Lesson 1 | Warmup

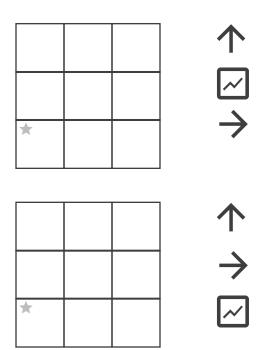
This is a Pixel Bots exercise. In Pixel Bots we will program bots to paint pictures using Code Elements.

Code Elements



Problem 1

Pixel Bot Read Code: You are a pixel bot. Read the code and paint the picture.



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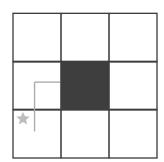
Lesson 1 | Worksheet 1

This is a Pixel Bots exercise. In Pixel Bots we program bots to paint pictures using Code Elements.

Code Elements

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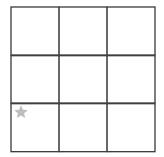
Example



Problems

You are a pixel bot. Read the code and paint the picture.

*	





Lesson 1 | Worksheet 1 (cont'd)

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Lesson 2

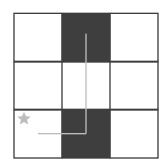
Lesson 2 | Warmup

This is a Pixel Bots exercise. In Pixel Bots we program bots to paint pictures using Code Elements.

Code Elements



Example



Problems

You are a pixel bot. Read the code and paint the picture.

*	

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5	\rightarrow	
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7	\downarrow	
8	\downarrow	
9	~	

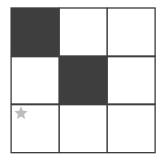


This is a Pixel Bots exercise. In Pixel Bots we program bots to paint pictures using Code Elements.

Code Elements



Problem



1		
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4 5 6		
6		



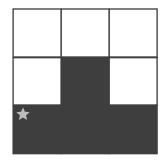
Lesson 3 | Warmup

This is a Pixel Bots exercise. In Pixel Bots we program bots to paint pictures using Code Elements.

Code Elements



Problem



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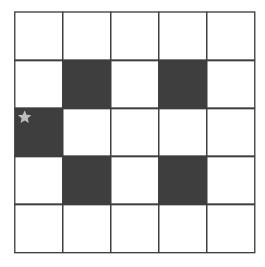


This is a Pixel Bots exercise. In Pixel Bots we program bots to paint pictures using Code Elements.

Code Elements

$$\downarrow$$
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Problem



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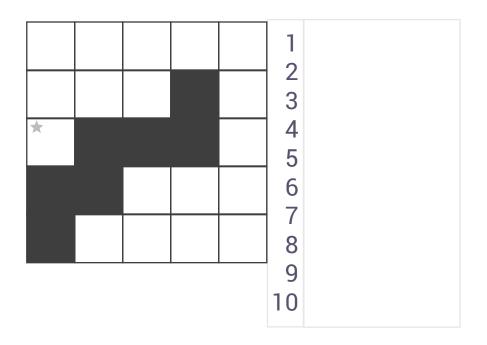


This is a Pixel Bots exercise. In Pixel Bots we program bots to paint pictures using Code Elements.

Code Elements



Problem



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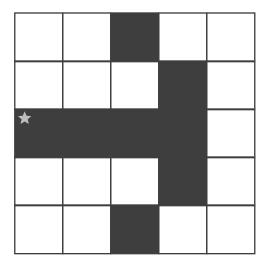


This is a Pixel Bots exercise. In Pixel Bots we program bots to paint pictures using Code Elements.

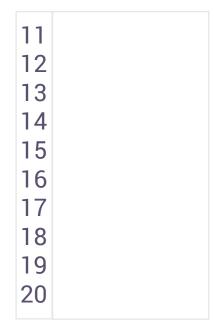
Code Elements



Problem



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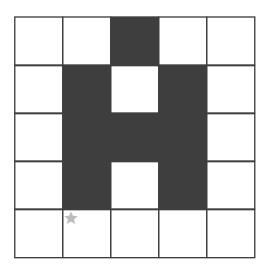


This is a Pixel Bots exercise. In Pixel Bots we program bots to paint pictures using Code Elements.

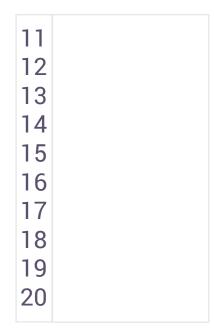
Code Elements



Problem



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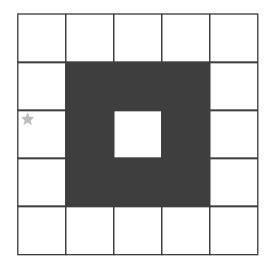
Lesson 3 | Exit Ticket

This is a Pixel Bots exercise. In Pixel Bots we program bots to paint pictures using Code Elements.

