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ezebs#ARVARD UNIVERSITY
si>Faculty of Arts and Sciences</i>
Computer Sc

Instructor: Dr. David Malan | Date: 2024-12-15

Final Examination - Computer Science Fundamentals

Duration: 3 hours | Total Points: 100

A comprehensive examination covering all major topics from the course.

INSTRUCTIONS:

- Read each question carefully and completely before answering
- For multiple choice questions, select the best answer
- Write clearly and legibly for all written responses
- Show all work for calculation problems where applicable
- Review your answers before submitting
- Ask the instructor if you have any questions

Additional Notes:

This is a comprehensive test of the enhanced branding system.

Student Full Name:	
Student ID/Number:	
Date:	
Signature:	

Academic Year: 2024-2025 | Fall Semester

Question 1. (5 points)

What is the primary purpose of an algorithm?
A. To solve problems systematically
B. To write code faster
C. To debug programs
D. To optimize memory usage
Question 2. (3 points)
Python is a compiled programming language.
A. True
B. False
Question 3. (10 points)
Explain the difference between a list and a tuple in Python.
Answer:
Answer: — — — — — — — — — — — — — — — — — —
Answer:
Answer:
Answer: — — — — — — — — — — — — — — — — — —

Question 4. (25 points)
Discuss the importance of data structures in computer science and provide examples of when you would use different types.
Answer: (Use the space below for your complete response)

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