Consider the following program:

```python
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?