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**Good Evening all of You !!**

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- DSA, C++ से करूँ या Java से ..... Python से कर सकते हैं क्या ?
- DSA पढ़े कहाँ से ..... Youtube पर कौन सी Playlist से या कौन से Course से ?
- मेरा Coding में मन नहीं लगता ..... मुझसे Leetcode के Question नहीं होते ?
- Web Development करें या Android ? कौन सा सही रहेगा .....
- Projects कैसे बनाये ?
- मेरी तो Internship भी नहीं लगी अभी तक तो मेरा Placement हो सकता है क्या ?
- मैं अपना Interest Coding में कैसे Increase करूँ ?
- What to do to get 18+ Package ?
- मेरा कुछ हो जाएगा क्या ?

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**Welcome !!**

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# GLAU CodeChef Chapter - CodeBusters

Guide Swift

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**TARGET**

**15 LPA — 30 LPA**

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Who I am ?

&

Why I am Standing Here ?

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**Software Development  
Engineer**



# Priyanshu Upadhyay

SDE Intern @Juspay

- Currently in **4th Year of B.Tech - Computer Science (Cyber Security)** (2019 - 2023)
- Got **Intern + Pre Placement Offer (PPO)** from **Juspay** via On-Campus Placement for **Software Development Engineer Role**.
- Cleared **Hackwithinfy Exam 2022**, got PPO for **Specialist Programmer Role @Infosys**.
- Ex Backend Developer Intern @**Convin**, SDE Intern@**Software Cell GLA University**.
- Recognized by Dell Technologies, Sophos as a **Cyber Security Researcher**.
- Former **Technical Deputy Head @Codebusters Club**, GLA University.



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**I Love to Share my  
Knowledge &  
Experiences**

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# My Journey

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How I Created  
Healthy **Environment**  
**Around me ?**

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What **companies** are looking  
for ?

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- 
- **Intelligence**
  - **Problem Solving Skills**
  - **Flexibility & Adaptability**
  - **Can you teach yourself?**
  - **Communication Skills**
-

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What we **have to do?**  
&  
Where to **Start ?**

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- 
- **Data Structures & Algorithms (DSA)**
  - **Competitive Programming (Basic)**
  - **CS Core Subjects (OS, CN, DBMS)**
  - **Real-life Projects**
  - **Good Resume**
  - **Communication Skills**
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# Preparing **DSA**

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1. Learn Topics from **Youtube / Courses**.
  2. Follow **DSA Sheets** for Practice.
  3. Maintain Good **Leetcode Profile**.
  4. Participate in **Weekly Leetcode Contests**.
  5. **Solve Problem of the Day (PODS)**  
**(Leetcode & GeeksforGeeks)**
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# DSA Sheets

1.

COMPILED DAY-WISE DSA SHEET			
TOPIC COVERED:			
Array & Matrix			
String			
Sorting and Searching			
Linked List			
Stacks and Queue			
Tree			
Graph			
HashMap and Heap			
Greedy			
Dynamic Programming			
Backtracking			
Bit Manipulation			
Tries			
Array &String			
Day 1			

2.

