**TOP INTERVIEW CODING PROBLEMS & CHALLENGES**

* [**Run-length encoding (find/print frequency of letters in a string)**](https://www.includehelp.com/icp/run-length-encoding-print-frequency-of-letters-in-a-string.aspx)
* [**Sort an array of 0's, 1's and 2's in linear time complexity**](https://www.includehelp.com/icp/sort-an-array-of-0s-1s-and-2s-in-linear-time-complexity.aspx)
* [**Checking Anagrams (check whether two string is anagrams or not)**](https://www.includehelp.com/icp/check-whether-two-string-is-anagrams-or-not.aspx)
* [**Relative sorting algorithm**](https://www.includehelp.com/icp/relative-sorting.aspx)
* [**Finding subarray with given sum**](https://www.includehelp.com/icp/finding-subarray-with-given-sum.aspx)
* [**Find the level in a binary tree with given sum K**](https://www.includehelp.com/icp/find-the-level-in-a-binary-tree-with-given-sum-k.aspx)
* [**Check whether a Binary Tree is BST (Binary Search Tree) or not**](https://www.includehelp.com/icp/check-whether-a-binary-tree-is-bst-binary-search-tree-or-not.aspx)
* [**1[0]1 Pattern Count**](https://www.includehelp.com/icp/101-pattern-count.aspx)
* [**Capitalize first and last letter of each word in a line**](https://www.includehelp.com/icp/capitalize-first-and-last-letter-of-each-word-in-a-line.aspx)
* [**Print vertical sum of a binary tree**](https://www.includehelp.com/icp/print-vertical-sum-of-a-binary-tree.aspx)
* [**Print Boundary Sum of a Binary Tree**](https://www.includehelp.com/icp/print-boundary-sum-of-a-binary-tree.aspx)
* [**Reverse a single linked list**](https://www.includehelp.com/icp/reverse-a-single-linked-list.aspx)
* [**Greedy Strategy to solve major algorithm problems**](https://www.includehelp.com/icp/greedy-strategy-to-solve-major-algorithm-problems.aspx)
* [**Job sequencing problem**](https://www.includehelp.com/icp/job-sequencing-problem.aspx)
* [**Root to leaf Path Sum**](https://www.includehelp.com/icp/root-to-leaf-path-sum.aspx)
* [**Exit Point in a Matrix**](https://www.includehelp.com/icp/exit-point-in-a-matrix.aspx)
* [**Find length of loop in a linked list**](https://www.includehelp.com/icp/find-length-of-loop-in-a-linked-list.aspx)
* [**Toppers of Class**](https://www.includehelp.com/icp/toppers-of-class.aspx)
* [**Print All Nodes that don't have Sibling**](https://www.includehelp.com/icp/print-all-nodes-that-dont-have-sibling.aspx)
* [**Transform to Sum Tree**](https://www.includehelp.com/icp/transform-to-sum-tree.aspx)
* [**Shortest Source to Destination Path**](https://www.includehelp.com/icp/shortest-source-to-destination-path.aspx)

## list of the latest update c programs

* [C program to find second smallest element in a one dimensional array.](https://www.includehelp.com/c-programs/find-second-smallest-element-in-a-one-dimensional-array.aspx) - *December 05, 2018*
* [C program to find two largest elements in a one dimensional array.](https://www.includehelp.com/c-programs/find-two-largest-elements-in-a-one-dimensional-array.aspx) - *December 05, 2018*
* [C program to find second largest elements in a one dimensional array.](https://www.includehelp.com/c-programs/find-second-largest-elements-in-a-one-dimensional-array.aspx) - *December 04, 2018*
* [C program to create a new array from a given array with the elements divisible by a specific number.](https://www.includehelp.com/c-programs/create-a-new-array-from-a-given-array-with-the-elements-divisible-by-a-specific-number.aspx) - *December 04, 2018*
* [C program to count total number of elements divisible by a specific number in an array.](https://www.includehelp.com/c-programs/count-total-number-of-elements-divisible-by-a-specific-number-in-an-array.aspx) - *December 04, 2018*
* [Define a Macro to round a float value to nearest integer in C.](https://www.includehelp.com/c-programs/define-a-macro-to-round-a-float-value-to-nearest-integer-in-c.aspx) - *November 26, 2018*
* [Modify value stored in other variable using pointer in C.](https://www.includehelp.com/c-programs/modify-value-stored-in-other-variable-using-pointer-in-c.aspx) - *November 14, 2018*