Code Elements



Problem



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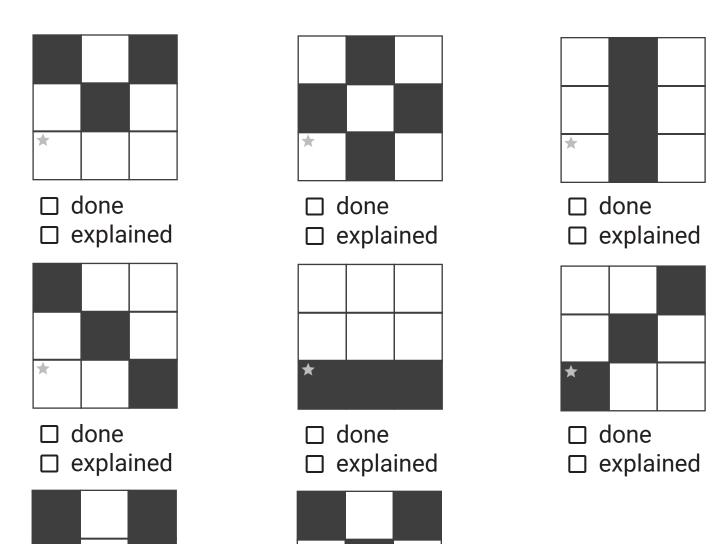
{}

Lesson 4 | Worksheet 1

This is an online Pixel Bots exercise. In Pixel Bots we program bots to paint pictures using Code Elements.

Problems

You are a coder. Write code to command the pixel bot to paint the pictures.





done

□ explained

done



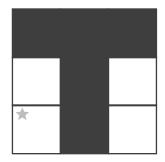
Lesson 4 | Exit Ticket

This is a Pixel Bots exercise. In Pixel Bots we program bots to paint pictures using Code Elements.

Code Elements

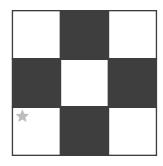


Problem



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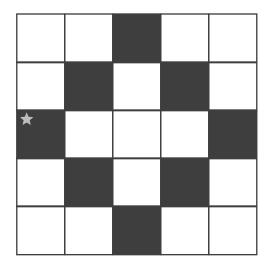
Lesson 6 | Warmup

This is a Pixel Bots exercise. In Pixel Bots we program bots to paint pictures using Code Elements.

Code Elements



Problem



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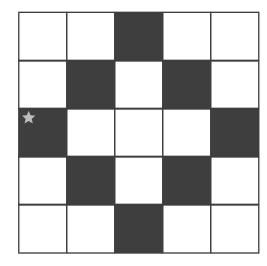


This is a Pixel Bots JavaScript exercise. In Pixel Bots we program bots to paint pictures using Code Elements.

Code Elements

```
up() down()
left() right()
paint()
```

Problem



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This is a Dance Bot exercise. In Dance Bot we program bots to dance.

Code Elements

```
up() down()
left() right()
spinLeft() spinRight()
wait()
```

Problem

You are a coder. Write code to command your bot to perform the same dance your teacher is doing.

1	16	
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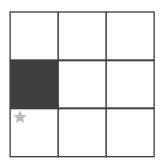
getCoding

{}

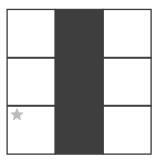
Lesson 7 | Worksheet 1

This is an online Pixel Bots exercise. In Pixel Bots we program bots to paint pictures using Code Elements.

