

NAME: _____

CS21 Fall 2015, Written portion of Lab 6

Due in class Thursday Oct 22 or Friday Oct 23 (depending on your section)

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 = 7
    b = 23
    print "in main..."
    result = divide(a,b)
    #### scope Q2
    print "The result is:", result

main()
```

STACK

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?
3. For the line `#scope Q3`, what variables are currently in scope?
4. What output is produced by the whole program?