```
TopologicalSort(G)
   inDegrees := array of in-degrees, indexed by node
   S := set of nodes zero in-degree
   while !S.isEmpty() do
      n := removeElement(S)
      add n to result
      for b in adjSet(n)
         inDegrees[b]--
         if inDegrees[b] == 0
            S.add(b)
         fi
      od
   od

   if sum(inDegrees) > 0 then
      has cycle!
   else
      return result
   fi
end
```