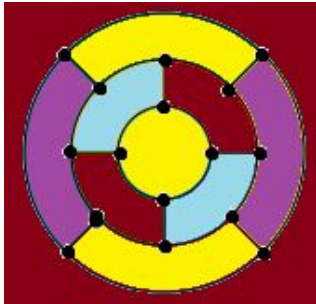


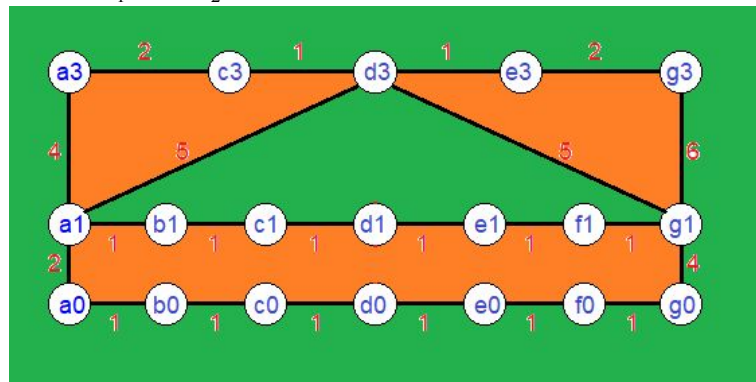
BLM 320

Class Work #10

* Decide if 3 colors are sufficient to color G_1 and G_2

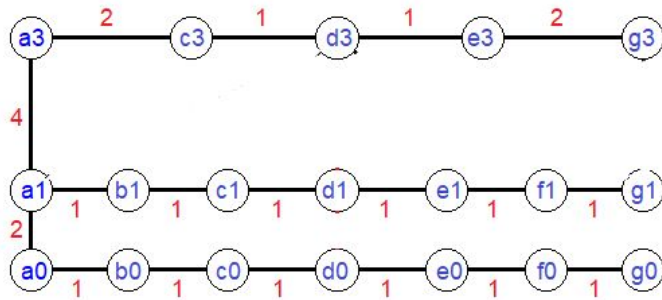


G_1 : 3 colors are not enough

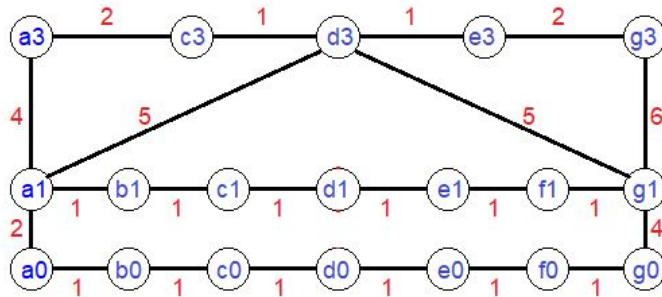
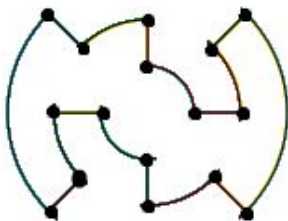


G_2 : 3 colors enough

* Find a minimum spanning tree in G_1 and G_2

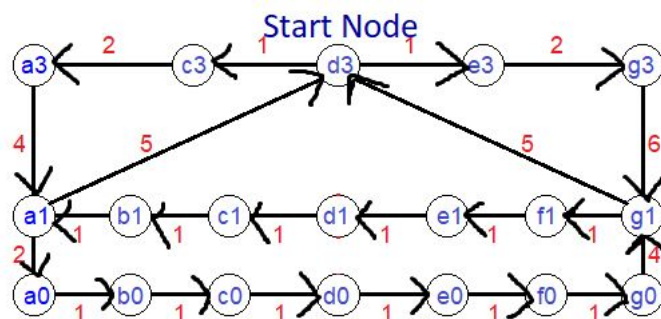
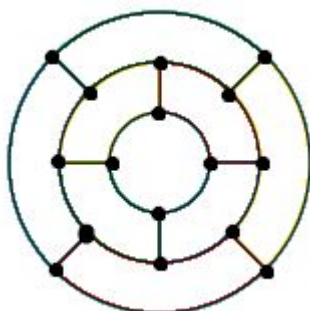


* Find a Hamiltonian circuit (cycle) in G_1 and G_2



G_1 : There is Hamilton circuit G_2 : There is no Hamilton circuit

* Decide if G_1 and G_2 contain an Eulerian circuit



G1: There is no Eulerian circuit G2: d3-e3-g3-g1-f1-e1-d1-c1-b1-a1-a0-b0-c0-d0-e0-f0-g0-g1-d3-c3-a3-a1-d3