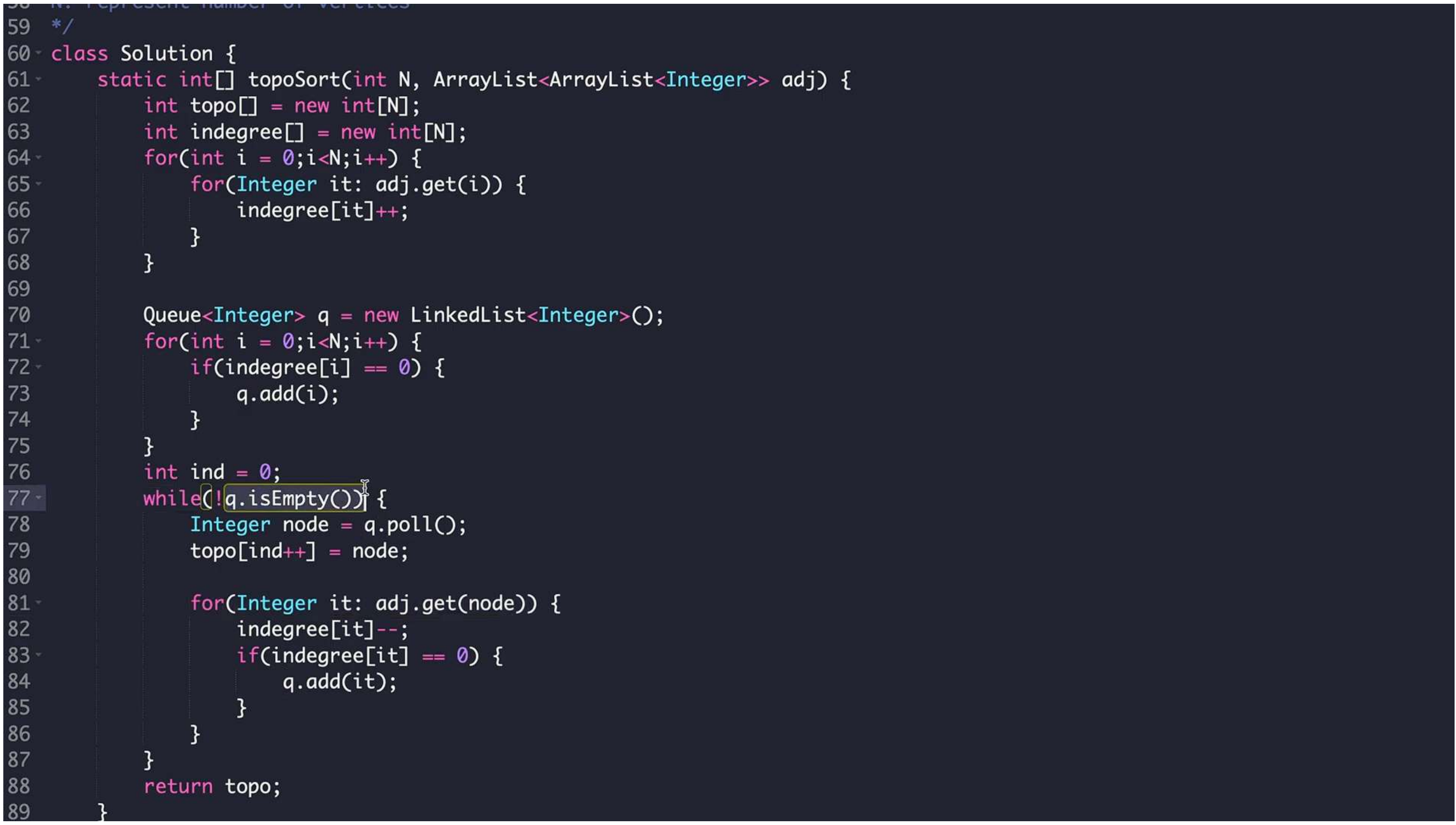
Monday, April 18, 2022 9:36 AM



```java
N: represent number of vertices
*/
class Solution {
    static int[] topoSort(int N, ArrayList<ArrayList<Integer>> adj) {
        int topo[] = new int[N];
        int indegree[] = new int[N];
        for(int i = 0;i<N;i++) {
            for(Integer it: adj.get(i)) {
                indegree[it]++;
            }
        }

        Queue<Integer> q = new LinkedList<Integer>();
        for(int i = 0;i<N;i++) {
            if(indegree[i] == 0) {
                q.add(i);
            }
        }
        int ind = 0;
        while(!q.isEmpty()) {
            Integer node = q.poll();
            topo[ind++] = node;

            for(Integer it: adj.get(node)) {
                indegree[it]--;
                if(indegree[it] == 0) {
                    q.add(it);
                }
            }
        }
        return topo;
    }
```