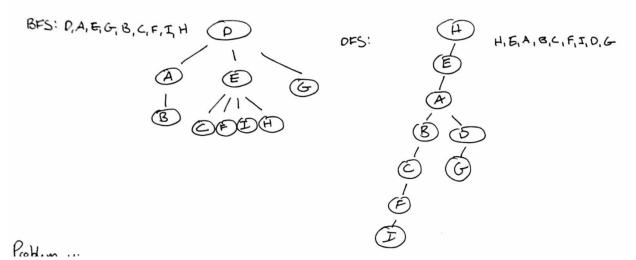


documents from iCloud

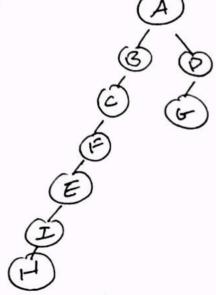
Problem 3:



troblem 4:

Cannot do topological graph due to multiple cycles

DFS: A, B, C, F, E, I, H, D, G



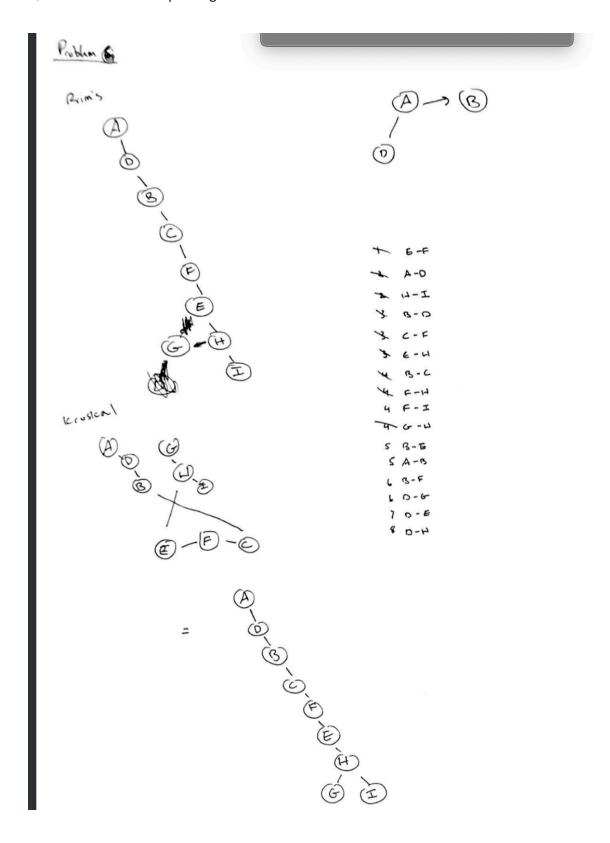
Node	Shortest Distance from S	Previous Node
S	0	
Α	1,7	S,D
В	3	A
С	5,5,7	B,E,F
D	4,8	S,G
E	3,7,11,14	A,D,G,H
F	6,7	E,I
G	6	S
Н	12	G
1	6,18	E,H
t	9,9,10	C,F,I

There are 3 shortest paths from S to t.

S-A-B-C-t

S-A-E-C-t

S-A-E-F-t



Question 7: Hash Tables

Linear probing

0	1	2	3	4	5	6	7	8	9	10
13	94	39	16	44	88	11	5	12	23	20

Quadratic probing

0	1	2	3	4	5	6	7	8	9	10
44	12	13	5	88	23	94	39	11	16	20

Double Hashing

0	1	2	3	4	5	6	7	8	9	10
44	12	13	88	16	11	23	5	20	39	94