Questions by Love Babbar:		
Youtube Channel: <a href="https://www.youtube.com/channel/UCQHlxxBFrbfdrk1jF0moTpW">https://www.youtube.com/channel/UCQHlxxBFrbfdrk1jF0moTpW</a>		
Topic:	Problem:	Done [yes or no]
		<->
Array	<a href="#">Reverse the array</a>	<->
Array	<a href="#">Find the maximum and minimum element in an array</a>	<->
Array	<a href="#">Find the "Kth" max and min element of an array</a>	<->
Array	<a href="#">Given an array which consists of only 0, 1 and 2. Sort the array without using any sorting algo</a>	<->
Array	<a href="#">Move all the negative elements to one side of the array</a>	<->
Array	<a href="#">Find the Union and Intersection of the two sorted arrays.</a>	<->
Array	<a href="#">Write a program to cyclically rotate an array by one.</a>	<->
Array	<a href="#">find Largest sum contiguous Subarray [V. IMP]</a>	<->
Array	<a href="#">Minimise the maximum difference between heights [V.IMP]</a>	<->
Array	<a href="#">Minimum no. of Jumps to reach end of an array</a>	<->
Array	<a href="#">find duplicate in an array of N+1 Integers</a>	<->
Array	<a href="#">Merge 2 sorted arrays without using Extra space.</a>	<->
Array	<a href="#">Kadane's Algo [V.V.V.V.V IMP]</a>	<->
Array	<a href="#">Merge Intervals</a>	<->
Array	<a href="#">Next Permutation</a>	<->
Array	<a href="#">Count Inversion</a>	<->
Array	<a href="#">Best time to buy and Sell stock</a>	<->
Array	<a href="#">find all pairs on integer array whose sum is equal to given number</a>	<->
Array	<a href="#">find common elements In 3 sorted arrays</a>	<->
Array	<a href="#">Rearrange the array in alternating positive and negative items with O(1) extra space</a>	<->
Array	<a href="#">Find if there is any subarray with sum equal to 0</a>	<->
Array	<a href="#">Find factorial of a large number</a>	<->
Array	<a href="#">find maximum product subarray</a>	<->
Array	<a href="#">Find longest coinsecutive subsequence</a>	<->
Array	<a href="#">Given an array of size n and a number k, fin all elements that appear more than " n/k " times.</a>	<->
Array	<a href="#">Maximum profit by buying and selling a share atmost twice</a>	<->
Array	<a href="#">Find whether an array is a subset of another array</a>	<->
Array	<a href="#">Find the triplet that sum to a given value</a>	<->

3.

Day 1: Arrays

×

Find both C++/Java codes of all problem in the articles in the first column.

	Problem	Practice Link 1	Video Solution	Practice Link 2
<input type="checkbox"/>	<a href="#">Set Matrix Zeroes</a>	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>
<input type="checkbox"/>	<a href="#">Pascal's Triangle</a>	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>
<input type="checkbox"/>	<a href="#">Next Permutation</a>	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>
<input type="checkbox"/>	<a href="#">Kadane's Algorithm</a>	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>
<input type="checkbox"/>	<a href="#">Sort an array of 0's 1's 2's</a>	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>
<input type="checkbox"/>	<a href="#">Stock buy and Sell</a>	<a href="#">Link 1</a>	<a href="#">YT</a>	<a href="#">Link 2</a>

Day 2: Arrays Part-II

+

Day 3: Arrays Part-III

+

Day 4: Arrays Part-IV

+

Day 5: Linked List

+

0/191

Day 6: Linked List Part-II

# 450 DSA Cracker

Your Gateway to crack DSA 🔥

Start Solving

## Array

Total Questions 36

*Not yet started*

Start Now

## Matrix

Total Questions 10

*Not yet started*

Start Now

## String

Total Questions 43

*Not yet started*

Start Now

## Search & Sort

Total Questions 36

*Not yet started*

Start Now

## Linked List

Total Questions 36

*Not yet started*

Start Now

## Binary Trees

Total Questions 35

*Not yet started*

Start Now

## BST

Total Questions 22

Start Now

## Greedy

Total Questions 35

Start Now

## BackTracking

Total Questions 19

Start Now



# Leetcode

- Focus on **Quality** rather than **Quantity**.
- Always Read **Most Voted Discussion Section** for Optimize Solution.
- Must Do **Leetcode Top Interview Section Problems**.
- **Make Short Notes** of Problem Solution.
- Start with Brute Force Solution, then **Optimize**.
- Participate in **Weekly and Biweekly Contest** to Handle New Problems within time-frame.
- Utilize [Leetcode Discussion Section](#) for Company Research.

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**How solving Problem of the Day helps me in Maintaining  
Coding Consistency ?**

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# Preparing Core Subjects

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- 
1. Learn Core Concept in-depth from **Youtube Playlists / Notes.**
  2. Prepare from **Interviewbit & GeeksforGeeks – Top Interview Questions.**
  3. **Make your own Notes for Last Moment Revision before Interviews.**
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# Preparing **Projects**

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# What is an API?



