

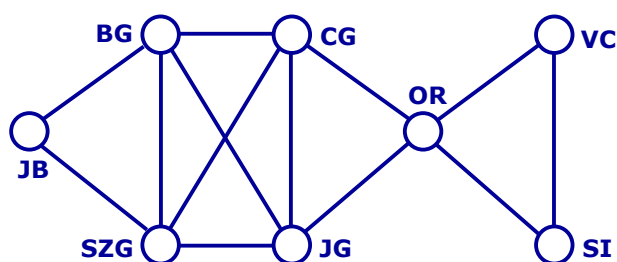
TP Activity 2: (10 minutes) [Graph Colouring]

The Tourist Problem

Your Name: _____

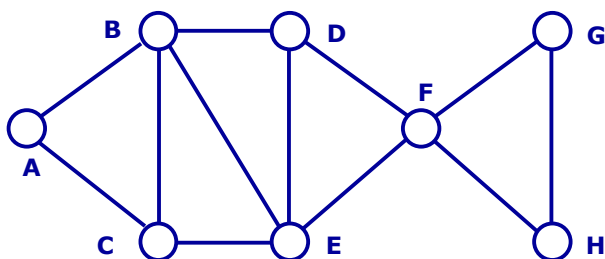
The tourist problem instance in the lecture can be modeled with the following conflict graph. Two possible colorings of the graph are given in the lecture.

Q1: Give a *different* way to colour the vertices of the graph on the left. How many colours?



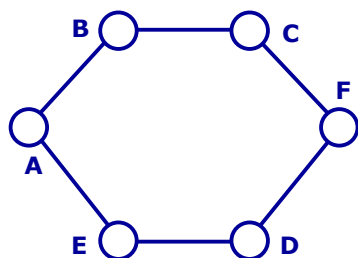
Q1: # colors: _____

Q2: What about this one? **[NEEDS MORE MODIFICATIONS]**

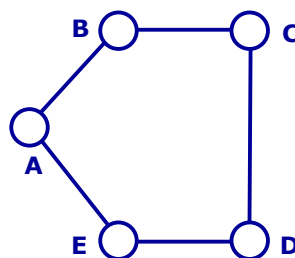


Q2: # colors: _____

Q3: Try coloring the following graphs with the minimum number of colors.



Q3(a): # colors: _____



Q3(b): # colors: _____