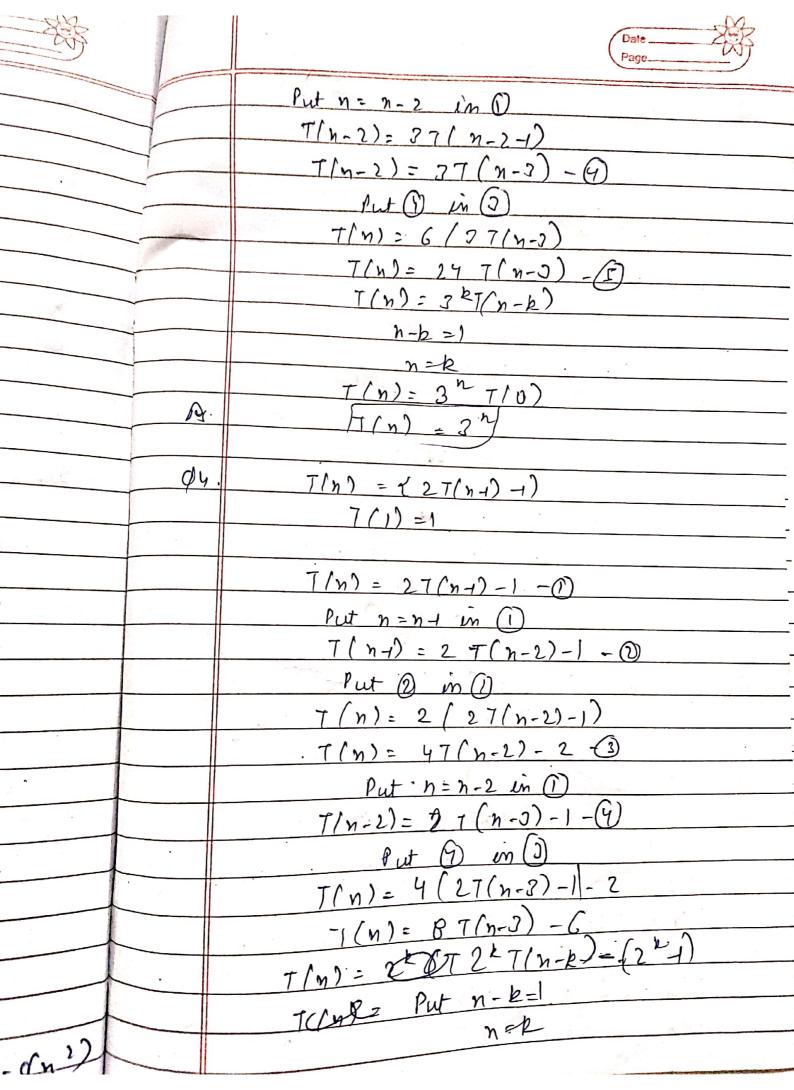


	The same of the sa
Q2.	Ter for (i:1; ic=n; &a)
	i = i v 2 '
, ,	
	1,2,4,8h
	a-1, 8-2-2
	h 2 h -1
	tn = 128 n-1
	$tp = q_2 p - 1$
	n=@1x2=7
	n = 2b
	$n = \mathbb{Z}_{2}^{k}$
	2
	2n=2k
	$k = \log_{100}(2n)$
	k = log n + 1
	T. C= O(logn)
<i>O</i> 3.	T(n) = \$ 27 (n+) il (n>0)
-	T(n) = \$27 (n+) if (n>0) T(1) = 1
•	
	F(n)= 27 (n)
٠	F/12 - 7(n) = 27 (n-1) -0
	Put n=n
	Put n=n-1 2
	T(m-1)=37(2-2)-0(n) (2) (n-1)
-A-1	
	T(n)=3(37/n-2)) T(n)= 27 (n-2) - 0 T(n)=67(n-2)-32
	1/n)= s(0/n=2/)
	1(n)=6((n-1)-6)





•	
	$T(n) = 2 \frac{n}{2n} + \frac{2n}{2n} + \frac{2n}{2n$
	T(n)=25 (2) -1) 2 (2)
	$T(n) = 2^{2n} - 2^n T(c = o(1))$
- Do	JT/n12/22m
	T.C = O(n)
φ6.	7.C= 6(In)
. 07	
· 4 +	Marie Linetin Crit and a
	Void junction (int n) 2
	ent i,j, k, count=0;
	for (i=n/2; ic=n; i+)
	(j-1, j2=n; j=j*2)
1	2
	for (b=1; RL=n: k=12)
	comt ++;
	3 3
Bu	7.(= 0/2 log2n)
Oc.	
	Remotion / int on)
	function (int n) $ \alpha \qquad (n=1) \text{ settion} \qquad (n$
-	7 7 7 100 71
	for (i=1 to n)
<u> </u>	
	for (j=1 to n) ~ print (66 4 11);
	Beint (66 8 1))
	Brunt ("), Junction (n-3) y f. (-(n))
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	Date Page
04	
	T.C= o (nlog)
010	
	ne is O(cn)
ф Ои,	
413	7. (= O(n) because the Loop is running
	from 1 to n i'e n times.
9 12.	
,	Pocussence selation for pitermacisones is
	7(n) = 7(n+) + 7(n-2) +1
	$\frac{7(1)=1}{2} \qquad n \qquad -1$
	n (2+1) (n-2) - 2
[(n2 (n3) (n3) (h-41) 3
	2.
	$7 = 1 + 2 + 4 + 8 2$ $\alpha = 1, \lambda = 2 - 2$
	Sum of yp = a(8 not -1)

