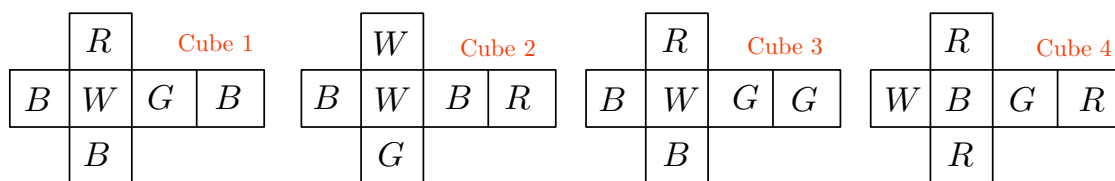
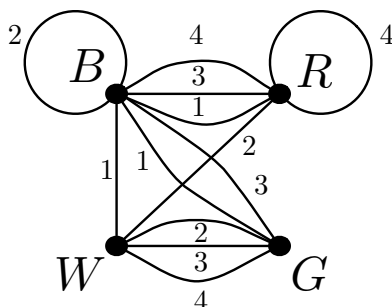


► **Problem 9.1-4(g)**

Find solution , where possible, for the cube games pictured in the following figure.

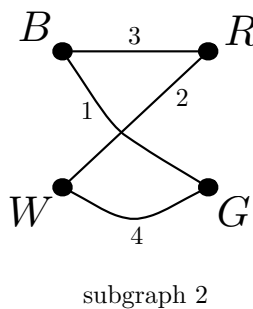
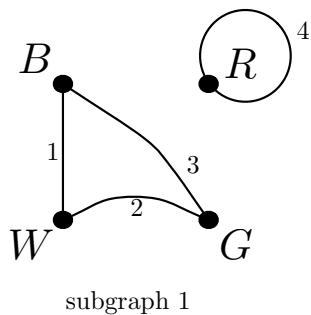


Solution. The following is the graph corresponding to the cubes.



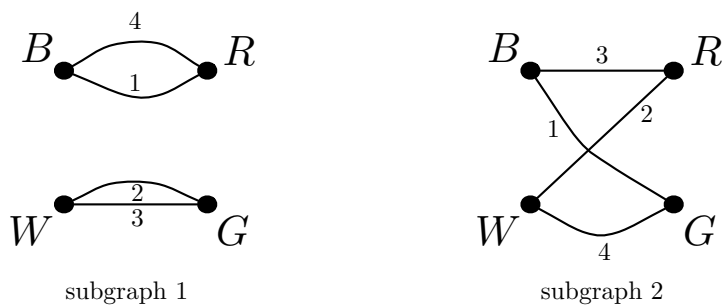
There are four solutions for this problem.

Solution 1: The first pair of edge disjoint subgraphs are as follows.



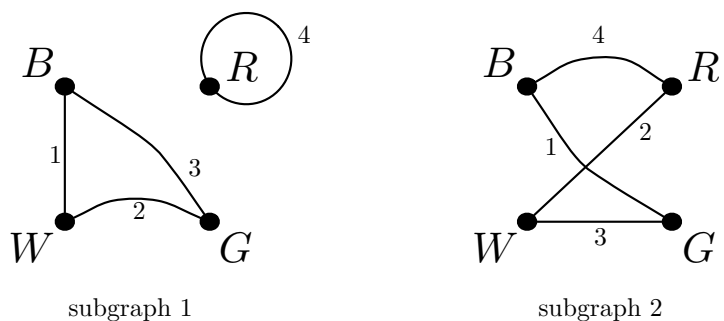
	Front	Back	Right	Left
cube 4	R	R	G	W
cube 3	G	B	R	B
cube 2	W	G	W	R
cube 1	B	W	B	G

Solution 2: The second pair of edge disjoint subgraphs are as follows.



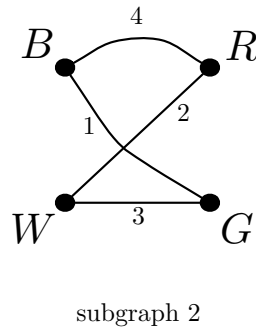
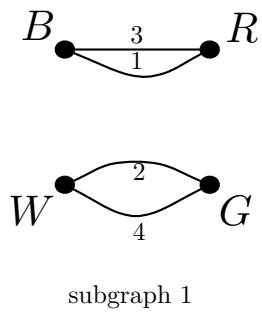
	Front	Back	Right	Left
cube 4	B	R	G	W
cube 3	W	G	R	B
cube 2	G	W	W	R
cube 1	R	B	B	G

Solution 3: The third pair of edge disjoint subgraphs are as follows.



	Front	Back	Right	Left
cube 4	R	R	R	B
cube 3	G	B	G	W
cube 2	W	G	W	R
cube 1	B	W	B	G

Solution 4: The fourth pair of edge disjoint subgraphs are as follows.



	Front	Back	Right	Left
cube 4	W	G	R	B
cube 3	B	R	G	W
cube 2	G	W	W	R
cube 1	R	B	B	G

□