

# Data Structures and Algorithms I in Python

Acme-Tutors  
Python

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<b>Instructor:</b>	Hugh Weng	<b>Location:</b>	Zoom Meeting
<b>Email:</b>	tutors@acme-nyc.com	<b>Group Day/Time:</b>	Thursdays, 6:30 PM - 8:30 PM
<b>Phone:</b>	646-280-7089		
<b>Start Date:</b>	July 7, 2022		
<b>Term:</b>	Summer 2022		

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## GROUP DESCRIPTION

This group is for Data Structures and Algorithms I in Python programming. This is a rigorous introduction to basic functional and object oriented programming paradigms in Python and algorithmic problem sets with data structures and a complementary group to Data Structures and Algorithms II in Python.

## GROUP OBJECTIVES

- To build understanding of algorithms and data structures in Python.
- To develop an adequate working knowledge to be able to build algorithms and data structures in Python.
- Understand the syntax and semantics of the language.
- Engage in active discussions.
- Build algorithms in Python in the lab sessions.

## PREREQUISITES

Prior experience with Python. Any prior experience with another programming language is a plus.

**TEXTBOOK:** *Data Structures and Algorithms in Python*, Wiley

## TENTATIVE SCHEDULE

Week	Description
1	Algorithm Analysis
2	Analysis Lab
3	Recursion
4	Recursion Lab
5	Array-based Sequence
6	Sequence Lab
7	Stacks, Queues, and Deques
8	Stacks, Queues, and Deques Lab
9	Linked Lists
10	Linked Lists Lab
11	Trees
12	Trees Lab