# CS361 Algorithm Lab 2

# What to do

1. Implement the DP version of MCM algorithm. Show commented code.
2. Implement the memoization version of MCM algorithm, using -1 for . Show commented code.
3. Show the output for your DP version of MCM algorithm for p being < 30, 4, 8, 5, 10, 25, 15>, including where the parenthesis should be located.
4. Show the output for your memoization version of MCM algorithm for p being < 30, 4, 8, 5, 10, 25, 15>, including where the parenthesis should be located.
5. Implement a breadth first search using an adjacency list. Show commented code.
6. Implement a breadth first search using an adjacency matrix. Show commented code.
7. Show the output for the bfs using the adjacency list on the graph below.
8. Show the output for the bfs using the adjacency matrix on the graph below.



# What to turn in:

You will turn in a ONE PDF file lab report. This lab report must have the following components:

* Code segments for each task listed above. These code segments must include comments. Make sure to thoroughly comment your code.
* Screen dumps from your output for each part. It is ok if each screen dump doesn’t include 10,000,000 integers, but you should thoroughly convince me that your code is working.
* Explaining thoroughly how you accomplished each task above, including citations. Did you use pseudocode from the book? Did you get support from a website (cite your source)? Did you work with a peer? Also include any stumbling blocks along the way.
* All Excel charts and graphs, along with a written analysis of your results.