Quiz, 10 questions

```
point
```

point

- To style the web page
- To layout the web page

What is the purpose of adding CSS to a web page?

To make the web page interactive

To put images on the web page

- Which of the following are examples of nesting? Select all that are correct.
- A for loop inside a for loop
 - A list of lists
 - A table
 - An image A list inside a table

Consider the following HTML and CSS to make a web page. point

```
HTML:
  1 - <head>
  2 </head>
  3 <title>Cities</title>
  5 < <p><img src="http://s12.postimg.org/yj9byjs3x/DSCN6056_copy.jpg"/>
  7 - >
  8 -
      New York
  10 -
          Empire State Building
  11
          Statue of Liberty
  12
          Times Square
  13
  14
         Los Angeles
  15
       Chicago
  16
  17
 18 
  19 </body>
 20
```

CSS:

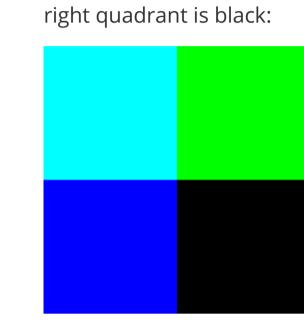
```
1 - body {
2 background-color : #567898;
3 }
4 - oddNums {
5 color : purple;
6 }
```

Which of the following are errors in this code? Select all that are correct.

- The unordered list inside the ordered list should go inside the list element New York, not after it.
- The property background-color is not the correct property to change the background of the page.
- The HTML is missing html tags. In the CSS there should be a dot before oddNums to indicate that it is a class.
- There should not be semicolons at the ends of the statements in the CSS.
- The <title> tag should be inside the <head> tag.

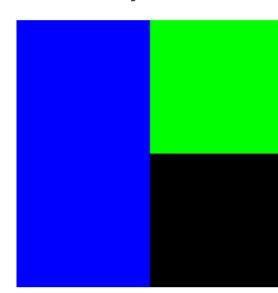
The tag is missing the width attribute.

Consider the following image in which the upper left quadrant is cyan, the upper right quadrant is green, the lower left quadrant is blue, and the lower point



and instead produces this image, in which the upper left quadrant is blue instead of cyan:

Now consider the code that attempts to create that image but has a mistake,



Here is the code:

```
1 var img = new SimpleImage(200,200);
2 - for (var px of img.values()){
       var x = px.getX();
       var y = px.getY();
       if (x < img.getWidth()/2){</pre>
            px.setBlue(255);
8 -
        else {
            if (y < img.getHeight()/2){</pre>
 9 +
                px.setGreen(255);
10
11
12
13 }
14 print (img);
15
```

Which of the following is the best explanation of why this code doesn't produce the first image?

- First the upper half of the image is made green, then when the left half is made blue it overwrites the green pixels and makes them blue.
- The if statement inside the else statement checks if pixels are in the upper half and the right half of the image, so only the upper right quadrant of the image is made green.

The code inside the else statement is only applied to pixels that did not satisfy

the first if statement. So only pixels in the upper half of the image that are not also in the left half of the image are made green by the if statement inside the else statement.

Consider the following short program that defines a function to make an

image darker by a certain amount and applies it to the image chapel.png. point 1 - function makeDarker(image, amount){

```
for (var px of image.values()){
           px.setRed(px.getRed()-amount);
 3
           px.setGreen(px.getGreen()-amount);
           px.setBlue(px.getBlue()-amount);
 6
8 img = new SimpleImage("chapel.png");
9 img = makeDarker(50);
10 print(img);
11
```

Which of the following are errors in the program? Select all that are correct. The function **makeDarker** doesn't make an image darker, it makes an image

- gray, because it sets the red, green, and blue values to the same value.
- The call to **makeDarker** does not pass an image as an argument. The function **makeDarker** is missing a return statement so there will be an error when the program assigns the return value of **makeDarker** to the
- variable **img**. The line that initializes the variable **img** is missing the keyword **var**.
- The line img = makeDarker(50); is missing the **function** keyword.
- itself. Which of the following would be the best approach to take? Write code to solve the problem, test and debug your program, improve your program by adding more features.

Imagine you want to write a program to turn an image into a mirror image of

- Gather domain knowledge, work small examples by hand, write down what you did, look for patterns, translate your algorithm to code. Work small examples by hand, write down what you did, look for patterns,
- translate your algorithm to code, test and debug your program.

point 1 var grayimage = null; 2 var image; 3 - function loadImage(){ var ff = document.getElementById("fbutton");

Consider the following JavaScript code.

point

```
gcanvas = document.getElementById("can");
         doclear();
         image = new SimpleImage(ff);
         image.drawTo(can);
    8
    9 }
   10 - function makeGray(theImage) {
         for (var pix of theImage.pixels()){
          var total = pix.getGreen() + pix.getRed() + pix.getBlue();
   12
          var avg = total/3;
   13
   14
          pix.setGreen(avg);
           pix.setBlue(avg);
   15
           pix.setRed(avg);
   16
   17
   18
         return theImage;
   19 }
Which of the variables are global variables? Select all that are correct.
```

grayimage

- thelmage avg
- image

onchange

point

point

oninput onclick onmouseover

Which is the appropriate event handler to do something once a file has loaded?

1 - function doGreen() { 2 - if (imageIsLoaded(greenImage)) { filterGreen();

shown) to apply a green filter to the image greenImage.

```
5 }
What line needs to be added to this code to display the final image on the canvas? You
can assume that there is a variable named canvas that can be used to reference the
canvas.
   greenImage.drawTo(canvas);
```

Consider the following code that calls the function filterGreen (code for this function not

10. Consider the examples you have seen of web pages that enable users to upload images and add filters to them. Which of the following describes what happens when the user

then the filter is added.

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- clicks a button to add a filter to an image? The onclick event handler allows the user to choose an image to apply the filter to, then it calls a function that applies the filter to the image, and the filtered
 - image is drawn on the canvas. The mouseover event handler calls the function that draws the image to the canvas, then the onclick event handler calls the function that applies the filter
 - to the image. The onclick event handler calls a function that applies the filter to the image,
 - then the filtered image is drawn on the canvas. The onclick event handler calls the function that draws the image to the canvas,

I, Ning Zheng, understand that submitting work that isn't my own may result in permanent failure of this course or deactivation of my Coursera account.

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