Top 100 Codes



Preplnsta Top 100 Codes

Below You will find some of the most important codes in languages like C, C++ and Java. These codes are of prime importance for college semester exams and also for various online tests and interviews of the companies offering placements within varying range in LPA.

These codes are very important since these will help you clear your basic concepts in various languages.

Getting Started

 Introd 	luction	to Top	100	codes
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•	ASCII	Table
•	AJUII	Idolo

Positive or Negative number: C
• Even or Odd number: C C++ Java Python
Sum of First N Natural numbers: C C++ Java Python
• Sum of N natural numbers: C C++ Java Python
• Sum of numbers in a given range: C C++ Java Python
Greatest of two numbers: C C++ Java Python
Greatest of the Three numbers: C C++ Java Python
Leap year or not: C C++ Java Python
• Prime number: C C++ Java Python
• Prime number within a given range: C C++ Java Python
Sum of digits of a number: C C++ Java Python
• Reverse of a number : C C++ Java Python
Palindrome number: C C++ Java Python
Armstrong number: C C++ Java Python
Armstrong number in a given range: C C++ Java Python
Fibonacci Series upto nth term: C C++ Java Python
• Find the Nth Term of the Fibonacci Series: C C++ Java Python
• Factorial of a number : C C++ Java Python
• Power of a number : C C++ Java Python
• Factor of a number : C C++ Java Python
Finding Prime Factors of a number: C C++ Java Python

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Strong number: C | C++ | Java | Python
Perfect number: C | C++ | Java | Python
Perfect Square: C | C++ | Java | Python
Automorphic number: C | C++ | Java | Python
Harshad number: C | C++ | Java | Python
Abundant number: C | C++ | Java | Python
Friendly pair: C | C++ | Java | Python
```

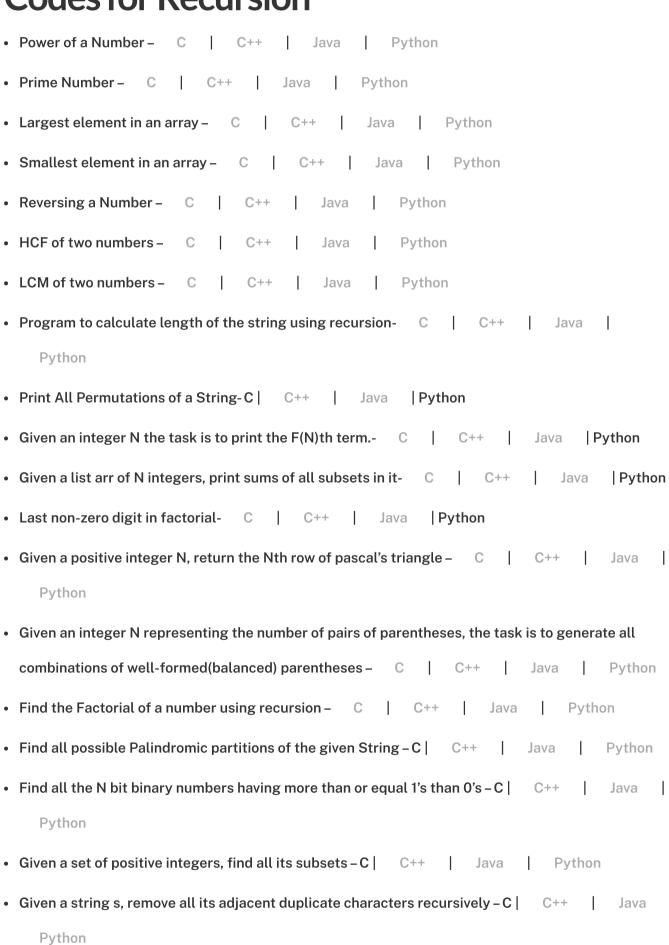


Working with Numbers

Python

Highest Common Factor(HCF): C
Lowest Common Multiple (LCM): C C++ Java Python
Greatest Common Divisor: C C++ Java Python
Binary to Decimal to conversion: C C++ Java Python
Octal to Decimal conversion: C C++ Java Python
Hexadecimal to Decimal conversion: C C++ Java Python
Decimal to Binary conversion: C C++ Java Python
Decimal to Octal Conversion: C C++ Java Python
Decimal to Hexadecimal Conversion: C C++ Java Python
Binary to Octal conversion: C C++ Java Python
Octal to Binary conversion: C C++ Java Python
• Quadrants in which a given coordinate lies : C C++ Java Python
• Permutations in which n people can occupy r seats in a classroom : $\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $
Java Python
Maximum number of handshakes: C C++ Java Python
 Maximum number of handshakes: C C++ Java Python Addition of two fractions: C C++ Java Python
Addition of two fractions: C C++ Java Python
 Addition of two fractions: C C++ Java Python Replace all 0's with 1 in a given integer: C C++ Java Python
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 Addition of two fractions: C C++ Java Python Replace all 0's with 1 in a given integer: C C++ Java Python Can a number be expressed as a sum of two prime numbers: C C++ Java Python Count possible decoding of a given digit sequence: C C++ Java Python Calculate the area of a circle: C C++ Java Python Find the prime numbers between 1 to 100: C C++ Java Python

Codes for Recursion







Important Codes related to Arrays

•	Find Largest element in an array: C C++ Java Python
•	Find Smallest Element in an Array: C C++ Java Python
•	Find the Smallest and largest element in an array: C C++ Java Python
•	Find Second Smallest Element in an Array: C C++ Java Python
•	Calculate the sum of elements in an array: C C++ Java Python
•	Reverse an Array: C C++ Java Python
•	Sort first half in ascending order and second half in descending : C C++ Java
	Python
•	Sort the elements of an array: C C++ Java Python
•	Finding the frequency of elements in an array: C C++ Java Python
•	Sorting elements of an array by frequency: C C++ Java Python
•	Finding the Longest Palindrome in an Array: C C++ Java Python
•	Counting Distinct Elements in an Array: C C++ Java Python
•	Finding Repeating elements in an Array: C C++ Java Python
•	Finding Non Repeating elements in an Array: C C++ Java Python
•	Removing Duplicate elements from an array: C C++ Java Python
•	Finding Minimum scalar product of two vectors: C C++ Java Python
•	Finding Maximum scalar product of two vectors in an array : C C++ Java
	Python
•	Counting the number of even and odd elements in an array : C C++ Java
	Python
•	Find all Symmetric pairs in an array: C C++ Java Python
•	Find maximum product sub-array in a given array : C C++ Java Python
•	Finding Arrays are disjoint or not: C C++ Java Python
•	Determine Array is a subset of another array or not : C C++ Java
	Python
•	Determine can all numbers of an array be made equal : C C++ Java
	Python
•	Finding Minimum sum of absolute difference of given array: C C++ Java
	Python
•	Sort an array according to the order defined by another array: C C++ Java
	Python
•	Replace each element of the array by its rank in the array: C C++ Java
	Python
	Finding equilibrium index of an array: C C++ Java Python