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# Building **Resume**

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# Recommended Templates

## PRIYANSHU UPADHYAY

priyanshu.upadhy@gmail.com | +91 9084405042 | Mathura, Uttar Pradesh  
[LinkedIn](#) | [LeetCode](#) | [GeeksForGeeks](#) | [GitHub](#)

### EDUCATION

**B. Tech in Computer Science & Engineering** | GLA University **CPI: 8.28/10.0** | Aug' 2019 – May 2023  
**CBSE – Class XII** | Delhi Public School, Mathura **80.06%** | 2018 – 2019

### EXPERIENCE

- Backend Developer Intern** | Convin, Bengaluru, India **Apr' 2022 – Jun' 2022**
- Working on the backend application that mutually communicates with React.js frontend and AI System.
  - Responsible for **code contribution to improve** the application **response time, resolving bugs**, and collaborating with the technical team for the development and testing of the Rest APIs.
- Project Intern** | Erainterfases, Remote **May' 2021 – Jul' 2021**
- Migrated from an older unauthorized person detection system to **Amazon Rekognition**, which **increased accuracy by 32.5%** and **reduced false-positive alerts**.
  - Developed **Intrusion Alert SMS Triggering API** using **Python**, improved system response time by **31%**.

### PROJECTS

- Item Picklist App** | *Python, React Native, PDF Scraping, Firebase* [Link](#)
- Built a **Mobile App** for **Colgate Stockist** that acts as a one-stop place to manage and gather all the info. related to daily orders like quantity, product image, route, salesman, and total value.
  - Integrated **Python PDF rendering library** to extract data from an uploaded file based on page coordinates.
- PhishSpy: Phishing Detection Tool** | *Python, Rest APIs, HTML Parsing, React.js* [Link](#)
- The tool comprises **18+ functional checks** to determine the legitimacy of user-submitted URLs.
  - Integrated **Curl & BeautifulSoup** to scrape the webpage and its headers, **tidextract** to obtain domain name, Whois database to check the traffic and status of the website.
- CryptoShare: Secure File Transfer** | *Django, Pycryptodome, File Handling, Hashlib, SQLite* [Link](#)
- Designed a web app that securely **sends & receives** the file by using **AES & DES** Algorithm, **Hashing**, and **OTP** Authentication to maintain **Integrity & Confidentiality**.
  - Using **MultiThreading** to encrypt & decrypt odd-even chunks at the same time to **reduce runtime**.

### ACHIEVEMENTS

- Solved **550+ Problems** based on Data Structures & Algorithms on [LeetCode](#) & [GeeksforGeeks](#).
- Cleared **Infosys HackWithInfy Exam 2022** (Specialist Programmer Role)
- Gold Certification** in Hybrid Mobile App Development with **React-Native**. (Training) [Certificate](#)
- Runner Up Prize** @IBM Project Presentation, (Cyber Security & Forensics)

### SKILLS

- Programming Expertise:** C, C++, Python, Data Structures, Algorithms, Backend Development
- Frameworks & Utilities:** Flask & Django, React Native, Git, MySQL, Web Scraping
- Familiar With:** Java, HTML, CSS, Node.js, Rest APIs, Reverse Engineering

### EXTRACURRICULAR

- Technical Team Head, Codechef Chapter, GLA University (Jul' 2020 – Present):** Conducted various hands-on workshops, and Looks over the problem setting in contests.
- Worked with **University Software Cell (Jun' 2022)** to develop an Online Coding Compiler.
- Hosted **15+ Workshops** on various technologies & programming languages for **800+** university students.
- Achieved the recognition of **Excellent Performance** at **Cyber Cell Gurugram Police**, Haryana. [Certificate](#)

## Priyanshu Upadhyay

priyanshu.upadhy@gmail.com | +91 9084405042 | Mathura, Uttar Pradesh  
[LINKEDIN](#) | [HACKERRANK](#) | [LEETCODE](#) | [CODECHEF](#)

### EDUCATION

**GLA UNIVERSITY** **Aug' 19 – May' 23**  
**B. TECH COMPUTER SCIENCE ENGINEERING** **Mathura, Uttar Pradesh** **undefined: 8.21**  
**DELHI PUBLIC SCHOOL** **2018 – 2019**  
**CBSE CLASS XII** **Mathura, Uttar Pradesh** **undefined: 80.06%**

### EXPERIENCE

**ERAINTERFACES | PROJECT INTERN** **Remote | Apr' 2021 – Jul' 2021**

Migrated from an older unauthorized person detection system to Amazon Rekognition that increased accuracy by 32.5%. false-positive alerts were reduced.

