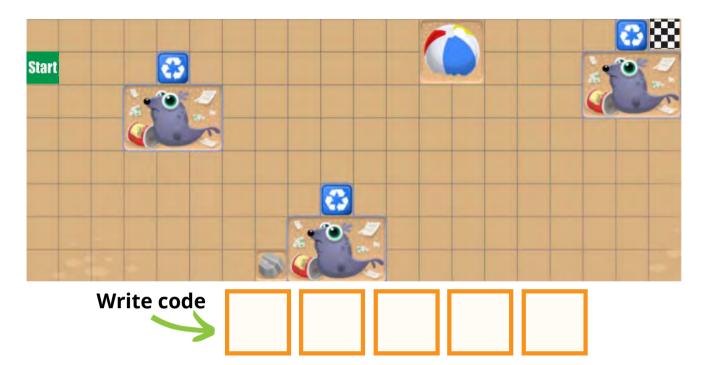


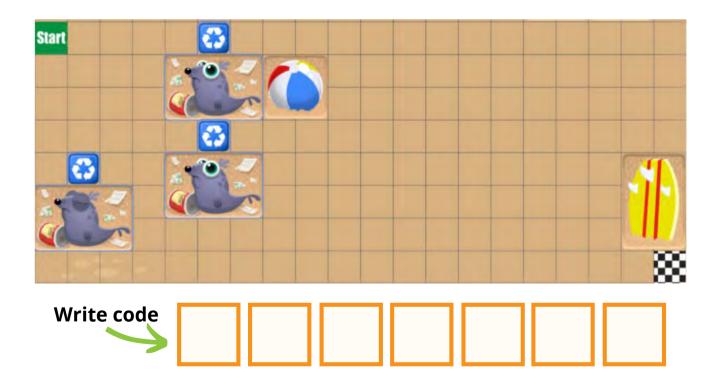


Draw the path that connects the recycle tiles



Draw the path that connects the recycle tiles

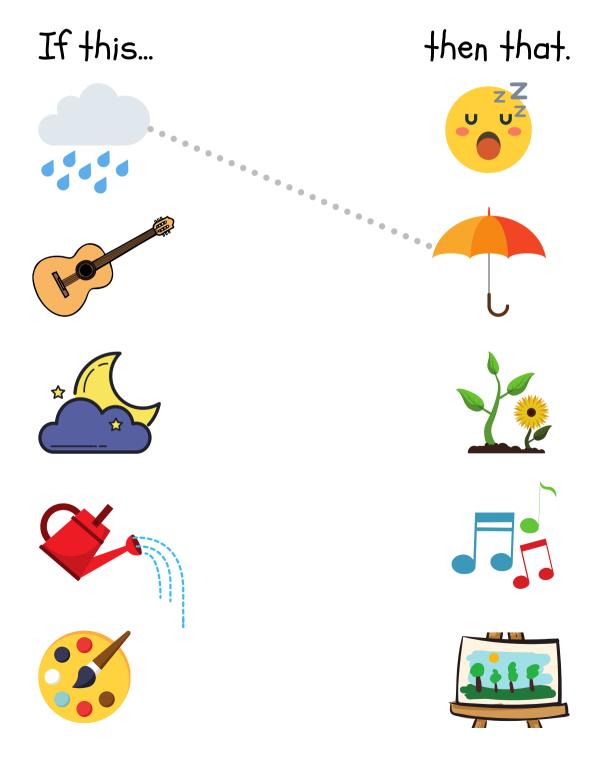




lf this, then that

Directions:

Draw a line from the condition on the left to the matching conclusion on the right!





Example:

Directions:

Complete each conditional statement.

Draw a picture to go along with it!

If you water the garden, **then**...



Now You Try!

IF you could breathe underwater, THEN...

What might happen? Finish the sentence

IF money grew on	trees,	THEN
------------------	--------	------

IF animals could talk, THEN...

Your	Name:	

Make up a couple of your own!

