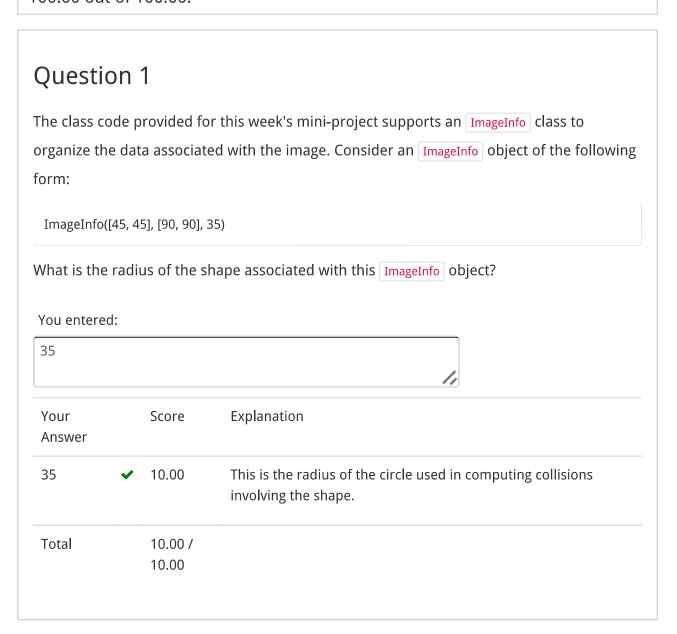
Feedback — Quiz 7b

Help Center

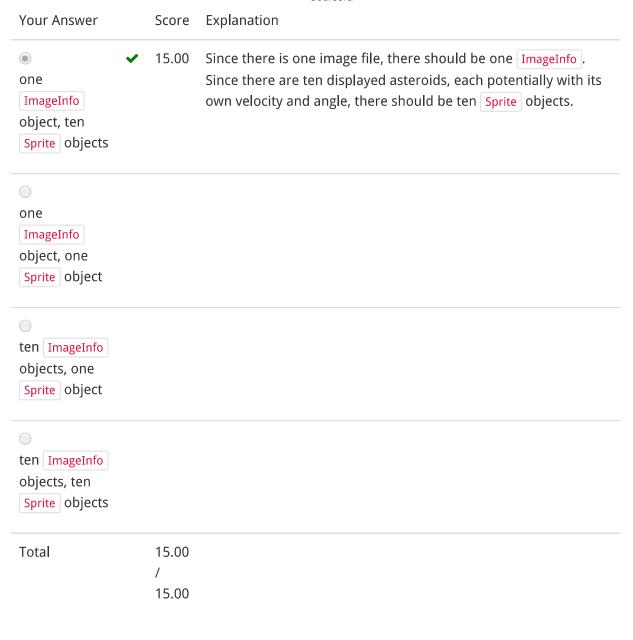
Thank you. Your submission for this quiz was received.

You submitted this quiz on Sat 5 Mar 2016 6:42 PM PST. You got a score of 100.00 out of 100.00.



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

Store the size in a global variable. Use this variable

when drawing a sprite. Store a list of sizes for each asteroid in a global variable. Use the corresponding size when drawing a 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 Sprite class and a size that can use in the draw method for the sprite. parameter to Sprite.__init__ . Use the size attribute when drawing the sprite. Add a size attribute in the ImageInfo class and a size parameter to ImageInfo.__init__ . Use this attribute when drawing the sprite. Total 15.00

Question 4

What is the supported range of sound volumes in set_volume? You can find out in the CodeSkulptor documentation.

15.00

Your Answer	Score	Explanation
0 to 10		
● 0 to 1	10.00	
1 to 100		
-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
✓	~	2.00	
No file is found with the given URL.			
✓	~	2.00	
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	
The given URL exists, but is inaccessible due to network problems.			
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.

Your Answer		Score	Explanation
✓ "rgb(0, 0, 255)"	~	2.00	
✓ "blue"	~	2.00	
"Red"	~	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
                                                           1.00
                                                                     No, this doesn't have the
                                                                     same behavior.
NUM DIMENSIONS = 2
def move(position, vector):
  for d in range(NUM_DIMENSIONS):
    return position[d] = (position[d] + vector[d]) %
SCREEN_SIZE[d]
                                                           4.00
def move_dimension(dimension, position, vector):
  """Moves the position component by the given v
ector component in 1D toroidal space."""
  position[dimension] = (position[dimension] + vec
tor[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)
                                                           1.00
                                                                     Invalid Python.
def move(position, vector):
  """Moves the position by the given vector in 2D t
oroidal space."""
  position = (position + vector) % SCREEN_SIZE
```

```
✓ 4.00

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]

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

Question 9

What is Mike Massimino's greatest accomplishment?

Your Answer		Score	Explanation
Appearing on An Introduction to Interactive Programming in Python	~	10.00	Of course, how can you top this!
Fixing the Hubble Space Telescope in space			
 Receiving his PhD from MIT 			
 Being the first person to use Twitter in space 			

Appearing on The Big Bang Theory

Total 10.00 / 10.00