```
Algorithm 3 expandList(Entry e_P in R-tree R_P for in-
door POIs, List list of entries in R-tree R_I)
1: ubFlow \leftarrow 0; list2 \leftarrow \emptyset
2: for each entry e_I \in list do
3:
        for each sub-entry e'_I in e_I.node do
4:
            if e_P.mbr intersects e'_T.mbr then
                ubFlow \leftarrow ubFlow + e'_{\tau}.count
5:
6:
                list2 \leftarrow list2 \cup \{e_I'\}
7: if list2 \neq \emptyset then
8:
        Q.enqueue(\langle e_P, list2, ubFlow \rangle)
```