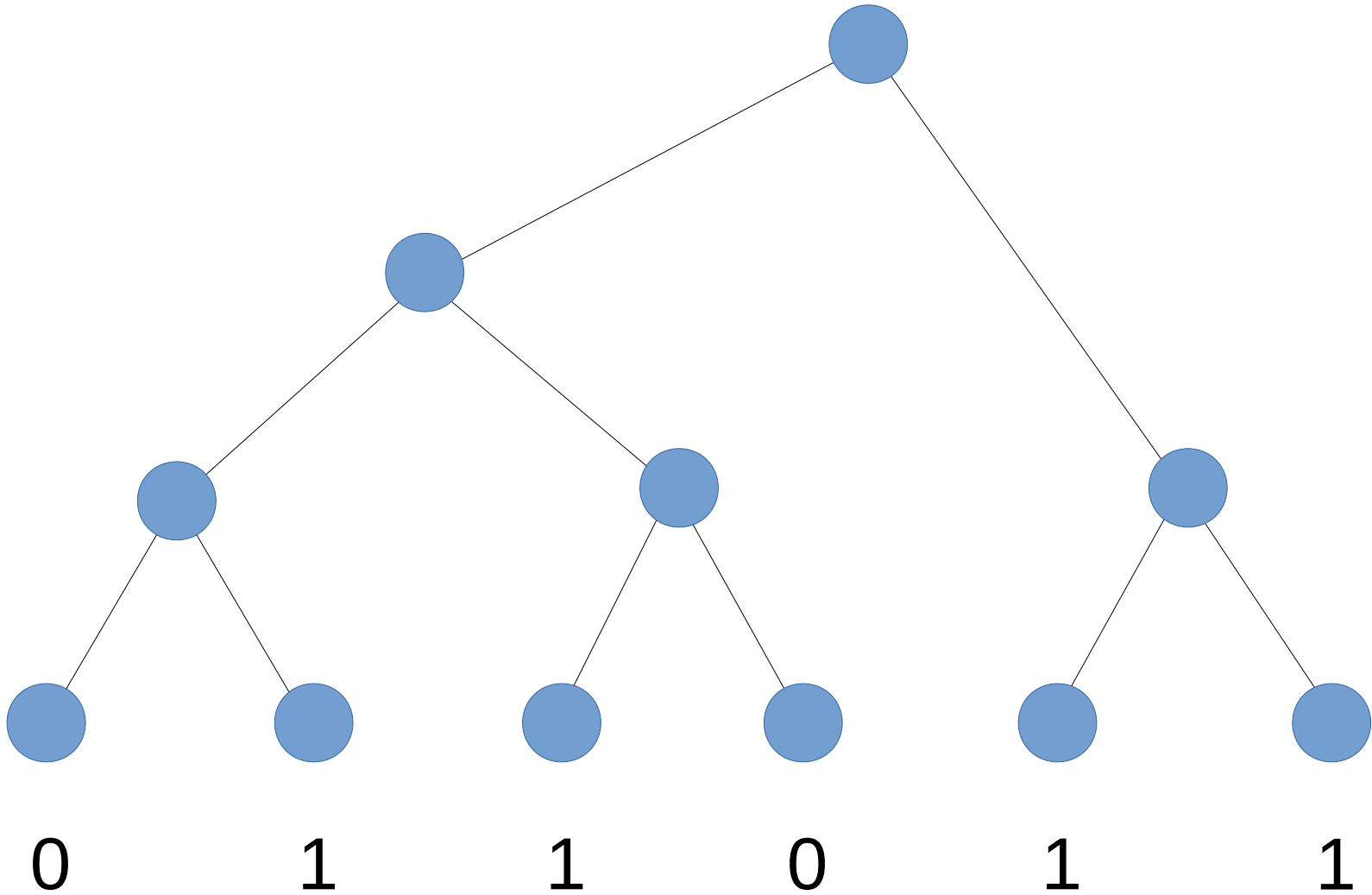


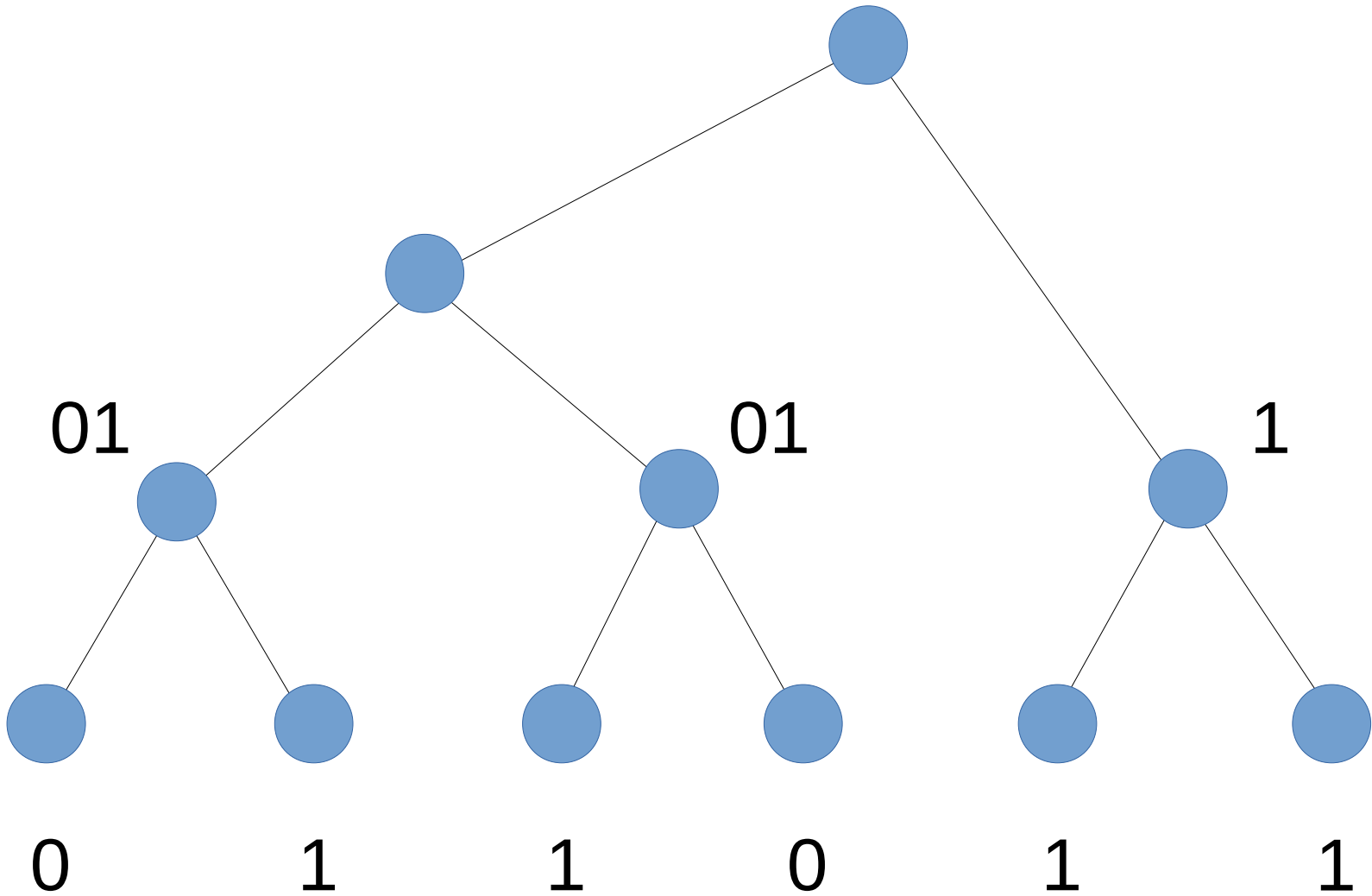
SCJ: Small Phylogeny

