

For Calculating sum, we have to colculate No. of Torms

a & 2 -1 = m

 $\alpha = 1$ ,  $\tau = 2$ 

- 2(2-1) ·= n

109 (2) x-1 = 1092 (n)

 $x = 1 + \log_2 n$ 

- Number of levels = 1 + log n.

2 - Number of Nodes = 1+2+4+. >

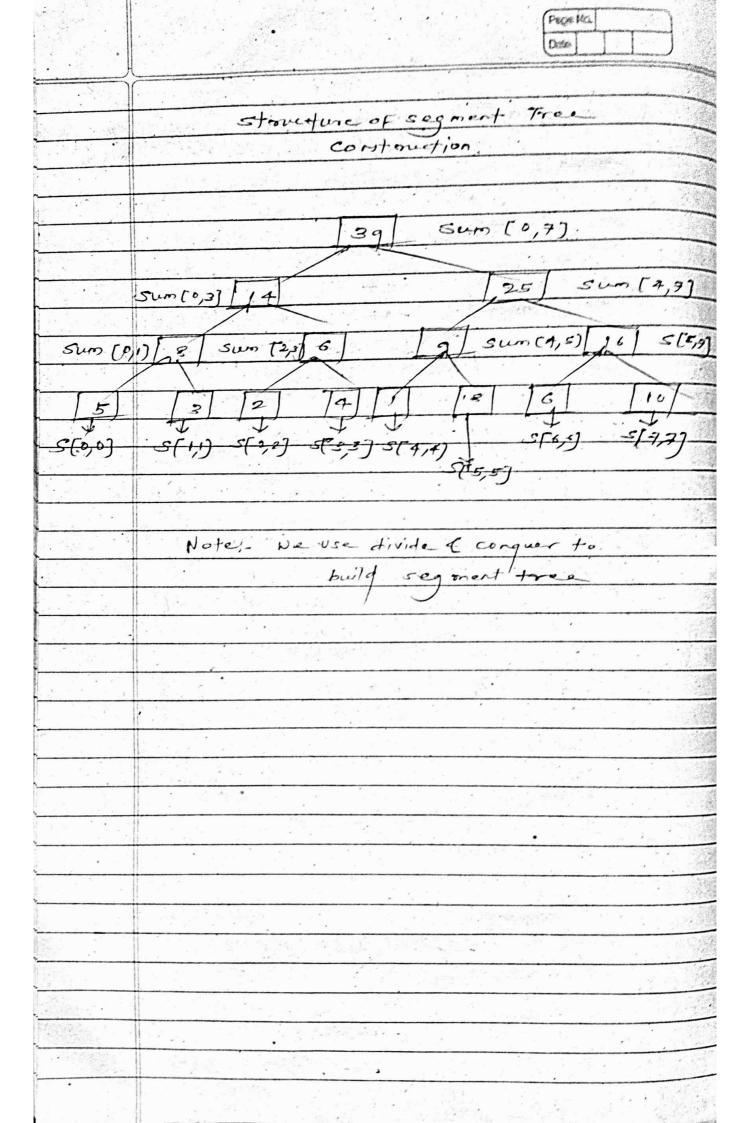
= 1 [(2) 1+logh-1]

2-1

= 2 [(2) 17197-1)

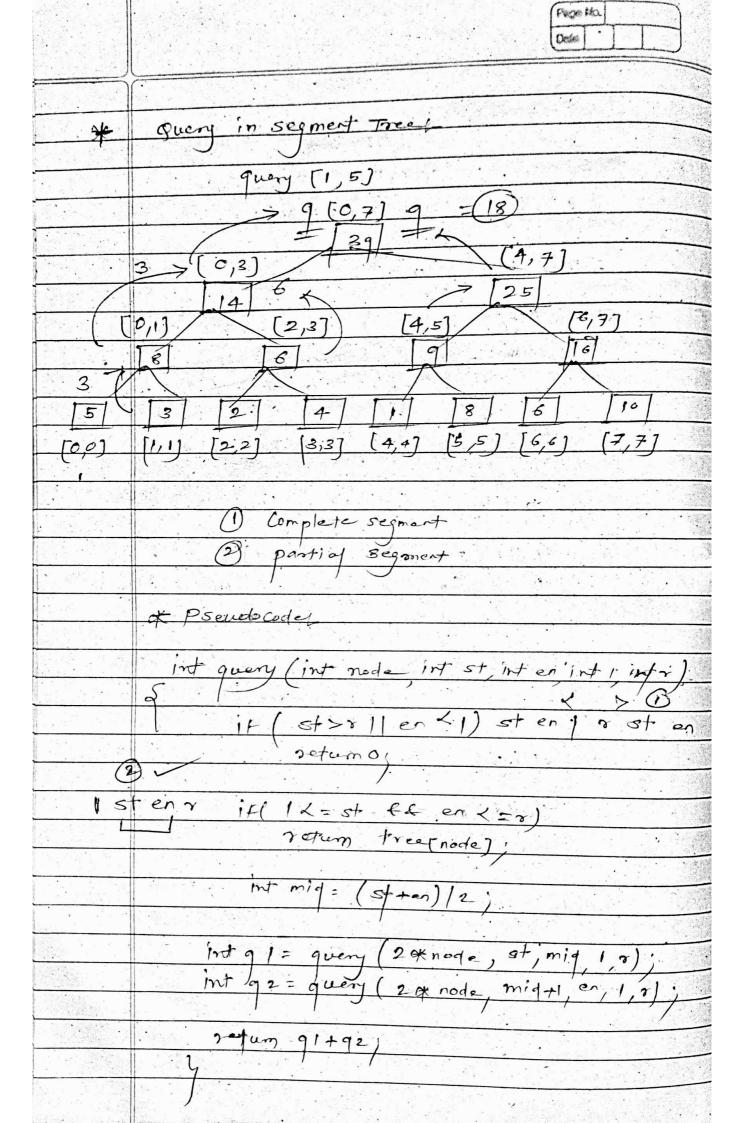
= (2n-1)

For odd No: - tree size = 4 xn



	Single Mal Control Laboratory
	The second control of the control of
	Pseudocode
	10 +2
	cont int N = 905+21
	int a [N]; tree [+ N];
150	
	void build (int mode, int st, int en)
	) ; f (st==en)
	tree [node] = a[st];
	return;
	int mid = (st +en) /2)
	build (2 * node, st, mid);
	puild (20x node +1, mid+1, en);
	tres[node] = tree [ 20x mode] +
	tree[24nole+1];
	Calling Function
	buld (1,0n-1);
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	Property Complete Com
	* Maximum & Minimum Quenes   updates
	Query = Output the maximum minimum For the
	Sup-amay a (i 1)
	2 Update = Update the ith element of the array are (idx) = updated value.
1.5	array arr (idx) = updated value.
•	6 8 -1 2 17 1 3 2 4
	0 1 23 4 5 6 7 8
	[0,87
	17
r +	0,4 (5,0)
	1171
	(0,2) 7 (3,4) (5,6) (7,8)
	10 [2] [3] [4]
i.	
3	(%)
	18 18 14 17 17 13 12 14
	(3,3) [4,4] [5.57 [5.67 [7.7] [8,8]
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<b>V</b>	
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