Reduction K-Dimensional Matching to Set Game.

Still an work of the form

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1

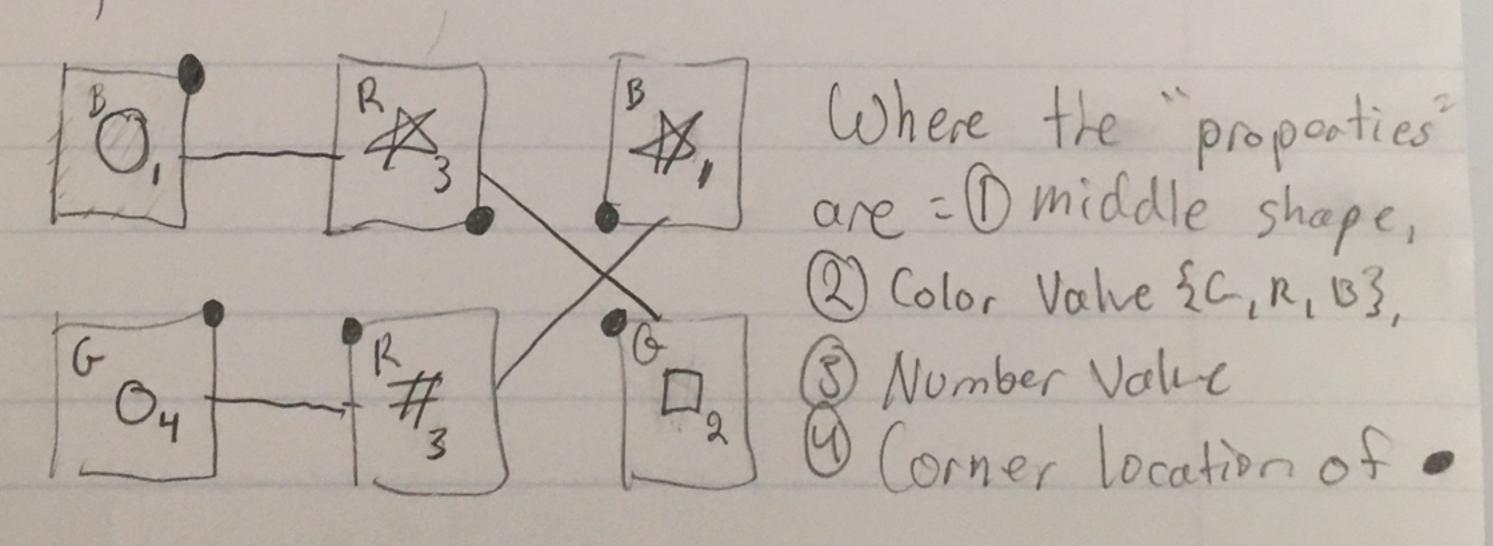
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O K-Dimensional Matching: Given a graph and a set of possible matches, M is a subset of those matches! It me £ 1...v3" where v >0 and K=# of dimensions.

Is there a perfect match such that Inl=v?.

Set Game: Given a set of coods with 4 properties each, is there a perfect match of all cards such that no match shares more than one property.

Example:



Therefore, a perfect matching would be as shown in the connections, such that no matching of cards shares any properties.

We can write this as C = {a,... a,3" where 4 is the number of properties.

Therefore, if h-property set is satisfied (a perfect natch is found) a perfect set is also found for the cords in Set.