	$= a(2^{nH}-1)$
	$\frac{2^{nH}}{7 \cdot (1 - O(2^{nH}))}$
	T. [- 0(2MH)
	$= O(2 \times 2^{n})$
Are.	$\frac{7 \cdot (= 0(2^{n}))}{= 0(2^{n})}$ $\frac{7 \cdot (= 0(2^{n}))}{}$
ANT.	
Q12.	
Ψ1ζ.	For time complexity = n (logn)
and the second	g:- for (1=0; i2n; i=1×2)
	Some O(1) work
	3
	For $T \cdot C = D(n^3)$
	$\mathcal{E}:$
	by Coep ? it m' itt?
	for (i=0: icn; i+1) for (j=0; j(n; j+1) for (k=0; k(n; ko+)) 9' Some O(1) work }
O Million Charles	of Come A(1) work 4
	Fol: 7.(= b(les (losn))
	Poc: / (= 0 () () () () ()
	Si- frog / int i= 2 2 20 = = bow (i,c))
	3:- for (int i= 2; sin; i= paw(i,c))
	Some O (1) work
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Page
7(n) = 7(n)u
$7(n) = 7(n)y) + 7(n)z) + (n^2)$
Cn ²
7/1/1/10 7/10/10
7(n)y) T(n/2)
(n/2
$\frac{((n^2))}{(n^2)}$
T(n)16) T(n)8) T(n)8) T(n)4)
7(n)16) T(n)8) T(n)8) F(n/4)
(n 2
(n ² /4)
Cn2/2
(n2/16 ch) 6 (n2/9
2 2 2 2 2 1 9 cm ² 1/6
(n + j(n+1) + j(n+2)
0 (12)
1-3/4)

		Com All
	9)5	
		T.C = 0 0(n2)
	Arc.	
		for (int i=2; ie=n; i= pow(i, h))
-		
		cone o(1) work
	As.	7. (= 0 (log (log))
	And the state of t	
0	10. Oras	1 Tac
1	a)/000	loglogn < logn < log(n1) < nlogn (neme n2 < 2n 2 22n 2 yn in 1
4	<u>b)</u> 1	2 cog logn / Tom c logn < los2 n < 2losn e
1-	<u> </u>	logn//n/n logn/2n eyn en261 meter
	2)	
		- 3h 2 6h 2 th 2 h 2 h
-		
- OI	9 1.5	2.52 C
	1. Who	202 Scoth
Na.		fos (i=o; ien; ira)
. 100 mg		ef (appli7:= bcg) getwn true
		getwn true
		setuen Jake
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Iterative Inscrition sort for (1=); 1'cn; 1+) ent pry: axx si]; int j= i-1 while (js=0 da arr Sj7> pey) SR (jor) = bey; Recursive Specition sort void inscrtion sort (int 0250, int n) if (n2=1) inscrtionsort (al, n-1); int lat = ass[n+] ent j= n-2; while (j > =0 q p 032 (j 7 > lest) are [joi] = are [j]; 3 ODR [] H] = lest, 3

Special and Special Special Conference of the Special Conference of th	Francisco sort et on online sorting alsositton
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	exhit available from the begginning
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<u> </u>	Lattle Sest
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-0	Schotion Sport
(m)	T. C = O(N2)
	Trage Sort
a	T.C= O(n logn) Quick Soit
	T. C = O(nlogn)
Q2:	
	Ruthle Sost
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<u> </u>	Selection Sort
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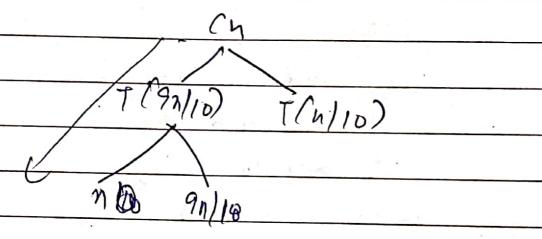


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		sterative bringer seach T-C=0(bogn) s. (=01)	ar C
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The state of the		int bimargarch (int are, int of int by)	
			,
		the while (12x)	٠
			امر
		ent $m = 1 + (8-1)/2$;	1
		if cousm? = = xcy] sctwn m;	mend
		getwin m	-
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/		WS.	un ne
		8=m1;	il.

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	Roussire binory Scoch
	J
	int princeys (coch (int + ax), int 1, ent 8, intx)
	\hat{i} $(\lambda > = 0)$
	D Z
	int mid = (x-1)/2;
	(ass[mid] == 2)
	setur nud;
	clecil (ass[mid] >2)
	setur binory Soch (as, 1, mid-1, 20)
	Use
- H	ecturn bronary scool (000, mid+1, 8, x);
	. 3
	8. Tuen -1;
	5
	7.(= 0 (logn)
	S-(= 0(xlogn)
Q24.	
	Recursing Relation for binary Scool 7/n)= 7/n/2)+1
	7(1)=)
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Recuerence relation will be



T.(= 0 (Nogn)