1. Apply the Joyal bijection that inputs sequences in \(\{1, \ldots, n\}^n\) and outputs a **doubly rooted** labeled tree on \(\{1, \ldots, n\}\). To the following sequence (with \(n = 9\))

\[471611827\]

Indicate clearly ROOT A and ROOT B. Draw the output, but also write it as a set of edges.

2. Apply the Reverse Joyal bijection that inputs a **doubly rooted** labeled tree on \(\{1, \ldots, n\}\) and outputs a sequence in \(\{1, \ldots, n\}^n\), with \(n = 9\).

Set of Edges of the tree: \(\{13, 18, 19, 25, 34, 35, 36, 57\}\) Root \(A = 1\), Root \(B = 2\).

**Ans.:**