- Small phylogeny is polynomial under SCJ
- Treat each adjacency as binary character
- Use Fitch's algorithm for each adjacency
- In the root, prefer 0

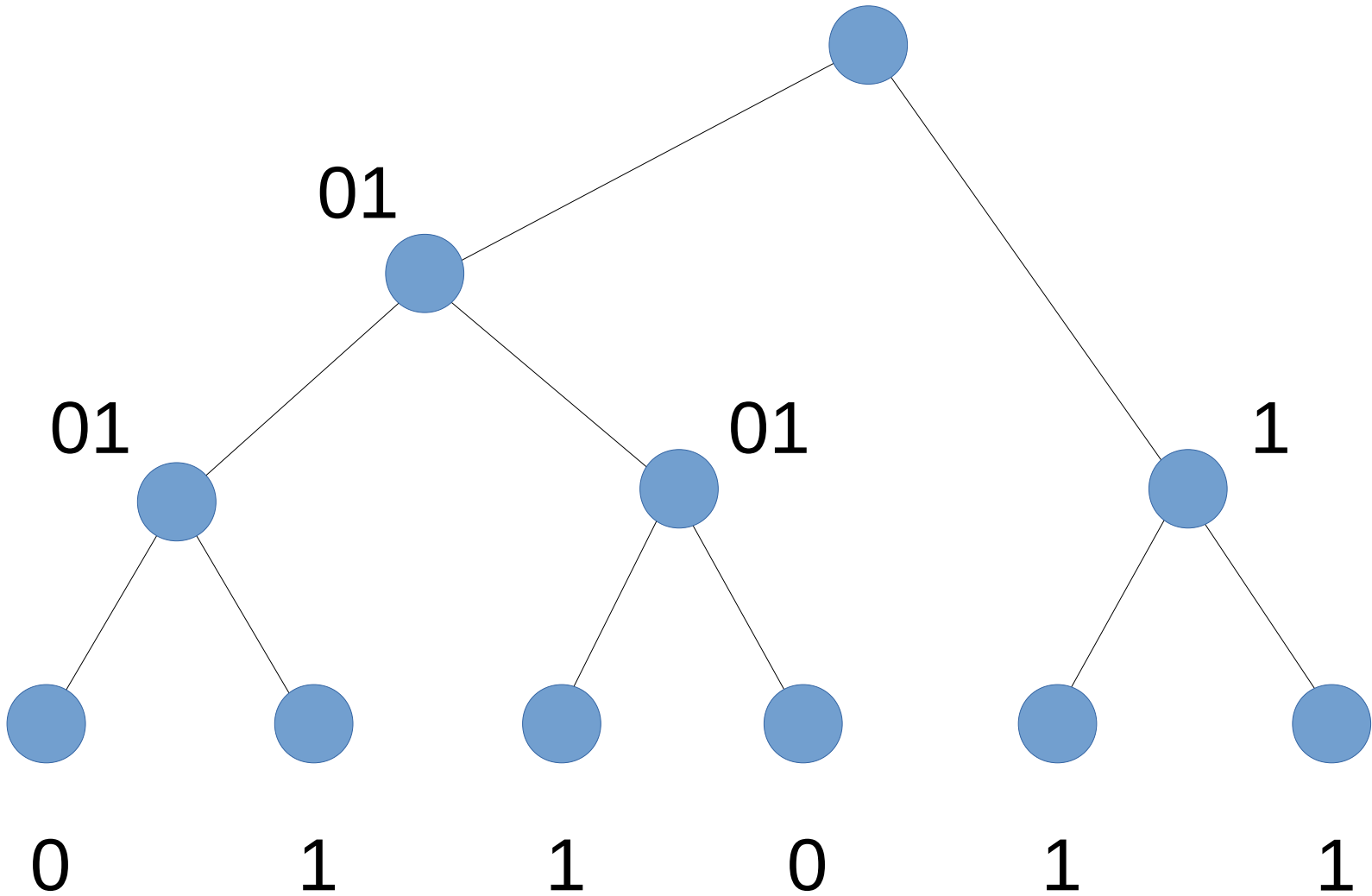
Fitch's algorithm



