

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

• Finding Prime Factors of a number :

Introduction to Top 100 codes
ASCII Table
Positive or Negative number: C C++ Java Python
• 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



- Perfect Square: C | C++ | Java | Pythor
- 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

• Highest Common Factor(HCF): C | C++ | Java | Python

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: C C++ Java Python
Maximum number of handshakes: C C++ Java Python
Addition of two fractions: 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
- Calculate the number of digits in an integer: C | C++ | Java | Python
- Convert digit/number to words: C | C++ | Java | Python
- Counting number of days in a given month of a year: C | C++ | Java | Python
- Finding Number of times x digit occurs in a given input: C | C++ | Java | Python
- Finding number of integers which has exactly x divisors: C | C++ | Java | Python
- Finding Roots of a quadratic equation: C | C++ | Java | Python



Codes for Recursion

Power of a Number - C C++ Java Python
Prime Number - C C++ Java Python
• Largest element in an array - C C++ Java Python
Smallest element in an array - C C++ Java Python
Reversing a Number - C C++ Java Python
HCF of two numbers - C C++ Java Python
• LCM of two numbers - C C++ Java Python
Program to calculate length of the string using recursion- C C++ Java Python
Print All Permutations of a String- C C++ Java Python
Given an integer N the task is to print the F(N)th term C C++ Java Python
Given a list arr of N integers, print sums of all subsets in it- C C++ Java Python
Last non-zero digit in factorial- C C++ Java Python
Given a positive integer N, return the Nth row of pascal's triangle - C C++ Java Python
• Given an integer N representing the number of pairs of parentheses, the task is to generate all combinations of well-formed(balanced) parentheses –
C C++ Java Python
• Find the Factorial of a number using recursion - C C++ Java Python
• Find all possible Palindromic partitions of the given String – C C++ Java Python
• Find all the N bit binary numbers having more than or equal 1's than 0's - C C++ Java Python
• Given a set of positive integers, find all its subsets – C C++ Java Python
• Given a string s, remove all its adjacent duplicate characters recursively – C C++ Java Python





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

- TCS NOT Sint years
- Replace each element of the array by its rank in the array: C | C++ | Java | Pytho
- 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

• Check whether a character is a vower of consoliding.	Python
Check whether a character is a alphabet or not: C	Python
Find the ASCII value of a character: C C++ Java Python	
• Length of the string without using strlen() function: C C++ Java	Python
Toggle each character in a string: C C++ Java Python	
Count the number of vowels: C C++ Java Python	
• Remove the vowels from a String: C C++ Java Python	
Check if the given string is Palindrome or not: C C++ Java	Python
• Print the given string in reverse order: C C++ Java Python	
• Remove all characters from string except alphabets : C C++ Java	Python
• Remove spaces from a string: C C++ Java Python	
• Remove brackets from an algebraic expression : C C++ Java	Python
• Count the sum of numbers in a string: C C++ Java Python	



- Check if two strings are Anagram or not: C | C++ | Java | Python
- Replace a sub-string in a string: C | C++ | Java | Python
- Replacing a particular word with another word in a string C | C++ | Java | Python
- Count common sub-sequence in two strings: C | C++ | Java | Python
- Check if two strings match where one string contains wildcard characters: C | C++ | Java | Python
- 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 - C 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 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

TCS NOT Services

- Three way partitioning of an array around a given value C | C++ | Java | Pytho
- 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 | Pythor
- Median of 2 sorted arrays of different size C | C++ | Java | Python

Codes related to Matrix

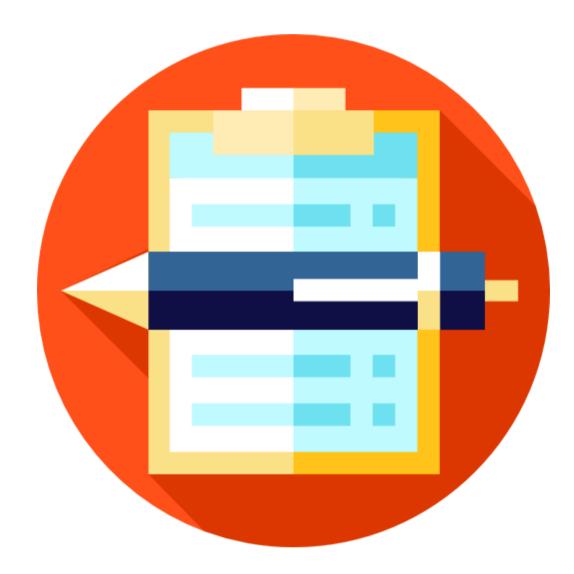
- Spiral traversal on a Matrix C | C++ | Java | Python
 Search an element in a matrix C | C++ | Java | Python
- Find median in a row wise sorted matrix C | C++ | Java | Python
- Find row with maximum no. of 1's C | C++ | Java | Python
- Print elements in sorted order using row-column wise sorted matrix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



