

6.100L | Fall 2022 | Undergraduate

Introduction To CS And Programming Using Python



More Info

Materials by Lecture

Lecture 1: Introduction

Lecture 2: Strings, Input/Output, Branching

Lecture 3: Iteration

Lecture 4: Loops over Strings, Guess-and-Check, Binary

Lecture 5: Floats and Approximation Methods

Lecture 6: Bisection Search

Lecture 7: Decomposition, Abstraction, Functions

Lecture 8: Functions as Objects

Lecture 9: Lambda Functions, Tuples, and Lists

Lecture 10: Lists, Mutability

Lecture 11: Aliasing, Cloning

Lecture 12: List Comprehension, Functions as Objects, Testing, Debugging

Lecture 13: Exceptions, Assertions

Lecture 14: Dictionaries

Lecture 15: Recursion

Lecture 16: Recursion on Non-Numerics

Lecture 17: Python Classes

Lecture 18: More Python Class Methods

Lecture 19: Inheritance

Lecture 20: Fitness Tracker Object-Oriented Programming Example

Lecture 21: Timing Programs, Counting Operations

Lecture 22: Big Oh and Theta

Lecture 23: Complexity Classes Examples

Lecture 24: Sorting Algorithms

Lecture 25: Plotting

Lecture 26: List Access, Hashing, Simulations, and Wrap-Up



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