Feedback — Quiz 7b

Help

You submitted this quiz on **Sun 2 Nov 2014 11:59 PM IST**. 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 ImageInfo class to organize
the data associated with the image. Consider an ImageInfo object of the following form:

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

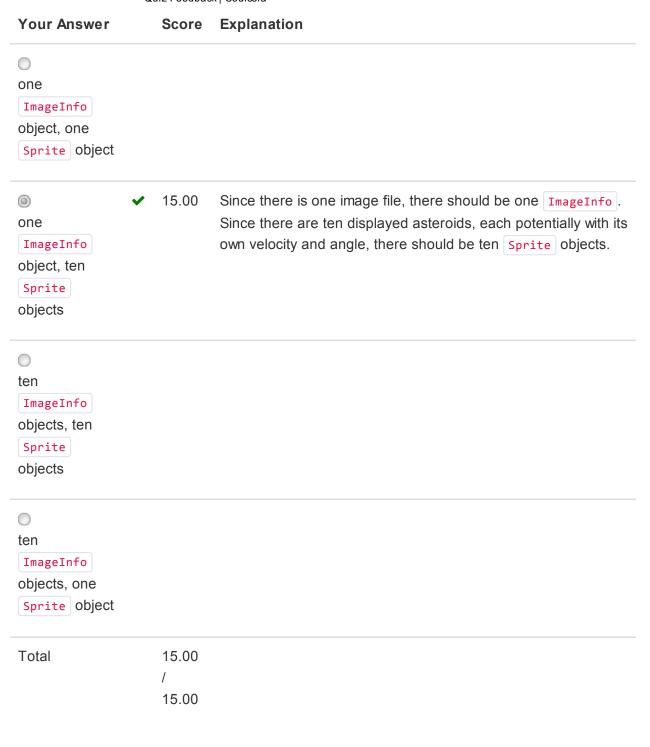
You entered:

35

Your Answer		Score	Explanation
35	~	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?



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 Sprite class and a size parameter to Spriteinit Use the size attribute when drawing the sprite.	*	15.00	Adding a size attribute in the Sprite class allows each instance of a sprite to have a different size that can use in the draw method for the sprite.
Add a size attribute in the ImageInfo class and a size parameter to ImageInfoinit Use this 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 set_volume? You can find out in the

CodeSkulptor documentation.

Your Answer		Score	Explanation
0 to 10			
1 to 100			
⊚ 0 to 1	~	10.00	
-1 to 1			
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
Your browser is loading a big sound file. Wait longer.	✓ 2.00	
You have set the volume level to 0.	✓ 2.00	
A file found with the given URL isn't a sound file recognized by your browser.	✔ 2.00	
No file is found with the given URL.	✓ 2.00	
The given URL exists, but is inaccessible due to network problems.	✓ 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.

	Score Explanation 2.00 2.00 2.00 2.00
~	2.00
~	2.00
~	2.00
~	2.00
	10.00 / 10.00
	~

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
	~	1.00	Invalid Python.
def move(position, vector):			

```
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  """Moves the position by the given vector in 2D t
oroidal space."""
  position = (position + vector) % SCREEN SIZE
                                                           1.00
                                                                     No, this doesn't have the
def move(position, vector):
                                                                     same behavior.
  position = [(pos + vec) % size for pos in position
for vec in vector for size in SCREEN_SIZE]
1
                                                           4.00
def move_dimension(dimension, position, vector):
  """Moves the position component by the given ve
ctor component in 1D toroidal space."""
  position[dimension] = (position[dimension] + vect
or[dimension]) % SCREEN SIZE[dimension]
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)
                                                           4.00
1
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]) % SCRE
EN_SIZE[d]
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.

Your Answer Score Explanation

It leads to faster code.

You only need to get the code correct once.	✓ 10.00
It takes less time to write the code.	
Total	10.00 / 10.00

What is Mike Massimino's greatest accomplishment?				
Your Answer	Score	Explanation		
○ Fixing the Hubble Space Telescope in space				
Receiving his PhD from MIT				
 Appearing on An Introduction to Interactive Programming in Python 				
○ Being the first person to use Twitter in space				
Appearing on The Big Bang Theory	✓ 10.00	Yeah, we wish we could meet Sheldon Cooper, too.		
Total	10.00 /			
	10.00			