

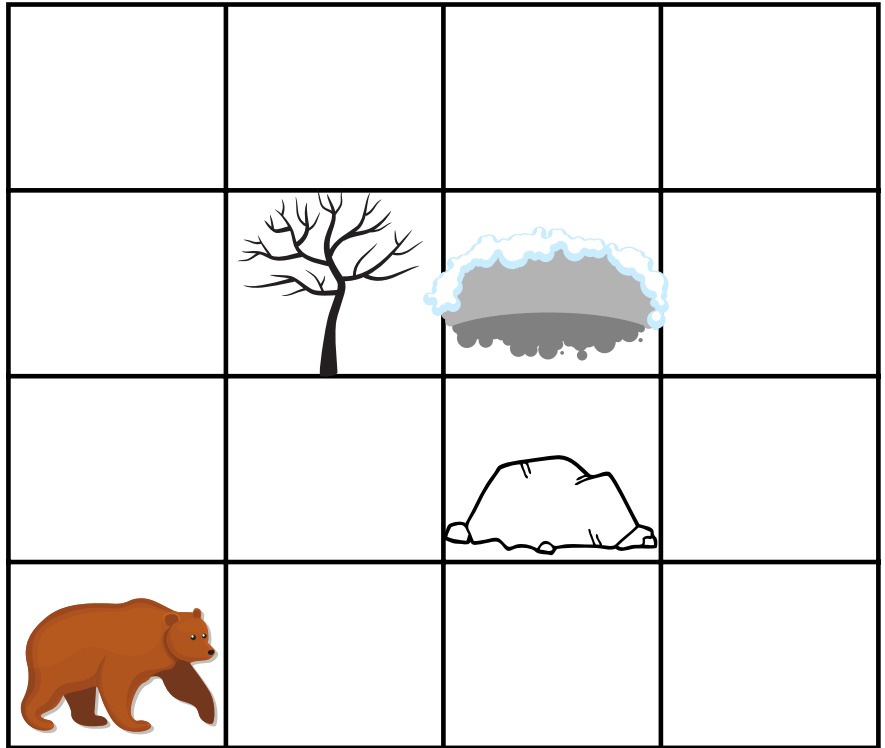
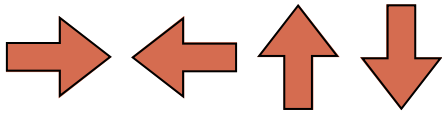
WINTER CODING

Help the bear get back to its den!

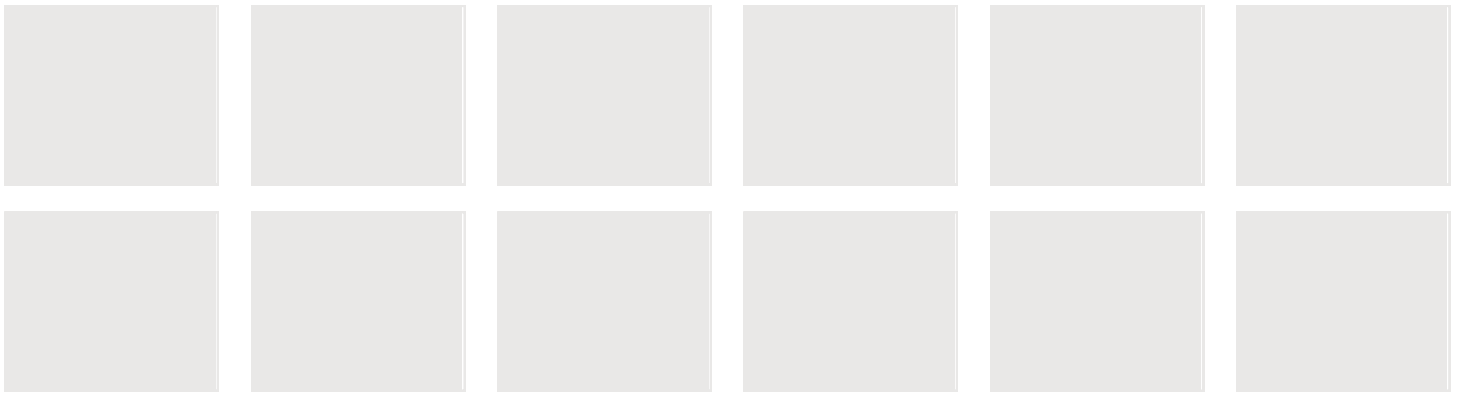
Directional Arrows

Draw the arrows on the mat to create the route for the bear to get back to its den.

