#### Feedback - Quiz 7b

Help

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You submitted this quiz on **Sat 1 Nov 2014 10:07 PM WET**. You got a score of **100.00** out of **100.00**.

### **Question 1**

The class code provided for this week's mini-project supports an <a href="ImageInfo">ImageInfo</a> class to organize the data associated with the image. Consider an <a href="ImageInfo">ImageInfo</a> object of the following form:

ImageInfo([45, 45], [90, 90], 35)

What is the radius of the shape associated with this ImageInfo object?

#### You entered:

35

Your Answer		Score	Explanation
35	<b>~</b>	10.00	This is the radius of the circle used in computing collisions involving the shape.
Total		10.00 / 10.00	

### **Question 2**

Consider the provided ImageInfo and Sprite class code. Assume we want ten asteroids on the screen, each looking exactly alike and using the same image file. How many ImageInfo objects and how many Sprite objects should we create? **Your Answer** Score **Explanation** one ImageInfo object, one Sprite object (0) Since there is one image file, there should be one ImageInfo. 15.00 Since there are ten displayed asteroids, each potentially with its one ImageInfo own velocity and angle, there should be ten | Sprite | objects. object, ten Sprite objects ten ImageInfo objects, one Sprite object ten ImageInfo objects, ten Sprite objects Total 15.00 15.00

### **Question 3**

The version of *Rice Rocks* that we will implement uses only a single asteroid image and spawns multiple instances of the provided Sprite class using this image. In the original *Asteroids*, a large asteroid split into two medium asteroids which themselves split into two small asteroids.

If we only had one image and wanted to implement asteroids of varying sizes in our version, how *should* we do this?

# **Your Answer** Score Explanation Add a size attribute in the ImageInfo class and a size parameter to ImageInfo.\_\_init\_\_ . Use this attribute when drawing the sprite. 15.00 Adding a size attribute in the | Sprite | class allows Add a size attribute in the each instance of a sprite to have a different size that can use in the draw method for the sprite. Sprite class and a size parameter to Sprite.\_\_init\_\_ . Use the size attribute when drawing the sprite. Store a list of sizes for each asteroid in a global variable. Use the corresponding size when drawing a sprite. Store the size in a global variable. Use this variable when drawing a sprite. Total 15.00 15.00

## **Question 4**

What is the supported range of sound volumes in <a href="mailto:set\_volume">set\_volume</a>? You can find out in the CodeSkulptor documentation.

Your Answer	Score	Explanation
O -1 to 1		
O 1 to 100		
O to 10		
● 0 to 1	10.00	
Total	10.00 / 10.00	

## **Question 5**

Assume you have code that loads and plays a sound. Unfortunately, you don't hear anything. Which of the following could be a reason?

Your Answer		Score	Explanation
A file found with the given URL isn't a sound file recognized by your browser.	<b>~</b>	2.00	
You have set the volume level to 0.	<b>~</b>	2.00	
The given URL exists, but is inaccessible due to network problems.	~	2.00	
Your browser is loading a big sound file. Wait longer.	<b>~</b>	2.00	

No file is found with the given URL.	<b>✓</b> 2.00
Total	10.00 /
	10.00

## **Question 6**

Which of the following are valid HTML representations of the color blue?

Refer to this page on HTML color values.

* *	2.00 2.00 2.00	blanation
<b>~</b>	2.00	
•		
<b>~</b>	2.00	
<b>~</b>	2.00	
<b>~</b>	2.00	
	10.00 / 10.00	
	•	<b>✓</b> 2.00

## **Question 7**

Imagine we are writing code for something like *Rice Rocks*, where things are moving in 2D toroidal space, i.e., the wrap around all four sides of the screen. How can we eliminate the duplicated code in the following function?

```
def move(position, vector):
    """Moves the position by the given vector in 2D toroidal space."""
    position[0] = (position[0] + vector[0]) % SCREEN_SIZE[0]
    position[1] = (position[1] + vector[1]) % SCREEN_SIZE[1]
```

Your Answer		Score	Explanation
def move_dimension(dimension, position, vector):  """Moves the position component by the given v ector component in 1D toroidal space."""  position[dimension] = (position[dimension] + vector[dimension]) % SCREEN_SIZE[dimension]	~	4.00	
def move(position, vector):  """Moves the position by the given vector in 2D t oroidal space."""  move_dimension(0, position, vector) move_dimension(1, position, vector)			
NUM_DIMENSIONS = 2  def move(position, vector):  """Moves the position by the given vector in 2D t  oroidal space."""  for d in range(NUM_DIMENSIONS):  position[d] = (position[d] + vector[d]) % SCREE  N_SIZE[d]	•	4.00	
NUM_DIMENSIONS = 2  def move(position, vector):  for d in range(NUM_DIMENSIONS):  return position[d] = (position[d] + vector[d]) %  SCREEN_SIZE[d]	<b>~</b>	1.00	No, this doesn't have the same behavior.
def move(position, vector):    position = [(pos + vec) % size for pos in position f or vec in vector for size in SCREEN_SIZE]	<b>~</b>	1.00	No, this doesn't have the same behavior.
Total		10.00 / 10.00	

# **Question 8**

What is the *primary* reason for not duplicating code? It was the only reason mentioned in the Programming Tips #7 video.

	Score	Explanation
~	10.00	
	10.00 / 10.00	
	•	✓ 10.00

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What is Mike Massimino's greatest accomplishment?

<b>1</b> 0.00	Clearly this is a select group, but what about our course videos!
10.00	
/	