IF	, THEN
IF	_, THEN



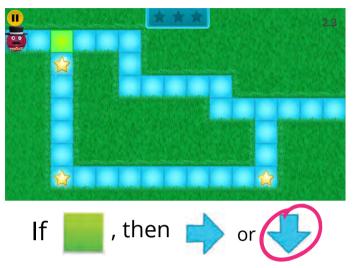
Your Name:

Example:

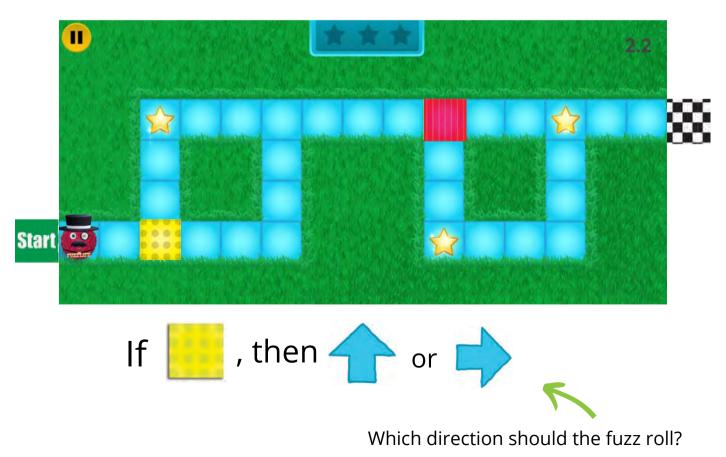
Directions:

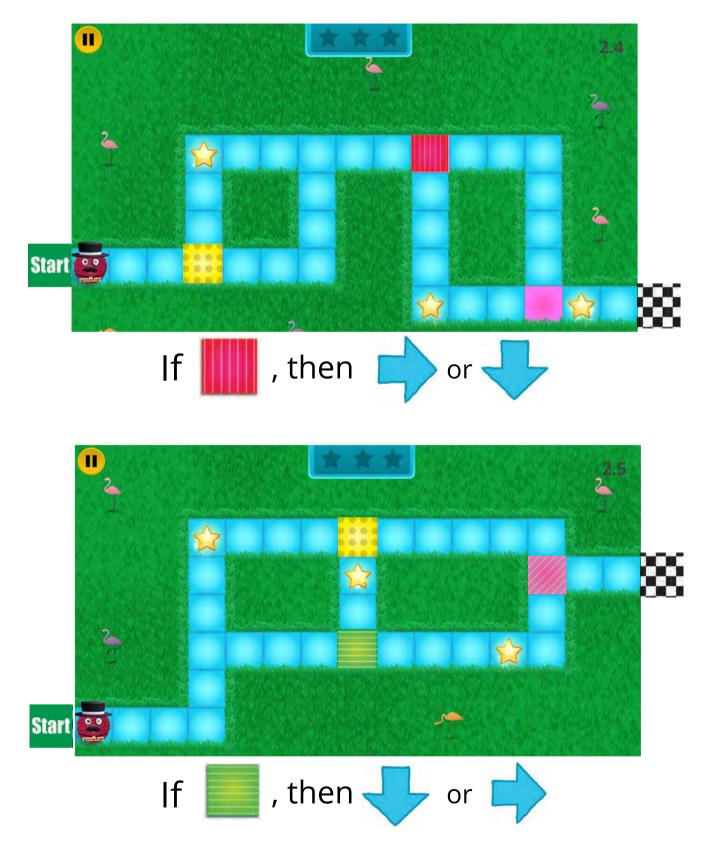
Which way should the Fuzz roll when it reaches the condition tile?

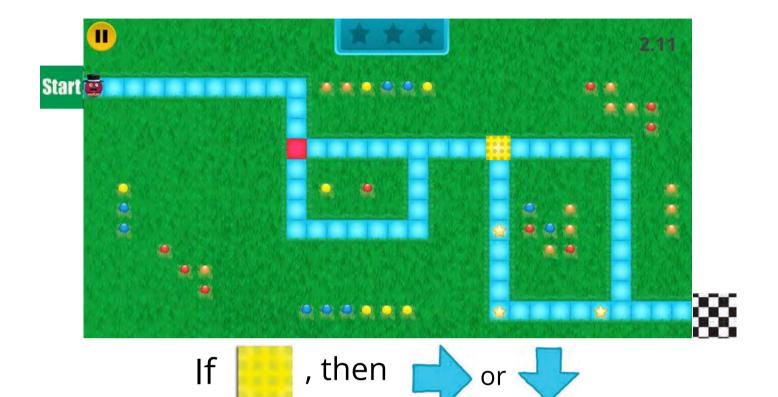
Circle the arrow command that will help the fuzz collect all the stars.

