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#### HW 4

0) I collaborated with Carlo Bilbao on this homework assignment. We talked about the questions together and how to use the content we learned in class Wednesday to solve them.

1) A new strategy that I want to start trying is to rather than take notes of all of the concepts being taught during lecture, I take specific notes about the concepts which I don't fully understand, and then ask them during office hours after class in order to get all of the concepts that I missed. I believe that trying to take notes on everything isn't very effective, and that it is better to focus on the more difficult, harder to grasp concepts. I also feel that my study habits aren't how I want them to be at the moment, and that I should spread my time out more evenly before the test, rather than spending most of the time right before the test and due dates; however, continuing to attend the classes live and reviewing the notes after class, as well as talking with fellow classmates about the concepts and problems has definitely been helpful. Overall, I believe class time is being managed well, and the homework problems are good practice for understanding the application of the material, so I don't have suggestions for change right now.

2) The CFG for the language of the set of even-length palindromic binary strings can be defined by the 4-tuple  $(V, \Sigma, R, S)$  where  $V = \{S\}$ ,  $\Sigma = \{0,1\}$ ,  $R = \{S \rightarrow 0S0 \mid 1S1 \mid \epsilon\}$ , and  $S \in V$

EC) The CFG for the language of the set of all palindromic binary strings can be defined by the 4-tuple  $(V, \Sigma, R, S)$  where  $V = \{S\}$ ,  $\Sigma = \{0,1\}$ ,  $R = \{S \rightarrow 0S0 \mid 1S1 \mid 1 \mid 0 \mid \epsilon\}$ , and  $S \in V$