Multiway Tree Problems

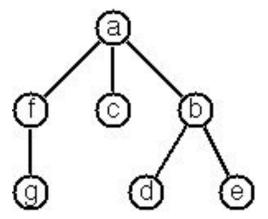


```
forecast Handler A
```



Write a function *stringToTree* :: *String* -> *Tree a* that, given a string, it builds the tree. We suppose that the nodes of a multiway tree contain single characters. In the depth-first order sequence of its nodes, a special character ^ has been inserted whenever, during the tree traversal, the move is a backtrack to the previous level.

By this rule, the tree below is represented as: afg^^c^bd^e^^^



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Examples:

```
stringToTree "afg^^c^bd^e^^^"
-> Node 'a' [Node 'f' [Node 'g' []],Node 'c' [],Node 'b' [Node 'd' [],Node 'e' []]]
stringToTree "ka^b^c^^"
-> Node 'k' [Node 'a' [],Node 'b' [],Node 'c' []]
```



For this problem you will have to return a multiway tree of characters, so use:

stringToTree :: String -> Tree Char

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Haskell Multiway Trees



In Haskell, we define multiway trees as a datatype:

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

Example



