## CS 302 Introduction to Data Structures

University of Nevada, Las Vegas Spring 18

Assignment 12
Due: Saturday, May 5, 2018

# Listing Adjacent Nodes

In an undirected graph you are to print the adjacent nodes for each node of the graph.

# Input

The input should be read from the file graph.txt. Use file redirection for this.

- The first line of the input contains only one token, n the number of nodes of an undirected graph; the nodes then are named 1,...,n.
- Next, the boolean adjacency matrix is read in line by line n lines in total. The program should check that all diagonal elements are 0 (i.e. false) and that the matrix is symmetric; print an error message if this is not the case.

#### Output

For each node, print out the name of the adjacent nodes, one line for each node.

## How to submit

Create one file with your program asgn12.cpp. Email this as an attachments to deshmk1@unlv.nevada.edu. Subject of your email must be "Assignment 12", <your name>, <your student ID number>.