Quiz (Take-Home) 2017/11/20
CSC 286/486: Computational Complexity Fall 2017
Instructor: Lane A. Hemaspaandra TAs: Ethan Johnson, Shir Maimon, Colin Pronovost

To do this quiz, you must have signed up by 9PM on 11/21 for one of the slots on the spreadsheet whose URL will be BB-emailed to you, probably on late 11/19 or 11/20. Each slot is 30 minutes long and will have just one person taking the quiz during it. Those time slots are composed of all the TA office hours starting Monday 11/27 and going through (inclusive—so you MAY do the quiz even at the Tuesday 12/5 office hour. That is a total of 12 30-minute slots (each with room for 1 person each). You may NOT put two people in the same slot on this quiz. (If when you go to sign up, all slots that you can make are filled, then immediately send email—this MUST happen BEFORE the sign-up deadline—to the email address csc486staff in the domain cs.rochester.edu, and Ethan will arrange for you a different 30-minute slot.)

And then you must show up for that slot. Here is what I told the TAs about the quiz, so please read this carefully so you will be able to prepare (note that you cannot bring in notes; note that you can get a 0.01% grade if you show up and do not do well; this quiz on these hard proofs is NOT one where you get a 100% just by showing up and trying):

What you’ll do in those slots is ensure that the students understand and can explain to you—perhaps not every small detail but rather what i’m most looking for is the overall flavor/idea/approach, and then insofar as there is time, work with them on any details they are having problems on—some proof (either the book’s or one of their own making) for your choice of Theorem 1.14 or Theorem 1.16 from the Hem-Ogi book. (You can ask different students different ones... up to you.)

This will not be a quiz on which a student gets 100% just for showing up. On the other hand, they in order to get 100% don’t have to be able to give the kind of detailed proof the book gives—that would be hard to do, or check, within 30 minutes—but they should be able to give a pretty clean high-level overview of the proof’s approach, and after they do that (or you get them to being able to do that, within the 30 minutes), then let them know they’ll be getting 100% and then try to flesh out with them (ideally for them to, but if they are stuck, it can be more interactive) the details as best as possible, again insofar as can be done within the slot’s time. (if they don’t even get to being able to, even with your help, give a reasonable high-level proof sketch for whichever of the two proofs you ask them, then they get a 0.01% on the quiz; anyone NOT COMING for their signed-up-for slot in contrast gets a 0.0%. but i’m hoping everyone will through their group work, the 11/20 class, their Hem-Ogi-reading (to be assigned on 11/20) of proofs of these two theorems, and studying for this take-home quiz be able to earn a 100%!)

The quiz will NOT let the students bring in notes—they need to speak to you from their own minds and understanding.

Have the TA you do this quiz with write here their signature and what time you did it and what your grade was, and they should before you even leave the room if possible put your grade on this into the 11/20 take-home quiz column in BB:

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<th>DATE</th>
<th>TA SIGNATURE</th>
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