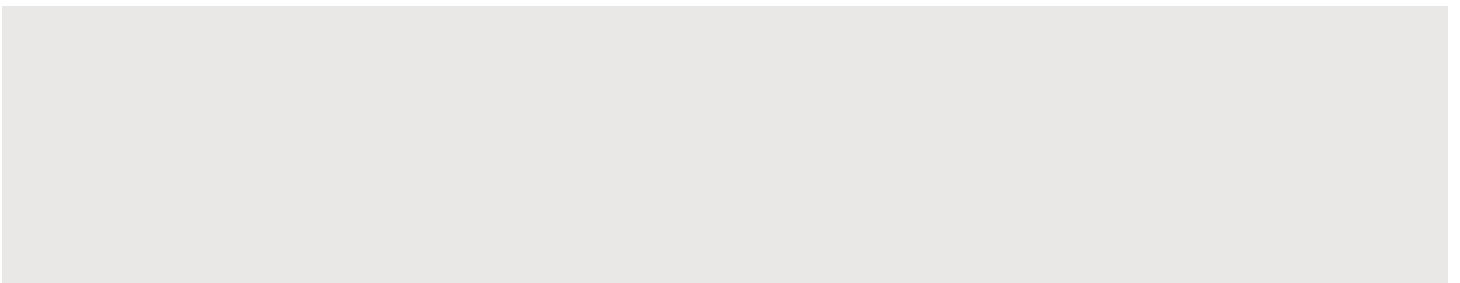
Make sure the bear goes around the tree and the rock!



1. What is the route with the least amount of moves?



2. What did you learn about coding?



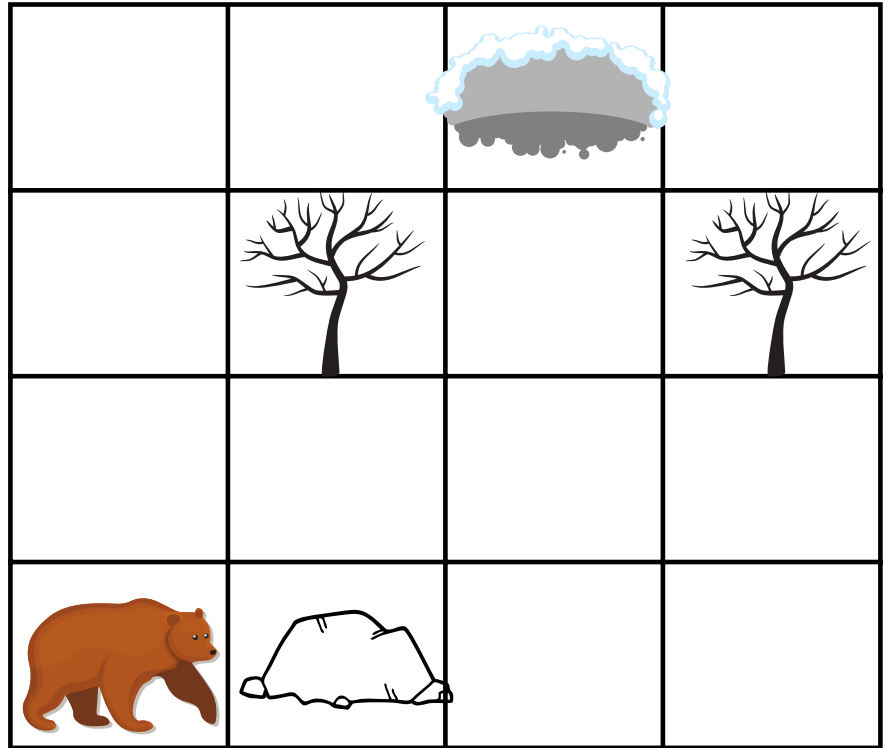
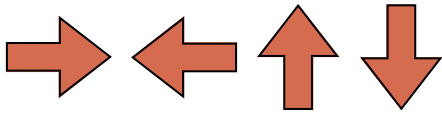
WINTER CODING

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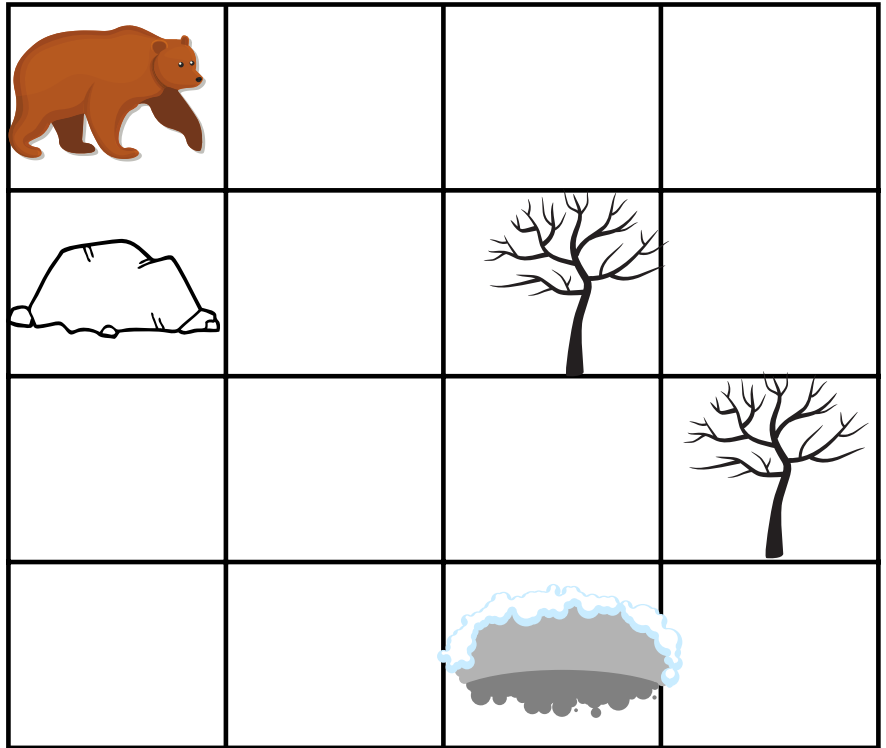
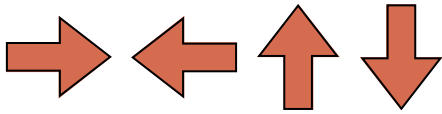
WINTER CODING

