CSC108H Worksheet: For Loops Over Lists

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

1. def collect_underperformers(nums, threshold):
   
   """ (list of number, int) -> list of number

   Return a new list consisting of those numbers in nums that are below threshold,
   in the same order as in nums.

   >>> collect_underperformers([1, 2, 3, 4], 3)
   [1, 2]
   >>> collect_underperformers([1, 2, 108, 3, 4], 50)
   >>> collect_underperformers([], 7)
   """

2. def scale_midterm_grades(grades, multiplier, bonus):
   
   """ (list of number, number, number) -> NoneType

   Modify each grade in grades by multiplying it by multiplier and then
   adding bonus. Cap grades at 100.

   >>> grades = [45, 50, 55, 95]
   >>> scale_midterm_grades(grades, 1, 10)
   >>> grades
   """