

L5 PROBLEM 10 (5 points possible)

Ben Bitdiddle tried to implement `fibMetered` with global variables, to count the number of recursive calls needed for each Fibonacci number calculated. But he made a mistake in using the global variable! Examine his code below carefully and then answer the questions:

```
def fibMetered(x):
    global numCalls
    numCalls += 1
    if x == 0 or x == 1:
        return 1
    else:
        return fibMetered(x-1) + fibMetered(x-2)

def testFib(n):
    global numCalls
    numCalls = 0
    for i in range(n+1):
        print('fib of ' + str(i) + ' = ' + str(fibMetered(i)))
        print('fib called ' + str(numCalls) + ' times')

testFib(10)
```

What function is the mistake in?

- ☐ `fibMetered`
- ☐ `testFib`

What line should be changed to make this code work? Paste the original line in the following box:

What do the printed `numCall` values in this buggy code stand for?

- ☐ Number of recursive function calls that happened for each specific Fibonacci number
- ☐ Number of recursive function calls to `fibMetered` that have happened up to that point
- ☐ Number of total addition operations that happened up to that point in `testFib`

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