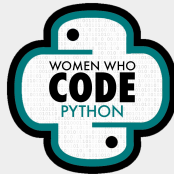


# Welcome to Leetcode Study Group!

## Before we begin...

- Session materials:  
<https://github.com/WomenWhoCode/WWCodePython>
- Set your chat to “All panelists and attendees” and share your thoughts there
- Ask any questions using the Q&A button
- Have fun and make some coding friends!



# WELCOME

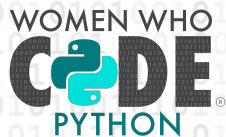
## WOMEN WHO

# CODE



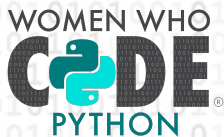
# Our Mission

Inspiring women to  
excel in technology  
careers.



# Our Vision

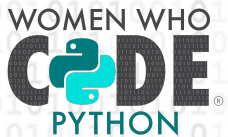
A world where diverse  
women are better  
represented as engineers  
and tech leaders





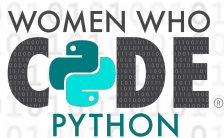
# Our Values

- + Focus on the mission
- + Live Leadership
- + Punch above your weight
- + Inclusion at the core



# Our Target

Engineers with two or more years of experience looking for support and resources to strengthen their influence and levelup in their careers.



# 290,000

## Members

70 networks in 20 countries

122+ countries

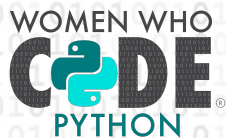
14K+ events

\$1025 daily Conference tickets

\$2M Scholarships

Access to [jobs](#) + [resources](#)

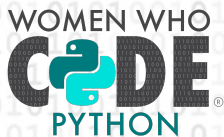
Infinite connections





# OUR MOVEMENT

As the world changes, we  
can be a connecting force  
that creates a sense of  
belonging while the world is  
being asked to isolate.





# Code of Conduct

**WWCode is an inclusive community**, dedicated to providing an empowering experience for everyone who participates in or supports our community, regardless of gender, gender identity and expression, sexual orientation, ability, physical appearance, body size, race, ethnicity, age, religion, socioeconomic status, caste, creed, political affiliation, or preferred programming language(s).

Our events are intended to inspire women to excel in technology careers, and anyone who is there for this purpose is welcome. We do not tolerate harassment of members in any form. Our [Code of Conduct](#) applies to all WWCode events and online communities.

Read the full version and access our incident report form at [womenwhocode.com/codeofconduct](https://womenwhocode.com/codeofconduct)



# LeetCode Study Group





# Meet Your Team!



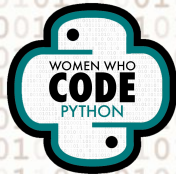
**Chethana**

Lead / Associate Software Engineer



**Karen**

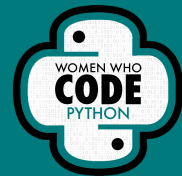
Lead / Programmer



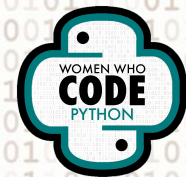


# Today's Agenda

1. Introduction to two pointers
2. Deep dive of 3Sum
  - a. Problem Discussion
  - b. Test cases
  - c. Approaches with time complexity
  - d. Live coding
3. Next problems to tackle
4. Q&A



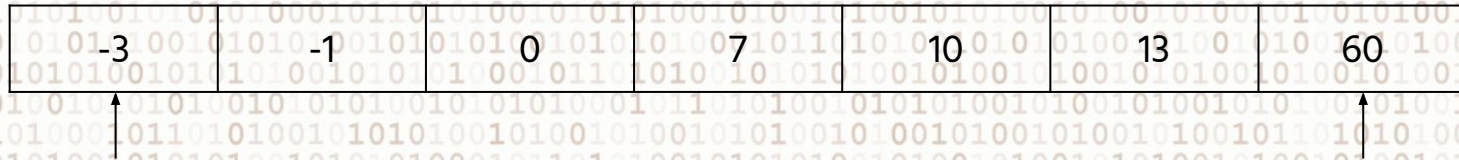
# Two Pointers



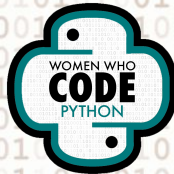


# What is it and when to use it?

- Problem solving technique used on a sorted array/matrix



- When the input is sorted and you need to make comparisons between array elements
- Useful as it reduces number of comparisons (sorted input) and time complexity to mostly  $O(N)$  where  $N$  is the length of the input array



