THIS BOOK CONSISTS OF AS MORE AS POSSIBLE C-PROGRAMS THAT ARE CONTAINING ALL BASICS AND THOSE ARE REQUIRED FOR INTERVIEW THIS MIGHT BE HELPFUL IN MANY WAYS TO CRACK CODING TEST OR TECHNICAL ROUND INTERVIEW . ~K V S NAIDU

THIS DOCUMENT CONTAINS AS FOLLOWS

- ## Frequently asked c programs in interview

1. Write a c program to check given number is perfect number or not.
2. Write a c program to check given number is Armstrong number or not.
3. Write a c program to check given number is prime number or not.
4. Write a c program to check given number is strong number or not.
5. C program to check a number is odd or even.
6. Write a c program to check given number is palindrome number or not.
8. Write a c program to check given string is palindrome number or not.
7. Write a c program to solve quadratic equation.
8. Write a c program to print Fibonacci series of given range.
9. Write a c program to get factorial of given number.
10. Write a c program for Floyd's triangle.
11. Write a c program to print Pascal triangle.
12. Write a c program to generate multiplication table.
13. Write a c program to print ASCII value of all characters.
14. C program to print hello world without using semicolon
15. Write a c program which produces its own source code as its output

C program with numbers

1. Write a c program to reverse any number.
2. Write a c program to find out sum of digit of given number.
3. Write a c program to find out power of number.
4. Write a c program to add two numbers without using addition operator.
5. Write a c program to subtract two numbers without using subtraction operator.
6. Write a c program to find largest among three numbers using binary minus operator.
 7. Write a c program to find largest among three numbers using conditional operator
8. Write a c program to find out generic root of any number.
9. Write a c program to find out prime factor of given number.
10. Write a c program to find out NCR factor of given number.
11. How to convert string to int without using library functions in c
12. Program in c to print 1 to 100 without using loop
13. C program for swapping of two numbers
14. Program to find largest of n numbers in c
15. Split number into digits in c programming
16. C program to count number of digits in a number

Recursion

Example of recursion in c programming

L.C.M and H.C.F.

1. Write a c program to find out L.C.M. of two numbers.
2. Write a c program to find out H.C.F. of two numbers.

3. Write a c program to find out G.C.D. of two numbers.

Swapping

1. Write a c program to swap two numbers.
2. Write a c program to swap two numbers without using third variable.
3. Write a c program for swapping of two arrays.
4. Write a c program for swapping of two string.

Conversion (Number System)

1. Write a c program to convert decimal number to binary number.
2. Write a c program to convert decimal number to octal number.
3. Write a c program to convert decimal number to hexadecimal number.
4. Write a c program to convert octal number to binary number.
5. Write a c program to convert octal number to decimal number.
6. Write a c program to convert octal number to hexadecimal number.
7. Write a c program to convert hexadecimal number to binary number.
8. Write a c program to convert hexadecimal number to octal number.
9. Write a c program to convert hexadecimal number to decimal number.
10. Write a c program to convert binary number to octal number.
11. Write a c program to convert binary number to decimal number.

12. Write a c program to convert binary number to hexadecimal number.
13. C program for addition of binary numbers .
14. C program for multiplication of two binary numbers.
15. C program fractional binary conversion from decimal.
16. C program for fractional decimal to binary fraction conversion.
17. C program to convert decimal number to roman.
18. C program to convert roman number to decimal number.
19. C program to convert each digits of a number in words
20. C program to convert currency or number in word.

Conversion (Unit)

1. C program for unit conversion.

String

1. Write a c program to convert the string from upper case to lower case.
2. Write a c program to convert the string from lower case to upper case.
3. Write a c program to delete the all consonants from given string.
4. Write a c program to count the different types of characters in given string.
5. Write a c program to sort the characters of a string.
6. Write a c program for concatenation two strings without using string.h header file.
7. Write a c program to find the length of a string using pointer.
8. Write a c program which prints initial of any name.

9. Write a c program to print the string from given character.
10. Write a c program to reverse a string
11. Reverse a string using recursion in c
12. String concatenation in c without using strcat
13. How to compare two strings in c without using strcmp
14. String copy without using strcpy in c
15. Convert a string to ASCII in c

Matrix

1. Write a c program for addition of two matrices.
2. Write a c program for subtraction of two matrices
3. Write a c program for multiplication of two matrices.
4. Write a c program to find out sum of diagonal element of a matrix.
5. Write a c program to find out transport of a matrix.
6. Write a c program for scalar multiplication of matrix.
7. C program to find inverse of a matrix
8. Lower triangular matrix in c
9. Upper triangular matrix in c
10. Strassen's matrix multiplication program in c
11. C program to find determinant of a matrix

File

1. Write a c program to open a file and write some text and close its.
2. Write a c program to delete a file.
3. Write a c program to copy a file from one location to other location.
4. Write a c program to copy a data of file to other file.
5. Write a c program which display source code as a output.

