NAME: CS21 Fall 2021, Written portion of Lab 4
Due at the beginning of class Friday, October 1

Consider the following program:

```
DRAW STACK HERE
def clamp(val, lo, hi):
                                           -----
   print("in function...")
    #scope Q3
    if val < lo:
        val = lo
    if val > hi:
        val = hi
    #stack Q1
    return val
def main():
    a = 17
   print("in main...")
    result = clamp(a, 0, 10)
    #scope Q2
   print("a: %d" % (a))
   print("Result: %d" % (result))
main()
```

- 1. To the right of the program text, draw the stack as it appears when the program reaches the line #stack Q1.
- 2. For the line #scope Q2, which variables are currently in scope? That is, which variables can you refer to without getting a runtime error?
- 3. For the line #scope Q3, which variables are currently in scope?
- 4. What output is produced by the whole program?