Algorithm 1 PL-FC Entails Algorithm

```
1: function PL-FC-ENTAILS(KB, q) returns true or false
2:     inputs: KB, the knowledge base, a set of propositional definite clauses q, the query, a proposition symbol
3:
4:     count ← a table, where count[c] is the number of symbols in c's premise
5:     inferred ← a table, where inferred[s] is initially false for all symbols
6:     agenda ← a queue of symbols, initially symbols known to be true in KB
7:
8:     while agenda ≠ ∅ do
9:         p ← POP(agenda)
10:        if p = q then return true
11:
12:        if inferred[p] = false then
13:            inferred[p] ← true
14:            for each clause c in KB where p ∈ c.PREMISE do
15:                decrement count[c]
16:                if count[c] = 0 then add c.CONCLUSIONS to agenda
17:
18:    return false
```