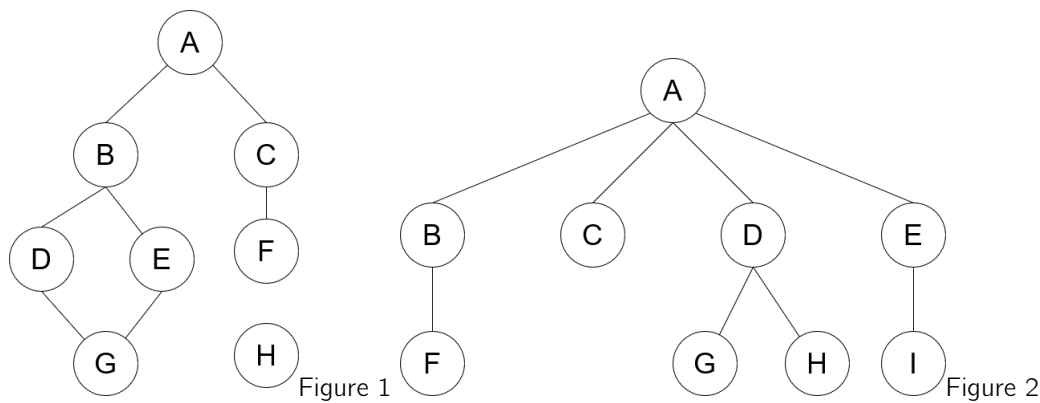


AoL - Trees Quiz

[K/U] True or False

Write T or F beside each statement. For false statements, explain why they are false.

T or F	Statement	Explain if false
	Figure 1 is a tree.	
	Figure 2 is a tree.	
	Every node in a tree has exactly one parent.	
	In a tree, there can be multiple paths between 2 nodes.	



[COMM]

1. Explain the difference between pre-order and post-order traversal using an example.

[K/U, T/I, A] Coding

1. Using the class definitions for the `Tree` and `Node` classes below, write a method `displaySum` for the `Tree` class to print the sum of all the nodes in the tree. Define any other methods you think are necessary.

```
class Node:
    def __init__(self, value):
        self.value = value
        self.children = []

    def addChild(self, value):
        self.children.append(Node(value))

class Tree:
    def __init__(self, value):
        self.root = Node(value)

    def displaySum():
        ...
```