- Developed **Intrusion Alert SMS triggering API** using **Flask** that has improved response time by 32%.

### SKILLS

**PROGRAMMING LANGUAGES** C, C++, Python  
**LIBRARIES/Frameworks** Fast API, Flask & Django Web Framework, React Native, Node.js  
**TOOLS / PLATFORMS** Git, GitHub, BurpSuite, VS Code, Postman  
**DATABASES** Google Firebase, MySQL

### PROJECTS / OPEN-SOURCE

**EASYRTO: VEHICLE INFORMATION AP** | [Link](#) React Native, Javascript, Expo, Rest APIs, Data Scraping

Developed an app that acts as a one-stop-place for everyone. to manage and gather all information related to Vehicles, Driving Licence, RTO, Fuel Prices & FastTag Balance.

Collecting related data from Parivahan Seva, NAHI, Paytm website & application using Advance Data Scraping techniques & Reverse Engineering of the mobile app.

#### ITEM PICKLIST APP | [Link](#)

Python, React Native, PyMuPDF (Scrap PDF Data), Firebase

Developed a Mobile App for Colgate Stockist that acts as a one-stop place to manage and gather all the info. related to daily orders like quantity, product image, route, salesman, and total value.

Implemented Airtable's API for fetching product images and other information uploaded by merchants.

#### CRYPTOSHARE: SECURE FILE TRANSFER | [Link](#)

Django, Pycryptodome, File Handling, Hashlib, SQLite

A web app that helps users to send & receive the file in a secured way using access control & encryption.

Using **MultiThreading** to encrypt or decrypt odd-even chunks at the same time to reduce runtime.

Implemented **AES & DES** Algorithm, **Hashing**, **OTP** Auth. to maintain **Integrity & Confidentiality**

#### PHISHSPY : PHISHING DETECTION TOOL | [Link](#)

Python, Flask, Data Scraping, HTML Parsing

The tool comprises 25+ functional checks to determine the legitimacy of user-submitted URLs.

Integrated **Curl & BeautifulSoup** to scrape the webpage and its headers, **tidextract** to obtain domain name, Whois database to check the traffic and status of the website.

## Priyanshu Upadhyay

+91 9084405042 | priyanshu.upadhy@gmail.com | [linkedin.com/in/username](#) | [github.com/username](#)

### EDUCATION

**State University** **Sep. 2017 – May 2021**  
*Bachelor of Science in Computer Science* **City, State**

### EXPERIENCE

**Electronics Company** **May 2020 – August 2020**  
*Software Engineer Intern* **City, State**

- Developed a service to automatically perform a set of unit tests daily on a product in development in order to decrease time needed for team members to identify and fix bugs/issues.
- Incorporated scripts using **Python** and **PowerShell** to aggregate **XML** test results into an organised format and to load the latest build code onto the hardware, so that daily testing can be performed.
- Utilized **Jenkins** to provide a continuous integration service in order to automate the entire process of loading the latest build code and test files, running the tests, and generating a report of the results once per day.
- Explored ways to visualize and send a daily report of test results to team members using **HTML**, **Javascript**, and **CSS**.

#### Startup, Inc

*Front End Developer Intern* **May 2019 – August 2019**  
**City, State**

- Assisted in development of the front end of a mobile application for iOS/Android using **Dart** and the **Flutter** framework.
- Worked with **Google Firebase** to manage user inputted data across multiple platforms including web and mobile apps.
- Collaborated with team members using version control systems such as **Git** to organize modifications and assign tasks.
- Utilized **Android Studio** as a development environment in order to visualize the application in both iOS and Android.

