

# Crack LeetCode with Python

Xingdong Cao

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# About me

- ▶ BS.c, Electrical Engineering, Zhejiang University (15-19)
- ▶ MS.c, Biometric Tech Lab, ECE Department, UCalgary (20-)
  - ▶ apply deep learning technologies to the biometric field
- ▶ Algorithm lover
  - ▶ practice algo problems in LeetCode for 1 year
  - ▶ solved 1300 problems, finished 78 contests
  - ▶ overall ranking: 278/135,097, best ranking: 20/10,984

# What's LeetCode and Why LeetCode

- ▶ a website where people, mostly software development engineers (SDE) and data scientists (DS), to practice their algo problems-solving skills
- ▶ important part of recruiting process and can help a lot in your career

# Prerequisites

- ▶ control flow statements: for while if-elif-else break continue
- ▶ logic expressions: and or True False
- ▶ basic data structures:
  - ▶ array (0-indexed)
  - ▶ string (immutable)
  - ▶ hashset (set in Py)
  - ▶ hashmap (dictionary in Py)
- ▶ define and call a function
- ▶ better to know:
  - ▶ Object-Oriented Programming (OOP) in Python
  - ▶ time complexity
  - ▶ recursive function

# Let's see an easy problem

## ► 1. Two Sum

# My experience and tips to improve coding skills

- ▶ start with easy and highly-rated problems
- ▶ learn from others
  - ▶ discuss board
  - ▶ YouTube channel
- ▶ take part in contests
  - ▶ brand new problems
  - ▶ different difficulty levels
  - ▶ time constraint
- ▶ keep it as a habit

## Recommended resources

- ▶ Python Cheat-sheet
- ▶ Data Structure and Algorithm Visualizations
- ▶ LeetCode Discuss Board