LCA(u)

1   MAKE-SET(u)
2   FIND-SET(u).*ancestor* $= u$
3   **for** each child v of u in T
4   LCA(v)
5   UNION(u, v)
6   FIND-SET(u).*ancestor* $= u$
7   u.*color* $=$ BLACK
8   **for** each node v such that $\{u, v\} \in P$
9   **if** v.*color* $==$ BLACK
10   print "The lowest common ancestor of"
              u "and" v "is" FIND-SET(v).*ancestor*