CS 2420
Fall semester section 01
Ricardo Gonzalez Mendez

Chapter 18 written

18.1:

a) A

b) G, H, I, L, M, K

c) 4

d) preorder: A, B, D, G, H, E, I, J, L, M, C, F, K

postorder: G, H, D, I, L, M, J, E, B, K, F, C, A

inorder: G, D, H, B, I, E, L, J, M, A, C, F, K

level-order: A, B, C, D, E, F, G, H, I, J, K, L, M

18.2:

	Parent	Children	Siblings	Height	Depth	Size
A	-	B, C	-	4	0	13
B	A	D, E	C	3	1	9
C	A	F	B	2	1	3
D	B	G, F	E	1	2	3
E	B	I, J	D	2	2	5
F	C	K	-	1	2	2
G	D	-	H	0	3	1
H	D	-	G	0	3	1
I	E	-	J	0	3	1
J	E	L, M	I	1	3	3
K	F	-	-	0	3	1
L	J	-	M	0	4	1
M	J	-	L	0	4	1

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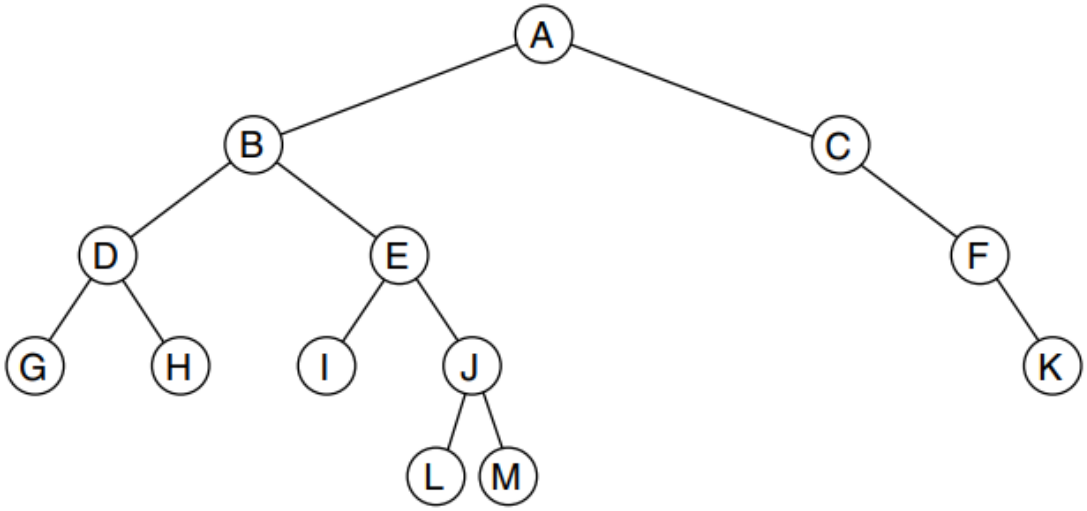
18.5:



2^4+1 – 1 if height is 4 then the max it can have is 31 nodes

2^3+1 – 1 if height is 3 then the max it can have is 15 nodes

2^2+1 – 1 if height is 2 then the max it can have is 7 nodes

2^1+1 – 1 if height is 1 then the max it can have is 3 nodes