Problem Set #6 (Algorithms)

Department: _____

Student ID: _____

Student Name: _____

1. For Dijkstra's algorithm using the binary heap,
   (a) Write the pseudocode and explain the pseudocode at least four lines.
   (b) Analyze the time complexity mathematically.
   (c) Write the program which includes the comments.
   (d) Show the test results.
   (e) Explain the program and the test results at least four lines.

2. For the Bellman-Ford algorithm,
   (a) Write the pseudocode and explain the pseudocode at least four lines.
   (b) Analyze the time complexity mathematically.
   (c) Write the program which includes the comments.
   (d) Show the test results.
   (e) Explain the program and the test results at least four lines.