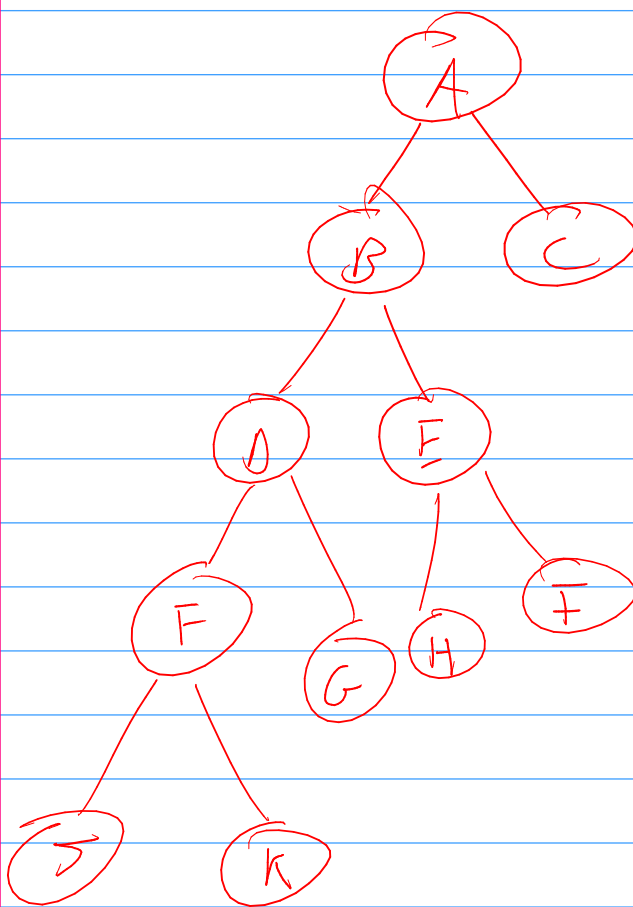


Exercise 1 – Tree

- Draw a tree that has 11 nodes.
6 of those nodes are leaves.
- For each node:
 - name its ancestors and descendants,
 - Name its siblings,
 - say if the node is internal or external,
 - give its depth.
- Evaluate the height of the tree

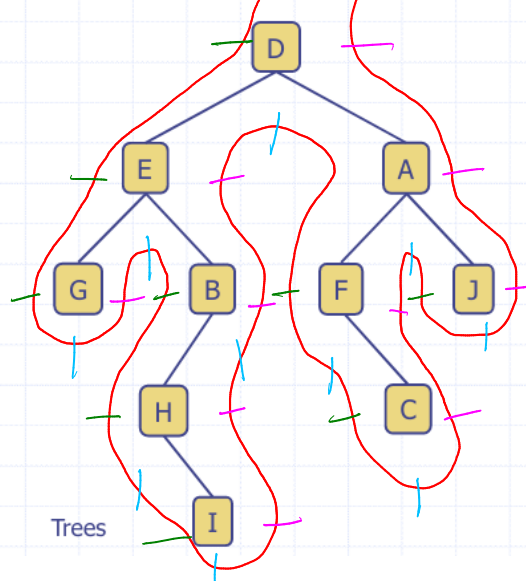


Node D:
Ancestors: A, B
Siblings: E
Internal: True
Depth: 2

Tree height: 4

Exercise 2 – Binary tree traversals

- List the nodes of the following binary tree in preorder, postorder and inorder traversals.



Pre	In	Post
D	G	G
E	E	I
G	H	H
B	I	B
F	B	E
H	D	C
I	F	F
F	C	J
C	A	A
J	J	D

Exercise 3 – Binary tree representation

□ Represent the below array as a binary tree

0	1	2	3	4	5	6	7	8	9	10	11	12
	Iain	Beryl	Otto	Anne	George	Janet	Paul					Rachel

