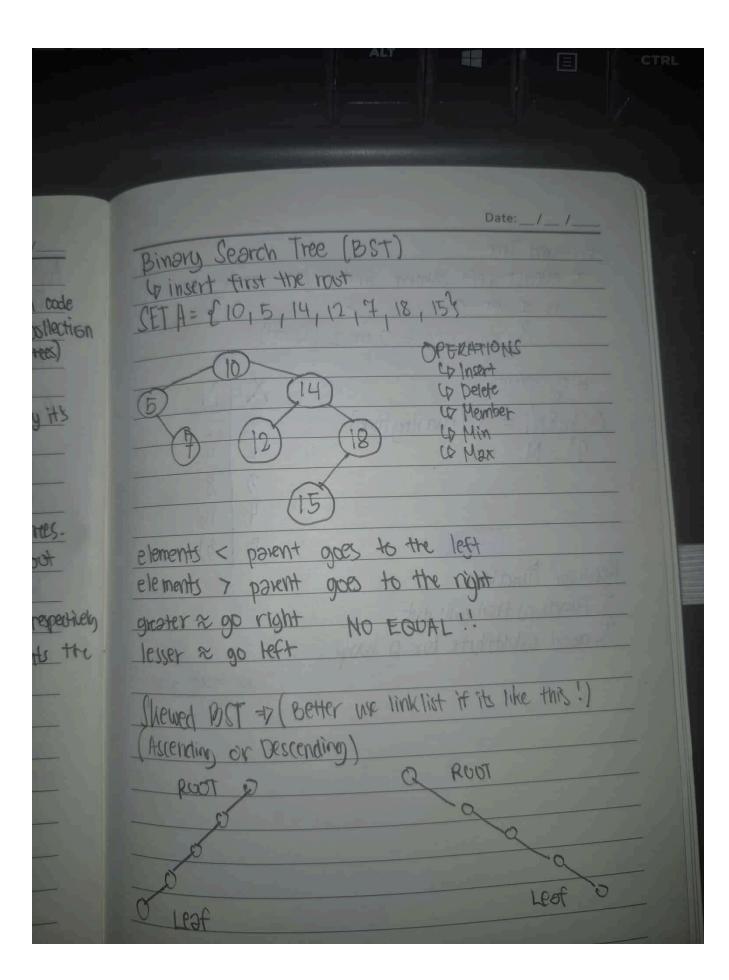
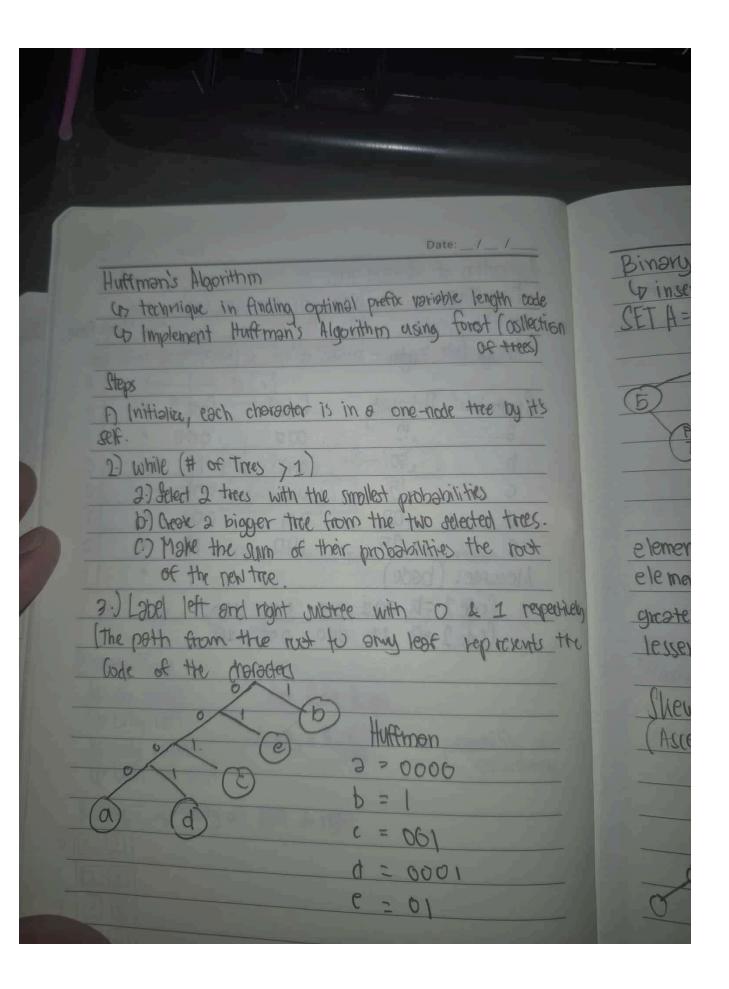
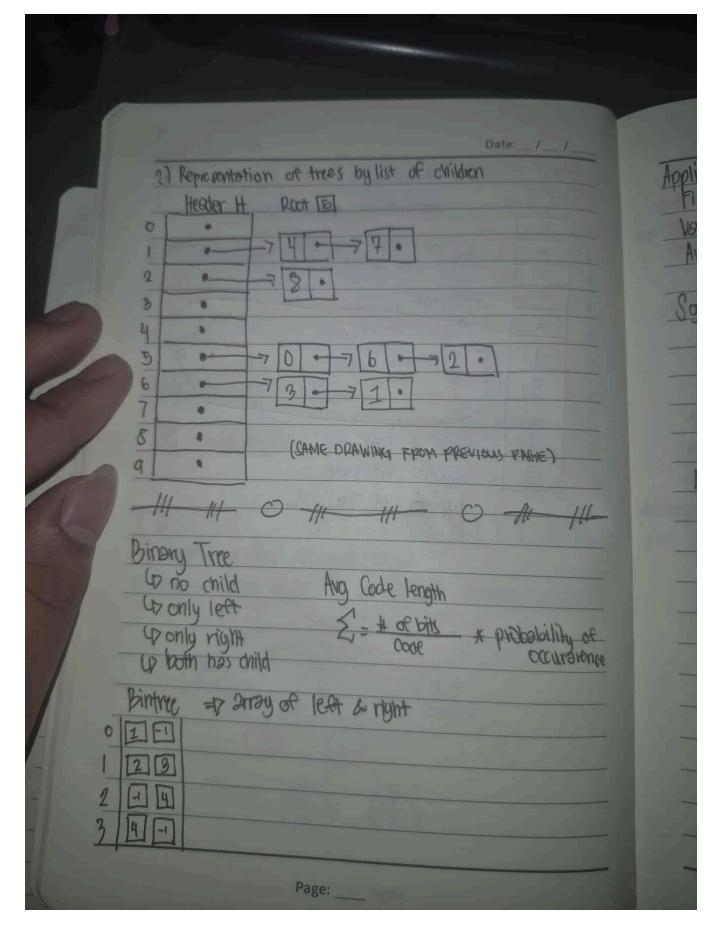
		Date://_	
	Balanced Tree		
	Atleast Left subtree and Right is a or o.		
	CLS1-LS2=0 or 1 (Go	∞	
	H of elements	VIII	
	O(log (N) = x (ruming time)	A N	И
	T = N	2 4	
		3 8	
D	HIGH SHE SE	4 16	
4	Euralie Functions	5 32	
7	Functions that calls itself good substitute for a loop	Se & Mansla	
	sour supstitute for a loop	The state of the s	ı
		No Groger -104/25	
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	Array on Localington	To addition 1	

