PROBLEM 4 (10 points possible)

Write a simple procedure, `myLog(x, b)`, that computes the logarithm of a number *x* relative to a base *b*. For example, if *x = 16* and *b = 2*, then the result is 4 - because $2^4 = 16$. If *x = 15* and *b = 3*, then the result is 2 - because 3^2 is the largest power of 3 less than 15.

In other words, `myLog` should return the largest power of *b* such that *b* to that power is still less than or equal to *x*.

x and *b* are both positive integers; *b* is an integer greater than or equal to 2. Your function should return an integer answer.

Do **not** use Python's `log` functions; instead, please use an iterative or recursive solution to this problem that uses simple arithmatic operators and conditional testing.

Note: You will only get **ten** checks. Use these judiciously.

```
def myLog(x, b):
    '''
    x: a positive integer
    b: a positive integer; b >= 2

    returns: log_b(x), or, the logarithm of x relative to a base b.
    '''
    # Your Code Here

```

Unanswered

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