

```

// 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;
10:            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
16:        Output(C, iter); l--; } }

```