* [Making a valid pointer as NULL pointer in C.](https://www.includehelp.com/c-programs/making-a-valid-pointer-as-null-pointer-in-c.aspx) - *November 14, 2018*
* [An Example of Null pointer in C.](https://www.includehelp.com/c-programs/an-example-of-null-pointer-in-c.aspx) - *November 14, 2018*
* [Creating string buffer (character pointer), allocating memory at run time in C.](https://www.includehelp.com/c-programs/creating-string-buffer-character-pointer-allocating-memory-at-run-time-in-c.aspx) - *September 26, 2018*
* [C program to solve Polynomial and Differential Equations.](https://www.includehelp.com/c-programs/polynomial-and-differential-equations.aspx) - *July 31, 2018*
* [C program to demonstrate zombie process.](https://www.includehelp.com/c-programs/zombie-process.aspx) - *July 26, 2018*
* [C program to demonstrate orphan process.](https://www.includehelp.com/c-programs/orphan-process.aspx) - *July 26, 2018*
* [Check EVEN or ODD using Macro in C language.](https://www.includehelp.com/c-programs/check-even-or-odd-using-macro.aspx) - *May 22, 2018*
* [C program to read enter key, How to identify ENTER KEY is pressed in c programming language?](https://www.includehelp.com/code-snippets/how-to-identify-enter-key-is-pressed-in-c-programming-language.aspx) - *May 05, 2018*
* [‘unsigned char’ - Declaration, Assign and Usage in C programming.](https://www.includehelp.com/code-snippets/unsigned-char-declaration-read-and-print-in-c-language.aspx) - *May 05, 2018*
* [va\_start() and va\_end() functions of stdarg.h in C.](https://www.includehelp.com/c-programs/va_start-and-va_end-functions-of-stdarg-h-in-c.aspx) - *April 20, 2018*
* [longjmp() function of setjmp.h in C.](https://www.includehelp.com/c-programs/longjmp-function-of-setjmp-h-in-c.aspx) - *April 20, 2018*
* [localeconv() function of locale.h in C.](https://www.includehelp.com/c-programs/localeconv-function-of-locale-h-in-c.aspx) - *April 20, 2018*
* [C program to create dynamic memory for integer, character and float.](https://www.includehelp.com/c-programs/create-dynamic-memory-for-integer-character-and-float.aspx) - *April 14, 2018*
* [C program to swap first element with last, second to second last and so on (reversing elements).](https://www.includehelp.com/c-programs/swap-first-element-with-last-second-to-second-last-and-so-on.aspx) - *April 14, 2018*
* [C program to find nearest lesser and greater element in an array.](https://www.includehelp.com/c-programs/find-nearest-lesser-and-greater-element-in-an-array.aspx) - *April 14, 2018*
* [C program to merge two arrays in third array which is creating dynamically.](https://www.includehelp.com/c-programs/merge-two-arrays-in-third-array-which-is-creating-dynamically.aspx) - *April 14, 2018*
* [C program to calculate median of an array.](https://www.includehelp.com/c-programs/calculate-median-of-an-array.aspx) - *April 13, 2018*
* [C program to read time in string format and extract hours, minutes and second also check time validity.](https://www.includehelp.com/c-programs/read-time-in-string-format-and-extract-hours-minutes-and-second-also-check-time-validity.aspx) - *April 10, 2018*
* [C program to swap adjacent characters of a string.](https://www.includehelp.com/c-programs/swap-adjacent-characters-of-a-string.aspx) - *April 05, 2018*
* [C program to eliminate all vowels from a string.](https://www.includehelp.com/c-programs/eliminate-all-vowels-from-a-string.aspx) - *April 05, 2018*
* [C program to remove alphabets from an alphanumeric string.](https://www.includehelp.com/c-programs/remove-alphabets-from-an-alphanumeric-string.aspx) - *April 05, 2018*
* [C program to convert a string to sentence case.](https://www.includehelp.com/c-programs/convert-a-string-to-sentence-case.aspx) - *April 05, 2018*
* [C program to remove all spaces from a given string.](https://www.includehelp.com/c-programs/remove-all-spaces-from-a-given-string.aspx) - *April 05, 2018*
* [C program to check given number is divisible by A and B.](https://www.includehelp.com/c-programs/number-is-divisible-by-a-and-b.aspx) - *March 27, 2018*