•	Rotation of elements of array-left and right: C C++ Java Python

• Block swap algorithm for array rotation : C | C++ | Java | Python

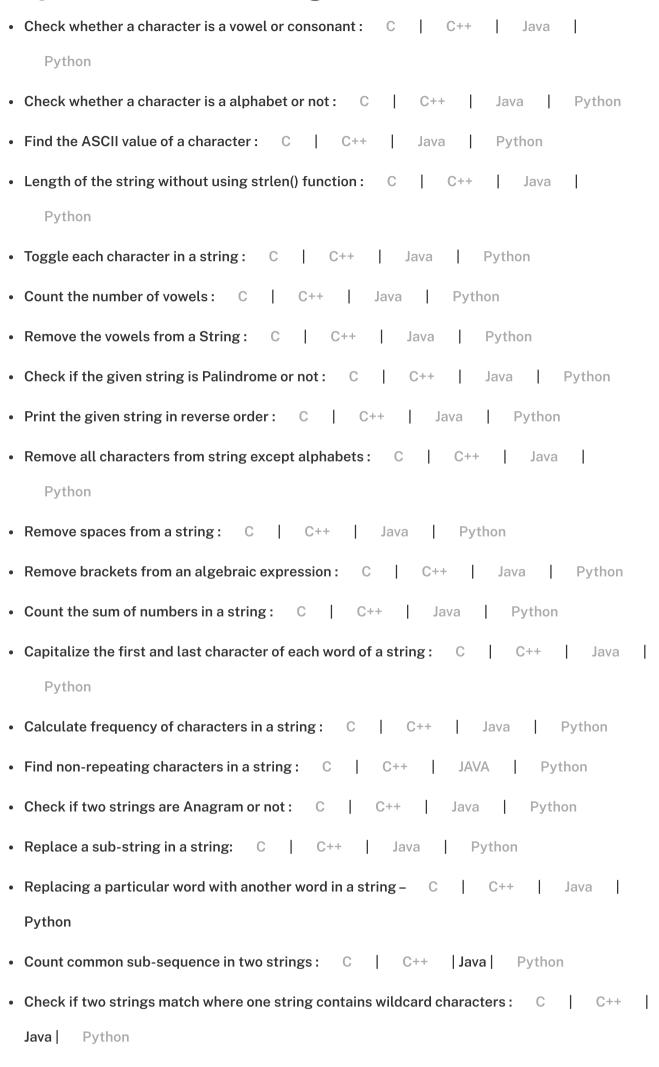
• Juggling algorithm for array rotation: C | C++ | Java | Python

• Finding Circular rotation of an array by K positions: C | C++ | Java |

Python

• Balanced Parenthesis Problem : C | C++ | Java | Python

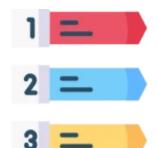
Operations on Strings



• Print all permutations of a given string in lexicographically sorted order: C | C++ |

Java | Python





Advanced Codes related to Arrays

•	Given an array which consists of only 0, 1 and 2. Sort the array without using any algorithm – 0
	C++ Java Python
•	Find the "Kth" max and min element of an array - C C++ Java Python
•	Move all the negative elements to one side of the array - C C++ Java Python
•	Find the Union and Intersection of the two sorted arrays C C++ Java Python
•	Find Largest sum contiguous Subarray - C C++ Java Python
•	Minimize the maximum difference between heights - C C++ Java Python
•	Minimum no. of Jumps to reach the end of an array - C C++ Java Python
•	Find duplicate in an array of N+1 Integers – C C++ Java Python
•	Merge 2 sorted arrays without using extra space C C++ Java Python
•	Kadane's Algorithm - C C++ Java Python
•	Merge Intervals – C C++ Java Python
•	Count Inversion - C C++ Java Python
•	Best time to buy and Sell stock - C C++ Java Python
•	Find all pairs on integer array whose sum is equal to given number – C C++ Java
	Python
•	Find if there is any subarray with sum equal to 0 – $$ C $$ C ++ $$ Java $$ Python
•	Find factorial of a Large Number - C C++ Java Python
•	Find common elements In 3 sorted arrays - C C++ Java Python
•	Rearrange the array in alternating positive and negative items with O(1) extra space – C C++
	Java Python
•	Given an array of size n and a number k, find all elements that appear more than " n/k " times. –
	C++ Java Python
•	Maximum profit by buying and selling a share atmost twice – C C++ Java Python
•	Next Permutation – C C++ Java Python
•	Find longest consecutive subsequence - C C++ Java Python
•	Trapping Rain water problem - C C++ Java Python
•	Chocolate Distribution problem – C C++ Java Python
•	Smallest Subarray with sum greater than a given value - C C++ Java Python
•	Three way partitioning of an array around a given value – C C++ Java Python
•	Minimum no. of operations required to make an array palindrome – C C++ Java
	Python
•	Median of 2 sorted arrays of equal size - C C++ Java Python
