Multiway Tree Problems

Problem 1



```
forecast Handler A
```

Problem 1



Write a function *numnodes* :: *Tree a* -> *Int* that, given a multiway tree, returns the number of nodes.

```
Examples:
numnodes (Node 'a' [Node 'b' []])
-> 2
numnodes (Node 'a' [Node 'b' [Node 'c' []]])
-> 3
numnodes (Node 'a' [Node 'f' [Node 'g' []], Node 'c' [], Node 'b' [Node 'd' [], Node 'e' []]])
-> 7
```

Haskell Multiway Trees

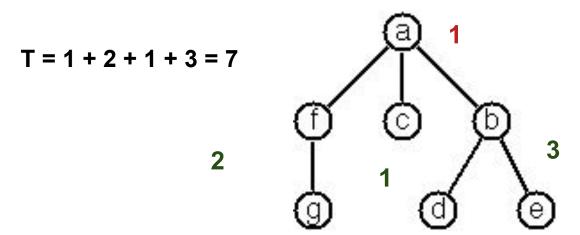


In Haskell, we define multiway trees as a datatype:

```
data Tree a = Node a [Tree a]
    deriving (Eq, Show)
```

Example





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