

NAME: _____

CS21 Spring 2020, Written portion of Lab 5

Due in class Friday, Feb 28

Consider the following program:

DRAW STACK HERE

```
def divide(x,y):
    print("in function...")
    ##### scope Q3
    if x > y:
        z = x / y
    else:
        z = y / x

    ##### stack Q1

    return z
```

```
def main():
    a = 17
    b = 5
    print("in main...")
    result = divide(a,b)
    ##### scope Q2
    print("Result: " + str(result))
```

main()

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