•	Median of 2 sorted arrays of different size - C C++ Java Python

Codes related to Matrix

- Spiral traversal on a Matrix C | C++ | Java | Python
- Search an element in a matrix C | C++ | Java | Python
- Find median in a row wise sorted matrix C | C++ | Java | Python
- Find row with maximum no. of 1's C | C++ | Java | Python
- Print elements in sorted order using row-column wise sorted matrix C | C++ | Java |

Python

- Find a specific pair in matrix C | C++ | Java | Python
- Rotate matrix by 90 degrees C | C++ | Java | Python
- Kth smallest element in a row-column wise sorted matrix C | C++ | Java | Python
- Common elements in all rows of a given matrix C | C++ | Java | Python

Pattern Printing



Square Star Pattern

Difficulty -★

Checkout code for this program -

С Python Java

Hollow Square Star Pattern

Difficulty - ★ and 1/2

Checkout code for this program -

С

Rhombus Star Pattern

Difficulty - ★★

Checkout code for this program -

Python Python \mathbb{C} Java Java

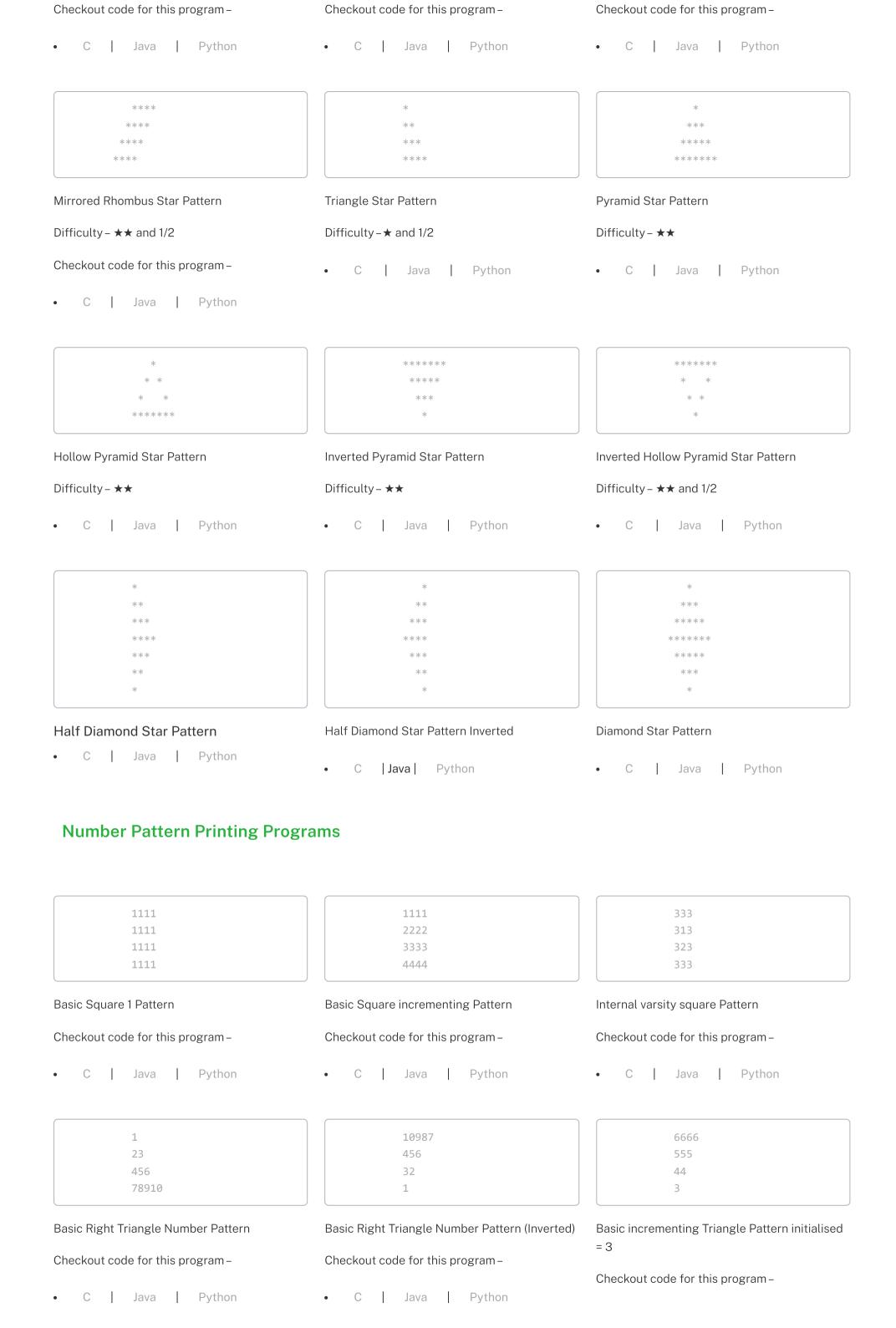
Rectangle Star Pattern

Parallelogram Star Pattern

Difficulty -★ and 1/2

Hollow Rectangle Star Pattern

Difficulty - ★★



3 44 555 6666 Basic incrementing Triangle Pattern(Inverted) initialised = 3 Checkout

code for this program -

C Java Python

3 4 5 6 7 8 9 10 11 12

Basic double incrementing Triangle Pattern initialised = 3 Checkout code for this program -

• C Java Python 3 44 555 6666 555 44

Python

Basic incrementing Diamond Pattern(Inverted) initialised = 3

Checkout code for this program -

Java

Java Python

3 45 678 9101112 678 45 3

Basic double incrementing Triangle Pattern initialised = 3

Checkout code for this program -

Python Java

3 54 876 1211109 876 54 3

Basic incrementing Triangle Pattern(Inverted) initialised Mirrored = 3

Checkout code for this program -

Python Java

2 33 444 5555 5555 444 33 2

Basic incrementing Diamond Pattern(Inverted Sandwich) initialised = 3

Checkout code for this program -

Java Python

2 34 567 891011 891011 567 34 2

Basic double incrementing Triangle Pattern initialised Sandwich= 3

Checkout code for this program -

Python Java

2 43 765 1110198 1110198 765 43 2

Basic incrementing Triangle Pattern(Inverted) initialised Mirrored Sandwich = 3

Checkout code for this program -

Python Java

Number Star Mix Pattern

1*2*3*4 5*6*7*8 9*10*11*12 13*14*15*16

Basic incrementing Squared Number-Star Pattern

Checkout code for this program

C | Java | Python

13*14*15*16 9*10*11*12 5*6*7*8 1*2*3*4

Basic incrementing inverted Squared Number-Star Pattern

Checkout code for this program

