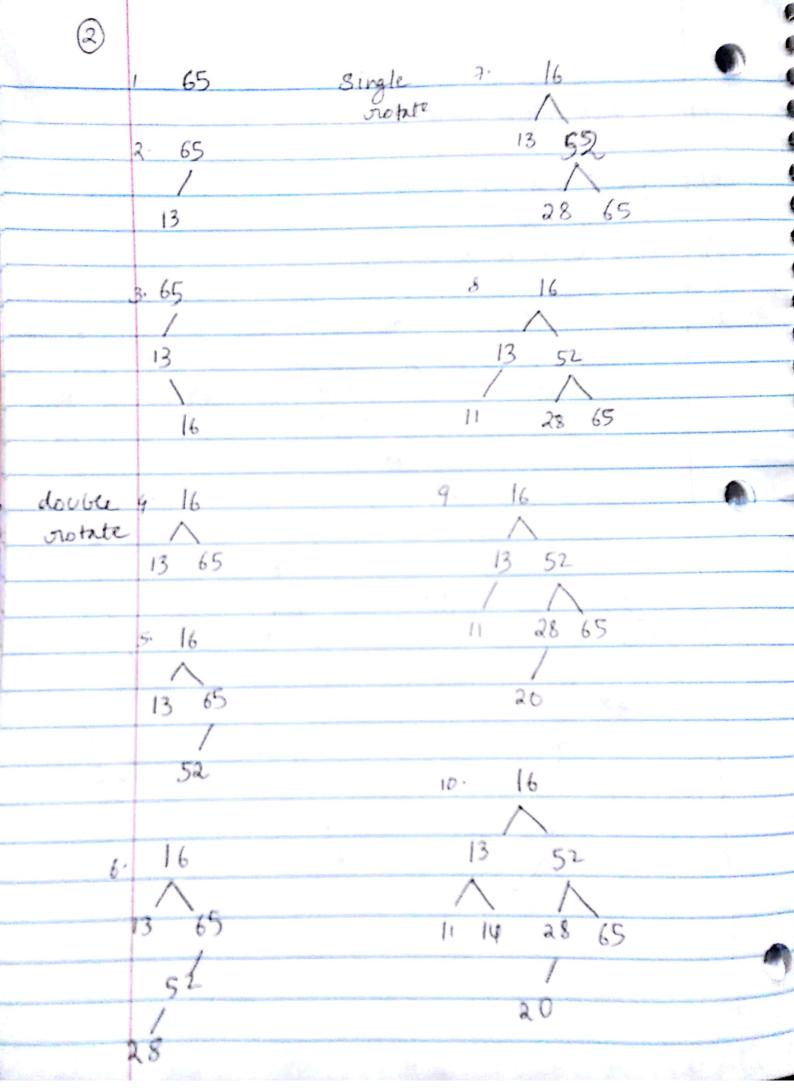
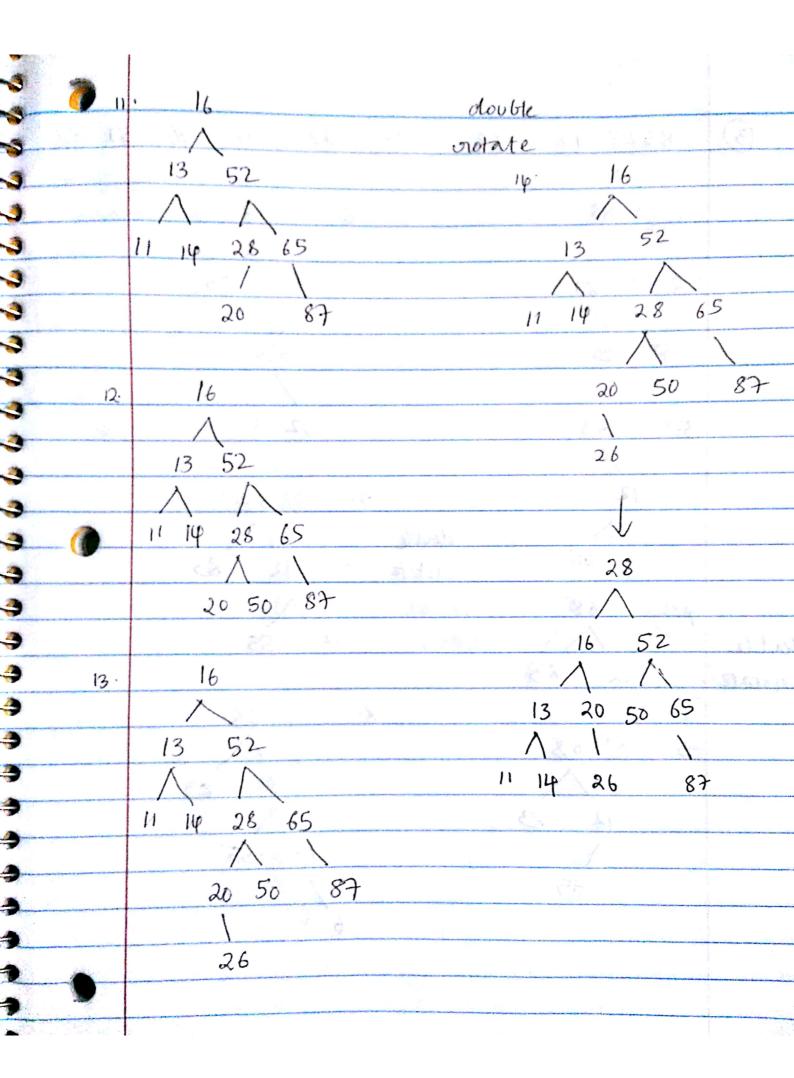
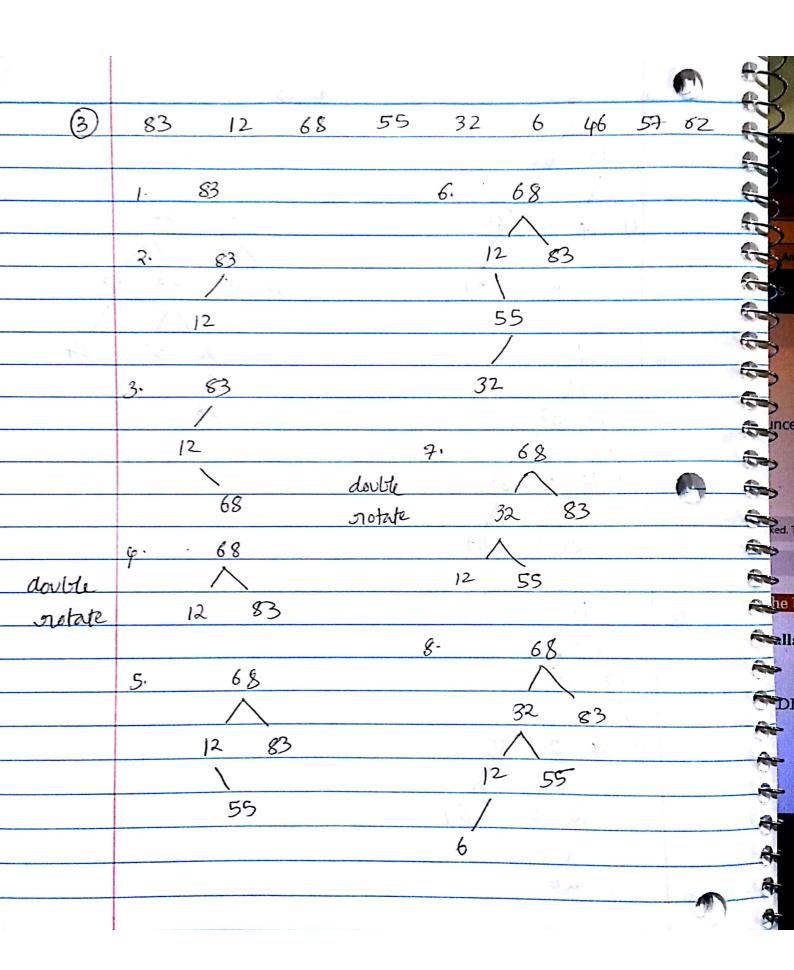
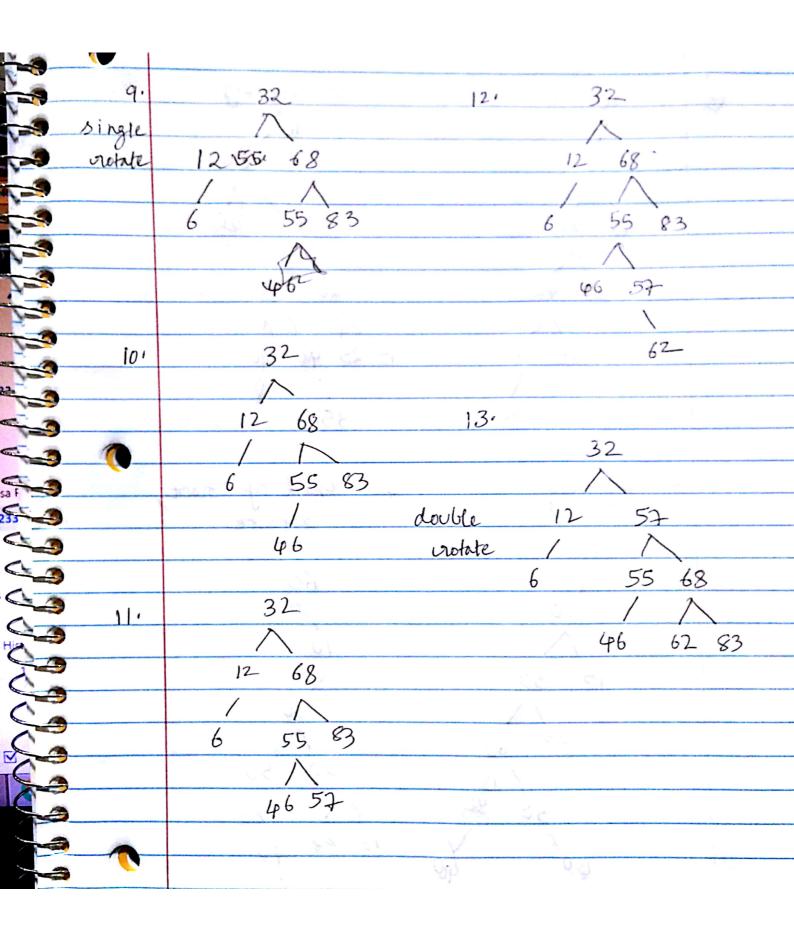
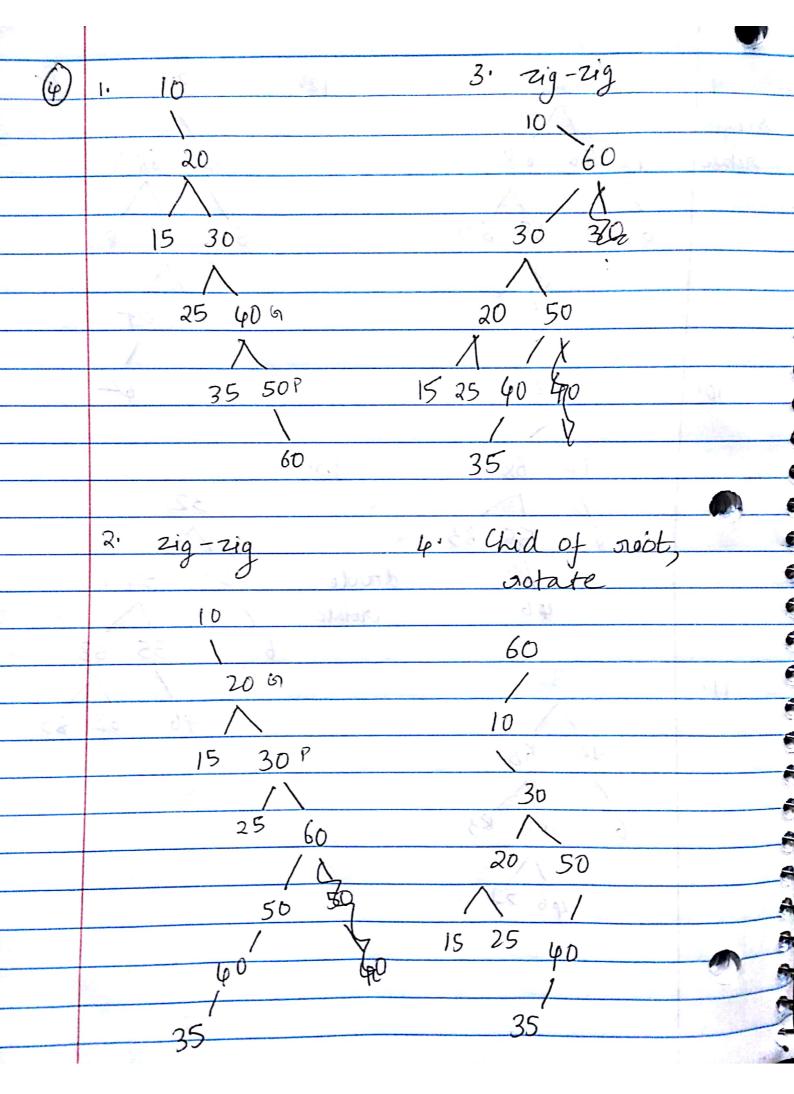
a) acedgn rws
b) ge cad rnsw
c) acdenwsrq

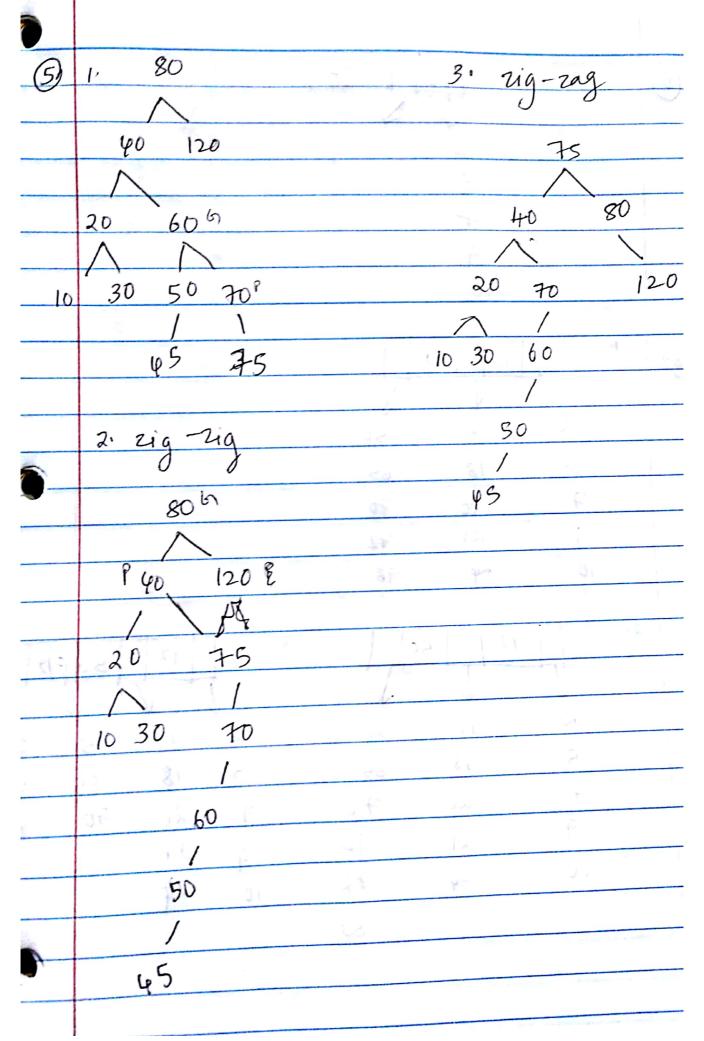


