

Final Exam

Autumn 2023

Name _____

Net ID _____

Academic Integrity: You may not use any resources on this exam except for writing instruments, your own brain, and the exam packet itself. This exam is closed notes, closed neighbor, closed electronic devices, etc.. The last two pages of this exam provide a list of potentially helpful identities as well as room for scratch work (respectively). No markings on these last two pages will be graded. Your answer for each question must fit in the answer box provided.

Instructions: Before you begin, **Put your name and UW Net ID at the top of this page.** Make sure that your name and ID are LEGIBLE. Please ensure that all of your answers appear within the boxed area provided.

Section	Max Points
Asymptotic Analysis	12
Pre-Midterm Data Structures	12
Hash Tables	12
Sorting	10
Graphs	20
Parallelism	12
Concurrency	12
P vs NP	5
Extra Credit	(+2)
Total	95