Problem # 334: Increasing Triplet Sequence (Medium)

https://leetcode.com/problems/increasing-triplet-subsequence

My solution:

1. Let n be the length of nums

2. If n is less than 3, then we cannot form a triplet. So, return False.

3. If nums is sorted in reverse order, then we cannot form an increasing triplet sequence. So, return False.

4. Iterate with I from 0 to n – 3 and j from i+1 to n -2. If nums value at index i is less than nums value at index j, then iterate with k from j + 1 through n -1 and check if nums value at index j is less than nums value at index k. If so, return True.

5. After completing the iteration, if we have not returned True during the iterations, finally return False.

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class Solution:

def increasingTriplet(self, nums: List[int]) -> bool:

n = len(nums)

if n < 3:

return False

if nums == sorted(nums, reverse = True):

return False

for i in range(n-2):

for j in range(i+1, n-1):

if nums[i] < nums[j]:

for k in range(j+1, n):

if nums[j] < nums[k]:

return True

return False