

# Graph theory and multiset intersections

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Hi

I'm currently pondering the problem of how to count the number of isomorphic graphs (well trees actually) that you will obtain if you intersect bags of the nodes in the tree. Each bag basically contains all the nodes in a given sub-tree. A further question I'm trying to answer is how many bags are needed so that you can uniquely reconstruct a tree from the intersection of each of the bags. Does anyone have any pointers to papers or textbooks, or google keywords that might help me find an answer to these problems?

Hiren

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