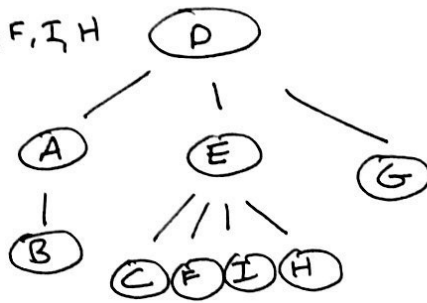
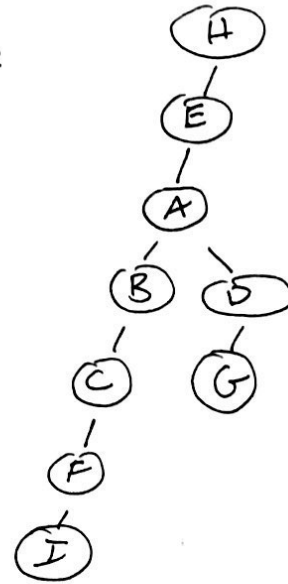


Problem 3:

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



DFS:

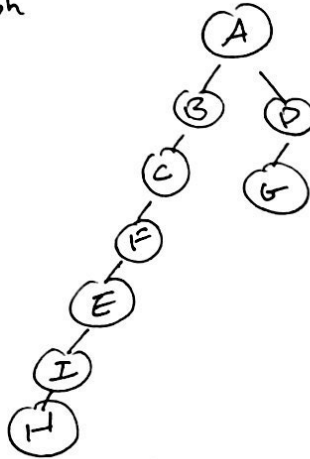


H, E, A, B, C, F, I, D, G

Problem 4:

cannot do topological graph
due to multiple cycles

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

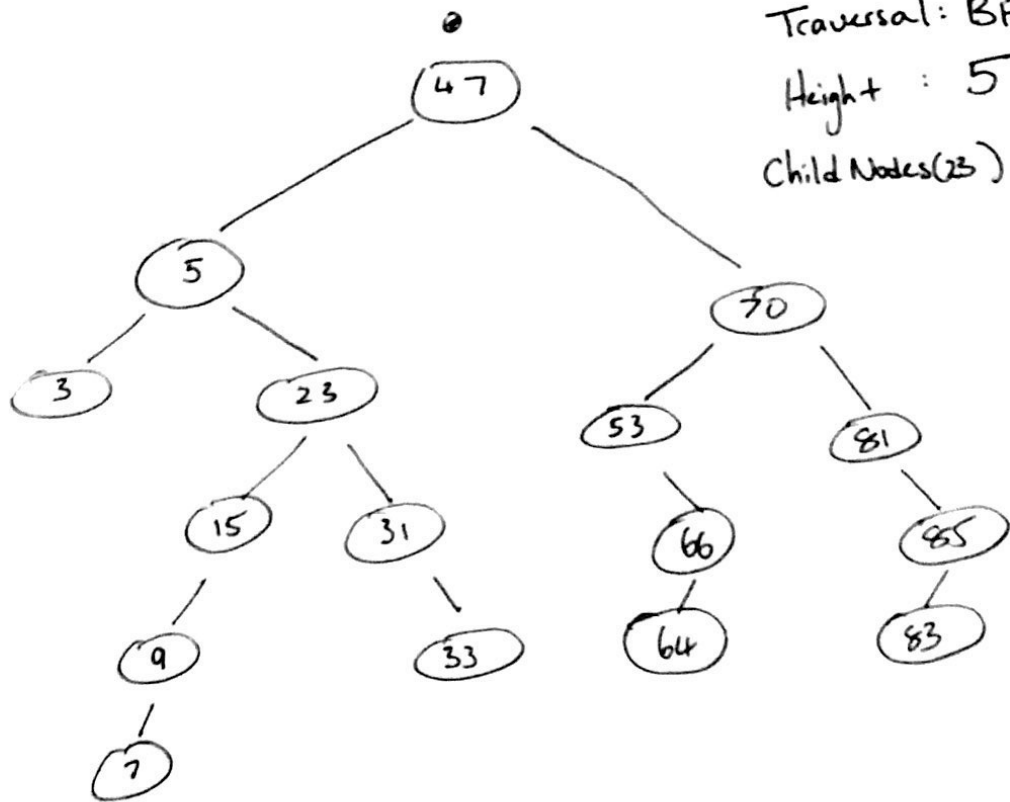


Problem 5:

Node	Shortest Distance from S	Previous Node
S	0	
A	$\infty, 1, 7, 11$	S, D
B	$\infty, 3, 9, 13$	A
C	$\infty, 5, 11, 13, 15, 16, 18, 20$	B, E, F
D	$\infty, 8, 4$	S, G
E		A, G, H
F		
G		
H		
I		
t		

