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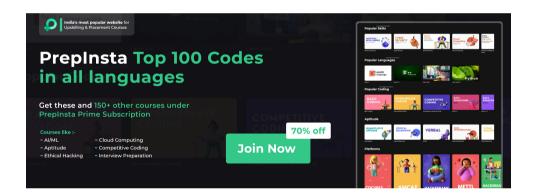
Top 100 Codes



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

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 | Pythor

• 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

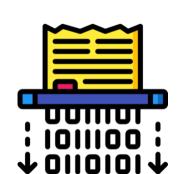
• Prime number: C | C++ | Java | Python

• 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





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Armstrong number in a given range : C

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• Fibonacci Series upto nth term: Java

• Find the Nth Term of the Fibonacci Series: C

Python

• Factorial of a number : C C++ Java

• Power of a number : C C++ Java

Factor of a number : C C++ Java

• Finding Prime Factors of a number : C | C++

• Strong number: C | C++ Java Python

• Perfect number : C C++ Java Python

Perfect Square : Java **Python**

Automorphic number :

• Harshad number: C C++ Java **Python**

• Abundant number : C C++ Java Python

• Friendly pair: C C++ Java





Working with Numbers

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

 Lowest Common Multiple (LCM): C++ Java

• Greatest Common Divisor: C C++ Java

• Binary to Decimal to conversion : C

• Octal to Decimal conversion: C | C++ | Java | Python

Hexadecimal to Decimal conversion: C | C++ | Java | Python

• Decimal to Binary conversion: C Java **Python**

 Decimal to Octal Conversion: **Python**

• Decimal to Hexadecimal Conversion: C C++ Java | Python

Python • Binary to Octal conversion: C | C++ Java

• Octal to Binary conversion: C C++ Java

Quadrants in which a given coordinate lies :

Python

• Permutations in which n people can occupy r seats in a classroom :

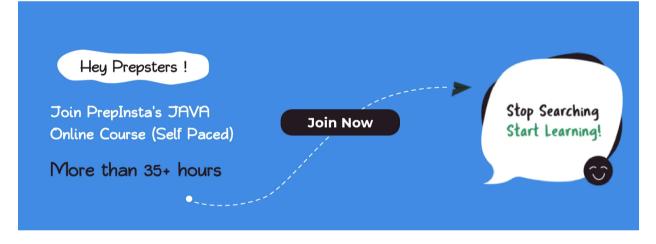
C++ | Java | Python

Maximum number of handshakes: C | C++ |

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•	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
•	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



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•	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++

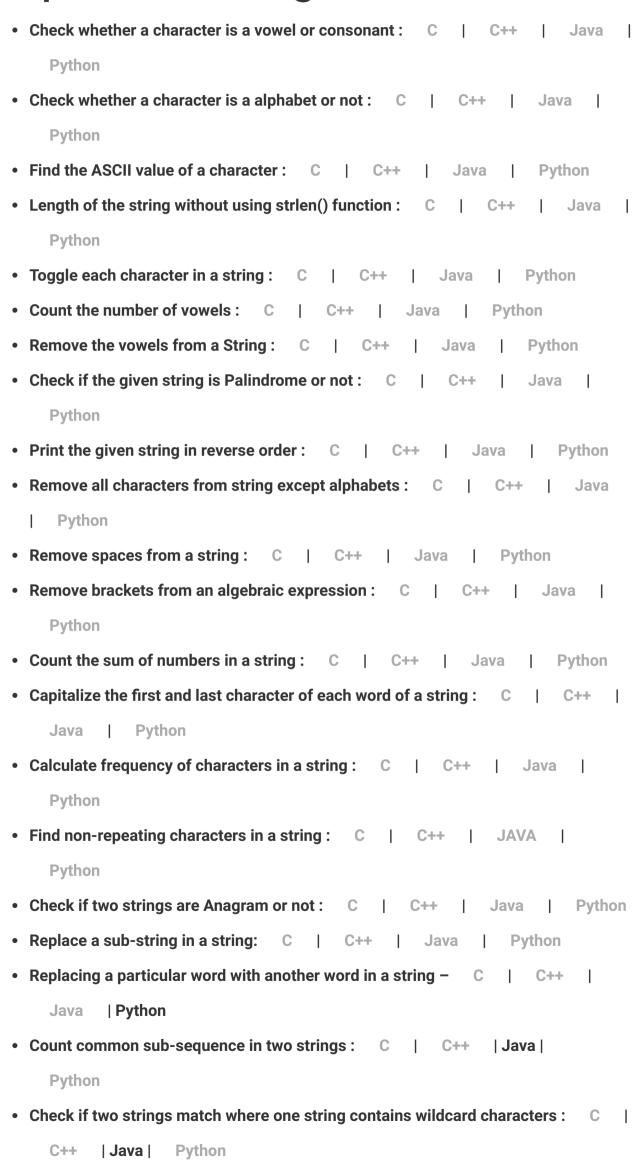
80% off on Preplnsta Prime Subscription [Offer Expires Today] **Check PRIME** • Finding the frequency of elements in an array: C | C++ | Python • Sorting elements of an array by frequency: C | C++ | Python • Finding the Longest Palindrome in an Array: C | C++ Python • Counting Distinct Elements in an Array: C C++ Java • Finding Repeating elements in an Array: C C++ • Finding Non Repeating elements in an Array: C | C++ Python • Removing Duplicate elements from an array: C | C++ Python • Finding Minimum scalar product of two vectors : C | C++ 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 | Java Python • Find all Symmetric pairs in an array: C | C++ | Java • Find maximum product sub-array in a given array : C | C++ Python • Finding Arrays are disjoint or not : C | C++ | Java Determine Array is a subset of another array or not : C 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++ • 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++ Python

