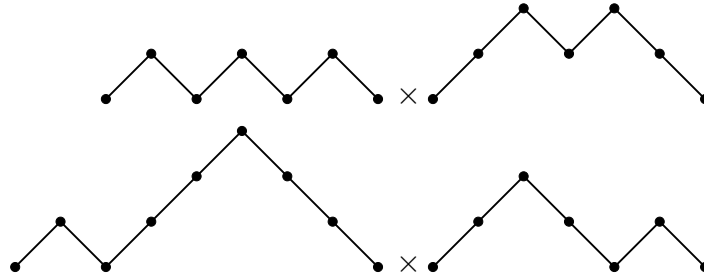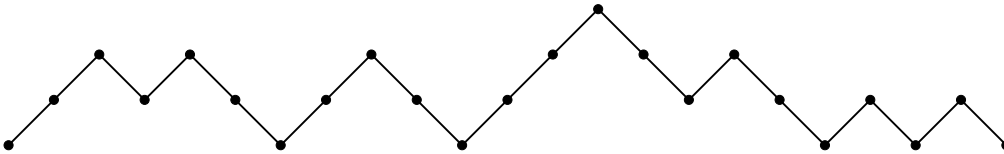1. Compute the product of the following Dyck Paths

2. Use Sage to compute all Dyck Paths of size 4. Compute their corresponding binary tree.

3. Decompose recursively this Dyck path and compute by hand its corresponding binary tree. Check your result with Sage.

4. Compute by hand the Dyck path image of this binary tree. Check your answer with Sage.