2 =

3 =

Pattern Printing



```
****

***

****

****
```

Square Star Pattern

Difficulty - ★

Checkout code for this program -

```
****

* *

****
```



Checkout code for this program -

• C | Java | Python

```
****

****

****
```

Rhombus Star Pattern

Difficulty – ★★

Checkout code for this program -

• C | Java | Python

```
*****

*****

*****
```

Rectangle Star Pattern

Difficulty - ★

Checkout code for this program -

• C | Java | Python

```
*****

* *

*****
```

Hollow Rectangle Star Pattern

Difficulty – ★ and 1/2

Checkout code for this program -

• C | Java | Python

```
******

*****

******
```

Parallelogram Star Pattern

Difficulty - ★★

Checkout code for this program -



Mirrored Rhombus Star Pattern

Difficulty – $\star\star$ and 1/2

Checkout code for this program -

• C | Java | Python

```
*

**

**

**

***
```

Triangle Star Pattern

Difficulty - ★ and 1/2

• C | Java | Python

```
*

**

***

****

*****
```

Pyramid Star Pattern

Difficulty – ★★

• C | Java | Python

```
*

*

*

*

*

*

*

*

*******
```

Hollow Pyramid Star Pattern

Difficulty – ★★

• C | Java | Python

```
*****

****

***

***
```

Inverted Pyramid Star Pattern

Difficulty - ★★



Inverted Hollow Pyramid Star Pattern

Difficulty – $\star\star$ and 1/2

• C | Java | Python

```
*

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```

Half Diamond Star Pattern

• C | Java | Python

```
*

**

**

***

***

**

**

**

**
```

Half Diamond Star Pattern Inverted

• C | Java | Python

Diamond Star Pattern



1111 1111 1111 1111

Basic Square 1 Pattern

Checkout code for this program -

• C | Java | Python

1111 2222 3333 4444

Basic Square incrementing Pattern

Checkout code for this program -

• C | Java | Python

333 313 323 333

Internal varsity square Pattern

Checkout code for this program -

• C | Java | Python

1 23 456 78910

Basic Right Triangle Number Pattern

Checkout code for this program -

• C | Java | Python

10987 456 32 1

Basic Right Triangle Number Pattern (Inverted)

Checkout code for this program -



3

Basic incrementing Triangle Pattern initialised = 3

Checkout code for this program -

• C | Java | Python

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

Basic incrementing Diamond Pattern(Inverted) initialised = 3

Checkout code for this program -

• C | Java | Python

3 45 678 9101112 678 45

Basic double incrementing Triangle Pattern initialised = 3

Checkout code for this program -



1211109 876 54 3

Basic incrementing Triangle Pattern(Inverted) initialised Mirrored = 3

Checkout code for this program -

• C | Java | Python

```
2
33
444
5555
5555
444
33
2
```

Basic incrementing Diamond Pattern(Inverted Sandwich) initialised = 3

Checkout code for this program -

• C | Java | Python

```
2
34
567
891011
891011
567
34
```

Basic double incrementing Triangle Pattern initialised Sandwich= 3

Checkout code for this program -

• C | Java | Python

```
2
43
765
1110198
1110198
765
43
```

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

Checkout code for this program -



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

C | Java | Python

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

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

Type 2

Checkout code for this program

C | Java | Python

```
1*2*3*4
9*10*11*12
17*18*19*20
13*14*15*16
5*6*7*8
```

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

Type 3

Checkout code for this program



12*11*10*9 8*7*6*5 16*15*14*13

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

Checkout code for this program

C | Java | Python

1 2*3 4*5*6 7*8*9*10

Basic incrementing Triangle Pattern

Checkout code for this program

C | Java | Python

7*8*9*10 4*5*6 2*3

Basic incrementing Triangle Pattern

Checkout code for this program

C | Java | Python

1 4*5*6 2*3 7*8*9*10

Basic incrementing Triangle Pattern + Inverted (Mix)

Checkout code for this program

C | Java | Python

1 3*2 6*5*4 10*9*8*7

Basic incrementing mirrored Triangle Pattern

Checkout code for this program



1

Basic incrementing inverted mirrored Triangle Pattern

Checkout code for this program

```
C | Java | Python
```

```
1
4*5*6
2*3
7*8*9*10
```

Basic incrementing Triangle Pattern + Inverted (Mix)

Checkout code for this program

```
| Python
Java
```

```
1
2*2
3*3*3
4*4*4*4
3*3*3
2*2
```

Basic Diamond Number Star Pattern

Checkout code for this program

```
C | Java | Python
```

```
1
2*2
3*3*3
4*4*4*4
4*4*4*4
3*3*3
2*2
```

Basic Diamond Number Star Pattern (Sandwich)

Checkout code for this program

```
C | Java | Python
```

```
4*4*4*4
3*3*3
2*2
2*2
3*3*3
4*4*4*4
```

Basic Diamond Number Star Pattern (Sandwich Inverted)



```
2
3*3
4*4*4
3*3
2
```

Basic Diamond Number Star Pattern initialised

Checkout code for this program

```
C | Java | Python
```

```
2
3*3
4*4*4
4*4*4
3*3
```

Basic Diamond Number Star Pattern (Sandwich)

Checkout code for this program

```
C | Java | Python
```

```
6*6*6*6

5*5*5

4*4

3

3

4*4

5*5*5

6*6*6*6
```

Basic Diamond Number Star Pattern (Sandwich 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



 \bigcirc^{0} Log in to Reply

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

Contract Log in to Reply

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

Cost Log in to Reply

Prepinsta Support Hey there,

Thanks for your feedback, it means alot.

Contract Log in to 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

C Log in to Reply

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

C Log in to Reply

AISHIKA Will these questions be enough to crack service base companies?

Complete Log in to Reply

Prepinsta Support Hi Aishika,

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

C Log in to Reply

Mokara Yes

Cost Log in to Reply

PrepInsta Support ♥♥

Contract Log in to Reply

AISHIKA Will these questions be enough to crack product base companies?

Comparison Log in to Reply

PrepInsta Support Hi Aishika,

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

Log in to Reply

Suman Dolai hii can i ask few questions

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C Log in to Reply

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

Cos Log in to Reply

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

C Log in to Reply

Ramya Civil war 1 code

Capture Log in to 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.

 \bigcirc^{0} Log in to 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.

Cos in to Reply

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

0

Preplnsta Support We are glad to see that ♥

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