**Presentation Outline**

By Shiyu Zhang

* Set up and prepare for presentation.(ALL)(2 min)
* Introduce our members (ALL)(1 min)
* Introduce our problem(Shiyu)(1 min) (MAKE THIS 2 THE ONE ABOVE 1)
* Describe vertices and edges’ means for our problem & an example(Shiyu)(2 min)
* Explain our algorithms(4 min) (Mher)
* Run the program using Demonstration Test Plan(10 min) (Dmitry)(Dongbo)
* Questions & Answers(ALL)(3 min)
* Conclusion(Dongbo)(1 min)

Total estimation: 25 mins

**Demonstration Test Plan**

Ask the user to:

1. Type in the input file name

* Valid input file name: go to the next step
* Invalid input file name: can’t open the file, and display an error message then end the program

1. Read input file
2. Choose one from 3 choices of displaying the graph on the screen

* Depth- first
* BFS

1. Choose one from the user interface to test the user option.

"Welcome to Euler's Algorithm \n"

+ "-1 : Exit.\n"

+ "1 : Add a New Flight to the Graph. (You are not allowed to enter existing connections)\n"

+ "2 : Delete Airport from graph.\n"

+ "3 : Undo last move.\n"

+ "4 : Output.\n"

+ "5 : Show Euler’s Solution.\n"

+ "6 : Input Another File.");

1. Error Message generated from the error input of adding or removing if the edge already existed or removing the edge that does not exist.
2. Test add the edge: enter start and end vertex and the cost

* Add one age in the Euler Path
* Display message on the screen: “Added 1 edge”

1. Test remove the edge: enter start and end vertex

* Remove one age in the Euler Path
* Display message on the screen: “Delete 1 edge”

1. Test undo the previous action:

* Undo the previous action
* Display a message on the screen: “Undo the previous action”

1. Test to solve the map and display the solution

* Solve the map
* Display the solution
* Ask the user to choose one from Depth-First traversal or Breadth-First traversal OR Adjacency List of each vertex

1. Test save map into a file: ask user to enter the file name

* Save the Euler Path of flight plan to the output file.