

CSCI-UA.0480-051: Parallel Computing

Practice Midterm Exam (Oct 26th, 2023)

Total: 100 points

Important Notes- READ BEFORE SOLVING THE EXAM

- If you perceive any ambiguity in any of the questions, state your assumptions clearly and solve the problem based on your assumptions. We will grade both your solutions and your assumptions.
- This exam is take-home.
- You are allowed only one submission.
- Your answers must be very focused. You may be penalized for wrong answers and for putting irrelevant information in your answers.
- You must upload a pdf file.
- Your answer sheet must have a cover page (as indicated below) and one problem answer per page (e.g., problem 1 in separate page, problem 2 in another separate page, etc.).
- This exam has 2 problems totaling 100 points.
- The very first page of your answer is the cover page and must ONLY contain:
 - Your Last Name
 - Your First Name
 - Your NetID
 - Copy and paste the honor code showed in the rectangle at the bottom of this page.

Honor code (copy and paste to the first page of your exam)

- You may use the textbook, slides, and any notes you have. But you may not use the internet.
- You may NOT use communication tools to collaborate with other humans. This includes but is not limited to G-Chat, Messenger, E-mail, etc.
- Do not try to search for answers on the internet; it will show in your answer and you will earn an immediate grade of 0.
- Anyone found sharing answers or communicating with another student during the exam period will earn an immediate grade of 0.

"I understand the ground rules and agree to abide by them. I will not share answers or assist another student during this exam, nor will I seek assistance from another student or attempt to view their answers."

1. ****Scenario:**** You are taking the Parallel Computing midterm exam. You encounter a problem you find ambiguous. You decide to make an assumption to proceed with solving the problem. Explain, in detail, how you would present your solution and assumptions in your answer sheet to maximize your grade. Be specific about formatting and what information to include. (50 points)

2. ****Scenario:**** You are completing the Parallel Computing midterm exam. You finish Problem 1 and begin Problem 2. You realize that Problem 2 requires some quick research online to clarify a specific concept. However, you remember the exam rules. Describe, step-by-step, how you would approach Problem 2 without violating the exam rules, and how your answer would be presented in your PDF submission. Explain the potential consequences if you were to use the internet to look up information. (50 points)