

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

Output from printing in `foo`:

a:		88	
b:		99	
p.x:		200	
p.y:		400	
p1.x:		77	
p1.y:		55	

```
def main():
```

```
    a = 88
```

```
    b = 55
```

```
    p1 = Point(b, 66)
```

```
    p2 = Point(77, a)
```

```
    a = foo(p1, p2, a, b)
```

<print statements here>

```
def foo(p, p1, a, b):
```

```
    p.y = 100
```

```
    p1.y = b
```

```
    p = Point(300, 400)
```

```
    p.x = 200
```

```
    b = 99
```

<print statements here>

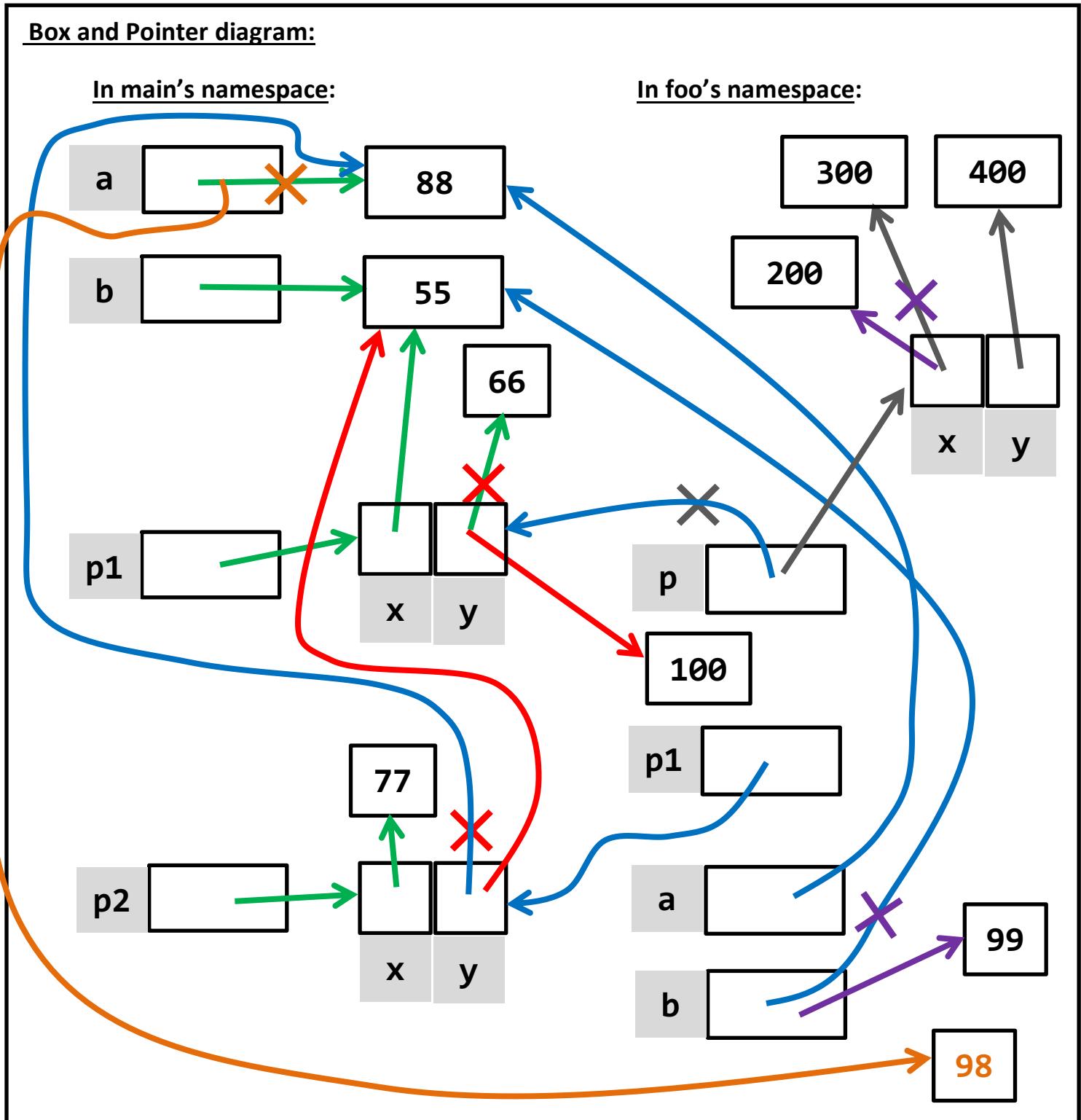
```
return a + 10
```

```
main()
```

Output from printing in `main`:

a:		98	
b:		55	
p1.x:		55	
p1.y:		100	
p2.x:		77	
p2.y:		55	

Draw the entire box-and-pointer diagram on a separate sheet of paper, then staple that sheet to this handout.



The arrows form in the following order:

green then blue then grey then red then orange