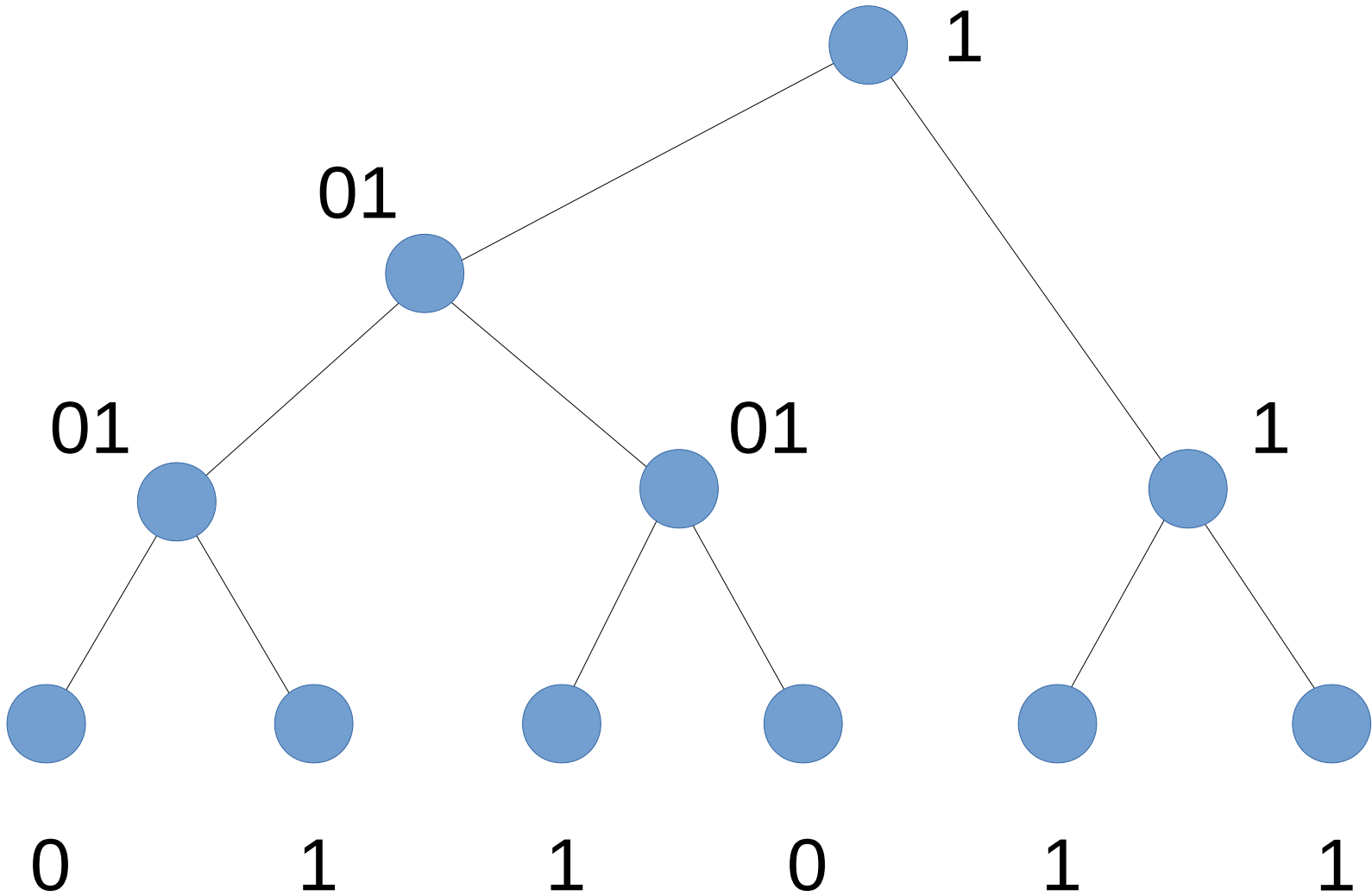
Fitch's algorithm



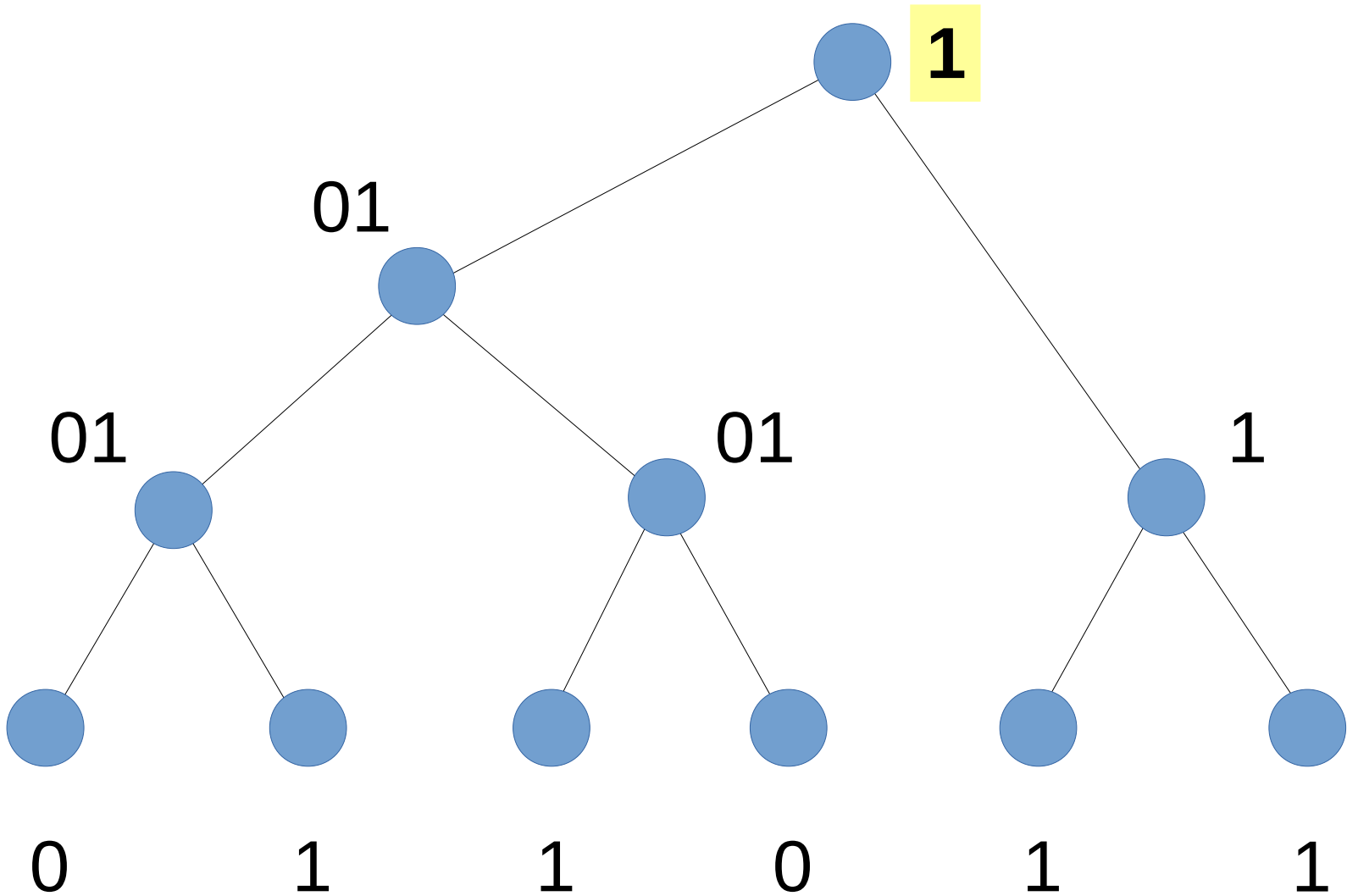