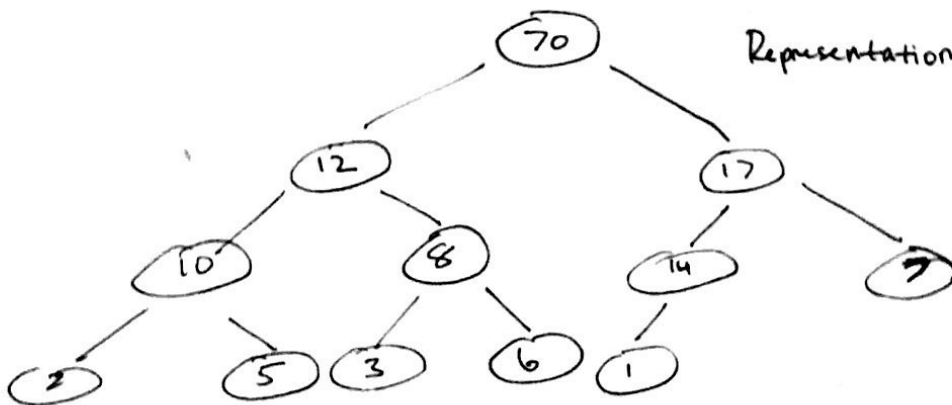
S	0	
A	1, 7, 11	S, D
B	3, 9	A
C	5,	
D	4, 8	S, G
E	3, 7, 9, 11, 14	A, D, G, H
F		
G	6	S
H	12	G
I		
t		

Problem 1:



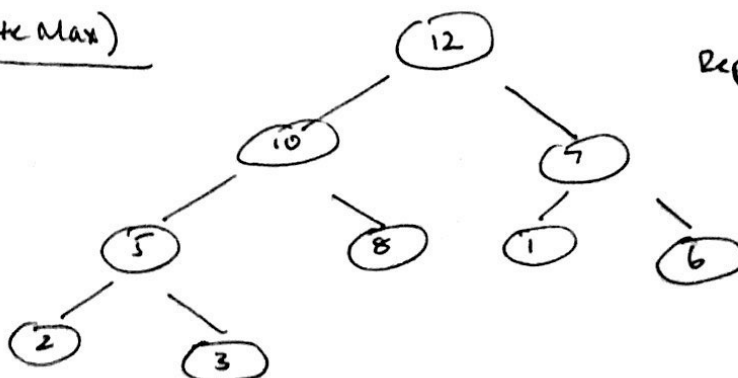
Traversal: BFS
Height : 5
Child Nodes(23): 15, 31

Problem 2:



Representation: 70, 12, 17, 10, 8, 14, 7, 2, 5, 3, 6, 1

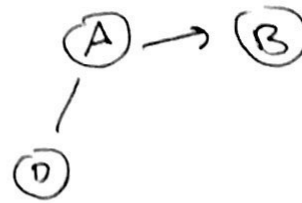
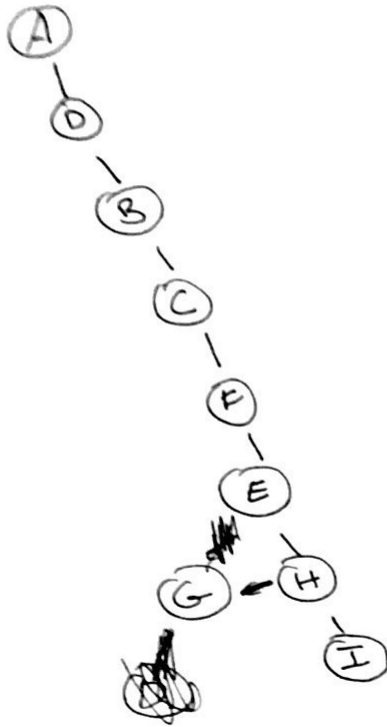
3* (Delete Max)



Representation: 12, 10, 7, 5, 8, 1, 6, 2, 3

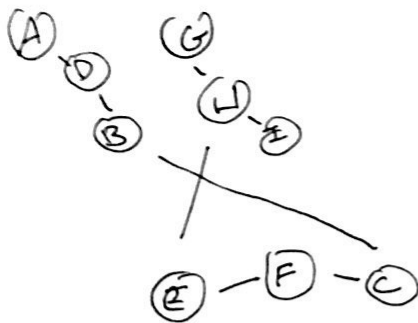
Problem 6

Prim's



- 1 E-F
- 2 A-D
- 3 H-I
- 4 B-D
- 5 C-F
- 6 E-H
- 7 B-C
- 8 F-H
- 9 F-I
- 10 G-H
- 11 B-E
- 12 A-B
- 13 B-F
- 14 D-G
- 15 D-E
- 16 D-H

Kruskal



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