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

Step 1 : Create an prefix array to store the elements which are smallest at each index

Step 2 : Create an suffix array to store the largest element at each index.

Step 3 : Iterate 0 to n-1 for prefix and n-1 to 0 for suffix

Step 4 : If g > prefix[i] & g < suffix[i] then return true , we got the increasing subsequence

class Solution {

    public boolean increasingTriplet(int[] nums) {

        int n = nums.length;

        int [] prefix = new int [n];

        int [] suffix = new int [n];

        prefix[0] = nums[0];

        suffix[ n - 1 ] = nums[ n - 1];

        for(int i = 1 , j = n - 2 ; i < n ; i++ , j--){

            prefix[i] = Math.min(prefix[i - 1] , nums[i]);

            suffix[j] = Math.max(suffix[j + 1] , nums[j]);

        }

        for( int i = 0 ; i < n ; i++){

            if(nums[i] > prefix[i] && nums[i] < suffix[i]){

                return true;

            }

        }

        return false;

    }

}