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Script 8.3.1 (Traversal of a multigraph)
algorithm Traversal ((N, A, f) : multigraph) {
   CTM := identity matrix;
   TraverseNode (root)
proc TraverseNode (n : node) {
   foreach a \in A outgoing from n do TraverseArc (a);
   ProcessNode (n)
proc TraverseArc (a = (n, m) : arc) {
   Stack.push (CTM);
   CTM := CTM * a.mat;
   TraverseNode (m);
   CTM := Stack.pop()
proc ProcessNode (n : node) {
```

foreach object $\in n$ **do** Process (CTM * object)