* [In this C program, we will read name and marital status of a girl and print her name Miss or Mrs based on given marital status.](https://www.includehelp.com/c-programs/read-name-and-marital-status-of-a-girl-and-print-her-name-with-miss-or-mrs.aspx) - *March 27, 2018*
* [C program to swap two string using user define function.](https://www.includehelp.com/c-programs/swap-two-string-using-user-define-function.aspx) - *March 26, 2018*
* [C program to pass an array of structures to a user define function.](https://www.includehelp.com/c-programs/pass-an-array-of-structures-structure-to-a-user-define-function.aspx) - *March 22, 2018*
* [C program to pass a structure to a user define function.](https://www.includehelp.com/c-programs/pass-a-structure-to-a-user-define-function.aspx) - *March 22, 2018*
* [C program to pass two dimensional array (Two-D array) to a function.](https://www.includehelp.com/c-programs/pass-two-dimensional-array-to-a-function.aspx) - *March 22, 2018*
* [C program to pass function as an argument to a function.](https://www.includehelp.com/c-programs/pass-function-as-an-argument-to-a-function.aspx) - *March 22, 2018*
* [C program to pass multiple type of arguments to a function.](https://www.includehelp.com/c-programs/pass-multiple-type-of-arguments-to-a-function.aspx) - *March 22, 2018*
* [C program to pass an array of strings to a function.](https://www.includehelp.com/c-programs/pass-an-array-of-strings-to-a-function.aspx) - *March 20, 2018*
* [C program to pass a string to a function.](https://www.includehelp.com/c-programs/pass-a-string-to-a-function.aspx) - *March 20, 2018*
* [C program to swap elements of two integer arrays using user define function.](https://www.includehelp.com/c-programs/swap-elements-of-two-integer-arrays-using-function.aspx) - *March 20, 2018*
* [C program to find sum of the array elements (pass an integer array to a function and return the sum).](https://www.includehelp.com/c-programs/find-sum-of-array-elements-to-pass-an-integer-array-to-a-function-and-return-sum.aspx) - *March 20, 2018*
* [C program to pass a one dimensional (1D) array to a function.](https://www.includehelp.com/c-programs/pass-a-one-dimensional-array-to-a-function.aspx) - *March 20, 2018*
* [C program for sin(x) series.](https://www.includehelp.com/c-programs/sinx-series.aspx) - *March 19, 2018*
* [C program to find the sum of series 1^2/1! + 2^2/2! + 3^2/3! + 4^2/4! + ... n^2/n!.](https://www.includehelp.com/c-programs/sum-of-series-7.aspx) - *March 18, 2018*
* [C program to find the sum of series 1.2/3 + 2.3/4 + 3.4/5 + 4.5/6 + ... + n(n +1)/(n+2).](https://www.includehelp.com/c-programs/sum-of-series-6.aspx) - *March 18, 2018*
* [C program to find the sum of series x + x/2! + x/4! + ... + x/n!.](https://www.includehelp.com/c-programs/sum-of-series-5.aspx) - *March 18, 2018*
* [C program to copy one string to another and count copied characters.](https://www.includehelp.com/c-programs/copy-one-string-to-another-and-count-copied-characters.aspx) - *March 14, 2018*
* [C program to create array with reverse elements of one dimensional array.](https://www.includehelp.com/c-programs/c-one-dimensional-array-create-array-with-reverse-elements-of-other-array.aspx) - *March 10, 2018*
* [C program to delete prime numbers from an array.](https://www.includehelp.com/c-programs/delete-prime-numbers-from-an-array.aspx) - *March 09, 2018*
* [C program to check prime numbers in an array.](https://www.includehelp.com/c-programs/check-prime-numbers-in-an-array.aspx) - *March 09, 2018*
* [Solution of Warning implicit declaration of function 'getpid' in C.](https://www.includehelp.com/c-programming-questions/warning-implicit-declaration-of-function-getpid.aspx) - *March 08, 2018*
* [C program to print program’s name.](https://www.includehelp.com/c-programs/print-programs-name.aspx) - *March 07, 2018*
* [How to save C program's Output in a file in Linux?](https://www.includehelp.com/c-programming-questions/save-program-output-in-file-linux.aspx) - *March 07, 2018*
