CS338 Programming Assignment 5 with Bonus

DUE at the beginning of class on Nov 4, 2004
15 + 20 pts

Implement Dijkstra’s shortest path algorithm. The specification of the program is listed as follows:

```java
class Algorithm {
    // Given the adjacency matrix, compute the shortest path
    // represented as a string.
    // each vertex is represented as an integer, the path is
    // is represented in the format of: 1->2->3->5
    public String ShortestPath(int[][] matrix) {
        //
    }
}
```

We are assuming computing the shortest path for weighted undirected graph.

**Bonus:** Use the shortest path algorithm, solve the maze generated in programming assignment 2. You would need the GUI to show the path.