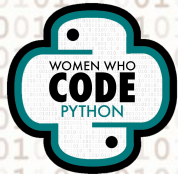


# How to use it?

## Example - 3Sum

*“Given an integer array `nums`, return all the triplets `[nums[i], nums[j], nums[k]]` such that  $i \neq j$ ,  $i \neq k$ , and  $j \neq k$ , and  $nums[i] + nums[j] + nums[k] == 0$ .*

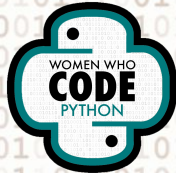
*Notice that the solution set must not contain duplicate triplets”*



# Simplification of 3Sum

## Note

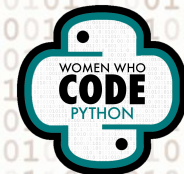
- Integer array
- Output is a list of triplets where triplet sums to 0





# Let's Code!

<https://replit.com/join/bqjttagwxw-codernewbie>





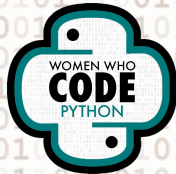
# Next steps from here

Two sum - very popular and exposes you to newer patterns

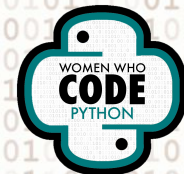
*"Given an array of integers `nums` and an integer `target`, return indices of the two numbers such that they add up to `target`"*

Two sum II - similar to the above, notice that the input is sorted

*"Given a 1-indexed array of integers `numbers` that is already sorted in non-decreasing order, find two numbers such that they add up to a specific target number. Let these two numbers be `numbers[index1]` and `numbers[index2]` where  $1 \leq \text{first} < \text{second} \leq \text{numbers.length}$ "*



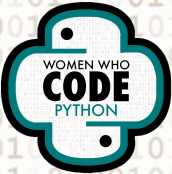
QnA Time!





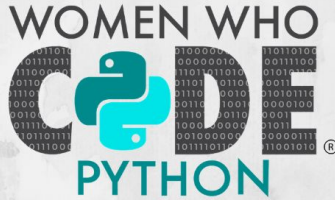
# Useful Links

- Link to repository
- [Repl link](#)
- Mock interview - Pramp?
- Leetcode Weekly contest link?





# Stay Connected!



JOIN US ON SOCIAL MEDIA!

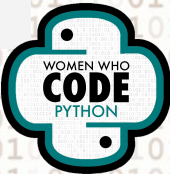


@WWCODEPYTHON

[WOMENWHOCODE.COM/PYTHON](https://www.womenwhocode.com/python)

## Upcoming Events

- Oct 7 - Sliding Window
- Oct 21 - Hashmap, Hashset
- Nov 4 - Binary Search
- Nov 18 - DFS and BFS
- Dec 2 - Backtracking
- ... more to come!



# Upcoming Events

## Upcoming Events

[See More](#)

FRI  
24  
SEP

🌟 **LeetCode Series Study Group** 🌟 *Featured, Recurring*

📍 Online | Python | 8:00 AM - 9:30 AM HKT (UTC+0800)

[Register](#)

SAT  
25  
SEP

**CFP Speaker Series: Putting Together A Conference Talk: A How To Guide**

📍 Online | 3:00 AM - 4:00 AM HKT (UTC+0800)

[Register](#)

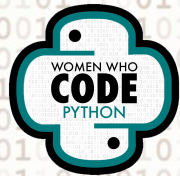
SAT  
25  
SEP

📖 **Python Libraries 101** 📖 *Featured, Recurring*

📍 Online | Python | 10:00 PM - 11:00 PM HKT (UTC+0800)

[Register](#)

Register at: <https://www.womenwhocode.com/python/events>





WOMEN WHO

**Thank You for Joining!**

CODE

