C-6.28

Algorithm LCA(Node v, Node w):

    int $v_{dpth} \leftarrow v.depth$

    int $w_{dpth} \leftarrow w.depth$

    while $v_{dpth} > w_{dpth}$ do

        $v \leftarrow v.parent$

    while $w_{dpth} > v_{dpth}$ do

        $w \leftarrow w.parent$

    while $v \neq w$ do

        $v \leftarrow v.parent$

        $w \leftarrow w.parent$

    return v