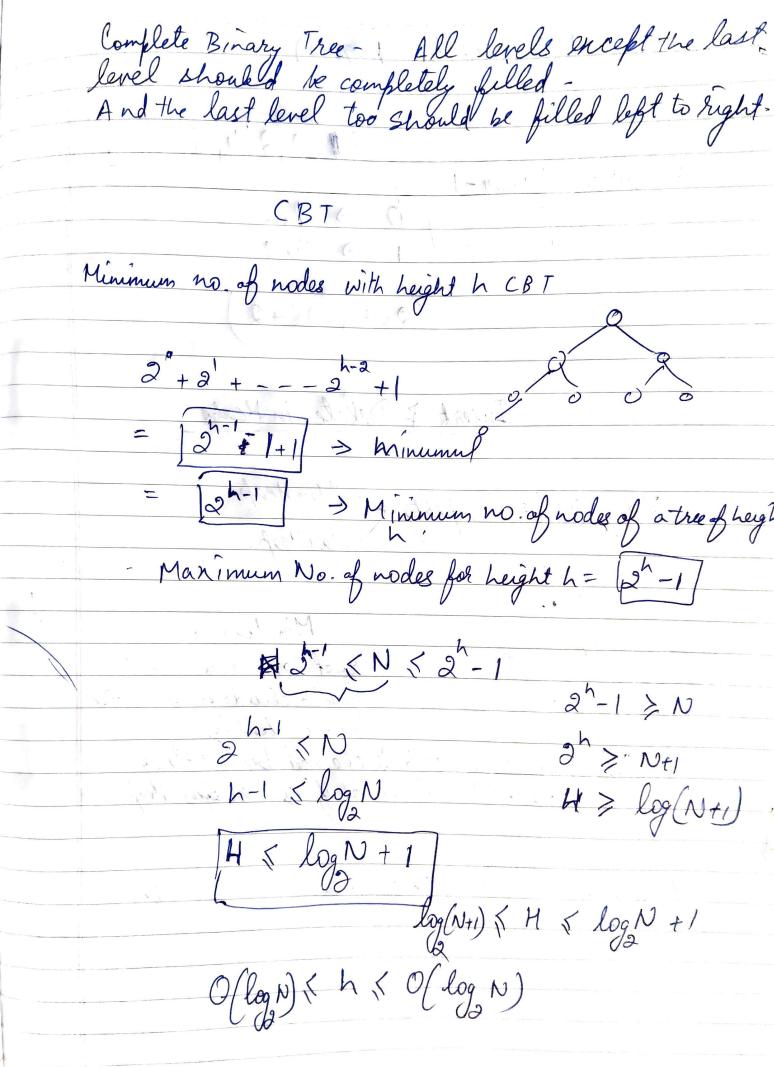
Priority Bussel

	U			
Airplane - booker which passenger to ways -	d- 10 people i	vaiting -	I seat vac	ated -
Ways -	Ciest Cosme		Artic	
1) First Come 2) VIP in waiting	list.	AMONE	W A	
atendada.	A bearing to			
Priority Queen			Buene, who	ich is f
1) Insert 2) get Man/get 1 3) remove Man	lui / remove Min		4 1 0 A	(mar 12)

