

Nested tuples

- The tree structure could be represented as nested tuples
- E.g. How to flatten the nested tuples?

```
def flatten(tup):  
    if len(tup) == 0:  
        return tuple()  
    else:  
        if type(tup[0]) is tuple:  
            return flatten(tup[0]) + flatten(tup[1:])  
        else:  
            return (tup[0],) + flatten(tup[1:])
```

```
flatten = lambda tup: tuple() if len(tup) == 0 else \  
    ((flatten(tup[0]) + flatten(tup[1:])) if type(tup[0]) is tuple \  
     else (tup[0],) + flatten(tup[1:]))
```