Adjacency-lists digraph representation: Java implementation

```
public class Digraph
private final int V;
private final Bag<Integer>[] adj;
                                                   adjacency lists
public Digraph(int V)
                                                   create empty digraph
                                                   with V vertices
   this.V = V;
   adj = (Bag<Integer>[]) new Bag[V];
   for (int v = 0; v < V; v++)
       adj[v] = new Bag<Integer>();
                                                   add edge v→w
public void addEdge(int v, int w)
   adj[v].add(w);
                                                   iterator for vertices
public Iterable<Integer> adj(int v)
                                                   pointing from v
   return adj[v]; }
```