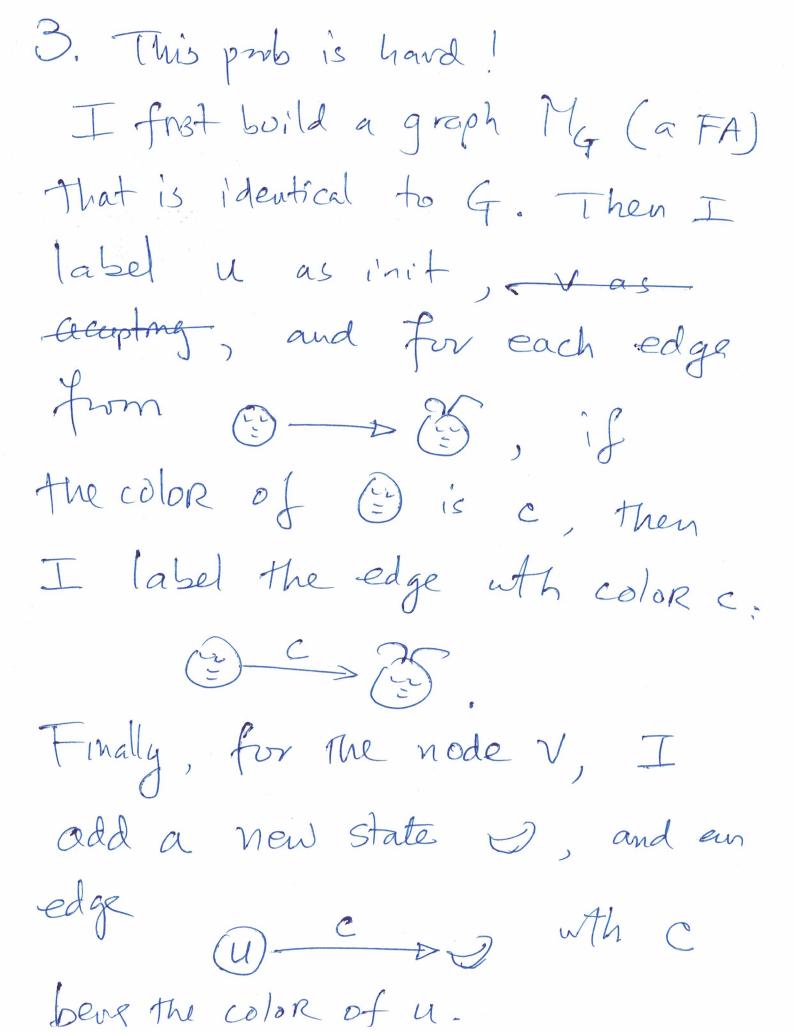
Sketch of solutions In HWG Cpts 350 1. Presented in class. You need run topological sort and design de fouvard-propagation algorithm. 2. You need run topological sort and carefully design a forward propagation scheme while each Node is equipped with an auxillary data structure to record the number of paths with i yellow's and j green's, for all oxi, j = n, where n is the # of nodes in G.



Now, I is my accepting strate of MG. Next, I conshict a FA My from veg Exp V. Then, I do Catesian product MG X My = M Finally, I use The alg in Prob to court the # of paths from i'nit to accepting in M, which is a graph, if the court is finite. Otherwise, return +00. 11 How to Know the cout is as or not? USQ SCC and see if there is a walk from whit to accepting that passes a looping SCC.

4. Super hand, you need Google and read!

5. YOU must write a minipaper (a good practice if you want to be in Grad School).