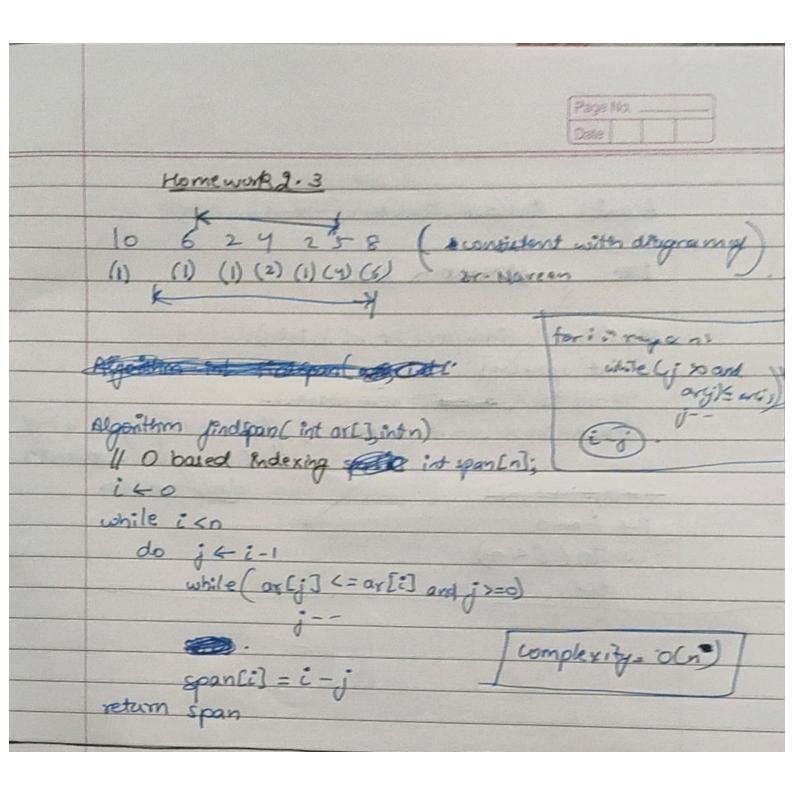
Deeparishy Page No. Date 20196550427 Home work 2.1 Methods defined: New, Insert, Delete, Is In other methods: + IsEmpty (S: ADT): Bookean 2 Size (S: ADT): integer Additional methods (taken from (++ STU: lower abound, upper Bound, larguet, emallest Home work 2-2 I what are the drawbacks of using arrays for the implementation of stack? I we have to be concerned about stockfull Exception while implementing put (). Other implementations may not regulte such exception handling. 2. We have to specify size beforehand. 20. If predicted/expected N is small, then we may have to reallaste memory to a new array of sufficient size which is an inefficient method. 26. If predicted expected N is large, then mamory is gotting wouted. 3. Fren after changing array size once (as it a point 2a), we may have to expeat ent procedure in future. we do not have pexibility on size.



Homework 2.4 Algorithm find span (Pot ar [], int n) int span [n], count = 0 Stack Kint> S= new Stack() while (Eans and not(s. is Empty()) if (ar[s.top()] > ar[i])

break // got the larger bar S. Pop () if s. is Empty() // this is the maximum heights
span[i]=i+1 bar else: span [i] = i - s. topl) #//
sp return span Note: Define stack (nt > 5 - new stack) as statement which reveates a new stock that can store integras

