

Diagram illustrating the construction of a 3D tree structure for the sequence 3 4 5 2 1 6. The root node is labeled "ROOT 3 4 5 2 1 6". The tree branches out into four main paths, each labeled with a sequence of numbers and a color (blue or red). The paths are:

- Path 1 (Blue): 3 4 5 2 1 6
- Path 2 (Red): 3 4 5 2 1 6
- Path 3 (Blue): 3 4 5 2 1 6
- Path 4 (Red): 3 4 5 2 1 6

The tree structure is further detailed by the following labels and sequences:

- Root: ROOT 3 4 5 2 1 6
- Level 1 (Left): 3 4 5 2 1 6
- Level 1 (Right): 3 4 5 2 1 6
- Level 2 (Left): 3 4 5 2 1 6
- Level 2 (Right): 3 4 5 2 1 6
- Level 3 (Left): 3 4 5 2 1 6
- Level 3 (Right): 3 4 5 2 1 6
- Level 4 (Left): 3 4 5 2 1 6
- Level 4 (Right): 3 4 5 2 1 6
- Level 5 (Left): 3 4 5 2 1 6
- Level 5 (Right): 3 4 5 2 1 6
- Level 6 (Left): 3 4 5 2 1 6
- Level 6 (Right): 3 4 5 2 1 6

The diagram shows a complex branching structure with multiple levels of nodes, each labeled with a sequence of numbers and a color. The tree structure is further detailed by the following labels and sequences:

- Root: ROOT 3 4 5 2 1 6
- Level 1 (Left): 3 4 5 2 1 6
- Level 1 (Right): 3 4 5 2 1 6
- Level 2 (Left): 3 4 5 2 1 6
- Level 2 (Right): 3 4 5 2 1 6
- Level 3 (Left): 3 4 5 2 1 6
- Level 3 (Right): 3 4 5 2 1 6
- Level 4 (Left): 3 4 5 2 1 6
- Level 4 (Right): 3 4 5 2 1 6
- Level 5 (Left): 3 4 5 2 1 6
- Level 5 (Right): 3 4 5 2 1 6
- Level 6 (Left): 3 4 5 2 1 6
- Level 6 (Right): 3 4 5 2 1 6