CSCA08H Winter 2022 Worksheet: Parallel Strings and Lists

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

1. ```
   from typing import List

   def stretch_string(s: str, stretch_factors: List[int]) -> str:
       """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.

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

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

2. ```
   def greatest_difference(nums1: List[int], nums2: List[int]) -> int:
       """Return the greatest absolute difference between numbers at corresponding
       positions in nums1 and nums2.

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

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