Help the bear get back to its den!

Directional Arrows

Draw the arrows on the mat to create the route for the bear to get back to its den.

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WINTER CODING

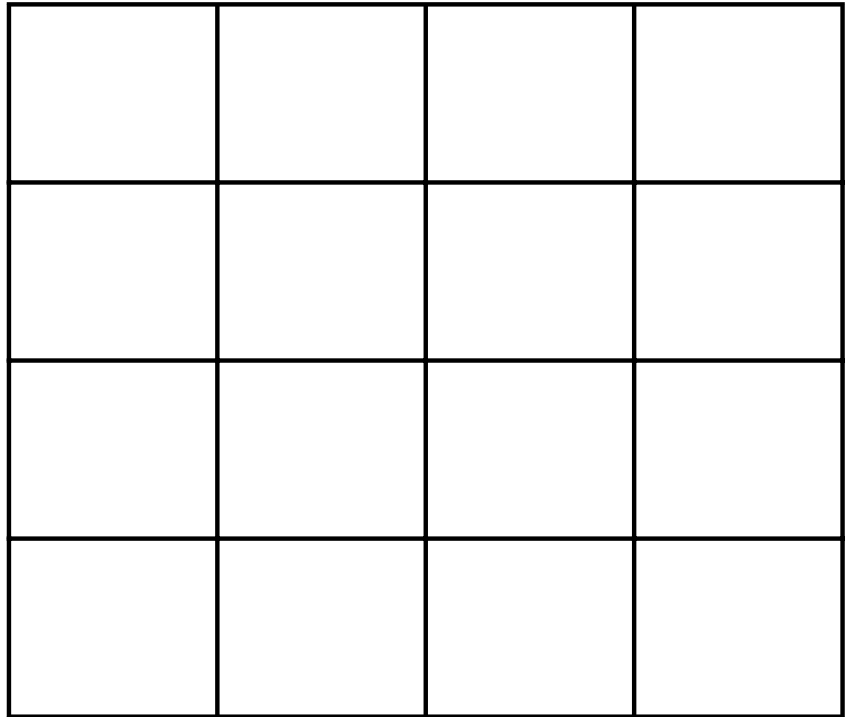
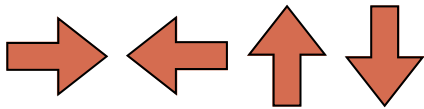
Make your own winter coding game!

Draw an animal of your choice in a starting square. Next, draw the animal's den or home in another square. Then, add two obstacles. Play your game!

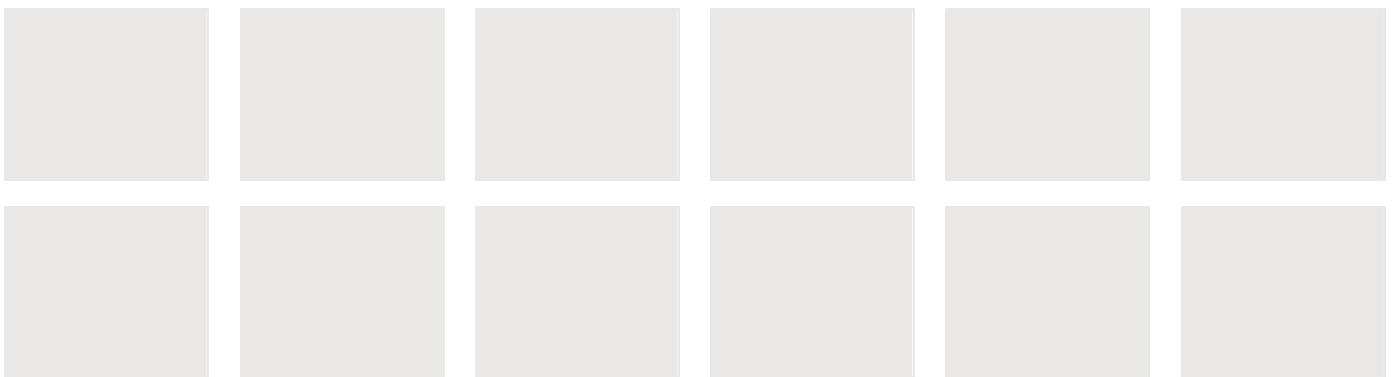
Directional Arrows

Draw the arrows on the mat to create the route for the animal to get back to its den.

