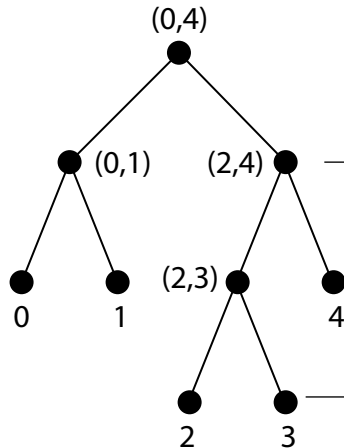


```
<phy:clade branch_length_attr="0.100953">
  <phy:branch_length>0.000000e+00</phy:branch_length>
  <phy:confidence type="duplication_confidence_score">0.0163</phy:confidence>
  <phy:taxonomy>
    <phy:id>7776</phy:id>
    <phy:scientific_name>Gnathostomata</phy:scientific_name>
    <phy:common_name>Jawed vertebrates</phy:common_name>
  </phy:taxonomy>
  <phy:events>
    <phy:type>speciation_or_duplication</phy:type>
    <phy:duplications>1</phy:duplications>
  </phy:events>
</phy:clade>
```

input XML file

parse
and
label



121
↑ hash
1001101110...
64-bit VTD record

gene name
“ENSG00000139618”
+

1001101110...
64-bit VTD record

↓ hash
278

index

leaf labels

internal labels

duplication labels