CSC148 - Choosing Test Cases

```
def insert_after(lst: List[int], n1: int, n2: int) -> None:
    """After each occurrence of <n1> in <lst>, insert <n2>.

>>> lst = [5, 1, 2, 1, 6]

>>> insert_after(lst, 1, 99)

>>> lst
    [5, 1, 99, 2, 1, 99, 6]

"""
```

1. We can only test a tiny fraction of all possible calls to this method. Some properties are likely not relevant, such as whether the values in 1st are positive or negative. In the table below, we have named one property that *is* relevant. Add more.

Relevant Property	Values to Try		
position of n1 in 1st	front, back, somewhere else		

2. Use the above table help you define specific test cases. Again, we have started. Add more. Continue on the reverse if needed.

lst	n1	n2	Purpose
[0, 1, 2, 3]	0	99	n1 at the front
[0, 1, 2, 3]	3	99	n1 at the back
[0, 1, 2, 3]	1	99	n1 somewhere else

Are you combining the properties? You may need to use judgment to choose among the many combinations, or you could end up with many test cases.

lst	n1	n2	Purpose

3. Here is an example showing how pytest can be used to implement the first test case shown in Question 2:

```
def test_insert_after_at_front() -> None:
    """Test insert_after with one occurrence of n1 at the front of lst.
    """
    input_list = [0, 1, 2, 3]
    insert_after(input_list, 0, 99)
    expected = [0, 99, 1, 2, 3]
    assert input_list == expected
```

Choose one of your own test cases from Question 2 and implement it in pytest.