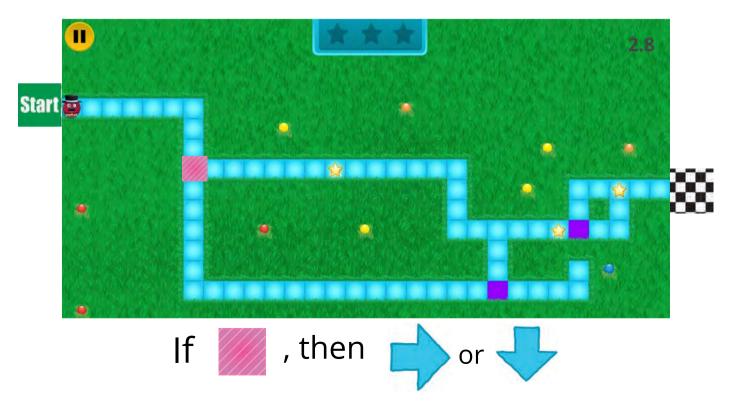


Now You Try!









Your Name: **Rules** Apply **Directions:** 1. Circle the rules 2. Put a rectangle around the **conditions**

Helpful Tips:

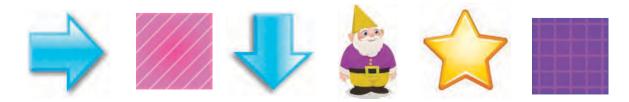
A **rule** is something that tells your program the direction to run.

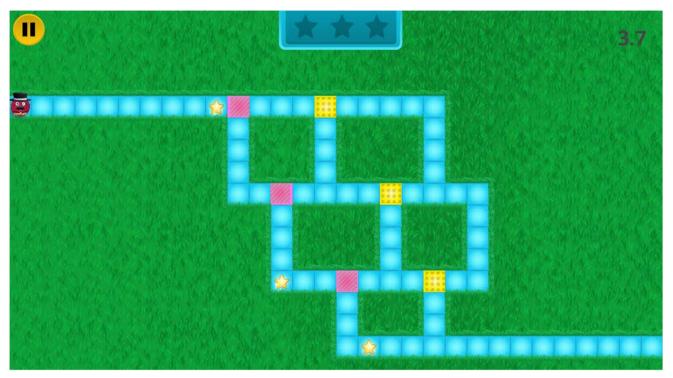
A condition is an exception to a rule. It tells your program to change directions.

Now You Try!



Circle the rules. Rectangle the conditions:





Circle the rules. Rectangle the conditions:



How do you decide which ones are **conditions** or **rules**? Explain:

Creative Conditions

Your Name: _____

Directions:

Pick an image and use it as inspiration to write a short story. What would happen next? It's up to you!

if... (choose an image)



then... (what happens next? Write your story in the space below)

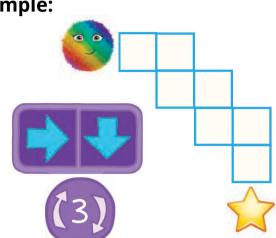
How Many Loops?

