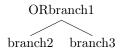
$Or(p,\,g)$ "Or branches" are denoted by 3-tuples: [head branch1 $\overbrace{p\ g}$

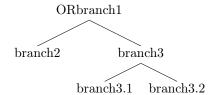
branch2].

"And" branches are coded with 2tuples, [head branch1].

Heads are denoted with leading dots.



Replace branch3 with [.branch3 branch3.1 branch3.2]:



ANDbranch1 | branch2

ANDbranch1 | branch2 | branch3

```
compound proposition AND:
                               ((a OR b) AND q)
                                                    ((a OR b) AND q)
                                    (a OR b)
                                                         (a OR b)
   [.Root [.Disjunct1<br/> 1Disjunct1.2 | Disjunct2 |
   [.Disjunct1 Disjunct1.1 Disjunct1.2 ] [.Disjunct2
   [.[.Branch1 Branch2] Branch6 Branch7]
                                             ((a AND b) AND (q AND p))
                                                      (q AND p)
                                                       (a AND b)
                                                           b
                                                           p
(((a AND b) AND (q AND p)) AND (g AND b))
                                                  ((a AND b) AND q)
         ((a AND b) AND (q AND p))
                  (g AND b)
                                                       (a AND b)
                  (a AND b)
                                                           \mathbf{a}
                  (q AND p)
                                                           b
                      \mathbf{g}
                      b
```

compound proposition OR:
$$\underbrace{ ((a \text{ AND b}) \text{ OR q}) }_{ (a \text{ AND b}) \text{ q} }_{ (a \text{ AND b}) \text{ q} }$$

b