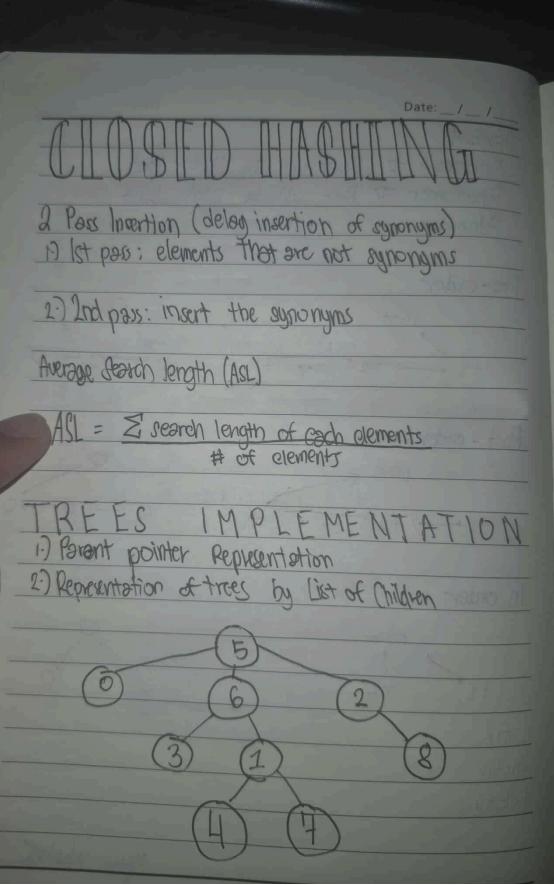


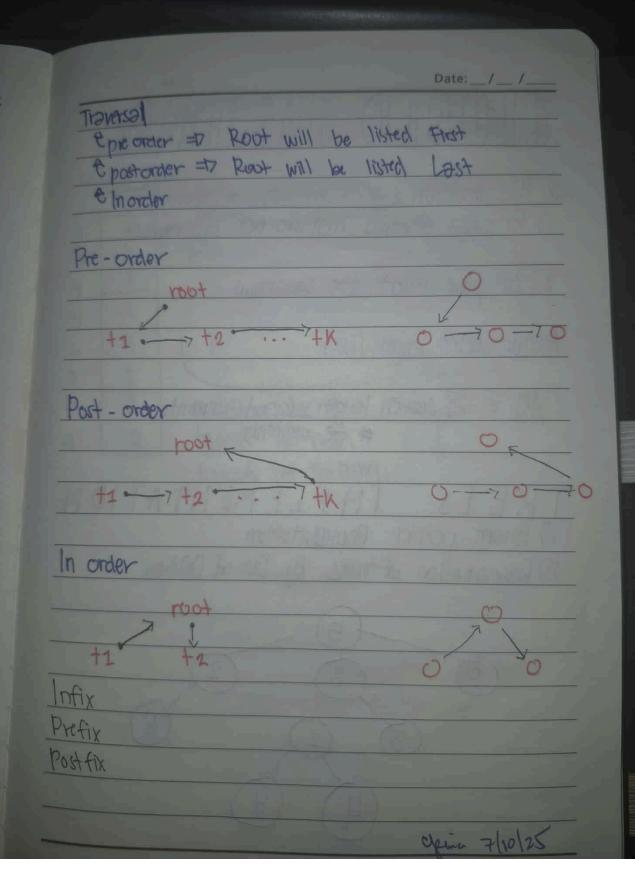


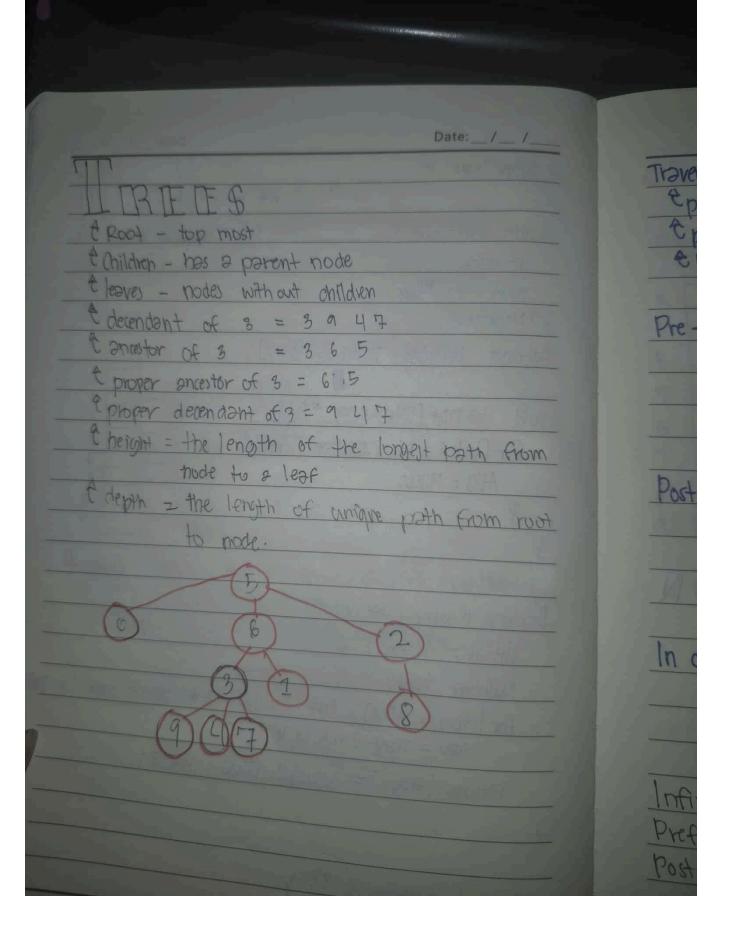
Date://
Average (bde length - number of bits * probability of occurrence
Symbol Probability Code 1 Code 2 a .12 000 000
b .40 001 11 c .15 010 01
d ·08 011 001 e ·25 100 10
Message: (bade) Code 1 = 0 001 000 011 100 Code 1 = 0 11 000 001 10



	, D	Date:_/_/
	hent Po	ointer Representation
0	5	(DRAWING IN BOTTOM LEFT)
1	6	- left and night most child is not aupported unless its sorted (Ascending).
