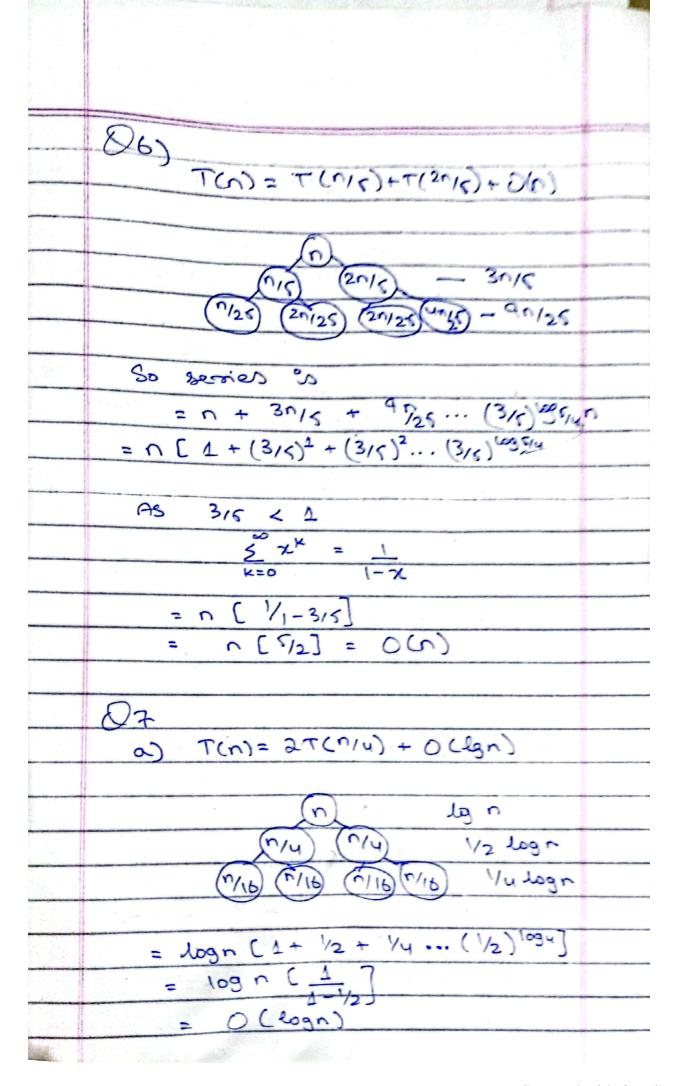
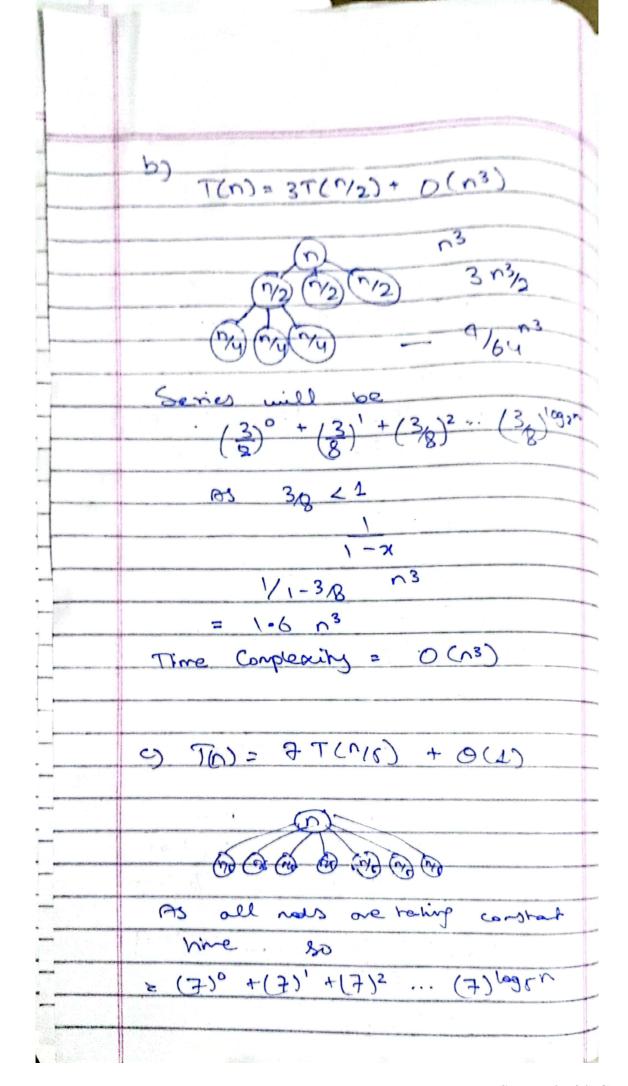
120	WNomber 201-6626	
	None: Robon Javed	
	Design & Analysis of Algoriannes	
	Assignment 1	
Test to	Qu	
	4n² < 32n logn	
	n < 8 logn	
	n/8 < log~	
	2^18 < ~	
	far v= 8	
	2 < 8	
	for v= 35	
	2 <sup>32/8</sup> < 32	
	16 < 32	
	for = 44	
	2 <sup>44/8</sup> < 44	
17	45.2 < 44	
	Hence It n= 44 insertion beat	
	merge book.	
