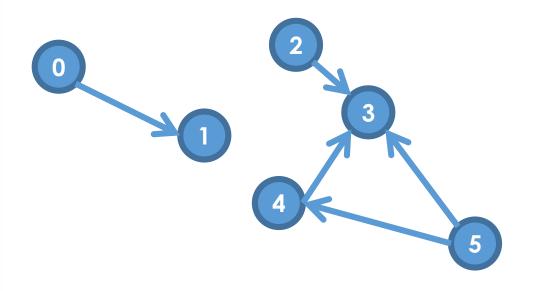
## Coding getNeighbors



## By the end of this video you will be able to...

 Write code to implement getNeighbors in a graph with either an Adjacency List or an Adjacency Matrix representation

## **Adjacency Matrix Representation**



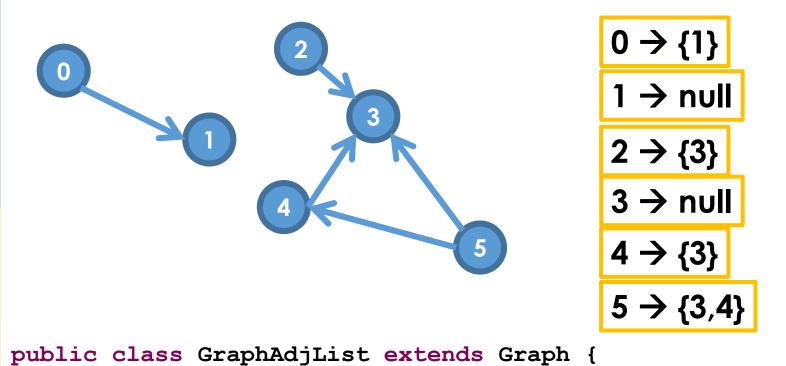
0	1	0	0	0	0
0	0	0	0	0	0
0	0	0	1	0	0
0	0	0	0	0	0
0	0	0	1	0	0
0	0	0	1	1	0

```
public class GraphAdjMatrix extends Graph {
 private int[][] adjMatrix;
```

```
public class GraphAdjMatrix extends Graph {
private int[][] adjMatrix;

// getNumVertices and getNumEdges are defined here

/** Return a list of the neighbors of v */
public List<Integer> getNeighbors(int v) {
```



private Map<Integer,ArrayList<Integer>> adjListsMap;

```
public class GraphAdjList extends Graph {
private Map<Integer,ArrayList<Integer>> adjListsMap;
// getNumVertices and getNumEdges are defined here
/** Return a list of the neighbors of v */
public List<Integer> getNeighbors(int v) {
```