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// C[i] stores candidate nodes in loop level i
1: C = array(PAT_SIZE, MAX_DEGREE);
   // Csize[i] is number of nodes in C[i]
2: Csize = array(PAT_SIZE);
   // iter[i] is loop iterate in level i
3: iter = array(PAT_SIZE);
4: l = 0;    // start from loop level 0
5: while (true) {
6:     if (l < Q.size) {
           // if this subgraph has not been extended
7:         if (Csize[l] == 0) {
           // extend it
8:             getCandidates(G, Q, l, C, Csize);
           // algorithm stops if no subgraph can be extended
9:             if (l == 0 && Csize[l] == 0) break;
           iter[l] = 0; }
           // if there are unexplored nodes
11:         if (iter[l] < Csize[l]) { l++; } // go to next level
12:         else { // if all candidates are explored
           // empty the candidate set
13:             Csize[l] = 0;
           // and backtrack to previous level
14:             if (l > 0) { l--; iter[l]++; } }
15:     } else { // output subgraph at last level
           Output(C, iter); l--; } }
```