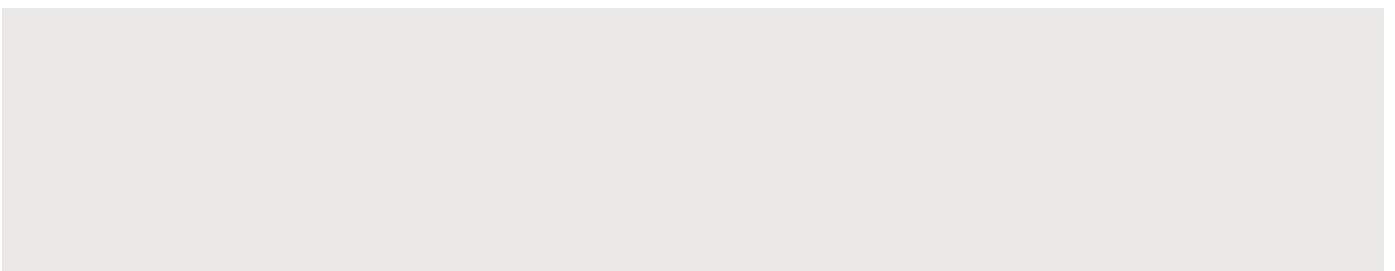
Make sure the animal goes around the obstacles!



1. What is the route with the least amount of moves?



2. What did you learn about coding?



CODING: BINARY BEAR

Use the binary code to name your bear!

The Binary code is a numerical system used by computers and is composed entirely of zeros and ones. The UTF-8 binary coding system uses a specific binary number for all 26 letters of the alphabet.

Binary Code Alphabet

A	01000001	N	01001110
B	01000010	O	01001111
C	01000011	P	01010000
D	01000100	Q	01010001
E	01000101	R	01010010
F	01000110	S	01010011
G	01000111	T	01010100
H	01001000	U	01010101
I	01001001	V	01010110
J	01001010	W	01010111
K	01001011	X	01011000
L	01001100	Y	01011001
M	01001101	Z	01011010

CODING: BINARY BEAR

Use the binary code to name your bear!

Directions: Use the binary code alphabet chart provided. Choose a name for your bear and write the letters vertically down the side of the paper—one letter per row. Then locate the appropriate code and write in one letter per box (see example below)! Now you've written your bear's name in binary code!

S: 0 1 0 1 0 0 1 1

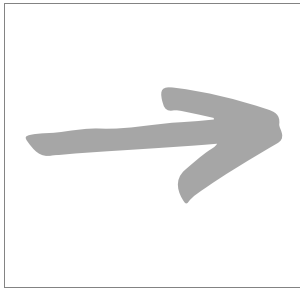
[illegible]

CODING: WINTER FUN

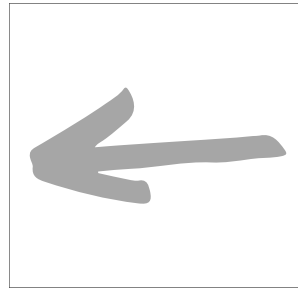
Hibernation time is near, but the bear needs your help!

Use code to help the bear find his or her den!

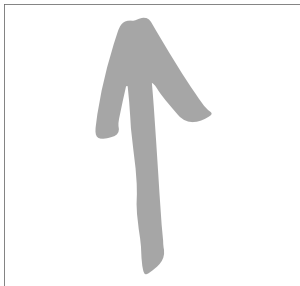
Left, right, up, and down arrows are used in algorithms. Algorithms are a series of actions or a sequence of actions strung together to solve a problem.



