

The diagram illustrates a search tree for a 6-disk Tower of Hanoi problem. The root node is labeled "ROOT -5 6 -2 -4 -1 3". The tree branches out into various nodes, each labeled with a sequence of numbers representing the disk positions. The nodes are connected by lines, and some branches are labeled with numbers in blue, indicating the move being made. The tree structure shows the exploration of different paths to reach the goal state.

Key nodes and their labels include:

- ROOT -5 6 -2 -4 -1 3
- 5 6 -2 -4 -3 1
- 29DUP 5 6 -2 -1 3 4
- 5 6 1 2 3 4
- 5 -4 -3 1 2 -6
- 3, -4
- 6, -5
- 3, -2
- 6, -5
- 4, -5
- 2, -3
- 23DUP 5 6 -2 -4 -3 30DRAW 5 6 1 2 3 4 2DRAW 5 6 1 3 3DRAW -5 -4 -3 3 3DRAW -5 -4 -3 -2 -1 -6
- 6, -5
- 3, -2
- 5, -4
- 1, -2
- 5 6 -2 -4 -1 3
- 5 6 1 4 2 3
- 24DUP 2 -6 -5 -4 -3 26DUP 5 6 -2 -1 3 4
- 5, -4
- 3, -2
- 3, -4
- 6, -5
- 4, -5
- 2, -3
- 3, -2
- 2 -6 -5 -4 -1 3 7DRAW 5 6 1 4 2 3 5 6 -2 -4 -3 1
- 14DRAW 5 6 1 4 2 3 -5 -4 -1 -6 2 3 25DRAW 2 3 4 5 6 27DRAW 5 6 1 2 3 4
- 2, -1
- 3, -4
- 5, -4
- 1, -2
- 4 5 6 -2 -1 3 2 -6 -5 -4 -3 1 9DUP 2 -6 -5 -4 -3 1 5 6 -2 -1 3 4
- 5 -4 6 1 2 3
- 5 -4 -3 -2 6 1
- 3, -2
- 2, -3
- 2, -3
- 3, -2
- 6, -5
- 3, -4
- 6, -5
- 1, -2

The diagram shows a complex branching structure, with many nodes and edges, representing the search space for the 6-disk Tower of Hanoi problem. The labels on the nodes and edges provide information about the current state of the disks and the moves being made.