Peraden: Ginen an integer array [nums] a 132 pattern is a "subsequence" of three integers nums [i], nums [j], nums [k] such that q
of three integers nums [i], nums [j], nums [R] iswell-that a
i < j < R and nums [i] < nums [k] < nums [j].
Keturn true if its a 132 pattern celse victorin false.
Salution: The turnst here is 9 the actual value of the k painter (nums Ck) "I greater than nums [i] but less than nums [j]. But 9 the "i and "i painters is hauld be less than k 9 but in the given problem (nums [R]) "I in between ([) and ()).
So technically the painter will be at the highest pasition but its
nature une be greater than I and less than I.
Neve as me can use there
3 1 4 2 = Lescists a 132 pattern where nums [k] > nums [k] > nums [k] > nums [k].
nums [k] to be arealy than nums [j].
· nums [k] to be greated than nums [i]. · nums [k] to be greated than nums [j]. · nums [k] to be greated than nums [i].
greater trans numes LIS
rums [i] < nums [k] < nums [j]
Solf there are three painters if gi and kusuch that in the order
o, o p
The man [D] we need to the D'A con labore
for the nums [A] we need to check of any larger make is present?
IF it is 9 then it is nums [ij]. And we also need to check that
by there of any smaller nature than both nums [j] and nums [k]
Cartan & Manatonic Decreasing Stack Data St. +
Salution: Monotonic Decreasing Stack Data Structure • We maintain a istack which extores the natures in a "monotonically
· We maintain a istack which consists the names in a "Monotonically
• There are only decreasing natures in the stock, and the most min at cenery steration is istored as a pair.
· There are any decreasing natures in the istock , and the mast min of
cenery teration is istored as a pair.
• This means that; the moment a larger value is found than the premions two values; that larger value is not popped and the stack aperation
two natures of that larger nature is not popped and their all and it
oracooda funtación

proceeds further.

Lect Cade 456. 132 Pattern

Pringam Merta @pringam 644

Pringont Pehta Opringon 644 Algorithm 1 Make a Pair class that will istore a Pair of integers on the istack. Mothod to create a pair in dass Pair { int num ; int min i Pair (int num, int min) { this num = num; this min = min ! @ while iterating of use find any relement larger than all of the celements, we estart papping out other whenents and the minimum Nate: The itack is designed to be a "Monstone Deviessing" istack. 3/1/4/2 For the data of we have the So Ast the case 1) Mascimum of all elements 2) Minimum of all elements Naur we need to find the element between the minimum and tra masamum « The Stack is doing the work of intoring the most minimum element and the largest element is at the top of 3) Naw of check of the current iterating element rums [1) is less than the peck () (largest element) and greater than the utack, peckl) min. (Default aperation: Keep pushing hums (?) and min