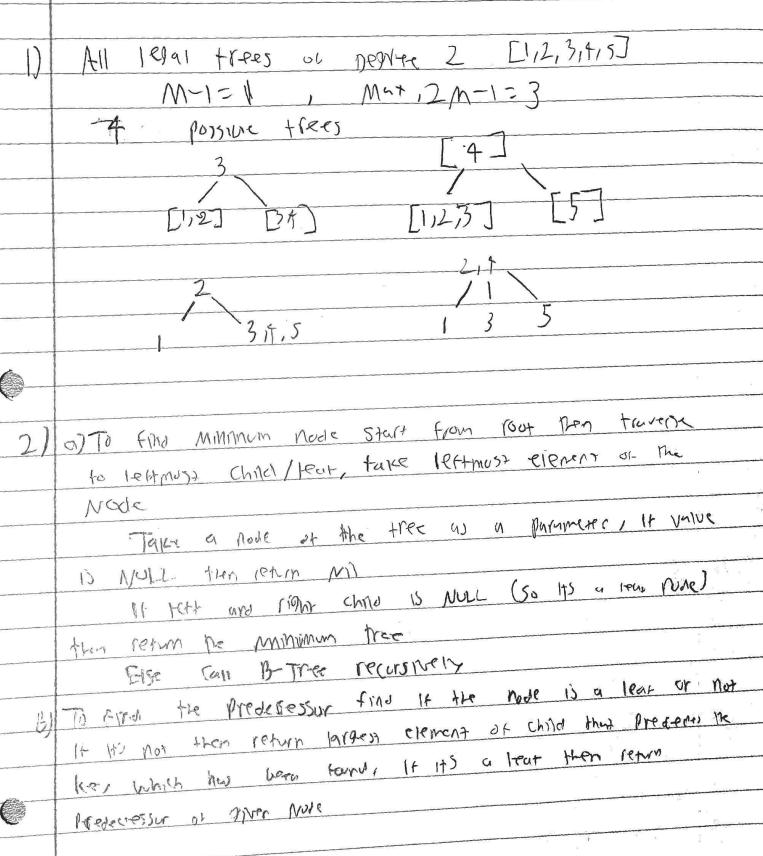
313 ASSIGNMENZ



Case 1: If node is not teat then return Mark of lett Subtree Case 2: If the nate is the text and is! then return 1-1th 1291 OF NO! 1 cox ?: If the node has no left child, how this predeross or Node by traversy bottom to for until 170 Use a temp volticese to Stere Pool. 1 tem Fire Pressesur 3) [12, 13] -> [12,13, 17] -9 13 [10,12] [T 13 (10,13) (10 [1,6,4] [1] [15] [25,30] [1,6,4] 12 [20,25,7] 17,25 [1,6,4] [12] 10 [20] [30,10]

4) We will want to use either theat-suff of Melge-506+ Which is o (19n) then me cant the Moss GIPEUTTO SEATCH WHICH WITH DE O(N) +mr. Election (SIN) Solt (5, 5+n) MOST = SEOJ Curry = 1 CUrrent men = 1 For i= 1 to n-1 1+ SCI] == 5[i-1] Countr += 1 Plye 5 Counter = 1 It counter > Confirmer Campinox = (anter MOS1 = 5 [] 1 crun Most

5)	1. Store an arran A with Size & In Surred	order,
	the ACXI with m- by voto is winger.	
	2. For each vote done do a birary-search un	Allary A
	to find confider with the particul vor 100 or	
	(revener)	
	3. Once vote record is over dector comme with	· highest
	vote cons ir apos A.	
	0 (11 100 1L) to 5017 fle 1177,	
	BITHERY SEARCH WILL DO (100 K) three	
	O(K 108 1L) + O(n 19 1) = O(n 109 1	۲)
	Exertion (S, IL)	
	A sur 1 12 = Carjuan	
	Aller So Votes	
	for if no Honcs)	
	BINOTSFORES 1970 K	
	Count #21	
	for in 16	
	If Curt 7 Mexcus	
	Cankha = Arraid	
	retu capiaton	
1		

O(n) for $\left(\frac{n+1}{2} \right)$ Majorry Etyment KEPP COURT OF EVERY STUDENT IN G MUS are see It and Canidate Orcred It. Majorry (AAr) Ma)= 178/4 20 Canr = 1 for i to ten (A) It A[MW MOX] = ACI]! Court #F] 1. - Pur : 1. 11 - 11 - 13 - 13 11 /2 - 1) (and with 1) 14/ (1 (oung) == oans)) Maj = 1 = 1 Court = 1= 1 talm =0 -1-- 1207 is fire fite the trouble If ALIJES MALMW- ndex] Cant += 1 16 (and 10 10 (A) 12: ream the Plt The forth