2 3	6	Access via: H
4	1	node PARENT (node n, Tree T) ?
5	-1	7 return T[n]i
6		111
8	1	# define MAX 10
9	-2	typedet int node;
		typedets int Tree [MAX]:





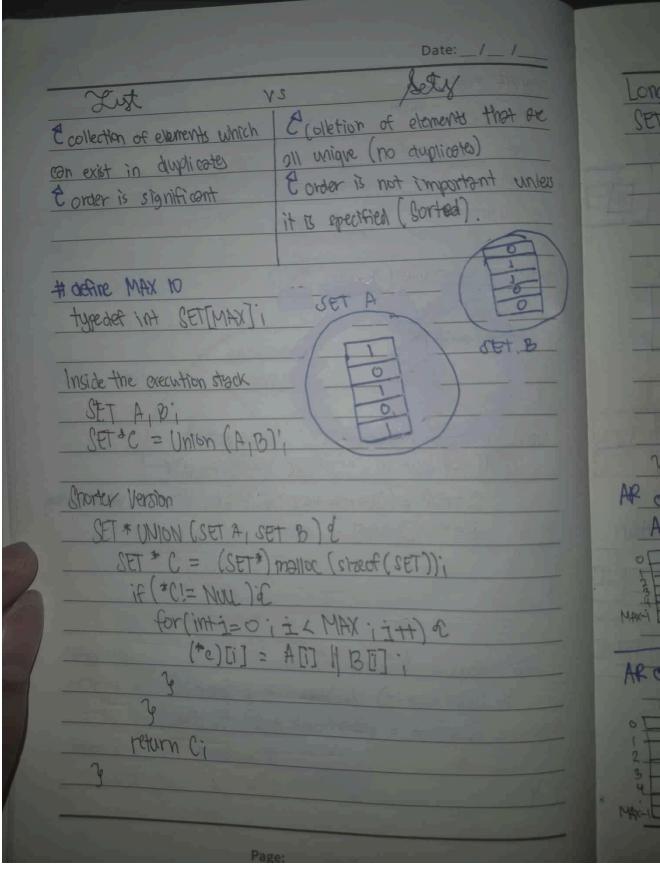


Date: _/_/ 0 A) Open Hashing SET A= £3, 5, 26, 23, 7, 15, 55, 18, 105 } Dictionary A The size of the empy is the number of groups. 715075 Grouping: one's digit =17 hash function if open hashing =17 hashing naturns thee group the exement is member of group the exement is

