CSSE 12	Session 4: More Accumulators	Page 1 of 2	
Name:	CM: Section:	Grade: of 10	
1.	You are about to write a method that does some complex math. As usua <i>a concrete example by hand.</i> What are some things you should do? Che	l, you start by working ck all that apply:	
	Choose your numbers to be as complicated as possible.		
	Choose numbers that avoid symmetry.		
	Give names to the relevant items.		
	Track how you calculate the answer by hand.		

- _____ Use this example as a unit test that you write first before writing your code.
- The two code segments shown to the right both compute the same thing when given the same value for *n*. Which code segment is better? (circle your choice)

if n > 5:	if n > 5:
return 888	return 888
if n <= 5:	else:
return 999	return 999

The one on the LEFT

The one on the RIGHT

Neither (they are equally good)

3. What does the code snippet shown to the right print when it runs?

b = 0for k in range(4): if (k + 3) % 3 >= 1: b = b + 1print(k, b) print(b)

def grade(letter):

4. In the space to the right, write code for a function that has a single parameter whose value must be one of the following letter grades:

"A" "B" "C" (everyone gets a passing grade in this function!) The function returns the value of the letter grade

(4 for an A, 3 for a B, 2 for a C).

This quiz continues on the back of this page.

 The function defined in the box to the right generates n random integers between 0 and 9, inclusive.
 Augment the code so that the function returns the number of generated integers that are odd.

Hint: Think about the expression X % 2 and what it evaluates to when X is odd, and when X is even. For example, what is 17 % 2 ? What is 18 % 2 ?

- import random
 def odds(n):
 for k in range(n):
 r = random.randrange(10)
- 6. Consider the function whose specification appears below:

```
def primes(m, n):
    """
    What comes in: Integer m and n with m >= 2 and n >= m.
    What comes out: Returns the number of integers
        between m and n, inclusive, that are prime.
    Example: If m is 5 and n is 11, this function returns 3,
        since there are 3 primes between 5 and 11
        (namely, 5, 7 and 11).
    """
```

Write code for 3 good *test cases* for the above function. Show both the expected and actual values.