CMSC389O Final Rubric

Expect a forty-five minute interview with one of the TAs. You have the option of a virtual interview or an in person interview. If you choose the virtual interview you will chat with us via Google Hangouts (video not required), while writing code in a shared Google Doc. If you choose the in person interview, you will meet the instructor at a predetermined room in Mckeldin Library or one of the ESJ huddle rooms and code on a whiteboard. If you wish to do an in person interview, please sign up immediately or choose a later time slot and immediately contact your interviewer so that we have time to reserve a room. If a room cannot be reserved we reserve the right to make the final a phone interview. You will be asked one regular-difficulty coding question and a possible second one, if time permits. In addition, to warm up, your TA will ask you one short behavioral question at the beginning of the interview.

The interview is structured as follows:

- 5-10 minutes behavioral
- 30-35 minutes technical question about one of the following topics (plus a second question if time permits)
 - Bit Manipulation
 - String Manipulation
 - Arrays
 - Sorting and Searching
 - Linked Lists
 - Graphs
 - Trees
 - Recursion
 - Dynamic Programming
- Big-O Analysis of your code, and Test Cases will be required throughout

Behavioral Question (10)							
Behavioral Interview Question (10)	Student answered the question in great detail and was able to tie in many of their skills in the answers. (10)	Student answered the question in great detail and was able to tie in some of their skills in the answers. (8)	Student answered the question. (5)	Student did not fully answer the question. (3)	Student was unable to answer the question. (0)		
Technical Question (90)							
Code (50)							
Clarity (5)	Code was extremely easy to read. (5)	Code was easy to read. Very few explanations were needed. (4)	Code was challenging to read. But, Interviewer had complete understanding of what the code was	Code was difficult to read. Interviewer had difficulty understanding what the code was doing, even with in-depth	Code was impossible to read. Interviewer had no understanding of what code was doing, even		

			doing, after short explanation. (3)	explanation. (2)	with in-depth explanation. (1)	
Syntax Mistakes (5)	No syntactic mistakes. (5)		Very few syntactic mistakes. (3)		Many syntactic mistakes. (0)	
Logic Mistakes in Code (5)	No logic mistakes. (5)	Some logic mistakes, but noticed immediately when started running through examples. (4)	Some logic mistakes that required prompting to notice but students immediately understood their mistake. (3)	Some logic mistakes that required prompting to notice and students needed in depth explanation to understand their mistake. (2)	Many logic mistakes. (1)	
Algorithm Correctness (25)	Overall logic for solving the problem was correct and well thought out. (25)	Overall logic for solving the problem was mostly correct and worked well with minor adjustments. (20)	Overall logic for solving the problem was rocky at first but with promptying from the instructor the student was able to quickly come up with the correct logic. (15)	Overall logic for solving the problem was rocky and even with promptying from the instructor the student had a hard time coming up with the correct logic. (10)	Overall logic for solving the problem was rocky and even with promptying from the instructor the student was unable to come up with the correct logic. (5)	
Time/Space Complexity (10)	Same as HW, the most optimal space and time gets you 10 points, and you will lose 2 points per worsening time or space complexities.					
Soft Skills/Other	(30)					
Communication (5)	Student spoke clearly and was easily understood all of the time. (5)	Student spoke clearly and was easily understood most of the time. (4)	Student spoke clearly and was easily understood some of the time. (3)	Student did not speak clearly and was not easily understood. (2)	Communication became a barrier to the instructor's understanding of what the student was doing. (1)	
Engagement with Interviewer (10)	Student actively engaged with interviewer by asking for understanding	Student actively engaged with interviewer by explaining their	Student actively engaged with interviewer by explaining their	Student only engaged with interviewer when prompted, but gave full	Student only engaged with interviewer when prompted and gave very	

	and explaining their thought process. Explains all relevant information like edge cases without prompting.(10)	thought process. (8)	thought process, but needed prompting at times. (6)	and complete answers. (4)	brief responses. (2)	
Test Cases (5)	Student runs through all relevant test cases. (5)	Student runs through most relevant test cases. (5)	Student runs through some relevant test cases. (5)	Student runs through one relevant test cases. (5)	Student runs through no relevant test cases. (5)	
Edge Cases (10)	Student addresses all relevant edge cases and their code handles it. (5)	Student addresses all relevant edge cases, but their code does not handle all of it. (4)	Student addresses most relevant edge cases and their code handles it. (3)	Student addresses most relevant edge cases, but their code does not handle all of it. (2)	Student does not address any edge cases. (1)	
Timeliness (10)	Free 10 points for starting on time. If you are no longer able to make your scheduled time please try to reschedule at least 24 hrs in advice otherwise you will lose points. Exceptions to this include university excused emergencies.					

Tips To Rocking Each Section:

- Behavioral Interview Question
 - Take your time answering the question.
 - o Make sure you answer all parts, have a clear narrative, and finish your answer.
 - o If the interviewer is quiet on the other end, stay confident in your response. They are probably writing down notes.
 - Think about what questions your interviewer may ask beforehand, and prepare some responses. These can generally be applied to many different types of questions.
 - Know your resume inside and out! Be prepared to talk about a project or internship that you
 have listed on your resume. Think about the exercises we did in the first week!
- Technical Interview
 - Code
 - Clarity
 - Spacing out code well
 - Following standard coding practices for your language
 - Clear comments where needed
 - Syntax Errors
 - Logic Errors in Code
 - Think about edge cases while writing code
 - Algorithm Correctness
 - Make sure your solution addresses the problem
- Soft skills
 - Communication

- Speaking clearly means talking with an even tone, not too fast, not too quietly, and with word choice that has your audience in mind.
- Engagement with the Interviewer
 - Things you should be doing
 - Explaining your thought process outloud to interviewer.
 - Checking that the interviewer understands what you are doing.
 - Ask questions like, do you have any questions? Do you understand what I mean here? Etc.
 - Take the lead in the conversation (e.g. when you are done coding, tell your interviewer that you would like to run through some test cases; talk about time and space complexity without prompting)