

CSCA08H Winter 2022 Worksheet: For Loops Over Lists

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

1. from typing import List

```
def collect_below_threshold(nums: List[int], threshold: int) -> List[int]:
    """Return a new list consisting of those numbers in nums that are below threshold,
    in the same order as in nums.

    >>> collect_below_threshold([1, 2, 3, 4], 3)
    [1, 2]
    >>> collect_below_threshold([1, 2, 108, 3, 4], 50)
    

    >>> collect_below_threshold([], 7)
    

    """
```

2. def scale_midterm_grades(grades: List[int], multiplier: int, bonus: int) -> None:

"""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
```

```


"""
```