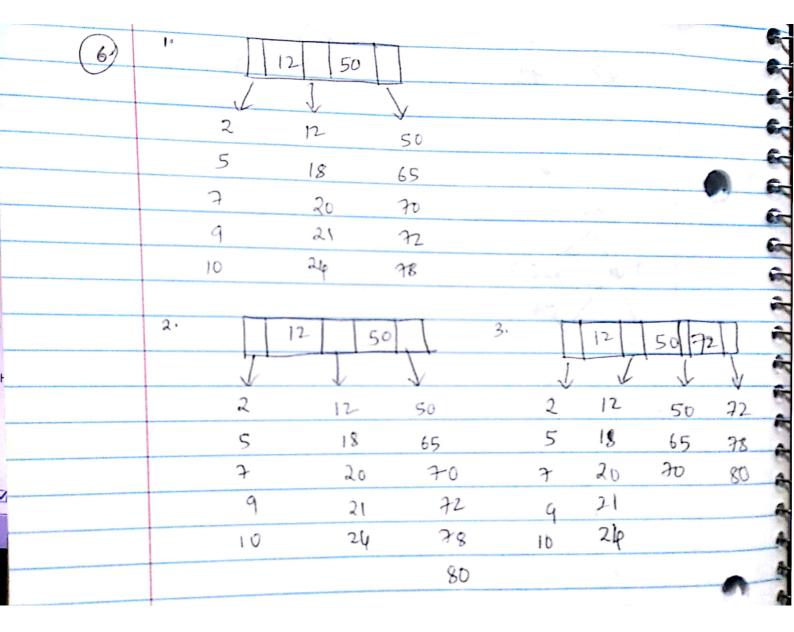


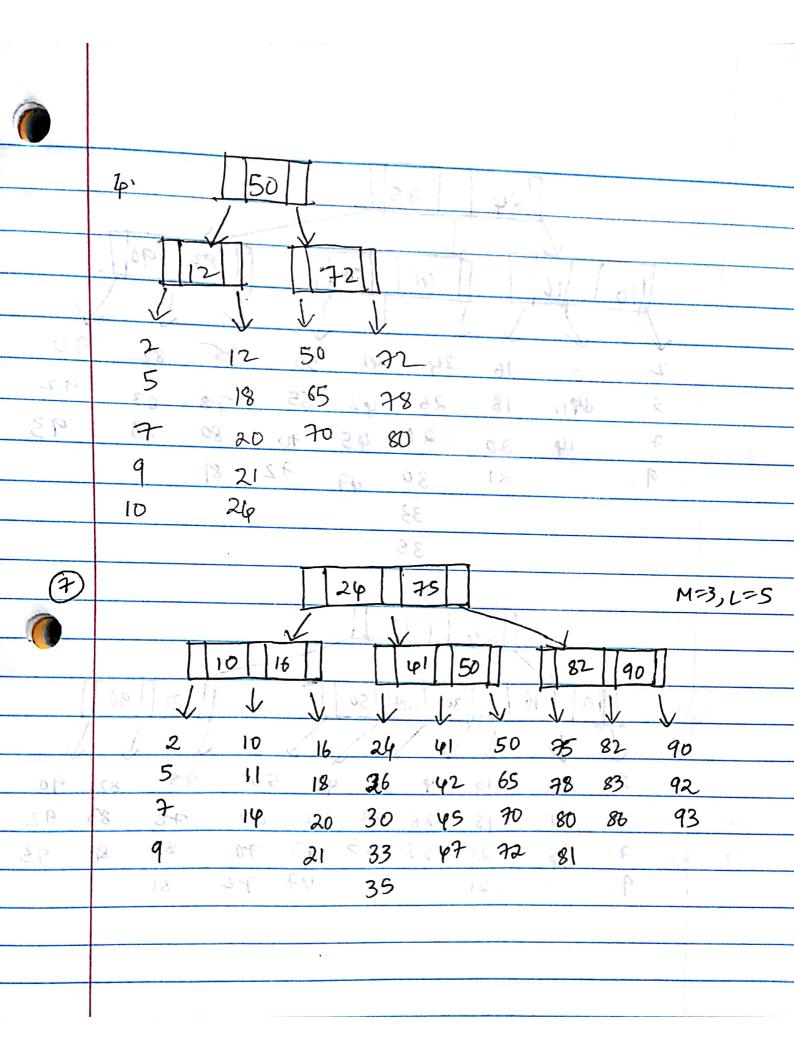


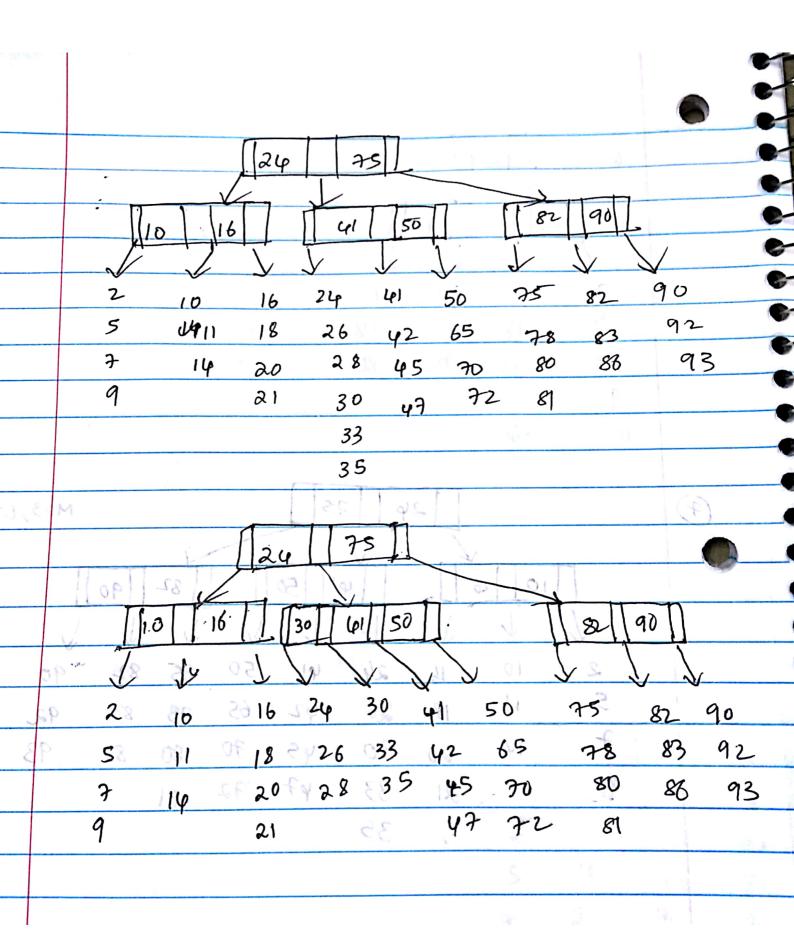


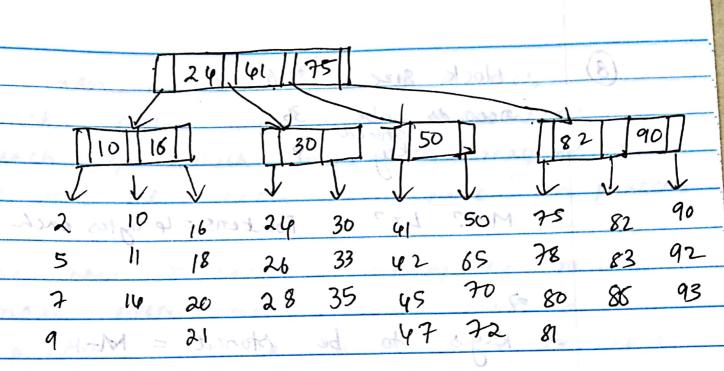


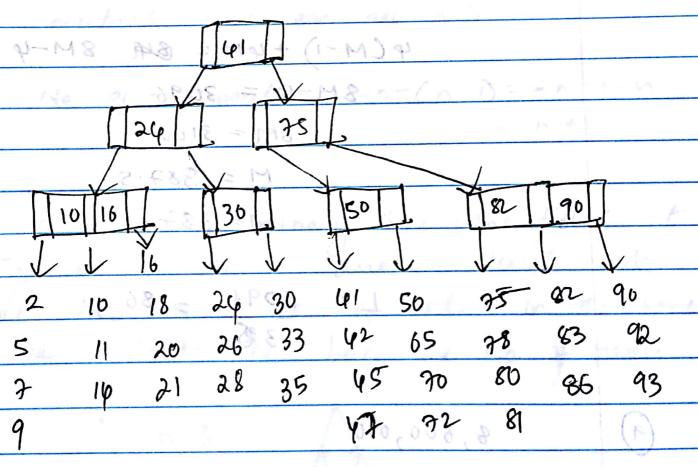












20

8	block size: 3096
of the second	
2   6	records to be: 36 stoned key: 4
J	
7.8	M=? L=? Pointens = 4 bytes each
83	86 2 59 ARTH 82 98 A 54 5 5 38
28	12 32 45 35 45 FG 80
	Keys to be stoned = M-1
	4 CM-1) + 4M = B49 8M-4
	$8M - \varphi = 3096$
	8M = 3100
	M = 387.5
	M= 387
in de	I de le de
0.7	2 L'= 3096 = 86 0; C
18 A	3 <b>5</b>

9000	8,600,000
Elect &	P1 = 12
-1	L=86
	Λ
(B)	Assuming the worst case that all the
715	Assuming the worst case that all the viccords are half-full,
	The second secon
0000	8,600,000 = 200,000 leaves
	2
	1000 pol 100 100 100 100 100 100 100 100 100 10
	textes: There are atmost 200,000
	(387/2)
	= 258.39 nodes at the level before
0	the leaver.
7	
1	109 N 31 200,000
	$\frac{109^{10}}{200,000} = \frac{109^{10}}{5.301} = 2.19$
1	10gM2 10g 387 2.28
	2.19~3 => 1 0.410 000 31
	2.19 × 3 => Levels are 3+1=4

Consider a binary true of n nodes, (10) each node will have 2 pointens, null, so the tree will have an pointens. We have n nodes, excluding the null node, every nede mist have a pointer pointing to it, hence, we have n-1 pointers that are not null. No. of null pointers = 2n-(n-1) = 2n+1-n - n+1. In a penteet binary tree (one filled at every level), adding another level will make the total no. of nodes in the trace to be 2N+1, N being the no. of nodes 2n+1=2(3)+1 rd 2n=7 m's (a) de