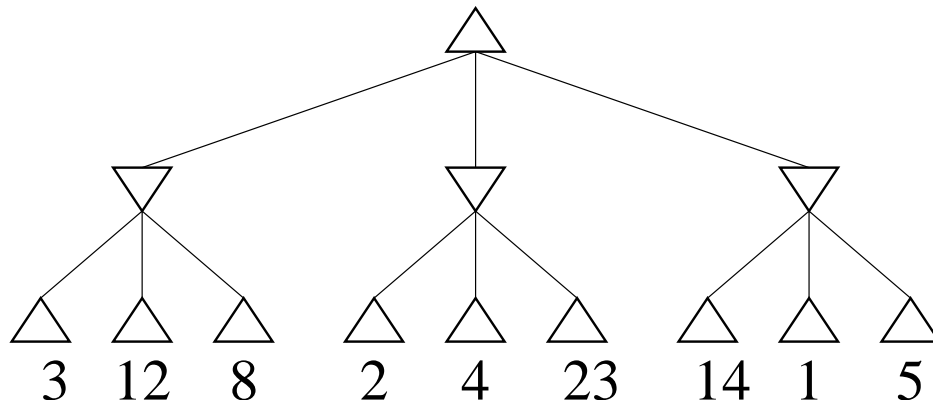


Assume that the following tree represents an entire game (all nodes at bottom are leaves). Assume that the root node (and leaves) are MAX, the middle layer is MIN.



- How many ply are there? How many moves?
- Perform alpha-beta search on this tree and label each node with its $[\alpha, \beta]$ range and exact minimax value. How many nodes does alpha-beta examine? Minimax?
- What is MAX's optimal strategy?
- Is this a zero-sum game? Why or why not?