Example:

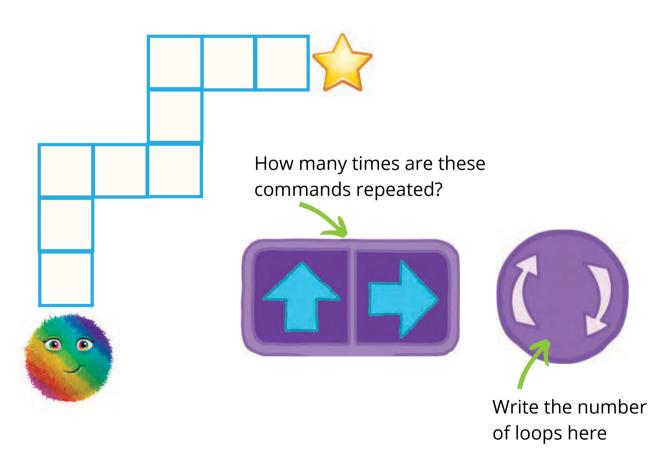
Directions:

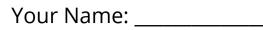
Help the fuzz reach the star!

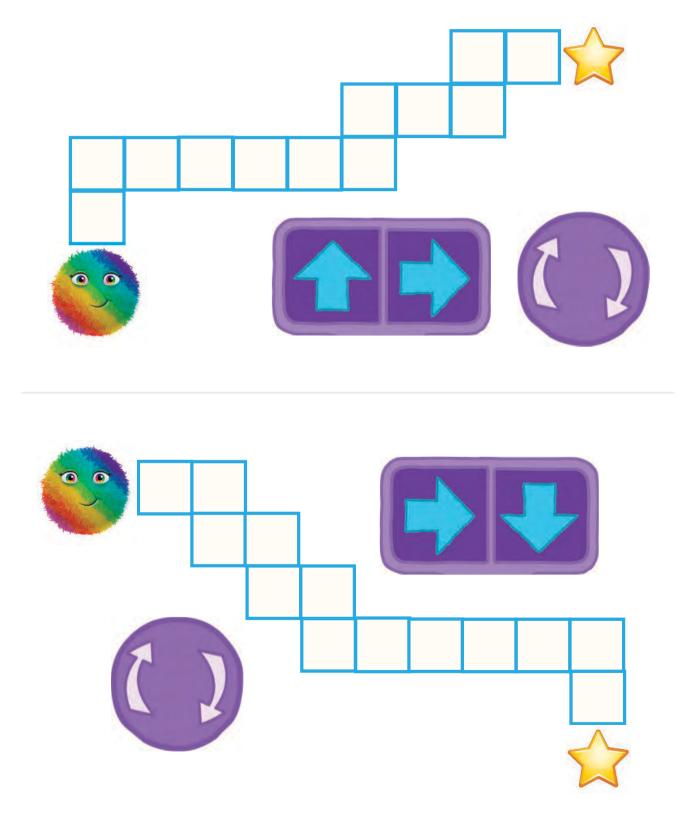
Write the number of times the fuzz needs to loop (repeat) the two commands.



Now You Try!



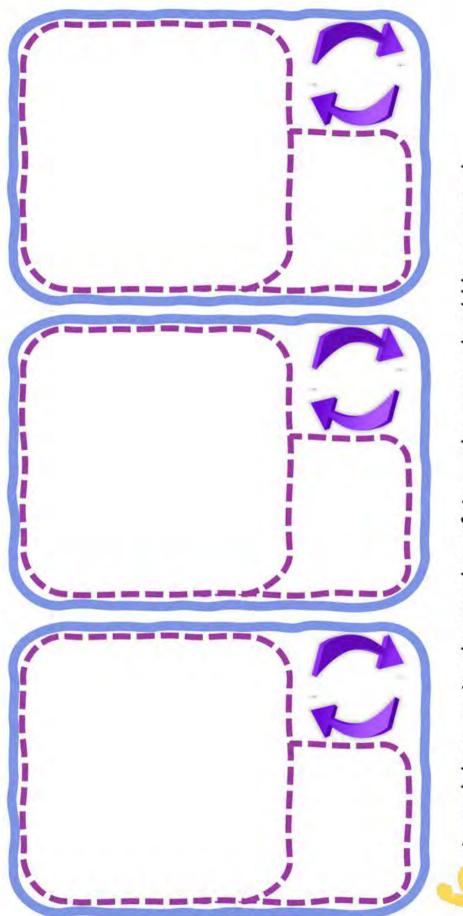






Name

Instructions: In the boxes below, draw or write out the 3 exercises in your routine:



In each loop, write the number of times the move should be repeated.