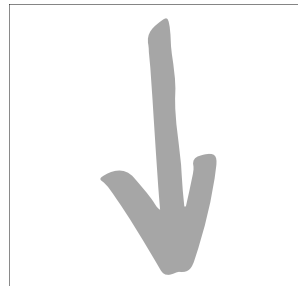
**Move
Right**



**Move
Left**

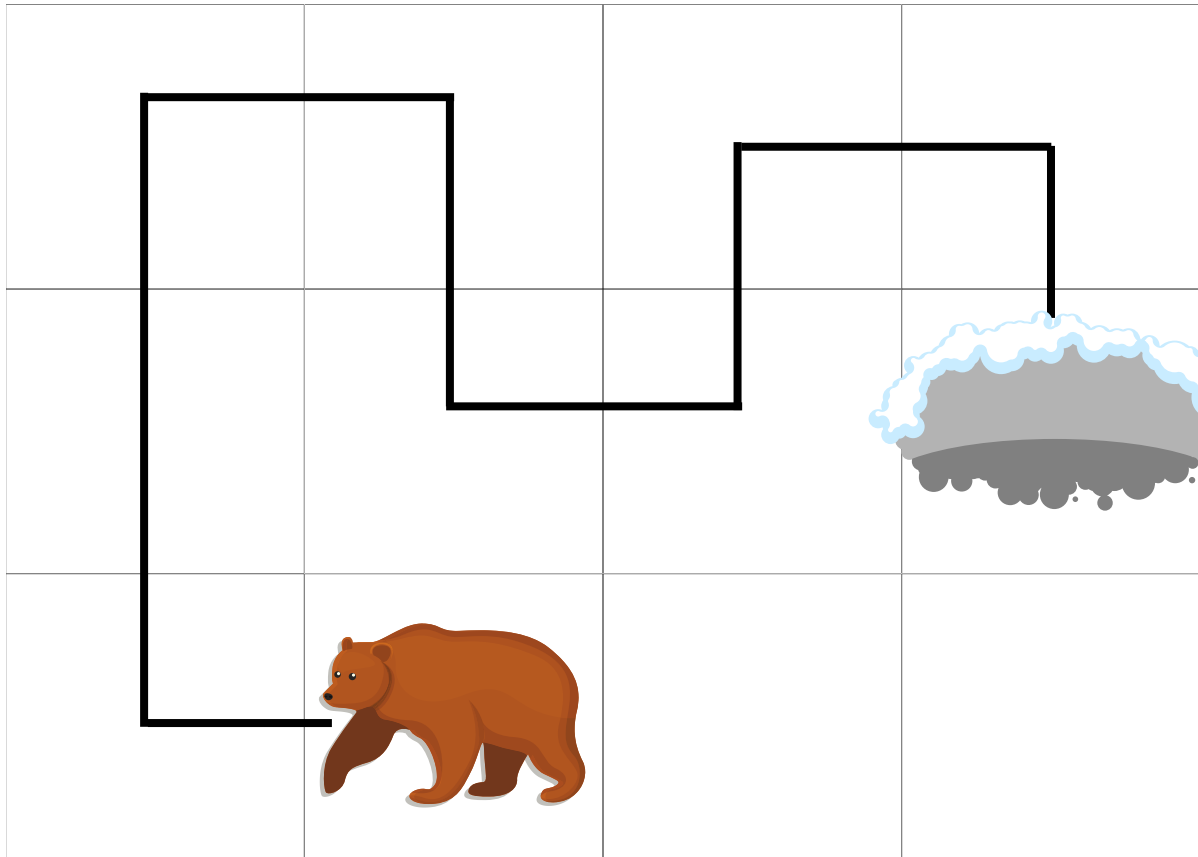


**Move
Up**

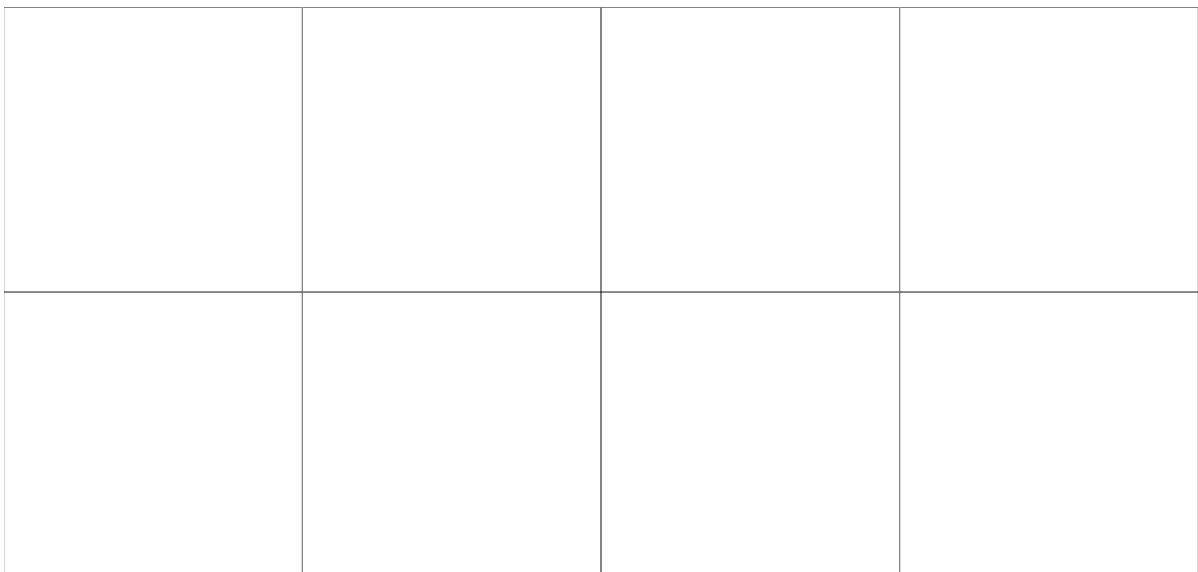


