

## CSC108H Worksheet: Parallel Strings and Lists

For each function, complete the examples in the docstring and then complete the function body.

```
1. def stretch_string(s, stretch_factors):
    """ (str, list of int) -> str

    Precondition: len(s) == len(stretch_factors) and the values in
                  stretch_factors are non-negative

    Return a string consisting of the characters in s in the same order as in s,
    repeated the number of times indicated by the item at the corresponding
    position of stretch_factors.

    >>> stretch_string('Hello', [2, 0, 3, 1, 1])
    'HHllllo'
    >>> stretch_string('echo', [0, 0, 1, 5])
    """
```

```
2. def greatest_difference(nums1, nums2):
    """ (list of number, list of number) -> number

    Precondition: len(nums1) == len(nums2) and nums1 != []

    Return the greatest absolute difference between numbers at corresponding
    positions in nums1 and nums2.

    >>> greatest_difference([1, 2, 3], [6, 8, 10])
    7
    >>> greatest_difference([1, -2, 3], [-6, 8, 10])
    """
```