* [Compiling C program with pthread.h library in Linux.](https://www.includehelp.com/c-programming-questions/compiling-program-with-pthread-library-linux.aspx) - *March 06, 2018*
* [C program to read the yearly salary of an employee and find tax based on the given conditions.](https://www.includehelp.com/c-programs/read-the-yearly-salary-of-an-employee-and-find-tax-based-on-the-given-conditions.aspx) - *March 06, 2018*
* [C program to calculate the sum of the series 1^3 -2^3 + 3^3 - 4^3 + ... N^3.](https://www.includehelp.com/c-programs/sum-of-series-4.aspx) - *March 06, 2018*
* [How to initialize array elements with hexadecimal values in C?](https://www.includehelp.com/tips/c/how-to-initialize-array-elements-with-hexadecimal-values-in-c.aspx) - *March 05, 2018*
* [C program to calculate the sum of series 1 +1/x^1 + 1/x^2 + 1/x^3 ... + 1/x^n terms.](https://www.includehelp.com/c-programs/sum-of-series-3.aspx) - *March 04, 2018*
* [C program to calculate sum of the series 1+11+111+1111+... N terms.](https://www.includehelp.com/c-programs/calculate-sum-of-the-series-1-11-111-1111-n-terms.aspx) - *March 04, 2018*
* [C program to print diamond pattern.](https://www.includehelp.com/c-programs/print-diamond-pattern.aspx) - *March 02, 2018*
* [C program to find multiplication of two matrices.](https://www.includehelp.com/c-programs/c-program-to-multiply-two-matrices.aspx) - *February 28, 2018*
* [C programs to display Pattern according to number of rows (3).](https://www.includehelp.com/c-programs/display-Pattern-according-to-number-of-rows-3.aspx) - *February 27, 2018*
* [C programs to display Pattern according to number of rows (2).](https://www.includehelp.com/c-programs/display-Pattern-according-to-number-of-rows-2.aspx) - *February 27, 2018*
* [C Example to subtract two integers without using Minus (-) operator.](https://www.includehelp.com/c-programs/subtract-two-integers-without-using-minus-operator.aspx) - *February 25, 2018*
* [C Example to use 'kbhit' function.](https://www.includehelp.com/c-programs/kbhit-function.aspx) - *February 25, 2018*
* [C Example for different floating point values prediction.](https://www.includehelp.com/c-programs/different-floating-point-values-prediction.aspx) - *February 25, 2018*
* [C Example for nested 'printf'.](https://www.includehelp.com/c-programs/nested-printf.aspx) - *February 25, 2018*
* [C programs to display Pattern according to number of rows.](https://www.includehelp.com/c-programs/display-Pattern-according-to-number-of-rows.aspx) - *February 18, 2018*
* [C program to print 'Rhombus' pattern.](https://www.includehelp.com/c-programs/rhombus-pattern.aspx) - *February 16, 2018*
* [C program for printing 'Square' pattern.](https://www.includehelp.com/c-programs/square-pattern.aspx) - *February 16, 2018*
* [C program for 'Reverse Full Pyramid' Pattern.](https://www.includehelp.com/c-programs/reverse-full-pyramid-pattern.aspx) - *February 16, 2018*
* [C program for 'Reverse Half Pyramid' Pattern.](https://www.includehelp.com/c-programs/reverse-half-pyramid-pattern.aspx) - *February 16, 2018*
* [C program for 'Hollow Square' Pattern.](https://www.includehelp.com/c-programs/hollow-square-pattern.aspx) - *February 16, 2018*
* [C program for printing 'Rectangle' Pattern.](https://www.includehelp.com/c-programs/rectangle-pattern.aspx) - *February 16, 2018*
* [C program for ‘Hollow Rectangle’ Pattern](https://www.includehelp.com/c-programs/hollow-rectangle-pattern.aspx) - *February 14, 2018*
* [C program for 'Full Pyramid' Pattern.](https://www.includehelp.com/c-programs/full-pyramid-pattern.aspx) - *February 14, 2018*
* [C program for ‘Half Pyramid’ Pattern.](https://www.includehelp.com/c-programs/half-pyramid-pattern.aspx) - *February 14, 2018*
* [C program to merge two sorted arrays.](https://www.includehelp.com/ds/merge-two-sorted-array-in-a-sorted-array.aspx) - *January 18, 2018*
* [C program for radix sort.](https://www.includehelp.com/ds/radix-sort-why-it-is-called-non-comparative-integer-sorting.aspx) - *January 18, 2018*
