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()

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?