**Move
Down**

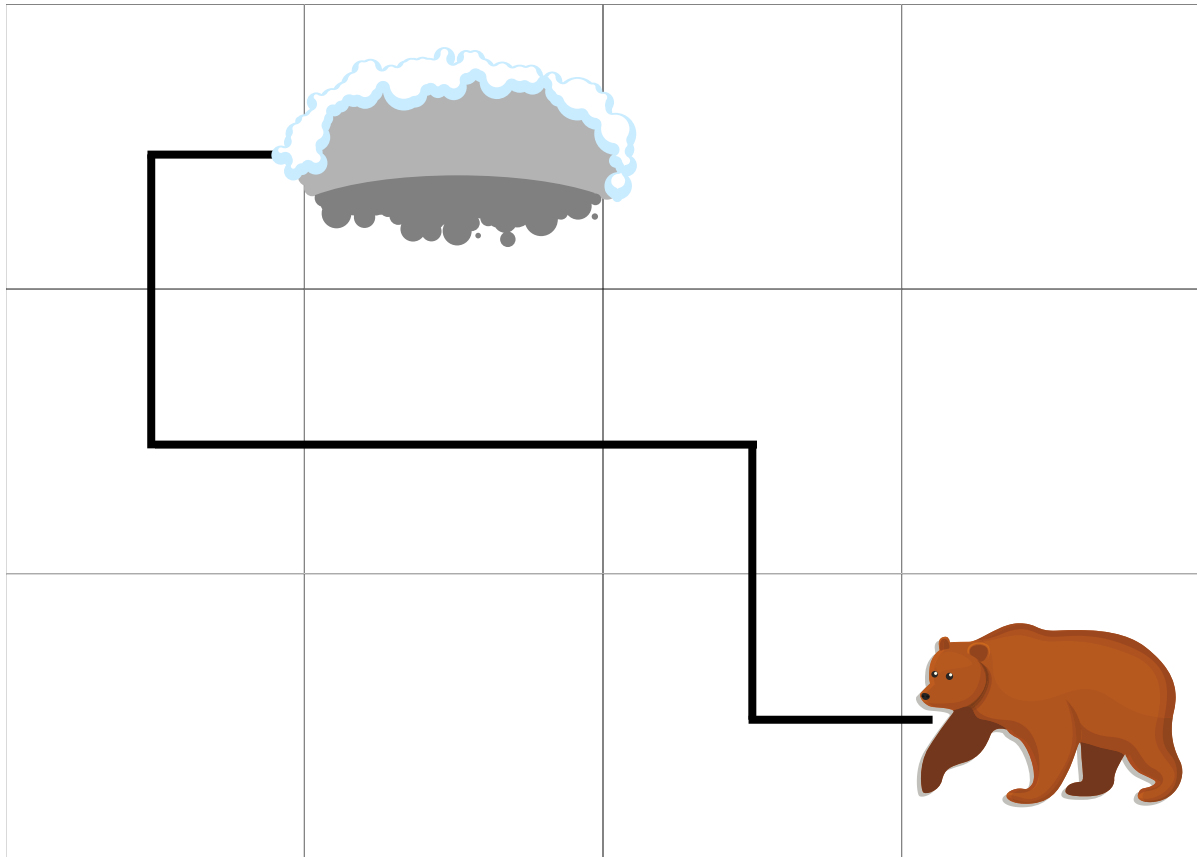
CODING: WINTER FUN



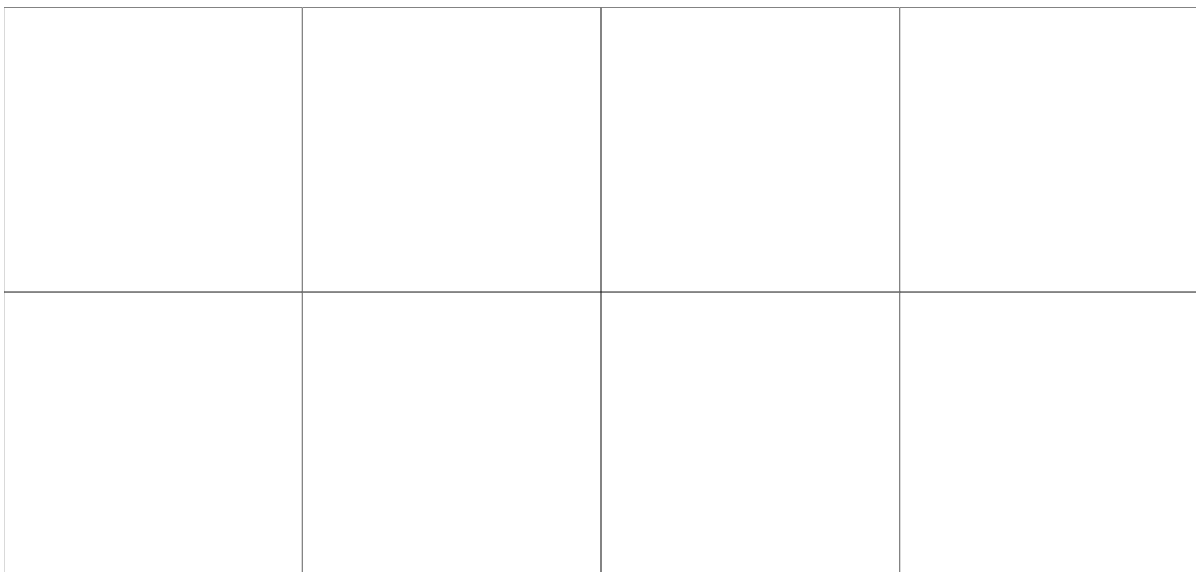
Draw arrow directions to help the bear find her den!



