		1003	Pag Dat	ge No.: te:	γουνλ
- 27 -			Tutorial -		
		->	Asymptotic notation is used to describe time of an algorithm. Or asymptotic no how much time an abgorithm takes to u the given input Types of asymptotic notations (a) Big O notation (O) (b) Big theta notation (O) (c) Big Omega (\D) Big O \rightarrow worst case Big O \rightarrow best wering	time	wyt
	Q2 -		By a sed in cases where winding same in all cases (woust, but fore (i=1 ton) fil=i*2; } time complemely = O(log_n) as the value of "i" is incremented	st).	
	φ3 ->	_	T(n)= 3T(n-1), n>0?		
(Ф4 —	<u> </u>	$\frac{d}{dt} = \int 2T(n-1)-1, n>0,$		

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	16	time complexity of:		
	05	U Distriction of the second of		
	\	int i=1;		
		int s=1;	120	I CAN
t		while (S<=n) {	·Liftmi	
		itt; Cavilly less	1 /4 /	
		8=8+1;	4-3-10	
		print f (" # ");	yd <u>c</u> "	
		J. Harrishning		
		· into	The	
	7	ualue of $S \rightarrow 1$, 3, 6, 10 loop enecutes z times (suppose) the final value of S will be $Z(Z+1)$	- Z = 1	2
		loop enecutis z times (suppose)	0	
		'the final value of 5 will be	t.	
		U z(z+1)	z n	
			t The	1.2
		$\frac{Z^2+Z}{2}$ $= R$		
		- C - A 3 - 1 1	e1 1 1 1	
- 1	0.0	$O(\sqrt{n})$	1.1	
	Q 6	complinity of:		
		()		
2		l inthi, countzo; for (inti=1;i*i =n;i++) count ++;	MID JIE	
		l'inthit, countzo;	1 1	* 18
<u>-</u>		fou (inti=1;i*i (=n;i++)		
		count ++;		
		4		
	-)	0(n)		
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Q7			1
1	time complinity > O(nlogn)		
	time complinity > O(nlogn)	: :- : dai	
08			
J-	time complinity	Ses Now Willey	
1	fur(int n)	1 7.1	
	fur(int n) 1 if (n==1) ruturo;	· in very	
]-	Hore (i=1 to n)	ALL	
	for (j=1 ton) print (" x");	44" \ \ d.d j	
	buint* (4 x");		
	thank on had:		
	tavalintai).) s without	(
	Jun(n-3);	(2.23)	
		- X X	
	$T \cdot C = \mathcal{O}(n^2) \times \mathcal{E} = \mathcal{O}(n^2)$	10	
	n * (112) × n		
P 9	uoid fun (int n)		
	9		
	fore (i=1 to n)		
	for (j=1; j(=n; j++) printf ("+");		
	print (" +");	· Wine Hite	10
		\.\.	
	5 colologotte (102)	A > 1.1	
	ine complinity = O(n2)		
		the nite	
010	1 = 0(cm) = 11 = 12 = 12 = 12 = 12 = 12 = 12 = 1	34	
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