Fitch's algorithm



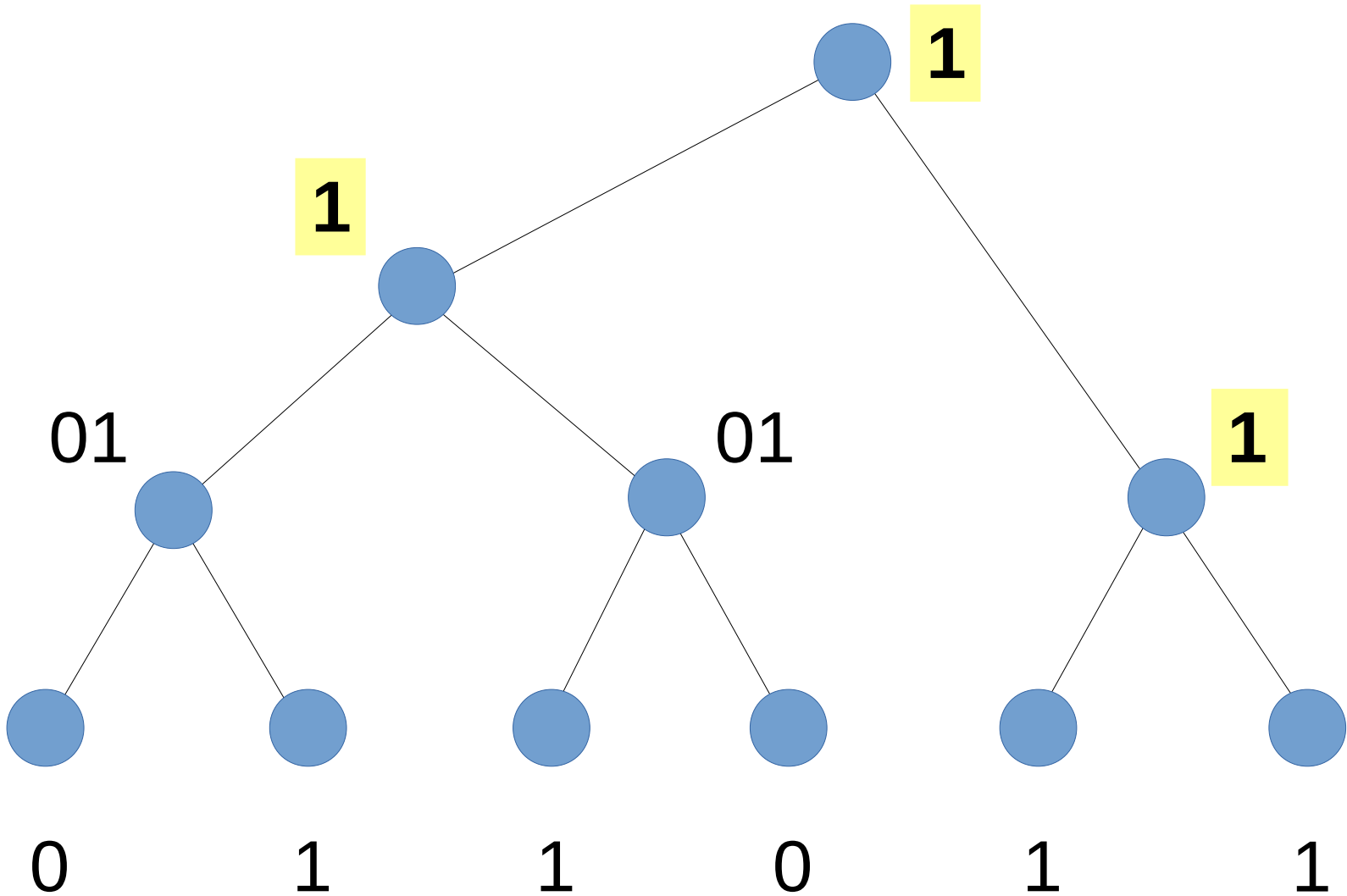
Fitch's algorithm



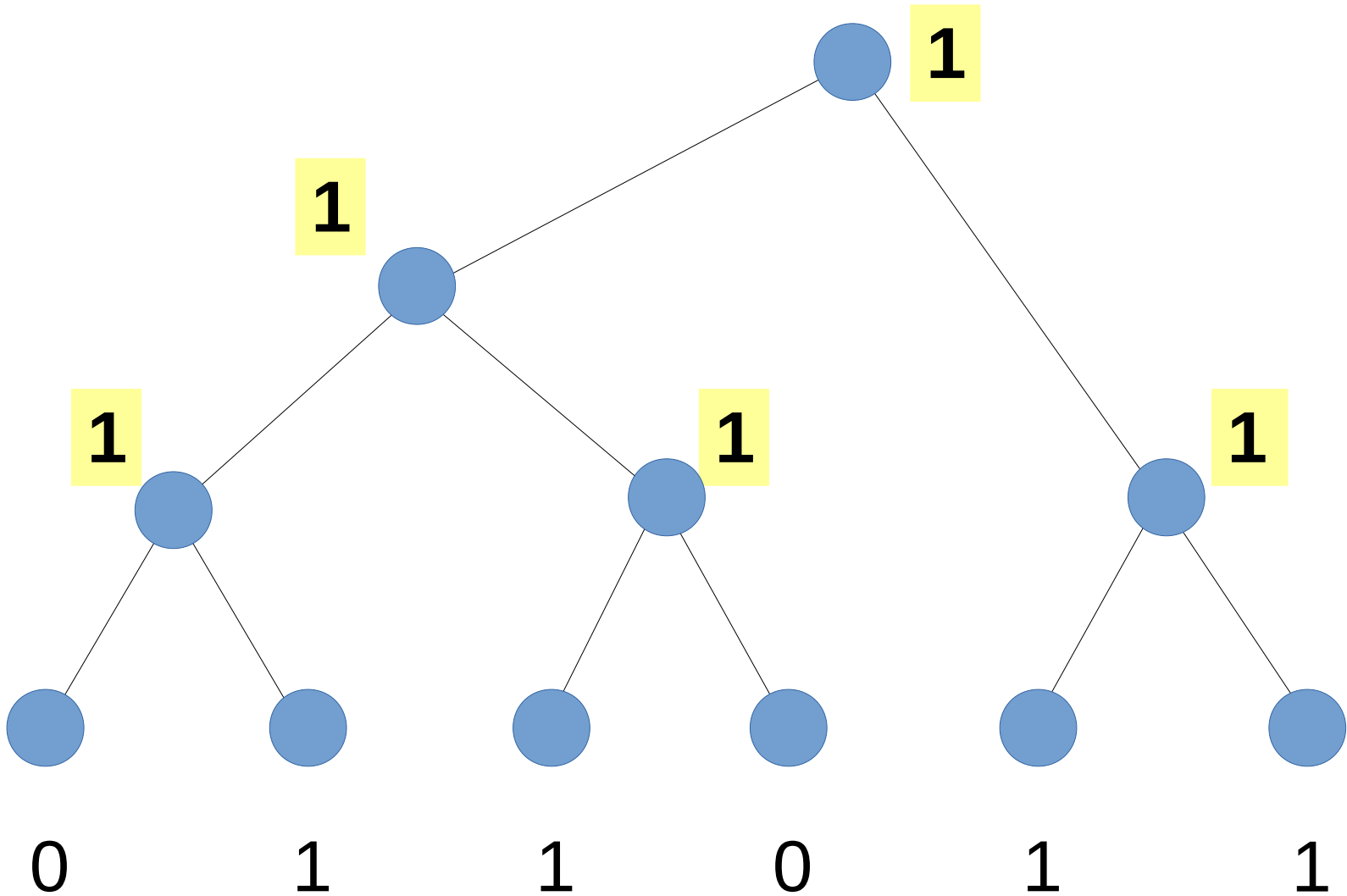
Fitch's algorithm: going down



Fitch's algorithm: going down



Fitch's algorithm: going down



SCJ: Big Phylogeny

- Big phylogeny is NP-hard under SCJ
- Steiner tree problem can be reduced to it