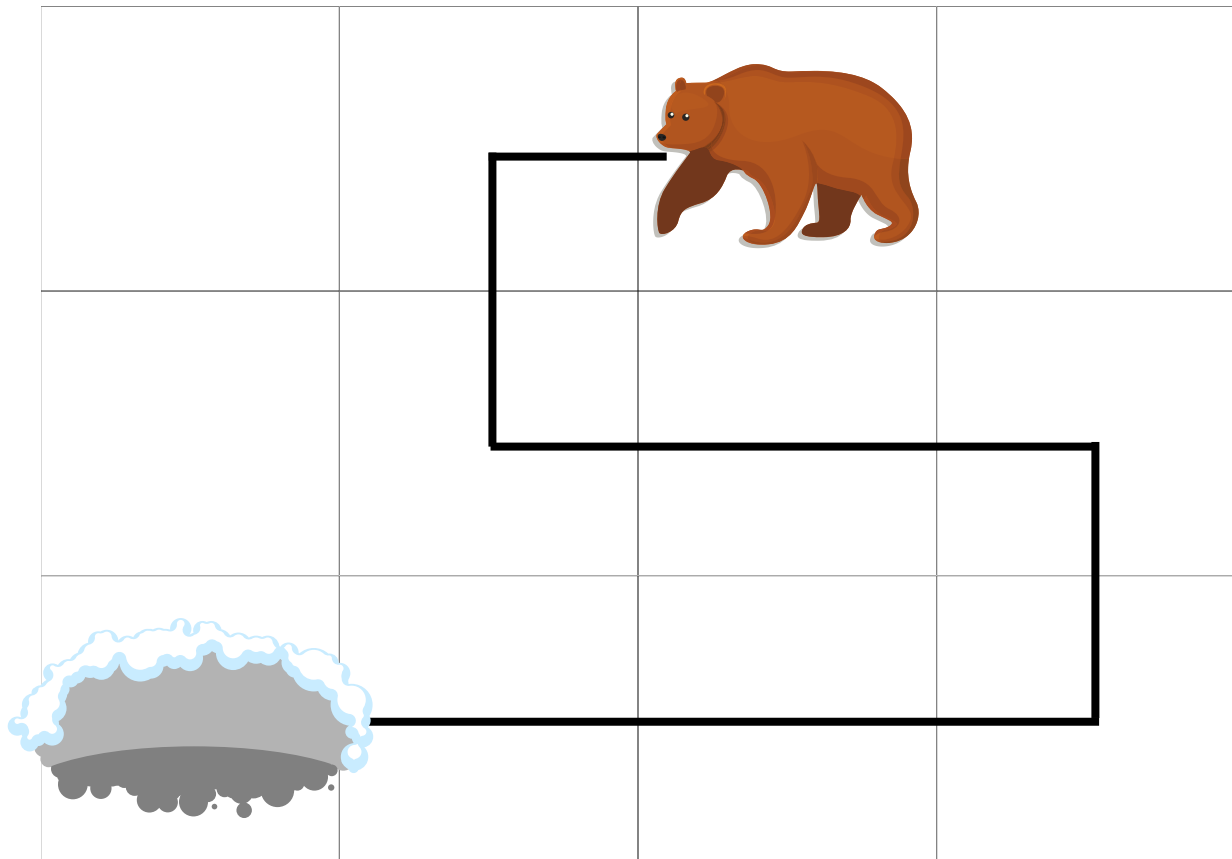
CODING: WINTER FUN



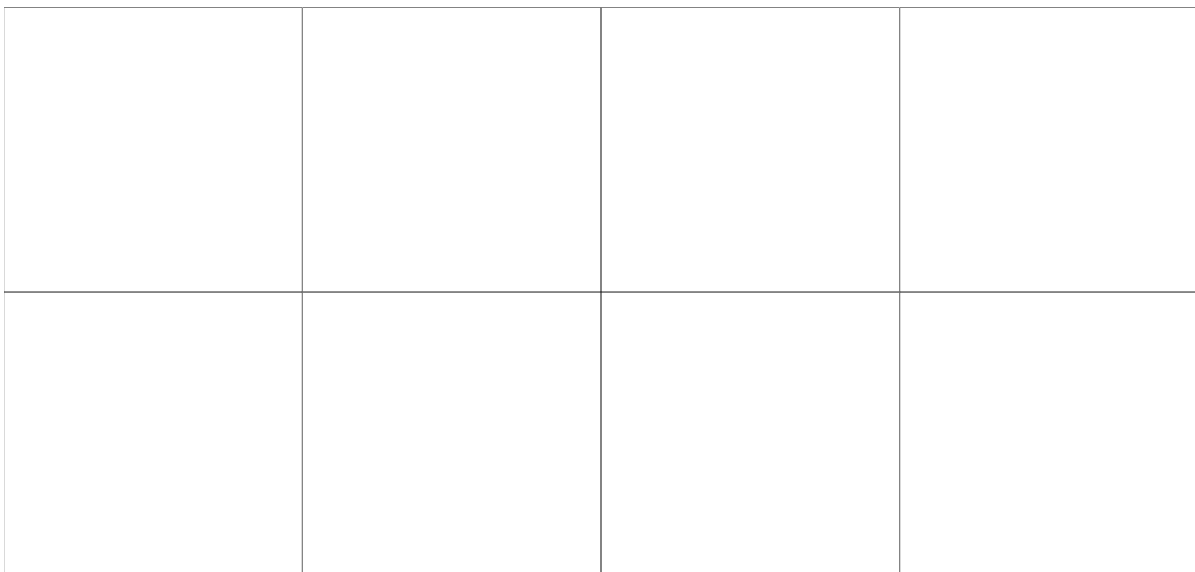
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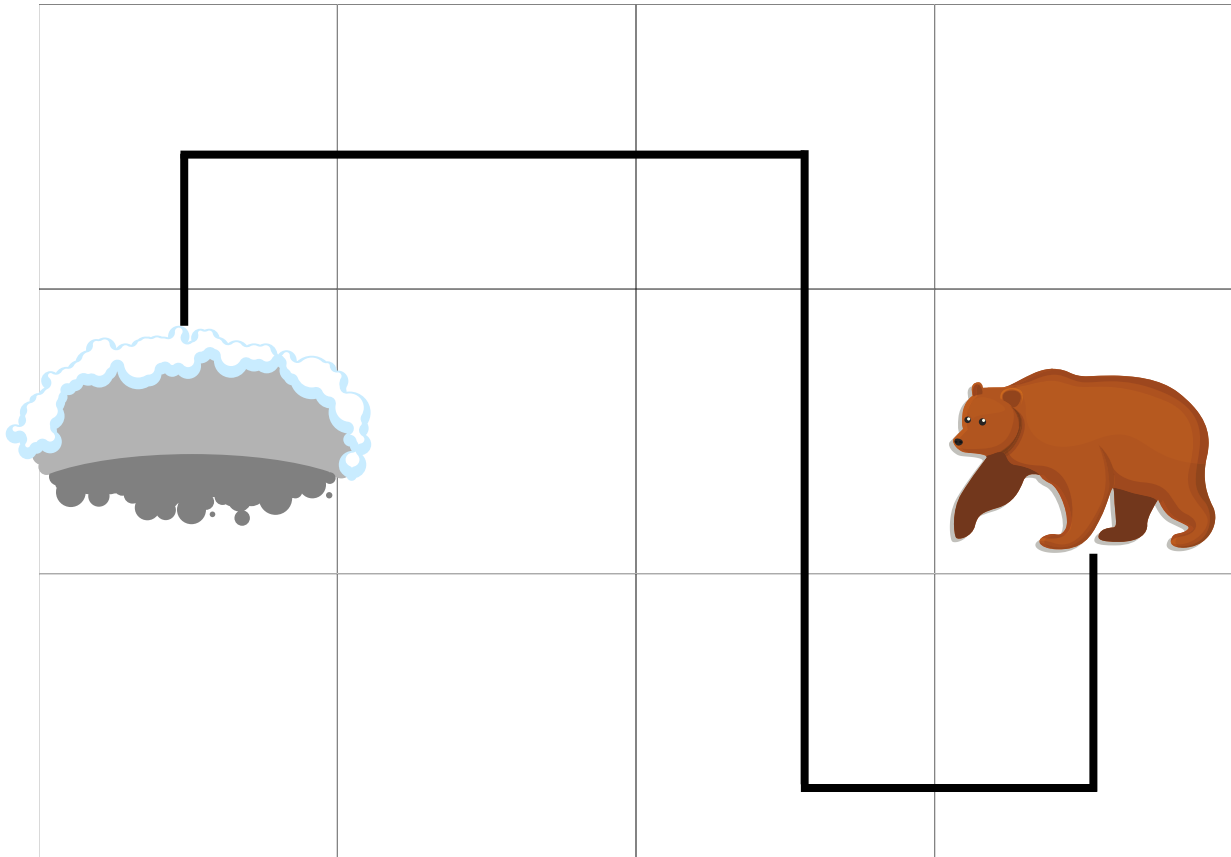
CODING: WINTER FUN



Draw arrow directions to help the bear find her den!



CODING: WINTER FUN



Draw arrow directions to help the bear find his den!