### PROJECTS

**Gym Reservation Bot** | *Python, Selenium, Google Cloud Console* **January 2021**

- Developed an automatic bot using **Python** and **Google Cloud Console** to register myself for a timeslot at my school gym.
- Implemented **Selenium** to create an instance of **Chrome** in order to interact with the correct elements of the web page.
- Created a **Linux** virtual machine to run on **Google Cloud** so that the program is able to run everyday from the cloud.
- Used **Cron** to schedule the program to execute automatically at 11 AM every morning so a reservation is made for me.

#### Ticket Price Calculator App | *Java, Android Studio*

**November 2020**

- Created an **Android** application using **Java** and **Android Studio** to calculate ticket prices for trips to museums in NYC.
- Processed user inputted information in the back-end of the app to return a **subtotal** price based on the tickets selected.
- Utilized the layout editor to create a **UI** for the application in order to allow different scenes to interact with each other.

#### Transaction Management GUI | *Java, Eclipse, JavaFX*

**October 2020**

- Designed a sample banking transaction system using **Java** to simulate the common functions of using a bank account.
- Used **JavaFX** to create a **GUI** that supports actions such as creating an account, deposit, withdraw, list all accounts, etc.
- Implemented object-oriented programming practices such as inheritance to create different account types and databases.

### SKILLS SUMMARY

**Languages** Python, PHP, C++, JavaScript, SQL, Bash, JAVA  
**Frameworks** Scikit, NLTK, Spacy, TensorFlow, Keras, Django, Flask, NodeJS, LAMP  
**Tools** Kubernetes, Docker, GIT, PostgreSQL, MySQL, SQLite  
**Platforms** Linux, Web, Windows, Arduino, Raspberry, AWS, GCP, Alibaba Cloud, IBM Cloud

### LEADERSHIP / EXTRACURRICULAR

#### Fraternity

*President* **Spring 2020 – Present**  
**University Name**

- Achieved a 4 star fraternity ranking by the Office of Fraternity and Sorority Affairs (highest possible ranking).
- Managed executive board of 5 members and ran weekly meetings to oversee progress in essential parts of the chapter.
- Led chapter of 30+ members to work towards goals that improve and promote community service, academics, and unity.

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# Grabbing Off-Campus Opportunities

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# GLA University **Placement Process / Insights**

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**Third Year - 6th Semester**



# **Placement Readiness Exam**

FYI : Not Permitted / 08.03.2022 / Online Campus Recruitment @ Josh Technology Group ➡



**GLA University, Mathura** <glams\_placements2@gla.ac.in>

to me ▼

Fri, Mar 4, 9:46 PM

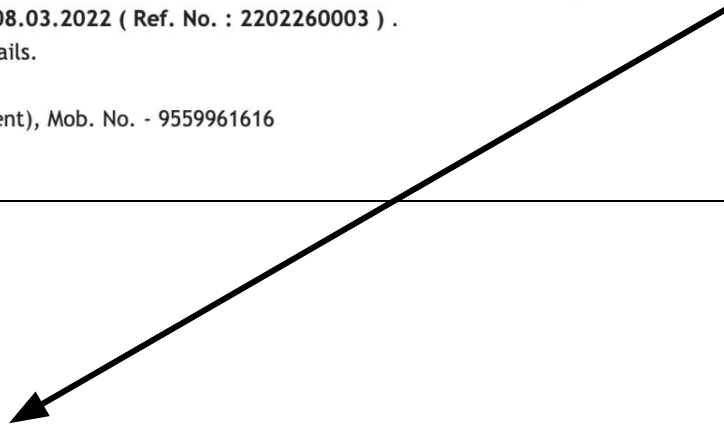


Dear Priyanshu Upadhyay,

As per the records and performance in the pre placement activities held for the mentioned schedule, you are '**Not Permitted**' to participate in Online Campus Recruitment of '**Josh Technology Group**' scheduled on **08.03.2022** ( Ref. No. : **2202260003** ) .

Kindly contact to undersigned for further details.

Suresh Pratap Singh (Training And Development), Mob. No. - 9559961616



This will make you cry sometimes ...

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How to **Actually** do it ?

