75 Days of Code

Day8 Problem no: 334

Given an integer array nums, return true *if there exists a triple of indices* (i, j, k) *such that* i < j < k *and* nums[i] < nums[j] < nums[k]. If no such indices exists, return false.

Example 1:

Input: nums = [1,2,3,4,5]
Output: true
Explanation: Any triplet where i < j < k is valid.

Example 2:

Input: nums = [5,4,3,2,1]
Output: false
Explanation: No triplet exists.

Solution

For this problem , to get num[i]<num[j]<num[k]

1 . Iterate over the loop and calculate nums[i] and num[j];

2. To calculate num[i] and num[j] , we initialize two variable at tops as max1 and max2

3. If we found max1 and max2 , so if there will be any element greater than these 2 , will hit the last condition which return true and stops the loop

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// Explanation: No triplet exists.
function increasingTriplet(nums: number[]): boolean {
    if(nums.length<=2)return false;
    let max1 = Number.MAX_VALUE;
    let max2 = Number.MAX_VALUE

  for(let index =0;index<nums.length ;index++){
      if(nums[index]<=max1){
          max1 = nums[index]
      }else if(nums[index]<=max2){
        max2 = nums[index];
      }else{
          return true;
      }
  }

return false ;
};

let soln = increasingTriplet([5,4,3,2,1]);
console.log(soln)
```

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PROBLEMS 8  OUTPUT  DEBUG CONSOLE  TERMINAL  GITLENS
[Running] node "c:\Users\Shubham\Desktop\75daysOfCode\75DaysOfCode\day8.js"
false
```