Lab 6 (April 12th)

Implement Warshall's algorithm to find the transitive closure for a graph.

```
class WarshallApp
  {
  public static void main(String[] args) throws IOException
    {
    Graph theGraph = new Graph();
    theGraph.addVertex('A');    // 0
    theGraph.addVertex('B');    // 1
    theGraph.addVertex('C');    // 2
    theGraph.addVertex('D');    // 3
    theGraph.addVertex('E');    // 4

    theGraph.addEdge(0, 2);     // AC
    theGraph.addEdge(1, 0);     // BA
    theGraph.addEdge(1, 4);     // BE
    theGraph.addEdge(3, 4);     // DE
    theGraph.addEdge(4, 2);     // EC

    System.out.println("Original adjacency matrix");
    theGraph.adjMatDisplay();   // display adj matrix

    theGraph.warshall();        // do the algorithm

    System.out.println();
    }
  }
```

If you are using the above codes in your solution, the output will looks like:

Original adjacency matrix

	A	B	C	D	E
A	0	0	1	0	0
B	1	0	0	0	1
C	0	0	0	0	0
D	0	0	0	0	1
E	0	0	1	0	0

Transitive closure

	A	B	C	D	E
A	0	0	1	0	0
B	1	0	1	0	1
C	0	0	0	0	0
D	0	0	1	0	1
E	0	0	1	0	0