Name:	CM:	Section:	Grade:	of 10

Range expressions:

1. What is the output of the following code snippet?

```
for k in range(200, 215):
    print(k)
```

- 2. Modify the code above so that it also prints the 215 as part of the output.
- 3. Joe wants his **for** loop to output the numbers counting DOWN from 100 to n, inclusive, for some number n smaller than 100. He writes:

He correctly remembered the step of -1, but made another small bug. Find and fix it.

Box and pointer diagrams:

4. Draw a box-and-pointer diagram for the following statements. Recall that you should cross out the arrows rather than erase them:

$$x = 17$$
$$x = x + 5$$

5. Draw a box-and-pointer diagram for the following statements.

6. Draw a box-and-pointer diagram for the following statements.

What is the value of x2 after this code runs? ______Use your box and pointer diagram to help.

(Suggestion: ask for the answer to the above and use it to check your diagram.) (This quiz continues on the back of this page.)

7.	What gets printed when the code to the right runs?	<pre>class Point(object): definit(self, x, y): self.x = x</pre>			
8.	Every object in Python has two things: what are they? (Put a mark by TWO of the following items.) A type A value	<pre>self.y = y def main(): point = Point(1, 2) bLah(point) print(point.x, point.y)</pre>			
	An accumulator	<pre>def blah(point): point.x = 999 point = Point(33, 44)</pre>			
9.	In object-oriented programming, you can create custom classes. What is a <i>class</i> ?	main()			
	A collection of students A custom type	A socioeconomic group			
10.	. What is the name of the <i>constructor method</i> in Python? (don't forget the underscores)			
11.	. Recall that classes have a <i>name, instance variables,</i> and <i>m</i> the definition of part of a simple class that you saw in the				
	a. Give an example from the code of an <i>instance variable</i>:	<pre>class Point(object): definit(self, x, y): self.x = x</pre>			
	b. Give an example from the code of a <i>method</i> :	<pre>self.y = y def move_by(self, dx, dy):</pre>			
	c. What is the <i>name</i> of the class?	<pre># Location 1 self.x = self.x + dx self.y = self.y + dy</pre>			
	d. What <i>keyword</i> was used to define the class?	32211,7 32211,7 1 3,7			
12. Continuing the previous problem (with its Point class), consider the two lines of code shown to the right. When those two lines of code run, the execution of the executio					
	the execution of the second line brings us to Location 1 (see the <i>Point</i> class above to find Location 1). At Location 1, what are the values of: p.move_by(1, 2)				
	self				
	dy self v				