

AssignDepth(G, s)

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1  for each term node  $u \in V[G] - \{s\}$ 
2      do  $color[u] \leftarrow WHITE$ 
3           $d[u] \leftarrow NIL$ 
4   $color[s] \leftarrow GRAY$ 
5   $d[s] \leftarrow "a"$ 
6   $Q \leftarrow \emptyset$ 
7  ENQUEUE( $Q, s$ )
8  while  $Q \neq \emptyset$ 
9      do  $u \leftarrow DEQUEUE(Q)$ 
10         for each term node  $v \in Adj[u]$ 
11             do if ( $color[v] = WHITE$  &  $getRelation(u, v) = "is-a"$ )
12                 then  $color[v] \leftarrow GRAY$ 
13                      $d[v] \leftarrow$  the letter proceeding  $d[u]$  alphabetically
14                     ENQUEUE( $Q, v$ )
```