

Diagram illustrating the construction of a complex tree structure from a root node, showing various branching paths and associated labels.

The diagram shows a hierarchical tree structure starting from a root node labeled "ROOT -3 -4 -5 -1 6 2". The tree branches out into several levels, each represented by a set of parallel lines. Labels are placed along the branches and at the nodes, indicating specific values or states. The labels include:

- Root node: ROOT -3 -4 -5 -1 6 2
- Level 1 branches:
 - Left branch: -3 -4 -5 -1 6 2
 - Middle branch: -3 -2 -6 1 -5 4
 - Right branch: -3 -4 -5 -1 6 -5 -4
- Level 2 branches (from left):
 - 3 4 5 -1 6 2
 - 3 -2 -6 1 -5 4
 - 3 2 D U P -3 4 5 -6 1 2
 - 3 -4 5 6 1 2
- Level 3 branches (from left):
 - 3 4 5 -1 6 2
 - 3 -2 -6 1 -5 4
 - 3 3 D U P 3 4 5 -6 1 2
 - 3 2 D U P -3 4 5 -6 1 2
 - 3 3 D U P -3 -2 -1 6 -5 4
 - 4 4 D U P -3 -2 -1 -6 -5 -4
- Level 4 branches (from left):
 - 3 4 5 -1 6 2
 - 3 -2 -6 1 -5 4
 - 3 4 5 -1 6 2
 - 3 2 D U P -3 4 5 -6 1 2
 - 3 3 D U P -3 -2 -1 6 -5 4
 - 4 4 D U P -3 -2 -1 -6 -5 -4
- Level 5 branches (from left):
 - 3 4 5 -1 6 2
 - 3 -2 -6 1 -5 4
 - 3 4 5 -1 6 2
 - 3 2 D U P -3 4 5 -6 1 2
 - 3 3 D U P -3 -2 -1 6 -5 4
 - 4 4 D U P -3 -2 -1 -6 -5 -4

The diagram illustrates the recursive construction of a complex tree structure, likely representing a sequence of operations or transformations. The labels suggest a systematic naming convention for the nodes and branches.