

Diagram illustrating the construction of a 3D tree structure for a 3D tree construction problem, showing the root node and its children, and the subsequent construction of the tree structure.

The root node is labeled **ROOT 2-3-1-5 6-4**. It has two children: **2-3-1-5 6-4** (left) and **17DUP-3-2-1-5 6-4 5 1 2** (right).

The left child **2-3-1-5 6-4** has two children: **2-3-1-5 6-4** (left) and **2-3-1 5 6-4** (right).

The right child **17DUP-3-2-1-5 6-4 5 1 2** has two children: **18DUP-3-2-1 5 6-4 2 3 4-6 5 1 2 3-2-1-6-5-4** (left) and **19DUP-3-2-1 5 6-4 2 3 4-6 5 1 2 3-2-1-6-5-4** (right).

The diagram shows the construction of the tree structure, with nodes labeled with their coordinates (e.g., 2-3-1-5 6-4, 17DUP-3-2-1-5 6-4 5 1 2, etc.). The tree structure is built by recursively adding nodes and edges, representing the construction of a 3D tree.