Project Goals

Our team have decided to use the ego-Facebook from Stanford Large Network

Dataset Collection to find an individual whom you might know based on your

social circles in Facebook. We will load the data files from our selected data sets as a graph,

in which nodes represent users, and connected graphs mean users' social circles. Connected

nodes show two users are friends to each other.

We will implement BFS traversal which contributes to finding the shortest path

between the user and his/her potential friends. And one of the algorithms we will use

is the Dijkstra's Algorithm, to calculate the minimum path between point A and B, and

therefore we could know who the closest potential friend is. The second option we will use

is, Iterative deepening depth-first search, as we chose to implement BFS, this algorithm will

help us create a more effective function.

Test is also an important part in our final project, as we will need to know if our graph

works properly or not. This will include if our code complies and several test case to see if

the function is working correctly, this step also makes sure that our code also runs on EWS.

Our back up dataset is Open Flights. Therefore, our goal is to find the shortest path

from an individual's nearest airport to the destination's closest airport. Landmark Path

(shortest path from a to b through c)

Signature: Ethan Huang, Shuning Zhang, Shuo Wang