Longest Continuous Increasing Subsequence

current_len: Tracks the length of the ongoing increasing subsequence. It resets to 1 when the sequence breaks.

max_len: Keeps the maximum length of all subsequences found so far, updating whenever current_len exceeds it.

[0],[1],[2],[3],[4]

[1, 3, 5, 4, 7] → Given array

[1, 3, 5, 4, 7] → Compare nums[1] with nums[0] 3 > 1, current_len = 2, max_len = 1

[1, 3, 5, 4, 7] → Compare nums[2] with nums[1] 5 > 3, current_len = 3, max_len = 1

[1, 3, 5, 4, 7] → Compare nums[3] with nums[2] 4 < 5, current_len = 1, max_len = 3

[1, 3, 5, 4, 7] → Compare nums[4] with nums[3] 7 > 4, current_len = 2, max_len = 3

Output: The longest continuous increasing subsequence has a length of 3.