	02)	
	2° < 100 ℃	
	log2n < log2100 n²	
	n log 2 < 10g 100 + log n2	
	n log 2 < 6.64 + 2 log n	
	60-6 n 2 1	
	1 < 6.64	
	fear 2 2 2 8.64	

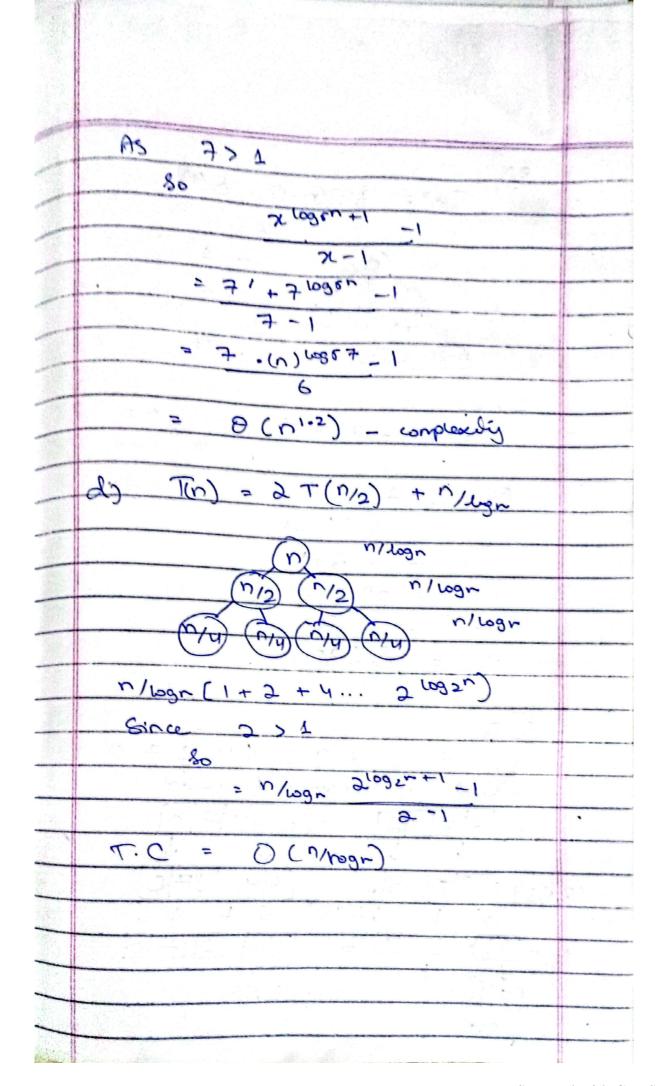
		*****
	Programme of the second	1
	n= 15	
	15 < 14.46	1
		-
-		#
	Q3) a)	+-
	1+ 1+ L+n +n -1	-
	2n +2	-
	2n+2 < C no= 4	-
	2+ 2 < C	-
	242 < C	-
	4 < 0	-
	2+1<6	-
	3 < U	
	Time Complexity = 0 (n)	
	b)	_
	$24144 + log_2n * log_2n + 1$ $24 + 2 log_2n^2$	_
and the second	$T \cdot C = O(\log_2 n^2)$	
	7.C = 0 C wg21.	