* [C program for heap sort.](https://www.includehelp.com/ds/what-is-heap-sort-and-how-it-works.aspx) - *January 18, 2018*
* [Program for insertion and deletion in heap.](https://www.includehelp.com/ds/program-for-insertion-and-deletion-in-heap.aspx) - *January 03, 2018*
* [Insertion in AVL Tree using C program.](https://www.includehelp.com/ds/insertion-in-avl-tree-using-c-program.aspx) - *January 01, 2018*
* [Insertion, Deletion and Traversal in Binary Search Tree.](https://www.includehelp.com/ds/insertion-deletion-and-traversal-in-binary-search-tree.aspx) - *December 24, 2017*
* [C program to implement priority queue.](https://www.includehelp.com/ds/implementation-of-priority-queue-using-linked-list.aspx) - *December 21, 2017*
* [C program to implement double stack.](https://www.includehelp.com/ds/how-to-create-a-double-stack.aspx) - *December 21, 2017*
* [C program to implement circular queue using array.](https://www.includehelp.com/ds/circular-queue-using-array.aspx) - *December 21, 2017*
* [Reverse a string using stack.](https://www.includehelp.com/ds/reverse-a-string-using-stack.aspx) - *December 19, 2017*
* [Implementation of Deque using Array.](https://www.includehelp.com/ds/implementation-of-deque-using-array.aspx) - *December 19, 2017*
* [Sparse matrix for 3-tuple method using Array.](https://www.includehelp.com/ds/sparse-matrix-for-3-tuple-method-using-array.aspx) - *December 19, 2017*
* [C program to print ASCII values of all digits using goto statement.](https://www.includehelp.com/c-programs/print-ascii-values-of-all-digits-using-goto-statement.aspx) - *November 19, 2017*
* [C program to print ASCII values of all lowercase alphabets using goto statement.](https://www.includehelp.com/c-programs/print-ascii-values-of-all-lowercase-alphabets-using-goto-statement.aspx) - *November 19, 2017*
* [C program to print ASCII values of all uppercase alphabets using goto statement.](https://www.includehelp.com/c-programs/print-ascii-values-of-all-uppercase-alphabets-using-goto-statement.aspx) - *November 19, 2017*
* [C program to print 1, 11, 31, 61, ... 10 times using goto statement.](https://www.includehelp.com/c-programs/print-1-11-31-61-10-times-using-goto-statement.aspx) - *November 09, 2017*
* [C program to print square and cube of all numbers from 1 to N using goto statement.](https://www.includehelp.com/c-programs/print-square-and-cube-of-all-numbers-from-1-to-N-using-goto-statement.aspx) - *November 09, 2017*
* [C program to read a name and print its 10 times using goto statement.](https://www.includehelp.com/c-programs/read-a-name-and-print-its-10-times-using-goto.aspx) - *November 07, 2017*
* [C program to print table of a given number using goto statement.](https://www.includehelp.com/c-programs/print-table-of-given-number-using-goto.aspx) - *November 07, 2017*
* [C program to print table of 2 using goto statement.](https://www.includehelp.com/c-programs/print-table-of-2-using-goto.aspx) - *November 07, 2017*
* [C program to print all numbers from N to 1 using goto statement.](https://www.includehelp.com/c-programs/print-all-numbers-from-n-to-1-using-goto.aspx) - *November 07, 2017*
* [C program to print all numbers from 1 to N using goto statement.](https://www.includehelp.com/c-programs/print-all-numbers-from-1-to-n-using-goto.aspx) - *November 07, 2017*
* [C program to print ASCII value of a character.](https://www.includehelp.com/c-programs/print-ascii-value-of-a-character.aspx) - *November 07, 2017*
* [C program to find subtraction of two integer number.](https://www.includehelp.com/c-programs/find-subtraction-of-two-integer-number.aspx) - *November 07, 2017*
* [C program to read n strings and print each string's length.](https://www.includehelp.com/c-programs/read-n-strings-and-print-each-string-length.aspx) - *October 24, 2017*
* [Convert String to Integer in C programming language.](https://www.includehelp.com/code-snippets/convert-string-to-integer-in-c-programming.aspx) - *May 27, 201*

*Answers in https://www.includehelp.com/latest-c-programs.aspx*