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1: function SEMI-RANGE-JOIN (indoor index  $\mathcal{T}_Q$ , indoor index  $\mathcal{T}_O$ , distance  $\epsilon$ )
2:   result set  $R$ ; candidate partition set  $C$ ;
3:   Semi-range-Filtering( $\mathcal{T}_Q, \mathcal{T}_O, \epsilon$ );
4:   for each partition  $Q^P \in C$  do
5:     Cand  $\leftarrow \emptyset$ 
6:      $\langle R^O, R^P \rangle \leftarrow \text{RangeSearch}(Q^P, \epsilon + Q^P.r_{max}, \mathcal{T}_O)$ ;
7:     Dijkstra( $R^P$ );
8:     for each object pair  $\langle Q, O \rangle_{Q \in Q^P, O \in R^O}$  do
9:       [ $\langle Q, O \rangle.l, \langle Q, O \rangle.u$ ]  $\leftarrow [|Q, O|_{minI}, |Q, O|_{maxI}]$ ;
10:    (Table 2)
11:

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