6. Write a c program which writes string in the file.
7. Write a c program which reads string from file.
8. Write a c program which writes array in the file.
9. Write a c program which concatenate two file and write it third file.
10. Write a c program to find out size of any file.
11. Write a c program to know type of file.
12. Write a c program to know permission of any file.
13. Write a c program to know last date of modification of any file.
14. Write a c program to find size and drive of any file.

Complex number

1. Complex numbers program in c
2. Write a c program for addition and subtraction of two complex numbers.
3. Write a c program for multiplication of two complex numbers.
4. Write a c program for division two complex numbers.

Series

1. Write a c program to find out the sum of series $1 + 2 + …. + n$.
2. Write a c program to find out the sum of series $1^2 + 2^2 + …. + n^2$.
3. Write a c program to find out the sum of series $1^3 + 2^3 + …. + n^3$.
4. Write a c program to find out the sum of given A.P.
5. Write a c program to find out the sum of given G.P.
6. Write a c program to find out the sum of given H.P.

7. Write a c program to find out the sum of series $1 + 2 + 4 + 8$ … to infinity.

Array

1. Write a c program to find out largest element of an array.
2. Write a c program to find out second largest element of an unsorted array.
3. Write a c program to find out second smallest element of an unsorted array.
4. Write a c program which deletes the duplicate element of an array.
5. Write a c program for delete an element at desired position in an array.
6. Write a c program for insert an element at desired position in an array.
7. C program to find largest and smallest number in an array

Sorting

1. Write a c program for bubble sort.
2. Write a c program for insertion sort.
3. Write a c program for selection sort.
4. Write a c program for quick sort.
5. Write a c program for heap sort.
6. Write a c program for merge sort.
7. Write a c program for shell sort.

Recursion

1. Write a c program to find factorial of a number using recursion.

2. Write a c program to find GCD of a two numbers using recursion.
3. Write a c program to find out sum digits of a number using recursion.
4. Write a c program to find power of a number using function recursion.
5. Write a c program to reverse any number using recursion.

Size of data type

1. Write a c program to find the size of int without using sizeof operator.
2. Write a c program to find the size of double without using sizeof operator.
3. Write a c program to find the size of structure without using sizeof operator.
4. Write a c program to find the size of union without using sizeof operator.

Using pointer

1. Write a c program for concatenation two string using pointer.

Searching

1. Write a c program for linear search.
2. Write a c program for binary search.
3. Write a c program for binary search using recursion.

Area and volume

1. Write a c program to find the area of circle.

2. Write a c program to find the area of any triangle.
3. Write a c program to find the area of equilateral triangle.
4. Write a c program to find the area of right angled triangle.
5. Write a c program to find the area of rectangle.
6. Write a c program to find the area of trapezium.
7. Write a c program to find the area of rhombus.
8. Write a c program to find the area of parallelogram.
9. Write a c program to find the volume and surface area of cube.
10. Write a c program to find the volume and surface area of cuboids.
11. Write a c program to find the volume and surface area of cylinder.
12. Write a c program to find the surface area and volume of a cone.
13. Write a c program to find the volume and surface area of sphere.
14. Write a c program to find the perimeter of a circle, rectangle and triangle.

C program with very large numbers

1. Write a c program to find factorial of 100 or very large numbers
2. Write a c program to multiply the two very large number (larger the long int)
3. Write a c program for division of large number (larger than long int)
4. C code for modular division of large number.
5. C code for division of large number.
6. C code for power of large numbers.

Other

1. C program for ATM transaction.

2. Write a c program which passes one dimension array to function.
3. Write a c program which passes two dimension array to function.
4. Write a c program which takes password from user.
5. Write a scanf function in c which accept sentence from user.
6. Write a scanf function in c which accept paragraph from user.
7. Write a c program to print the all prime numbers between 1 to 300.
8. Write a c program which passes structure to function.
9. Palindrome in c without using string function
10. How to get the ASCII value of a character in c
11. C program to get last two digits of year
12. C program without main function