11) Define an iterator class *TopoIterator* for iterating through the vertices of a directed acyclic graph in topological order.

```
Class TopoIterator
  graph G
  calculate the in_degree for all the element in G.
  queue q;
  for(i = 1 to n)
     if indegree[i] == 0
        q.push(i)

  while(!q.empty)

for all q.front.next: indegree[q.front.next] --
     if indegree[q.front.next] == 0
        q.push(q.front.next)
     output << q.front;
     q.pop;
```