CS3723 Python Trace (not to be turned in)

Show a trace and the output of the following Python code:

def funcA():

def funcB():

global z

z += 1

print ("B: x=", x, "y=", y, "z=", z)

x = 31;

funcB()

print ("A: x=", x, "y=", y, "z=", z)

def funcC(x, y=52):

x += 10

y += 10

funcA()

print("C: x=", x, "y=", y, "z=", z)

x = 11

y = 12

z = 13

funcC(x, y=20)

print("M: x=", x, "y=", y, "z=", z)

funcC(5)

print("M: x=", x, "y=", y, "z=", z)

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| --- |
| Global  x 11  y 12  z 13 14 15 |
| funcC  x 11 21  y 20 30 |
| funcA  x 31 |
| Func B  (adds to global) |
| funcC  x 5 15  y 52 62 |
| funcA  x 31 |
| funcB  (adds to global)  Don’t write on exam? |

Output:

B: x= 31 y= 12 z= 14

A: x= 31 y= 12 z= 14

C: x= 21 y= 30 z= 14

M: x= 11 y= 12 z= 14

B: x= 31 y= 12 z= 15

A: x= 31 y= 12 z= 15

C: x= 15 y= 62 z= 15