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• Balanced Parenthesis Problem : C | C++ |

Java

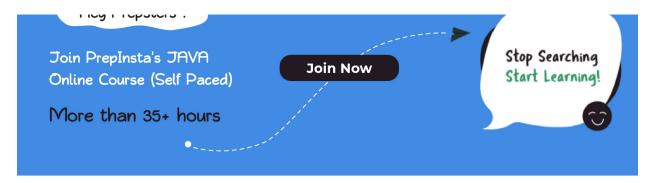
Operations on Strings





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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				

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Python

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•	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

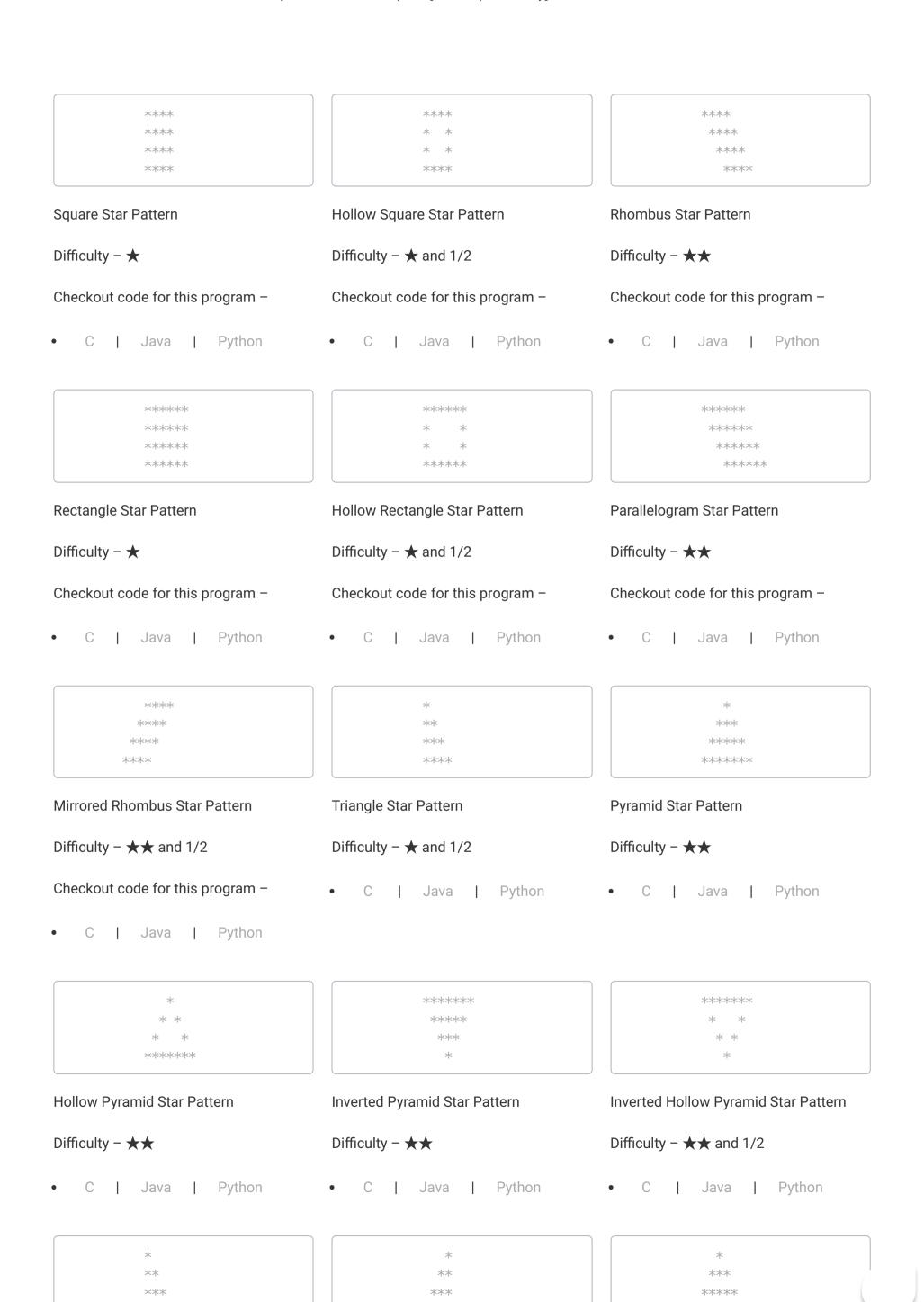
,	Spiral traversal on a Matrix - C C++ Java Python
,	Search an element in a matrix - C C++ Java Python
,	Find median in a row wise sorted matrix - C C++ Java Python
,	Find row with maximum no. of 1's - C C++ Java Python
,	Print elements in sorted order using row-column wise sorted matrix - C C++
	Java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

