Task 1 1: Longest Continuous Increasing Subsequence

Revised Solution and Changes

- 1. Added explicit **type hints** to enhance code readability and ensure clarity about the function's input and output types.
- 2. Simplified edge case handling for an empty list.

Changes

- Added type hints: nums: list[int] -> int.
- Replaced if not nums: with if len(nums) == 0: for explicitness.

Task 1 2: Merge Two Sorted Arrays

Revised Solution and Changes

- 1. Added **type hints** for inputs and return type.
- 2. Included extra comments to improve readability.
- 3. Checked if either array is empty, optimizing early return scenarios.

Changes

- Added type hints: nums1: list[int], nums2: list[int] -> None.
- Optimized for cases where nums2 is empty (if n == 0:).

Task 1 3: Intersection of Two Arrays

Revised Solution and Changes

- 1. Added **type hints** for inputs and outputs.
- 2. Enhanced readability by splitting operations into intermediate variables.

Changes

- Added type hints: nums1: list[int], nums2: list[int] -> list[int].
- Split set(nums1).intersection(nums2) into intermediate steps (set1, set2, result) for clarity.