Your name: ____ SOLUTION _____

1. Implement (here, on paper, in the supplied box) the following function, per its specification.

```
def list_of_numbers(n):
"""
Returns the list [1, 2, 3, 4, ... n] where n is the
given non-negative, integer argument. For example:
    -- If the argument is 5, this function returns: [1, 2, 3, 4, 5]
    -- If the argument is 2, this function returns: [1, 2]
    -- If the argument is 0, this function returns: [] (the empty list)
"""

result = []
for k in range(n):
    result = result + [k + 1] # or equivalently: result.append(k + 1)
return result
```

2. Implement (here, on paper, in the supplied box) the following function, per its specification.

3. Indicate the *pattern* that one would use to implement the following function.

```
def number_of_stutters(string):
"""
Returns the number of "stutters" in the given string, where
a "stutter" is a character repeated twice in a row. For example:
    -- If the argument is "xhhbrrs", this function returns: 2
    -- If the argument is "zzzz", this function returns: 3
    -- If the argument is "xxx xxx xxxxx", this function returns: 7
    -- If the argument is "xxxyyyxxx", this function returns: 7
    -- If the argument is "xxxyyyxxx", this function returns: 7
    -- If the argument is "xxxyyyxxx", this function returns: 7
```

FIND MAX/MIN <u>TWO-PLACES-AT-ONCE</u> PARALLEL SEQUENCES (circle/underline your choice)

4. Indicate the *pattern* that one would use to implement the following function.

```
def largest_number(sequence, m):
"""
Returns the largest number in the first m numbers of the given
sequence of numbers, where the positive integer m is the second
argument. For example, if sequence X is [7, 4, 15, 20, 13. 40, 10], then
-- largest_number(X, 1) returns 7
-- largest_number(X, 2) returns 7
-- largest_number(X, 3) returns 15
-- largest_number(X, 4) returns 20
-- largest_number(X, 6) returns 40
-- largest_number(X, 7) returns 40
"""
```

FIND MAX/MIN TWO-PLACES-AT-ONCE PARALLEL SEQUENCES (circle/underline your choice)

5. Indicate the *pattern* that one would use to implement the following function.

FIND MAX/MIN TWO-PLACES-AT-ONCE PARALLEL SEQUENCES (circle/underline your choice)

6. Indicate the *pattern* that one would use to implement the following function.

FIND MAX/MIN TWO-PLACES-AT-ONCE PARALLEL SEQUENCES (circle/underline your choice)