Share your program with a friend or family member to test it out!

Make changes to the loops as needed.

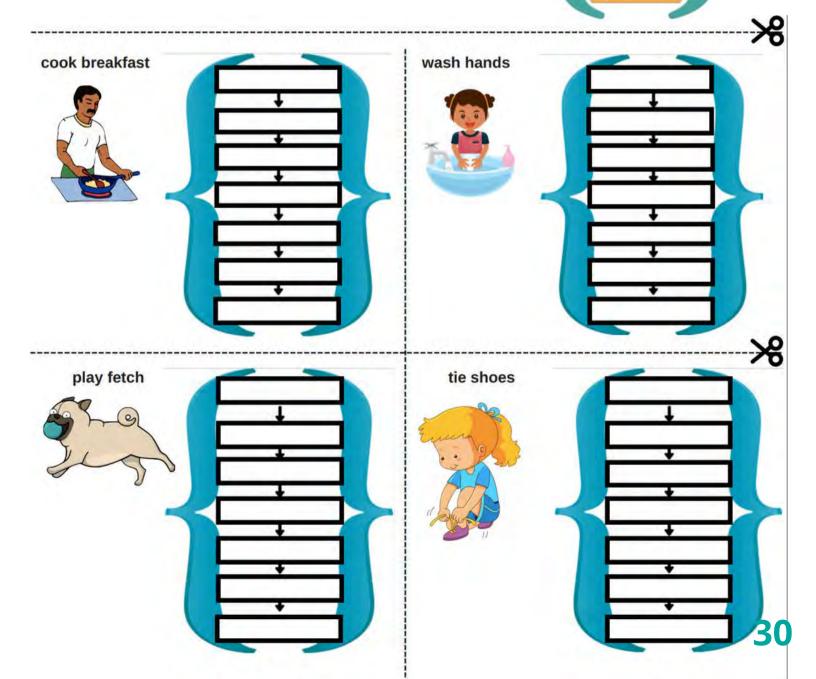


Familiar Functions

Example: criss-cross applesauce

Directions:

We've turned these daily routines into mental functions! Break down the steps for each task below.



Fashionable Functions

Instructions: Write the sequence of steps you follow when you get dressed on the lines below.

1	
2	
3	
4	
5	
	If your function ha more than
	steps, add more line

Asteroid Sort

Directions:

- 1. Cut out the asteroids
- 2. Look at their values

3. Sort the asteroids based on the values into the correct variable containers!



Strings:	Integers:
	31

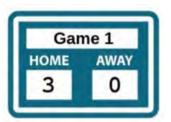
Math with Integers

Directions:

Use integer values to calculate the total goals and goal differential for each soccer game.

Your Name: _____

Example:

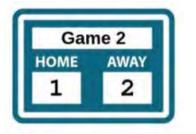


var **homeGoals** = 3 var **awayGoals** = 0

var **totalGoals** = **homeGoals** + **awayGoals**; // **totalGoals** will be **3**

var **diffGoals = homeGoals** - **awayGoals**; // **diffGoals** will be **3**

Now You Try!



var totalGoals = homeGoals + awayGoals;
 // totalGoals will be _____

var diffGoals = awayGoals - homeGoals;

// diffGoals will be _____



var **awayGoals** = ____



var **homeGoals** = ____ var **awayGoals** = ____ var totalGoals = homeGoals + awayGoals;
 // totalGoals will be _____

var diffGoals = awayGoals - homeGoals;
// diffGoals will be _____



Design your Hero

A **hero** can be a parent, sibling, grandparent, friend, teacher, coach, or anyone! What do you think makes someone a hero?

Meet Kara!

This is Kara. She is someone's hero! Her unique properties are defined in the JavaScript code below.

Directions:

Choose someone in your life you is a hero to you. Draw a picture of them and define their properties in the JavaScript template below.



_____ = new Hero () ;

hair =	
eyes =	
job =	
personality1 =	
personality2 =	
personality3 =	