

NAME: _____

CS21 Spring 2017, Written portion of Lab 6

Due in class Thursday, March 2 (Newhall) or Friday, March 3 (Knerr, Mauskop)

Consider the following program:

```
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()
```

DRAW STACK HERE

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?