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:

```
                                                    STACK
                                                    -----
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()
```

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?