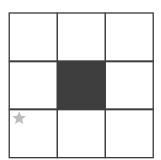
Problems



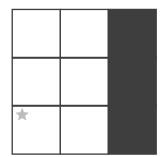
- □ done
- □ explained



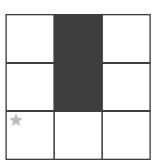
- □ done
- □ explained



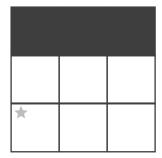
- ☐ done
- □ explained



- □ done
- \square explained



- □ done
- □ explained



- □ done
- □ explained

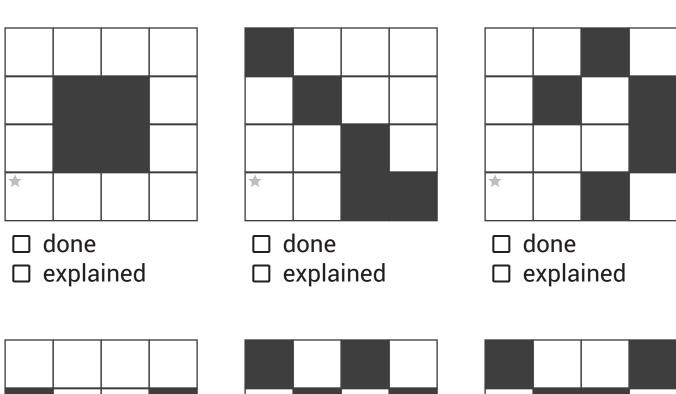


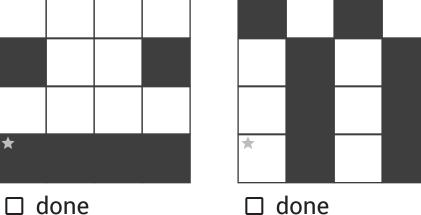


This is an online Pixel Bots exercise. In Pixel Bots we program bots to paint pictures using Code Elements.

Problems

□ explained









{}

Lesson 7 | Exit Ticket

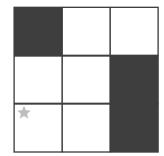
This is a Pixel Bots JavaScript exercise. In Pixel Bots we program bots to paint pictures using Code Elements.

Code Elements

```
up() down()
left() right()
paint()
```

Problems

- 1) Which of the following has a syntax error:
 - a. up()
 - b. down()
 - c. right)
 - d. left()
- 2) You are a coder. Write code to command the pixel bot to paint the picture.



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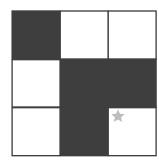
Lesson 8 | Warm-up

This is a Pixel Bots JavaScript exercise. In Pixel Bots we program bots to paint pictures using Code Elements.

Code Elements

```
up() down()
left() right()
paint()
```

Problems



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Lesson 8 | Exit Ticket

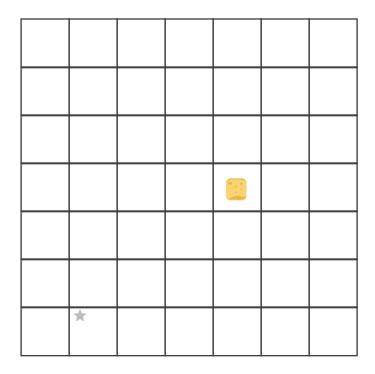
This is a Mouse Bot JavaScript exercise. In Mouse Bot we program the bot to eat the cheese.

Code Elements

faceUp() move()
faceRight() getCheese()

Problems

You are a coder. Assuming the Mouse Bot starts at the star facing the right, write code to get the cheese.



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Lesson 9 | Warm Up

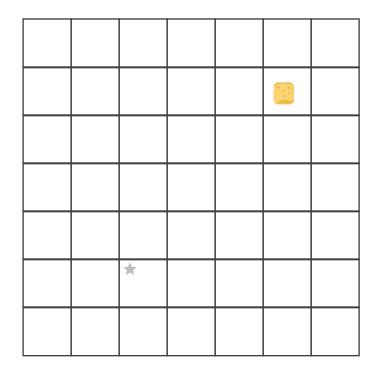
This is a Mouse Bot JavaScript exercise. In Mouse Bot we program the bot to eat the cheese.

Code Elements

```
faceUp() move()
faceRight() getCheese()
```

Problems

You are a coder. Assuming the Mouse Bot starts at the star facing the right, write code to get the cheese.



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Coders & Bots

Coders



Navigator: You are responsible for the overall plan for the program. Guide the Writer and keep track of what your program is doing.



Writer: Add code to your program. Pay attention to syntax.

Bots



Stepper. Step through the program and read each step aloud. Keep your finger on the step you are reading.



Actor: Listen carefully to each line of code the Stepper says aloud. Using the materials available, show what each line of code does.

Coding Paper

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getCoding

Coding Paper

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Small Pixel Grids





Medium Pixel Grids



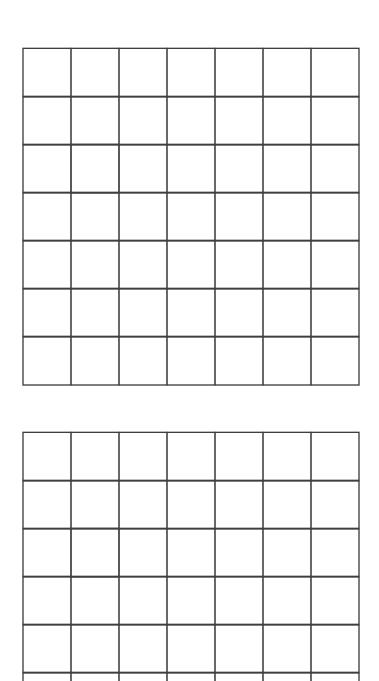








Large Pixel Grids







Challenge Problems - 1









Challenge Problems - 2

