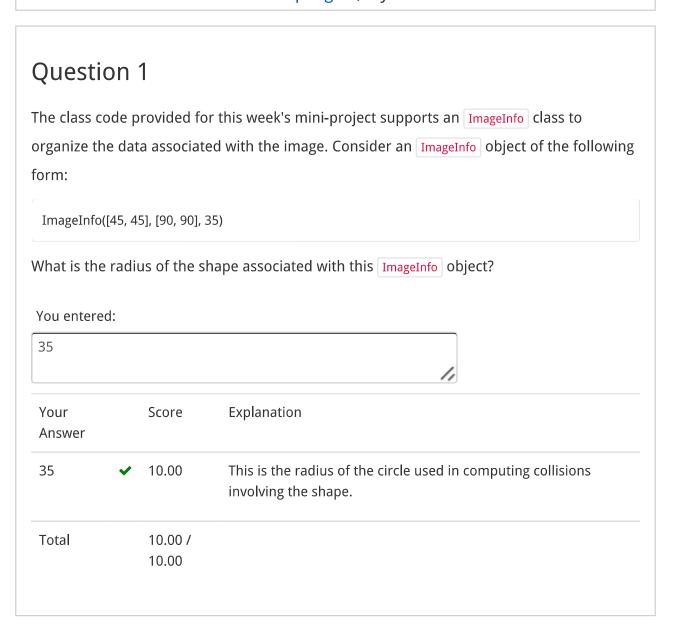
Feedback — Quiz 7b

Help Center

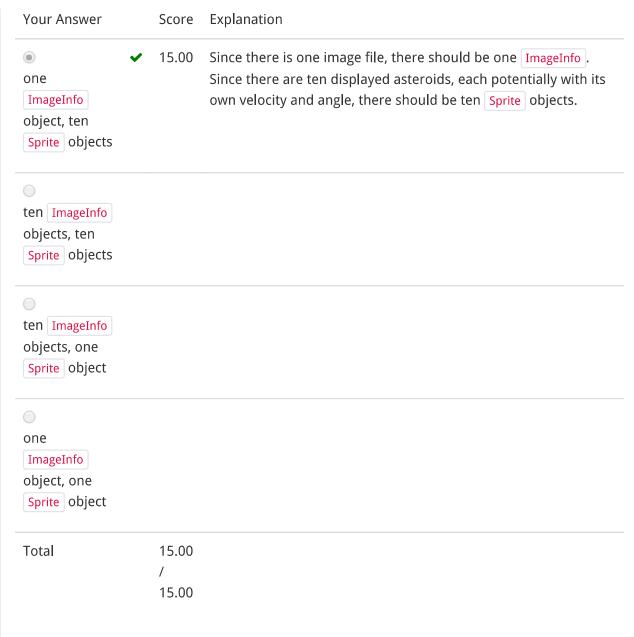
Thank you. Your submission for this quiz was received.

You submitted this quiz on Sat 5 Mar 2016 6:36 PM PST. You got a score of 86.00 out of 100.00. You can attempt again, if you'd like.



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 theSprite class and a size	~	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.

parameter to Sprite.__init__.
Use the size attribute when drawing the sprite.

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.

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 / 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	×	0.00	
0 to 1			
○ 1 to 100			
○ -1 to 1			
Total		0.00 / 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.	~	2.00	
✓ You have set the volume level to 0.	~	2.00	
✓ Your browser is loading a big sound file. Wait longer.	~	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.

✓ "green" ★ 0.00 ✓ "rgb(0, 0, 255)" ✓ 2.00 ✓ "#FFFF00" ★ 0.00	Your Answer		Score	Explanation
	✓ "green"	×	0.00	
	rgb(0, 0, 255)"	~	2.00	
		×	0.00	



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** 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 No, this doesn't have the def move(position, vector): same behavior. position = [(pos + vec) % size for pos in position f or vec in vector for size in SCREEN_SIZE] 1.00 No, this doesn't have the NUM_DIMENSIONS = 2 same behavior. def move(position, vector): for d in range(NUM_DIMENSIONS): return position[d] = (position[d] + vector[d]) % SCREEN_SIZE[d] **4** 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
 It takes less time to write the code. 			
You only need to get the code correct once.	~	10.00	
It leads to faster code.			
Total		10.00 / 10.00	

Question 9

What is Mike Massimino's greatest accomplishment?

Your Answer	S	core	Explanation
Appearing on An Introduction to Interactive Programming in Python	✓ 1	0.00	Of course, how can you top this!
Being the first person to use Twitter in space			
Fixing the Hubble Space Telescope in space			
 Appearing on The Big Bang Theory 			
Receiving his PhD from MIT			

Total	10.00 /	