	Date: / /
2 kinds of right shift >>	
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o logical right shift pad	wlo
A STATE OF THE STATE OF THE STATE OF	
ther X: Unsigned int	Ui.
1 but 4 byto	*
₹ 8bits ₹ 32	bits
A Sura	sible value x o to 255
128 to 121	*/DE 13/DE 10 0 (0 10)
and the latest and the same of the latest and the l	JE STOP A STOP THE PARTY.
Lake the fill of the first trace is	

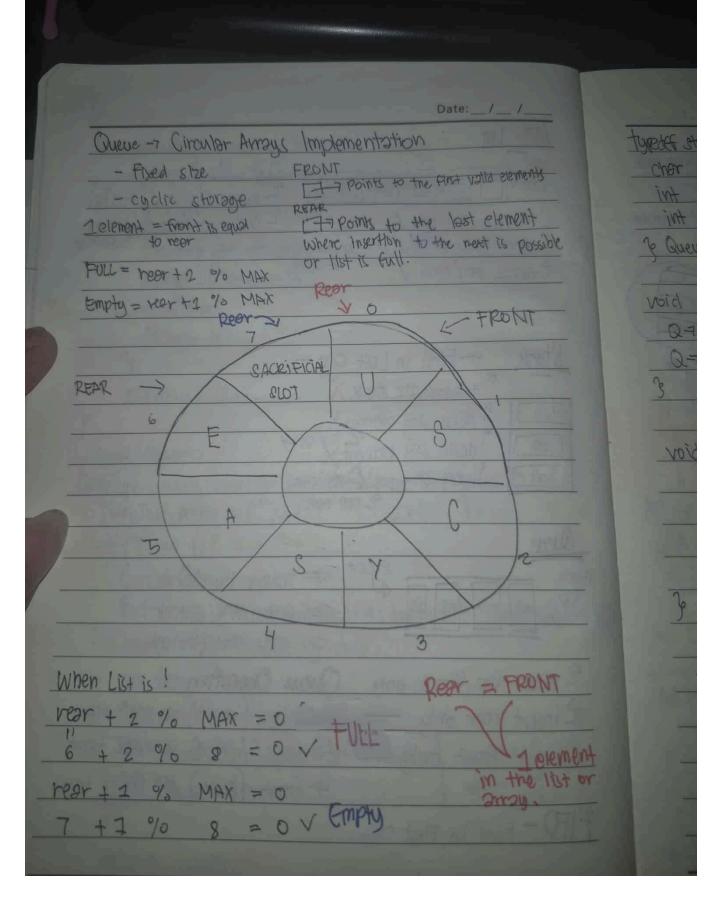
Date://_
Chatgot sold: "A bit vector (also called a bit set, bit array or bitmap) is a compact array of bits (as and 13), where each bit represents a basilean state (true/folse, on/off). Instead of using 5 bits or 1 full byte for each basilean, a bit rector was just 1 bit making it memory efficient." Conjugated set is used as 2 (u) in bit vector, whereas in says the universal set is used as interes.
inclusive $GR = 1 = 1 = 1 = 1$ $GR = 1 = 1 = 1 = 1 = 1 = 1 = 1$ $GR = 1 = 1 = 1 = 1 = 1 = 1$ $GR = 1 = 1 = 1 = 1 = 1 = 1$ $GR = 1 = 1 = 1 = 1 = 1$ $GR = 1 = 1 = 1 = 1 = 1$ $GR = 1 = 1 = 1 = 1 = 1$ $GR = 1 = 1 = 1 = 1 = 1$ $GR = 1 = 1 = 1 = 1 = 1 = 1$