OR

**Some Tips to Maintain Consistency**

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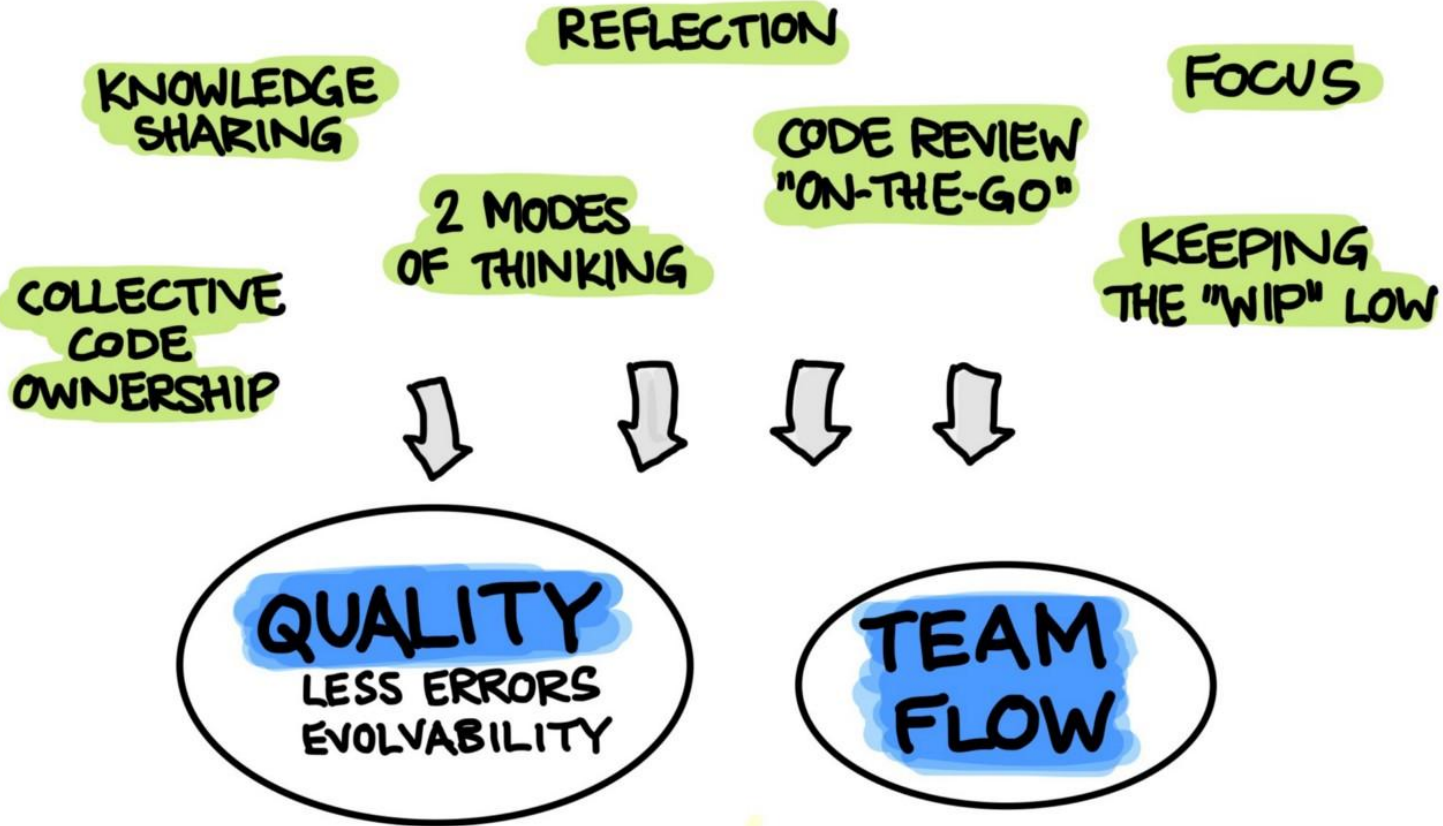
- 
- 
- **Problem of the Day**
  - **Track Your Performance**
  - **Live Contests**
  - **Pair Programming**
  - **Teaching (Knowledge Transfer)**
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**Why Pair Programming is a  
must!**

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# BENEFITS OF PAIR PROGRAMMING



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Ask Questions !!

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**Thanks!**

