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Algorithm 1 DetectingFalseNegatives (Aggregate tracking
table ATT, Probabilistic distance-aware graph model G_{ndm})
 1: path \leftarrow \emptyset; neighbors \leftarrow \emptyset;
 2: for each tr in ATT do
        neighbors \leftarrow qetNeighbors(tr.deviceID, G_{ndm})
 3:
        if (neighbors.length > 0) then
 4:
            tr' \leftarrow the next record in ATT such that (tr.objectID)
 5:
                = tr'.objectID)
            if (tr' = \text{null}) then
 6.
 7:
                continue
            if (tr'.deviceID \in getNeighbors(tr.deviceID, G_{pdm}))
 8:
    then
                continue
 9:
10:
            else
                path \leftarrow findPath(G_{ndm}, tr, tr')
11:
12:
                prev \ t_e \leftarrow tr.t_e
                FalseNegativeRecovery(prev\_t_e, path)
13:
```