		_
	4 + 3 logyn	
	1+3 logun << logun	
	c=4, n=5	
	T-C = 1+3logun	

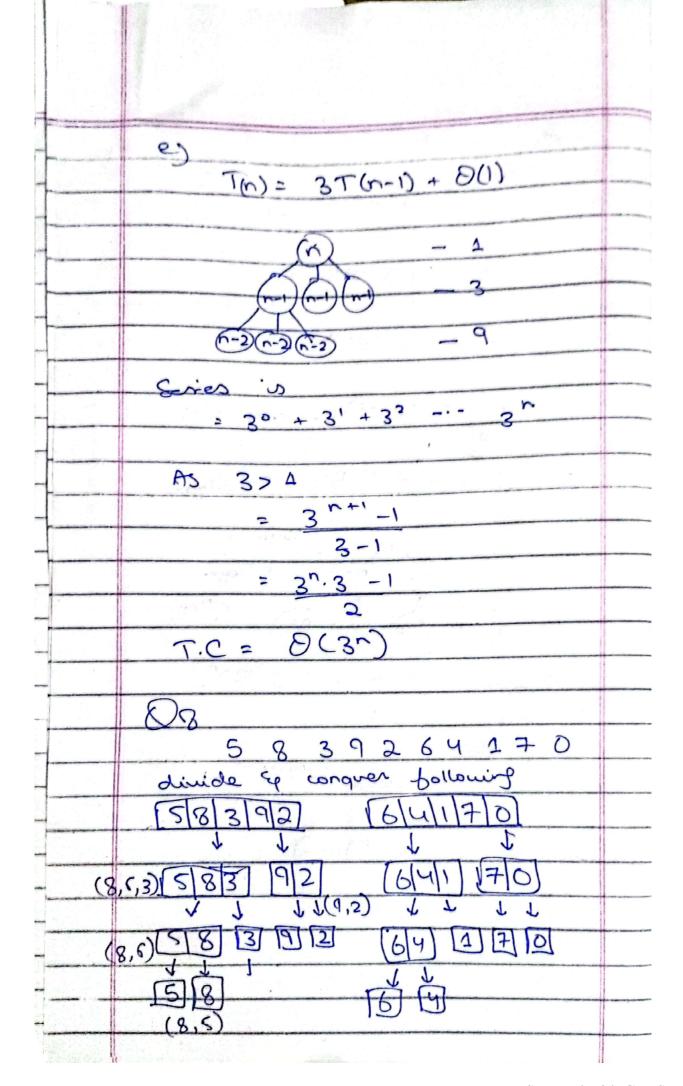
Company of the control of	
-	du
	Pseudo Code
	int 068, 5:30
	for i=0 no size -1 (n-1)
	int min = i Ca
	pag ?= 1 so size (n-1)(nd)
	(1-1) [m) Enim3 800 [j) 800 ];
	min = j
	i++ (n-1)(n-1)
	· ++ (n-1)(~1)
	int temp = oce Ci3 (n-v)
	cree Ci] = aso Cuin]
	oros (mir) = temp
	i + +
	end
	2(n-1) + 4(n-1)2
	Time complexity = 0 (n2)
	BEDY LOISE: Is one we seed is
	already sorted but Still me
	algorisme dass same number of
	steps i.e O(n2)
	whomst case: 13 when the overay is
	in descendif order but shill the
	where I we also me
	will be O (2)

	8'5)
	T(n) = 1/2 n3 - 5n2
	c2 b(n) ≤ 18n3 -5n2 ≤ c, c(n)
	1/8 n3-5n2 = c1(n3)
	1/8 - 5/n < <1 re=50
	18-10 < CI
	5-4 < CA
	YO .
	140 5 CA
	0.028 ≤ C1
	At n= 54
	V8 - 5/51 ≤ 0.028
	0.126-0.048 < 0.028
	0.027 4 0.028
	c2 (n3) ≤ 1/8 n3 - 5n2.
	c2 ≤ 0.026 no= 50
	At n= 64 18-5/20.020
March Company of Company of Company	0.027 2 0.020
	T(n) is O(n3) and Q(n3)
	Hence T(n) is O(n3)
_	









Right: (6,4) (6,1) (6,0) (4,1) (4,0)	
(1,0)(7,0)	
Left: (5,3)(5,2)(8,3)(8,2)(9,2)	and the same of the same of
(3,2)	
Split: (5,4)(5,1)(5,0)(8,4)(8,0)	
(3,1)(8,7)(8,0)(8,1)	
(3,0) (2,1) (2,0)	
	A-14-0-1