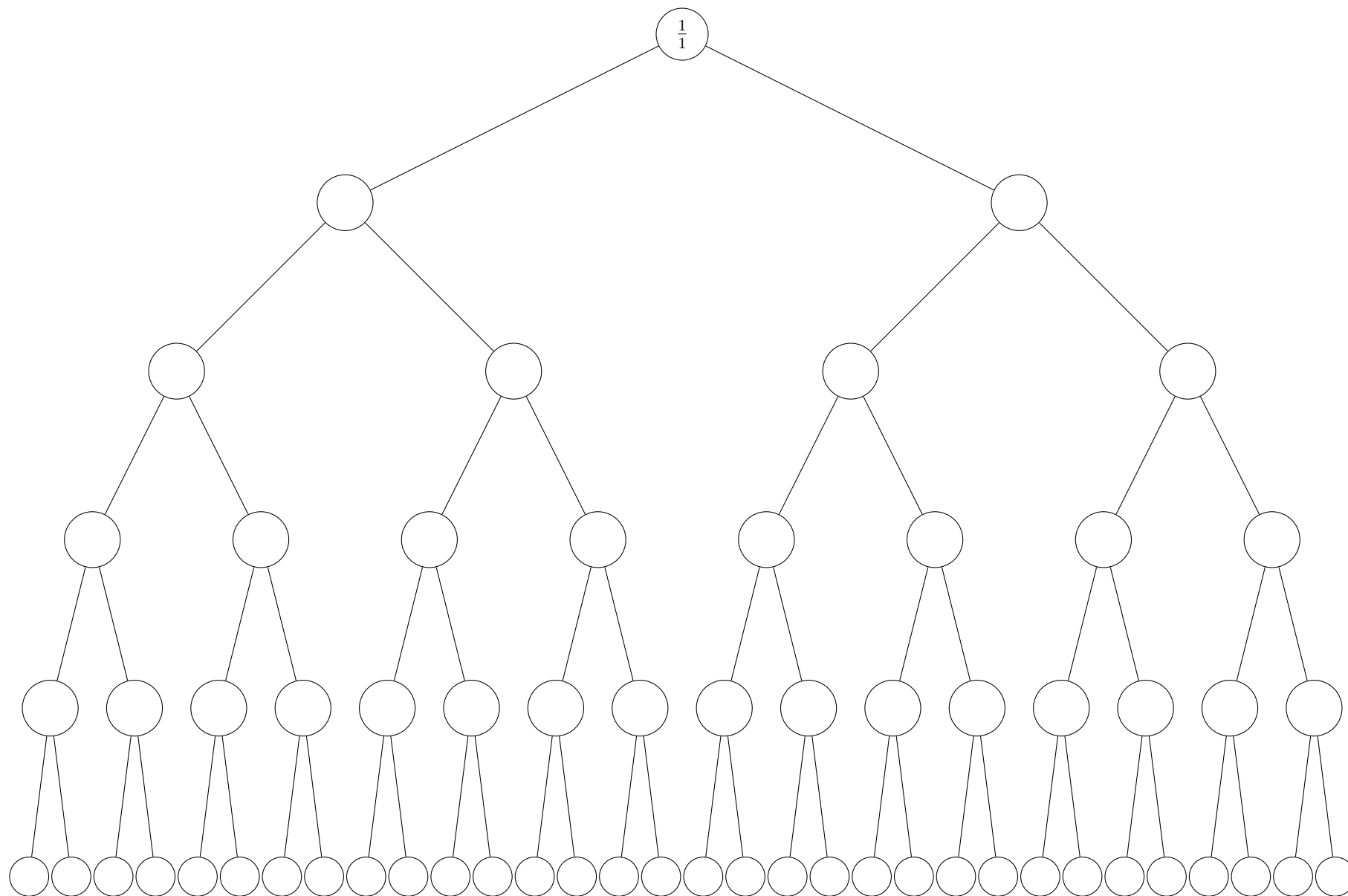


The *Calkin–Wilf rules*: If a node contains  $\frac{i}{j}$  then its left child contains  $\frac{i}{i+j}$  and its right child contains  $\frac{i+j}{j}$ .



- What patterns do you notice?
- What are the *backwards Calkin–Wilf rules*? That is, if  $\frac{i}{j}$  is a left child, what is its parent? If  $\frac{i}{j}$  is a right child, what is its parent?