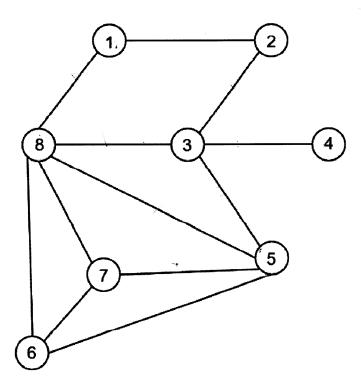
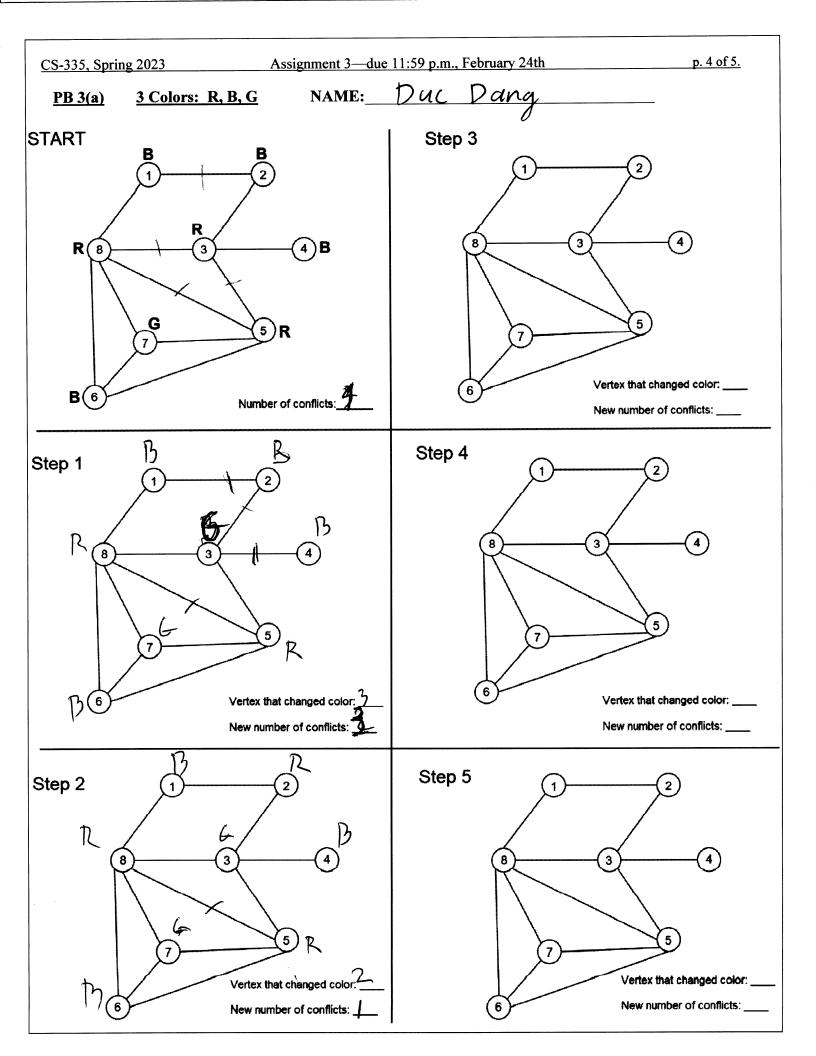
<u>PB 2</u>

NAME: Duc Dang

Use hill climbing to find a clique of size 4 in the graph below, starting from the start states given in the table below. For each new *best* neighbor, write how many pairs of adjacent vertices there are in the new set.



PB 2(a)			PB 2(b)			PB 2(c)		
	Set of size 4	Num Edges		Set of size 4	Num Edges		Set of size 4	Num Edges
START	1, 2, 3, 4	3	START	3, 4, 5, 8	4	START	1, 2, 4, 6	1
best neighbor	1,2,3,8	4	best neighbor	315,718	5	best neighbor	1,2,3,6	2
best neighbor	23,5,8	4	best neighbor	5,6,718	6	best neighbor	1,2,3,5	3
best neighbor	3,5,3,3	<del>-5</del>	best neighbor			best neighbor	2,3,5,8	4
best neighbor	961778	6	best neighbor			best neighbor	3,5,7,8	5
best neighbor			best neighbor			best neighbor	5,6,7,8	6

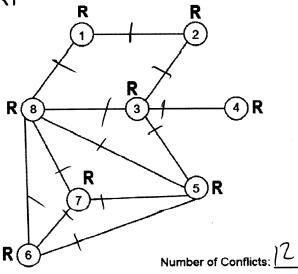


**PB 3(b)** 

3 Colors: R, B, G

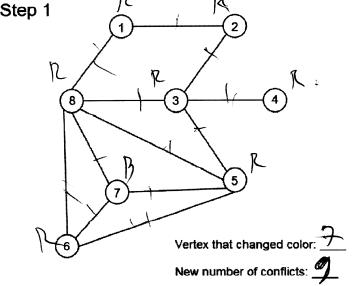
NAME: Puc Pang

**START** 



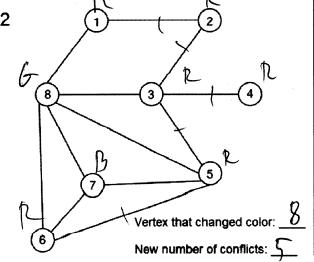
Step 3 13 Vertex that changed color: New number of conflicts:

Step 1



Step 4 Vertex that changed color: 2New number of conflicts:

Step 2



Step 5