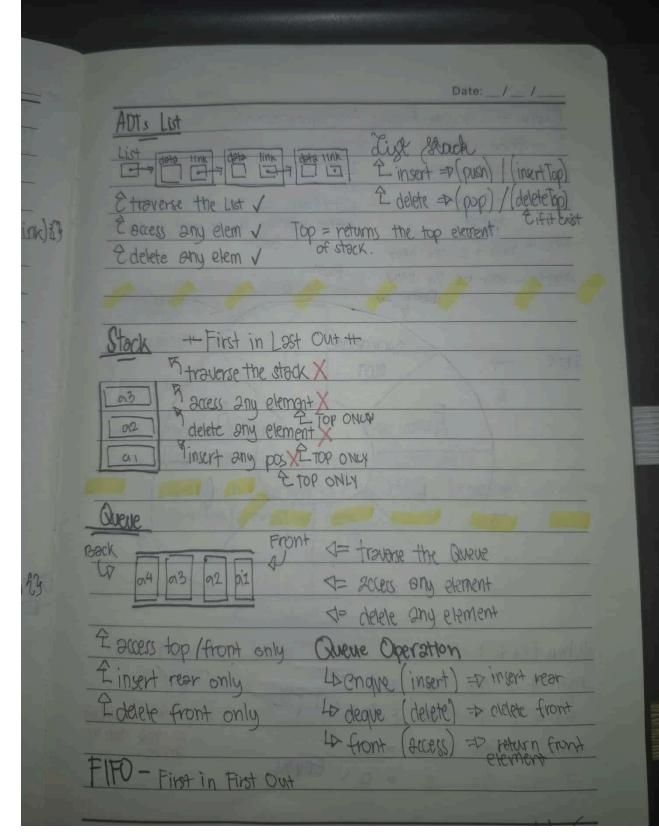
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2 1	→ 0=0 × 0
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			Date	:_/_/
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Diene	ekm[MAX];	11 MAX 15 8		
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Q-71	eer = MAX-1;			
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	phoneus (Que	cue *Q , char	(943) £	
) % MAX !=		
		(=1 rc9r+2) %		Free Constant to D.
		aFT = data;	College of the second	
	O relations	ar) = 02121		
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	deaueus (Qu	neve * Q) (
		% MAX != 1		
	026-01-3	(Q7 front + 1) or hinter	
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	ALEXIM
int shoc & pace (Mirtual Heap "MH) & int temp = VH-7 Mual! Re (temp != -1) & VH-7 Mual! Re (temp != -1) & VH-7 Mual! YH-7 Mual! = VH-7 Mual! YH-7 Mual = Index! VH-7 Mual = Index! VH-7 Mual! = Index! VH-7 Mual! = MAX -1 Soc infl. ICT (Virtual Heap "VH) & VH-7 Mual! VH-7 Mual! = MAX -1 Soc infl. ICT (Virtual Heap "VH) & VH-7 Mual! VH-7 Mual! = MAX -1 Soc infl. ICT (Virtual Heap "VH) & VH-7 Mual! VH-7 Mual! = MAX -1 Soc infl. ICT (Virtual Heap "VH) & VH-7 Mual! VH-7 Mual! = MAX -1	init. IST => initialites the cursor baselist to be connected of locepace => returns the index of the mest available space and -I if the array or list if call. deallocatace => Makes the note or index obailable for the next deallocatace => Makes the note or index obailable for the next

MEMORY 2 Stack: Fast, short-term, auto-managed memory for local variables.
2 Heap: Flexible, long-term, manually-managed memory for dynamic data. STRING POOLSTYXXX StrI & stra 0==(812, str2)==0 STRING, "Hello There" POOL potes on tursor backd?? Page: ageira 6/30/25

	Visualization in Memory	
	Stack Memory Heap	
STAD	LIST L POTENT CITY POTENT CIT	
CT	STRUCTURE	
	LINKLIST	
	LIST L dotte link chate link S	
	Note:	
	⇒ When using malloc always check if it is successful for good practice.	
	=Data Segment is the part of 8 program's memory where Global variables, static variables (inside or outside functions)	
	- String Pools Children	1
	- is a sthered memory area that stores only one copy of each unique string literal. When multiple variables are assigned the same string literal they point to the same promy actives in the pool saving memory.	
	char*str1 = "Hello There"	
	char str3 [16] = "Hello There"	
	Pages	

