

## Project 6

Assume we want 5 nodes/airports in the travel network

### TravelNetwork class

- dynamic array of Airport instances
- number of airports in the TravelNetwork

### Airport class

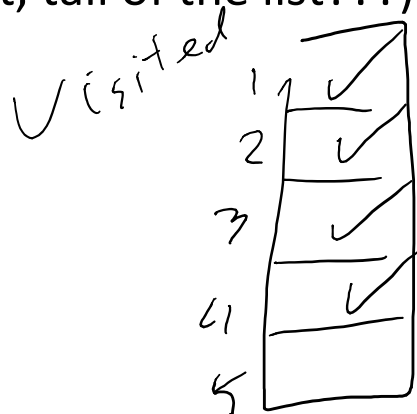
- list of adjacent airports
- visited value to assist in the Depth First Search algorithm

### List Class

- linked list of nodes (head of the list, tail of the list???)

### Node Class

- integer value
- next pointer



Can I get from 1 to 5?

- dfs ( 1, 5) => first parameter is the current location
- => second parameter is the target

```
boolean dfs ( current, target)
  traverse through the list for the current location
  {
    x = value in node at traverse spot
    if is x the target airport
      return true
    if (x has not been visited)
      mark x as visited
      if ( dfs ( x, target) == true )
        return true
  }
  return false;
```