C | Java | Python

1*2*3*4 9*10*11*12 5*6*7*8 13*14*15*16

Basic incrementing Squared Number-Star Pattern + Basic incrementing inverted Squared Number-Star Pattern (alternate)

Checkout code for this program

Java | Python

1*2*3*4 1*2*3*4 4*3*2*1 9*10*11*12 9*10*11*12 12*11*10*9 8*7*6*5 13*14*15*16 17*18*19*20 5*6*7*8 13*14*15*16 16*15*14*13 5*6*7*8 Basic incrementing Squared Number-Star Basic incrementing Squared Number-Star Basic incrementing Squared Number-Star Pattern + Basic incrementing inverted Squared Pattern Mirrored + Basic incrementing inverted Pattern + Basic incrementing inverted Squared Squared Number-Star Pattern Mirrored Number-Star Pattern (alternate) Number-Star Pattern (alternate) (alternate) Type 2 Type 3 Checkout code for this program Checkout code for this program Checkout code for this program Java | Python Java Python Java | Python 1 7*8*9*10 1 2*3 4*5*6 4*5*6 4*5*6 2*3 2*3 7*8*9*10 7*8*9*10 Basic incrementing Triangle Pattern Basic incrementing Triangle Pattern Basic incrementing Triangle Pattern + Inverted (Mix) Checkout code for this program Checkout code for this program Checkout code for this program Java Python Java Python Java | Python 10*9*8*7 1 6*5*4 3*2 4*5*6 6*5*4 3*2 2*3 10*9*8*7 7*8*9*10 Basic incrementing mirrored Triangle Pattern Basic incrementing inverted mirrored Triangle Basic incrementing Triangle Pattern + Inverted Pattern (Mix) Checkout code for this program Checkout code for this program Checkout code for this program C Java Python C Python | Python Java Java 1 1 4*4*4*4 2*2 2*2 3*3*3 3*3*3 3*3*3 2*2 4*4*4*4 4*4*4*4 3*3*3 4*4*4*4 2*2 3*3*3 2*2 2*2 3*3*3 1 4*4*4*4 Basic Diamond Number Star Pattern Basic Diamond Number Star Pattern Basic Diamond Number Star Pattern (Sandwich Checkout code for this program (Sandwich) Inverted) C | Java | Python Checkout code for this program Checkout code for this program | Python | Python Java Java 2 6*6*6*6 3*3 3*3 5*5*5 4*4*4 4*4 3*3 4*4*4 3 2 3*3 3 2 4*4 5*5*5 Basic Diamond Number Star Pattern initialised 6*6*6*6 Basic Diamond Number Star Pattern Checkout code for this program (Sandwich) Basic Diamond Number Star Pattern (Sandwich

Checkout code for this program

Java

| Python

Inverted)

Checkout code for this program

C | Java | Python

Few more pattern programs

• Program for Pyramid star pattern

• Program for Pyramid number pattern

• Program for Palindromic Pyramid Pattern – Java | Python

• Program for Diamond star pattern

• Program for Diamond number pattern

• Program for Floyd's Trianlge – Java | Python

• Program for Pascal triangle - Java | Python