Let's consider the elements to be their priority value-

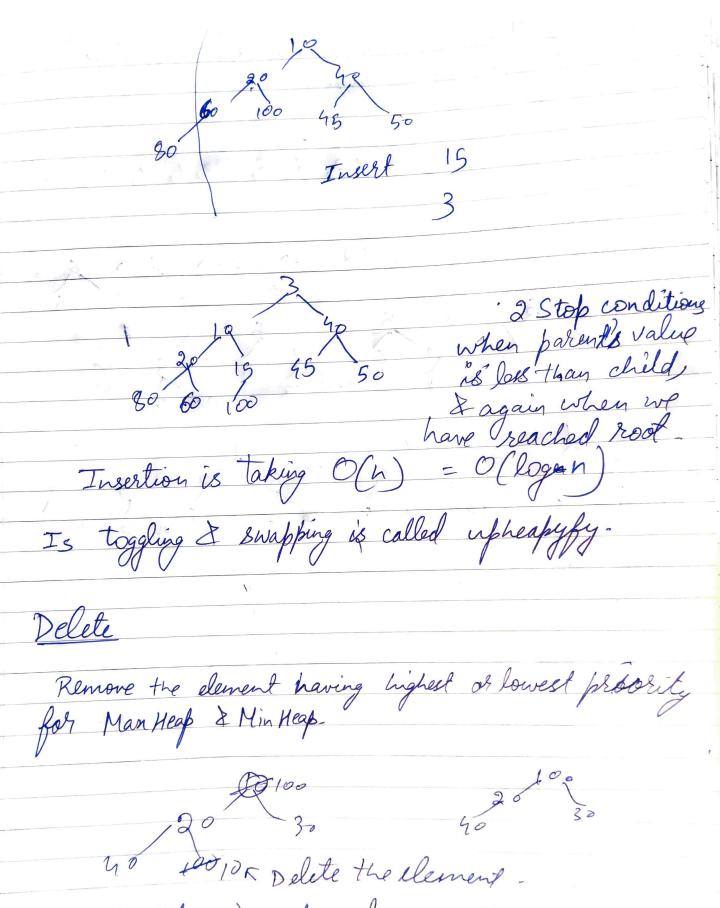
insert	get Min/get Man	removerin / remove han-
Askeys O(1) Cunsorled)	-0(n)	O(n) finding + O(n) Shipta
Ashay O(n) Salted SI Figuring & sinfling	0(1)	On Shifting Takes
LL O()	0(n)	O(w)
LL (sorted O(n) BST O(H) =	0(1) 0(H)	O(H)
n in world		
n in	worst case	

Balanced BST	-) o(logn)	0	(log n)		o(logn)	
BST n hai, ko 1 O(log r	but balance se jyada	L case m ed BST whi how	nein her humesh ne deta	ght O(a height . So h	n) hos kædig eight is	Jeren Jeren alwa
	So in all are to be will be a But in Bo	encept inserted of	Balanced Premoved 35T that	BST, in the time	f n eleme complen be (n log	ity
Hashmap	O(1)	1 0(n)		10(n)	= O(1	2
1) B 3) S	alancing bo	nctors	/			
1) Con 3) Mea	mplete bis	Heaps pary tree	Major Prop	erty	heaps	



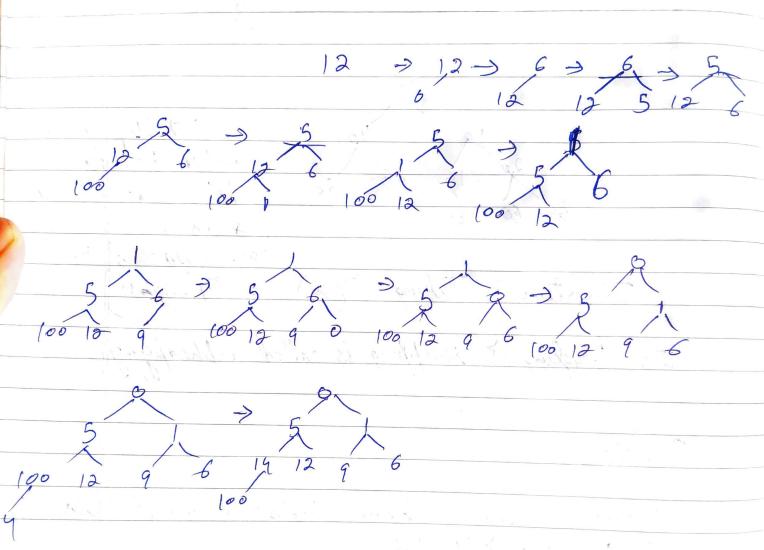
CBT height = Log(N) 1 23 4 5 6 (2i+1, 2i+2) Insert & Delete in Heaps Heap Order Property Min Heap.

Man Heap. Min Heap main roof ki value uske dono children se chote honi chahiye Validity of a Heap is checked by whether its a valid CBT or not or if its satisfies Heapordes property. Man Heap mein bas root bada hoga their both Children.



Dowheapity mein april dono children So compare kærke, minimum wale se swapkana hai. ta Tab tak karenge jab tak april correct position pe na pahunch jaye.

12, 6, 5, 100, 1, 9, 0, 14



Meap has & array has n-1 elements.

Pehle 5 insert kinga, phir heapify kingar [5]10]81]4 Then