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Half Diamond Star Pattern

• C | Java | Python

Half Diamond Star Pattern Inverted

C | Java | Python

Diamond Star Pattern

C | Java | Python

Number Pattern Printing Programs

1111	
1111	
1111	
1111	

333
333
313
323
333

Basic Square 1 Pattern

Checkout code for this program -

C | Java | Python

Basic Square incrementing Pattern

Checkout code for this program -

• C | Java | Python

Internal varsity square Pattern

Checkout code for this program -

• C | Java |

Python

1 23 456 78910

10987 456 32 1 6666 555 44 3

Basic Right Triangle Number Pattern

Checkout code for this program -

• C | Java | Python

Basic Right Triangle Number Pattern (Inverted)

Checkout code for this program -

C | Java | Python

4 5

6 7 8

9 10 11 12

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 –

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

C | Java | Python • C | Java | Python

3 44 555 6666 555 44 3

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

3 54 876 1211109 876 54

Basic incrementing Triangle
Pattern(Inverted) initialised Mirrored = 3

2 33 444 5555 5555 444 33

Basic incrementing Diamond

Pattern(Inverted Sandwich) initialised =

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Check PRIME

| Python Java

| Python Java

Checkout code for this program -

C | Java | Python

2 34 567 891011 891011 567 34

2 43 765 1110198 1110198 765 43

Basic double incrementing Triangle Pattern initialised Sandwich= 3

Pattern(Inverted) initialised Mirrored Sandwich = 3

Basic incrementing Triangle

Checkout code for this program -

Checkout code for this program -

| Python Java

> | Java | Python C

Number Star Mix Pattern

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

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

Checkout code for this program

Java

Checkout code for this program

| Python Java

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

Checkout code for this program

| Python C Java

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

| Python

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

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

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

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

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

11/13

Type 2

Checkout code for this program

Java | Python Checkout code for this program

Java | Python

Checkout code for this program

Java | Python

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Type 3

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 4*5*6
 2*3

 7*8*9*10
 1

 7*8*9*10
 7*8*9*10

Basic incrementing Triangle Pattern

Checkout code for this program

C | Java | Python

Basic incrementing Triangle Pattern

Checkout code for this program

C | Java | Python

Basic incrementing Triangle Pattern + Inverted (Mix)

Checkout code for this program

C | Java | Python

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

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

Basic incrementing mirrored Triangle
Pattern

Checkout code for this program

C | Java | Python

Basic incrementing inverted mirrored Triangle Pattern

Checkout code for this program

C | Java | Python

Basic incrementing Triangle Pattern + Inverted (Mix)

Checkout code for this program

C | Java | Python

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

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

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

Basic Diamond Number Star Pattern

Checkout code for this program

C | Java | Python

Basic Diamond Number Star Pattern (Sandwich)

Checkout code for this program

C | Java | Python

Basic Diamond Number Star Pattern (Sandwich Inverted)

Checkout code for this program

C | Java | Python

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

Drogram for Palindromic Dyramid Dattern = | lava

Conditions

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• 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

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Ramya Civil war 1 code

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