Program to Check array similarity

• Program for Square sum

• Program for Longest palindrome in the array

Logged in as harsh2125gupta. Edit your profile. Log out? Required fields are marked *

Enter comment here...

Post Comment

//



Katta

Im so glad for visiting this site $\Box\Box$

Reply↓



Hritik S

Sir or Mam how can built logic to solve these question? Please explain it

Reply↓



Preplnsta Support

Hey, we recommend you to practice as much coding questions as you can, this will help you out to develop logic. 🎔

 $\mathsf{Reply}\downarrow$



JAI KRISHNAN

super website to attend the questions .Thank you for giving this platform to all.

Reply↓



PrepInsta Support

Hey there,

Thanks for your feedback, it means alot.

Reply↓



Yasmin Shaik

Hi sir iam in 3rd year i can't know how to prepare for placenta can you please help me how to prepare for placements

 $\mathsf{Reply}\downarrow$



Preplnsta Support

Hey there, Kindly message us at Whatsapp number 8448440710, Our expert mentors will guide you further precisely 🙌.

Reply↓



AISHIKA

Will these questions be enough to crack service base companies?

Reply↓



Preplnsta Support

Hi Aishika,

These questions will be enough but you can still practice dedicated company based Coding Questions.

Reply↓



Mokara

Yes

 $\mathsf{Reply}\downarrow$



PrepInsta Support



Reply↓



AISHIKA

Will these questions be enough to crack product base companies?

Reply↓



PrepInsta Support

Hi Aishika,

Yes these questions will be enough but we will advice to practice Intermediate Coding Questions as well.

Reply↓



Suman Dolai

hii can i ask few questions

 $\mathsf{Reply}\downarrow$



Preplnsta Support

Hey there, Thanks for commenting and feel free to ask your queries

Reply↓



Parth

Nice

Reply↓



BARATH

Will these questions be enough to crack 8+LPA companies.

Reply↓



Preplnsta Support

Yes, these are good enough. But for packages > 6LPA also do DSA, you can refer https://prepinsta.com/data-structures/

Reply↓



Ramya

Civil war 1 code

Reply↓



Kadali

Hi Sir,Now I am in 3rd year still I don't know how to get a placement.Can you please help me to get a placement.

Reply↓



PrepInsta Support

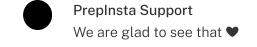
Hey there, Don't worry. We are right here to help you. Kindly cal us on 8448440710 or text us on 8287659510 for guidance. Our team would be more than glad to help you.

 $\mathsf{Reply}\downarrow$



The

I think these are enough to crack coding round, thankyou prepinsta



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