

```
1 Data_Generator(MG, RME, SMV, GC, AV)
2   MG.ME  $\leftarrow$  Apply_Rules(MG.ME, RME)
3   vertexes  $\leftarrow \emptyset$ 
4   for each mv in SMV
5     do queue  $\leftarrow$  {mv}
6     visited  $\leftarrow \emptyset$ 
7     while queue  $\neq \emptyset$ 
8       do cur_mv  $\leftarrow$  Dequeue(queue)
9       Add(visited, cur_mv)
10      Extend(vertexes, Gen(cur_mv, GC, AV))
11      for each mu in Adjacent(MG, cur_mv)
12        do if mu  $\notin$  visited
13          then Enqueue(queue, mu)
14  return vertexes
```