

Name: _____

CS21 Lab 4 Written Part – Due: Fri, February 21, beginning of class

```
1 def main():
2     print("in main")
3
4     x = 4
5     y = 3
6     n = 6
7
8     val = fun(x, y, n)
9
10    # see Question 2
11    print("val: " + str(val))
12    print("n: " + str(n))
13
14
15 def fun(a, b, max):
16     print("in fun")
17
18     # see Question 3
19     if (a + b > max):
20         max = a + b
21
22     # Draw stack at this point in execution
23     return max
24
25 main()
```

DRAW STACK HERE

1. To the right of the program code (in the area beneath **Draw stack at this point in execution**), draw the stack as it appears when the program reaches line 22.
2. At line 10 (marked **# see Question 2**), what variables are currently in scope? That is, what variables can you refer to in `main` on line 10 without getting a runtime error?
3. At line 18 (marked **# see Question 3**), what variables are currently in scope? That is, what variables can you refer to in `fun` on line 18 without getting a runtime error?
4. Below, give the output that would be shown in the terminal by running the whole program to completion: