Algorithm 11: Enumerate

Input : list of adjacency matrices *list*

1 **for** $M_1 \in list$ **do**

2   **if** $g(M_1)$ *is a connected graph and* M_1 *is canonical* **then**

3   output M_1;

4 $childrenOfM_1 \leftarrow \emptyset$;

5 $anotherList \leftarrow$ a sublist of *list* whose head is M_1;

6   **for** $M_2 \in anotherList$ **do**

7 $newM_1 \leftarrow f(M_1, M_2, 1)$;

8 $childrenOfM_1.add(newM_1)$;

9 $newM_2 \leftarrow f(M_1, M_2, 0)$;

10 $childrenOfM_1.add(newM_2)$;

         $enumerate(childrenOfM_1)$;