

3. Draw a Box-and-Pointer diagram that shows what happens when *main* executes. Then indicate what output is printed, assuming appropriate *print* statements.

Output:

a: 44

b: 33

z: 22

p1.x: 1

p1.y: 200

Check this problem in color-coded order: green marks, then blue, then red, then purple. Check the output last.

As soon as there is an error, stop there and help the student walk through the code to that point. Ask the student to try again on the error, helping as needed. Let the student go forth from there on her own, re-doing the rest of the problem.

```
def main():
    a = 44
    b = 33
    z = 22
    p1 = Point(100, 200)

    foo(a, b, z, p1)

    <print statements here>

def foo(x, y, z, p):
    x = 10 * x
    y = 88
    p.x = 1
    p = Point(300, 400)
    p.y = 2
```

We have already drawn all the boxes that you need. Just draw arrows (and eventually X's).

