HW 5 solutions for cpts 350 I want to west find lowest 1. Step 1. Thinking all subseq's all strugs of α of β and contains 2. Data Striture Cartesian Product Mx × MB × Mabb = M FA acepts FA acepts FA acepts
the bag the bag abour above above Step I need find a longest word accepted by M. How? Run longest path alg on The guph of M from init to accepting and collect the word on the path.

// Note: Can you draw Ma from a given string d = aba? 1/200-0,50-0,50 1 Then I elimate 1- transitions (a 11 standard alg in 317) from the above // automation and then I have Ma. // Cartesian Product is a standard alg // in 317. Il longest Path alg is shortest path alg with negative distance".

2. Stg I. Thinking = all sibseq's of all words in Lz all subseq's of I want a longest all words in Z, word in this bag! step2. Data Stratures M2 = M.

FA aceptis

The above bag FA acopting the above bag Step3. I need two cases to consider, O Run SCC on M and cheeke that there is a walk from init to accepting that passes a node in a looping SCC. if this is the return too. @ if this is not true, run

longest gath alg on M from "nit to accepting and ret. The length. 3. you need Google on locality Sensitive hashing and read papers (this is good by your job Interview!)