## Problem ID: 1

## Problem Name: Degrees of Separation

## Description: Given a set of N people numbered 1, 2, 3, …, N and, for each person, the numbers of the people that they are friends with, how can we determine if there is or is not a connection between any two people chosen from the set? A connection is defined as any number of friends, friends of friends, friends of friends of friends and so on (with no limit) between the first and second people chosen.

## UB Number:

## Name:

<ADD YOUR **ONE PAGE** ANALYSIS AND PROPOSED SOLUTION HERE AND REMOVE THIS TEXT.>

<ADD YOUR FLOW CHART OR PSEUDOCODE HERE AND REMOVE THIS TEXT. NO ADDITIONAL TEXT SHOULD BE ON THIS PAGE EXCEPT FOR TEXT IN A FLOWCHART OR PSEUDOCODE ALGORITHM>