If you are having trouble with this question, review the "Finding Bugs in Code"

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Which of the following are important characteristics of a good hypothesis? Choose the

two best options below.

Debugging Your Code
Practice Quiz, 7 questions

The hypothesis is complex

Un-selected is correct

The hypothesis is simple

Un-selected is correct

Correct

video.

video.

Correct

video.

Observe a Phenomenon

Form Hypothesis

Publish your Results

Un-selected is correct

Ask for Help

Un-selected is correct

The hypothesis is actionable Correct If you are having trouble with this question, review the "Finding Bugs in Code" video. The hypothesis is testable Correct If you are having trouble with this question, review the "Finding Bugs in Code" video. For which of the seven steps to solve a programming problem is the scientific method most useful? Debug failed test cases **Correct** Check by hand Translate to code Work example by hand Consider the following program: 5. 1 var img = new SimpleImage(200,200); 2 - for (var px of img.values()){ var x = px.getX();points var y = px.getY(); if (x < img.getWidth()/2){</pre> 5 -

It is supposed to produce the image on the left but it actually produces the image on the right.

px.setRed(255);

if (y>img.getHeight()/2){

px.setGreen(255);

px.setBlue(255);

else {

6 7

8 -

12 13

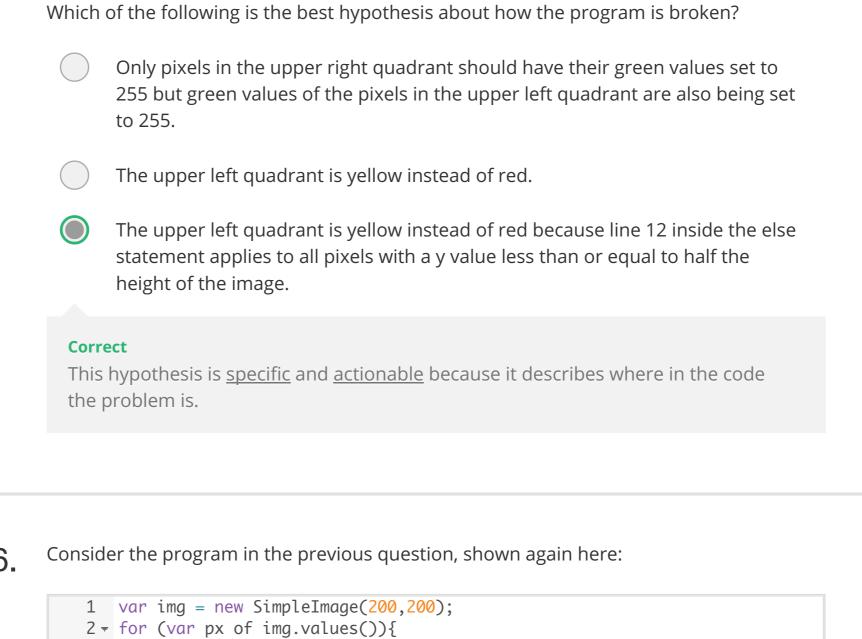


image on the right.

As a reminder, it is supposed to produce the image on the left but instead it produces the

Which of the following changes to the code would fix the problem and produce the

Change the else to an if statement that checks whether a pixel is in the upper

var x = px.getX();

 $5 \neq if (x < img.getWidth()/2){$

px.setRed(255);

if (y>img.getHeight()/2){

px.setBlue(255);

px.setGreen(255);

4 var y = px.getY();

else {

15 print (img);

6

8 - 9

10

11 -

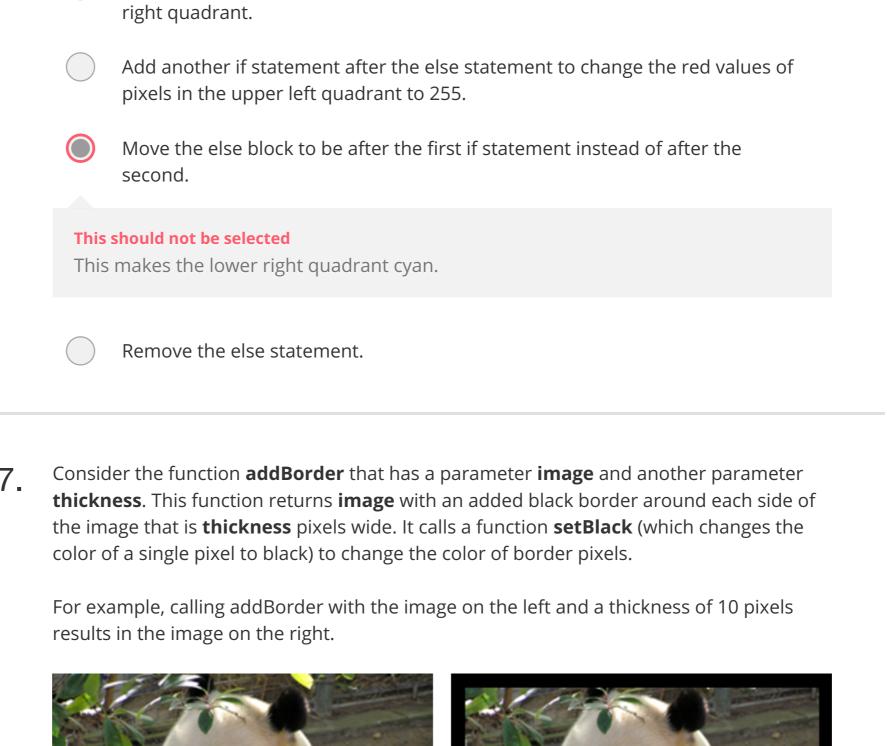
correct image?

12 13 14 }

points

points

apply.



Un-selected is correct

setBlack
Un-selected is correct

getHeight()

Correct
You need to know the height of the image to determine whether pixels are within the borders and need to be changed to black.

getX()

Correct

This method must be called to determine whether pixels are within the borders

and need to be changed to black.

the borders and need to be changed to black.

getWidth()

Un-selected is correct

getY()

Un-selected is correct

Correct

the color of the border pixels.

Correct

Correct

Which of the following <u>methods</u> must be used in the **addBorder** function? Select all that

getGreen()

Un-selected is correct

getBlue()

You need to know the width of the image to determine whether pixels are within

This method must be called to determine whether pixels are within the borders and need to be changed to black.

setGreen()

Un-selected is correct

setBlue()

Un-selected is correct

values()

This method must be called to iterate over all the pixels in the image and change