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CSCI-UA 310-001 PS3a

8.

    a. First run reverse topological sort so that you can begin with the largest value

    b. Run the following algorithm similar to the one presented in class with the coin problem

       $P[v]$ is the max number off stones what can be on a path starting at v

       $N[u]$ is the number of stones on a particular spot

       for i in reverse $[0 . . n)$

            $u \leftarrow TopSort[i]$

            $m \leftarrow 0$

            for each $v \in Sccessor(u)$ do

                if $P[v] > m$ then $m \leftarrow min(P[v], c(e))$, where e is the edge from v

       to its successor

            $P[u] \leftarrow N[u] + m$

    c. However, $c(e)$ must be considered. If $c(e)$ is less than $P[v]$ at a particular edge, then we must drop stones until we can cross the edge.