Name: ____________________________

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

def main():
    print("in main")

    num = 7
    x = 3
    y = 4
    result = mystery(num, x, y)

    # see Question 2
    print("num: " + str(num))
    print("result: " + str(result))

# mystery function
def mystery(val, a, b):
    print("in mystery")

    # see Question 3
    if (val > a):
        val = b

    # Draw stack at this point in execution
    return val

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 running the whole program to completion: