DetermineMLCA {

1. *for each KC* KC_i {
2. $S_{MLCA}^{MLCA} \leftarrow null$ // *Initialize set* S_{MLCA}^{MLCA} *to null*
3. $T \leftarrow KC_i$
4. ***ExamineGO*** (T) {
5. $T' \leftarrow getAncestor(T)$ { //assign ancestor of node T to T'
6. *if* $(T' \neq MLCA)$ {
7. *if* $(DPT_{T'} \neq DPT_{MLCA} \,\&\, DPT_{T'} \notin S_{MLCA}^{T})$ {
8. $\{ S_{MLCA}^{T'} \leftarrow S_{MLCA}^{T} \cup DPT_{T'}$
9. ***ExamineGO*** (T') //*examine* T' *recursively*
10. *else report "meaningless LCA" and exit*
} *//end if*
11. } *//end if*
12. } *//end subroutine ExamineGO*
13. } *//end for*
14. *Report "meaningful LCA"*
15. } *//end the algorithm*