

Computer Science Practice Exam

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Difficulty: Easy

- 1. Explain the difference between a compiler and an interpreter in the context of programming languages. Provide a specific example of a language typically compiled and a language typically interpreted, and describe a key advantage of each approach.**
- 2. A simple program needs to store the names and ages of three different people. Describe how you would represent this data using a data structure like an array or a dictionary (choose one, and clearly state your choice). Then, write pseudocode that shows how your program would print the name and age of the oldest person.**
- 3. Imagine you are designing a website for a local bakery. Describe at least three different functionalities you would include, and explain how each functionality would improve the user experience for customers. Consider aspects such as ease of navigation, information access, and online ordering.**