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Unfortunately I could not get the code to correctly run in time. However, my algorithm is correct, in theory (I tested it on paper for the first dataset).

When running the code to display the tree, it is supposed to output each node, followed by a string of characters. “a” signifies the root, “aa” signifies the first branch under the root, “ab” signifies the second vertex connected under the root. For each connected node under a vertex, it is assigned the string of characters which the vertex has, plus one for which branch it is. Thus, the first branch from the node labeled “aab” would be labeled “aaba”, the second “aabb”, and the third “aabc.” Thus allowed my tree drawing algorithm to be simpler. I could then construct the tree from the given data.