NAME: _____

CS21 Spring 2018, Written portion of Lab 5

Due in class Thursday, March 1 (Meeden) or Friday, March 2 (Fontes, Soni)

Consider the following program:

```
                                                  STACK
def reduce(num1,num2):                            -----
  print("in function...")
  #### scope Q3

  if num1 % num2 == 0:
    z = num1 // num2
  else:
    z = num1 - (2*num2)

  #### stack Q1
  return z

def main():
  a = 17
  b = 5
  print("in main...")
  result = reduce(a,b)
  #### scope Q2
  print("The result is: "+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?

3. For the line #scope Q3, what variables are currently in scope?

4. What output is produced by the whole program?