Kanishk timaeni 2022BTech 045

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Page	COUNTY ROTESOOK

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	DAA Assignment-2	
	1 O(n3), because it is a dominant team outer	
	-mined by woundion step. Hence it will	
	O(n³), because it is a dominant team out of -mined by conountion step. Hence it will only be most encurate, consist complexity	
	bou this Process.	
	$\frac{1}{2}$ nd $\frac{1}$	
(3)	opt: h(n) is o (g(n)) but h(n) is not	
	because Here, as me can see gln) is the down	
	- nant bound due to presence of O(ny) team,	
77.00	Henre, it is clean if h(n) iso(y(n)) than	
3.70	it has to be of onder of off(n).	
	30, h(n) with 3 100p can be non with (nu) onder.	
(4)	52 times i is gecting compared.	
(5	Bigo notation is about binding upper Bound	
	Bigo notation is about binding upper Bound	
4 1 1 1	But Th: O(n2/n) is a junn which cannot	
	be bounded by nº logn,	
	Cike n=100	
3	\rightarrow 50, $Tn = O(n^2 Tn) = 1000000$	
	but In: 0(n2 (0gn): 10000 x2 = 20000	
	Hence,	
	rnis o (n² logn) is balse.	
7-132		
	As me can see the input patheuns with multiplication	
	abro, Hence logarithmic o(logn) complexity monedine exhibit such deastic increase with	
	monedine exhibit such deastic increase with	
	moderate input size, and out of o(n2) and o(n3)	
	0(n3) is the monst case time comparity. Hence	
5133	thind one O(n3) is the most suitable ans.	
	Teacher's Signature	