

## Project 6: Graph

**Project Deadline: 11:55 PM, Dec. 6, 2017**

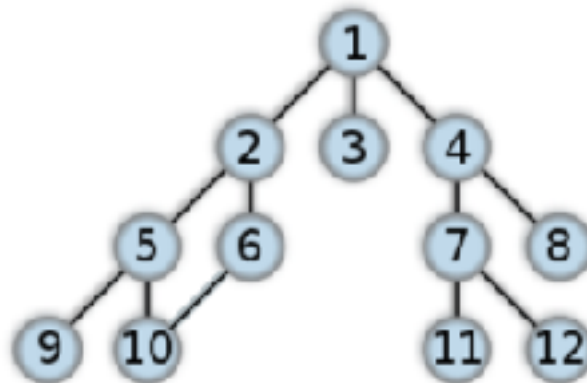
**No Late Submission**

### 1. Check if an undirected graph contains cycle or not

Given a connected undirected graph, find if it contains any cycle or not. Please design **TWO** algorithms using BFS and DFS, respectively.

For example,

**Input:** below graph



**Output:** The graph contains cycle.

**Note:** You may discuss the general concepts in this project with other students, but you must finish your program on your own. **NO SHARING OF CODE OR REPORT IS ALLOWED.** Violation of this policy can result in grade penalty.

### What to submit

Please submit a .zip file containing (1) a working program written in C++, (2) a report with the pseudo code of your program. Before submit your project, please make sure to test your program (at least) on the given example.