Name:			
name.			

CS21 Lab 4 Written Part – Due: Fri, Oct. 6, beginning of class

```
def main():
                                                                 DRAW STACK HERE
      print("in main")
      num = 7
      x = 3
      y = 4
      result = mystery(num, x, y)
      # see Question 2
9
      print("num: " + str(num))
10
      print("result: " + str(result))
  # mystery function
13
  def mystery(val, a, b):
      print("in mystery")
16
      # see Question 3
17
      if (val > a):
18
           val = b
19
20
      # Draw stack at this point in execution
21
      return val
22
23
24 main()
```

- 1. To the right of the program code (in the area beneath DRAW STACK HERE), draw the stack as it appears when the program reaches line 21.
- 2. At line 9 (marked # see Question 2), what variables are currently in scope? That is, what variables can you refer to in main on line 9 without getting a runtime error.
- 3. At line 17 (marked # see Question 3), what variables are currently in scope? That is, what variables can you refer to in mystery on line 17 without getting a runtime error.
- 4. Below, give the output that would be produced by runing the whole program to completion: