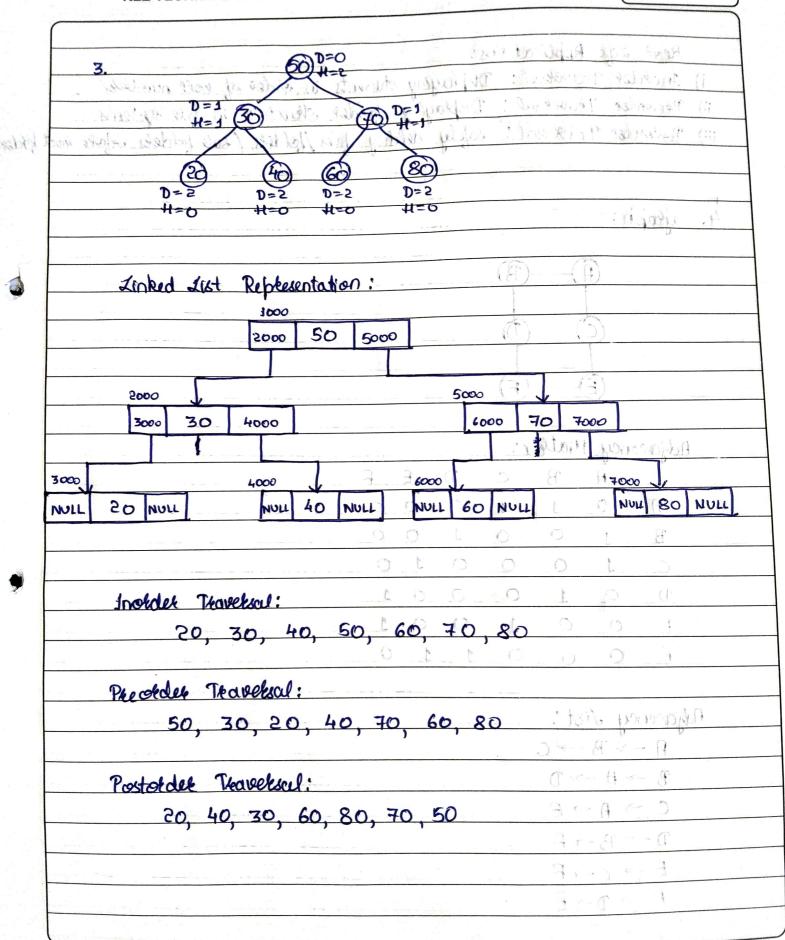


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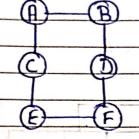
- Real Ege Applications:

 i) Include Transtal: Displaying students in order of toll number.

 ii) Product Transtal: Displaying folder Structure in file systems.

 iii) Producter Transcral: Eafely deleting files/folders (sub-folders before tod folder).

4. Graph:



Adjacency Matrix:

-	-	-				
	A	B	C	D	E	F
	to grade	1			-	- promote

Adjacency List!

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BFS:	at the state of	
A, B, C, D, E, F		
	1 4 5 7 7 6	
DFS:		
A, B, D, F, F, C	A. 1	A
5		
	hm	101
Dijleshatka's Algodat		- W 1
Q 4 D	il de l'est	2 / 3
2 5 30	A Justine Company	Y .
	1.0 - 51	2
7 4		
Stakling Kom (A)		1.51.21
$(A) \rightarrow (B)$	e of a philade in a	
(A)-(C) 2) <u> </u>
	,°	1
Visit (C) => Distance = 2	Vyil (B) ⇒	Distance = 4
(C)-(E) 3		
		0
Visit (B) => Distance= 2+3=5		
(E) D 4		
(E)-(F) 5	_	
	0	0 00
Visit (F)	++ +	***
= Path (B) = B) = D > B		
Path (A) - (C) -> (F) -> 1	Distance = 10	

		SING TO SERVICE A SOCIAL ASSOCIATION OF THE SERVICE ASSOCIATION OF THE SERV
6. 43, 22, 1, 31, 77, 99, 11, 55, 60		
Chaining:		
AR) = k % 10		
43 % 10 = 3 > Index 3		
25 % 10 = \$5 = 3rdex 2		Value
1 % 10 = 1 => Index 1		[60]
31 1/2 10 = J => sodex 1		[1-31-11]
77 % 10 = 7 = 1 odex 7	5	20
99 % 10 = 9 = 3 sndex 9	3	<u> </u>
11 % 10 = 1 = Index 1	4	
55°6 50 = 5 ⇒ Index 5	5	[55]
60% 10 = 0 = Induco	6	[]
	7	[7-7]
	8	
	9	[99]
Jineak Pholeing:	- G-12	4 1 1
Key h(k) Josethian Joda		6-4
43 3 3	Index	Value
55 5 5	0	60
1 1 1	1	7 1 ··
31 1 4	2	22
77 7	3	43
99 9 9	4	31
11 1 5	5	44
55 5 6	-	
60 0 0	-	55
	7	77
	8	_
	9	99

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Quadrating Prolong: Index = $(h(k) + i^2)$ 210 for $i = 0, 1, 2$,	
Key b(k) Index		
43 3 3		,311
5 2 25		
$31 1 i=1 (1+1^2)^2 \cdot 10 = 2$	· · · · · · · · · · · · · · · · · · ·	1
i-2 (1+4)%10 = 5 (fee)	4	
77 7	- 12	- Landania de la companya della companya de la companya della comp
99 9 9		
11 1 $i=1$ $(1+1^2)$ $30=2$		
i=2 (1+4) 250=5	j'	1112
i=3 (1+9)%10=0 (kee)		i b
55 5 i=1 (5+1)% 10 = 6 (feee)	1	
60 0 i=1 (0+1)610=1		
i=2 (0+4)%10 = 4 (Kell)		la de la
	lide (1 Tolk
Index Value	<u> </u>	
. O and have - 11 age	1.1.	e la la la característica de l
5 22		
3 43		1 K
		3 1 E
4 60	V For Laboratory	
5 31		
6 55		I I
7 - 77		
8		
99	4	