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Algorithm 1: GETNEXTCELLWITHEDGES algorithm
   Input: a quadtree Q and a list of cells M.
1 function GETNEXTCELLWITHEDGES(Q,M):
       C \leftarrow orphan cells in \mathcal{M}
       foreach orphanCell in C do
3
           initialize cellList with orphanCell
           nextCellWithEdges \leftarrow nil
 5
           referenceCorner \leftarrow nil
           done \leftarrow false
           while ¬done do
 8
               c \leftarrow \text{last cell in } cellList
               cells, corner \leftarrow GetCellsAtCorner(Q, c)
10
               foreach cell in cells do
11
                    nedges \leftarrow get edge count of cell in M
12
                    if nedges > 0 then
13
                        nextCellWithEdges \leftarrow cell
14
                        referenceCorner \leftarrow corner
15
                        done \leftarrow true
16
                    else
17
                        add cell to cellList
18
                    end
19
               end
20
           end
21
           foreach cell in cellList do
22
               output(cell,nextCellWithEdges,
23
                 referenceCorner)
               remove cell from C
24
           end
25
       end
27 end
```