

Question 1	Question 2
<p>Write a program in C to accept a year from the user and check whether that year is a leap year or not.</p>	
<p>Ramesh's basic salary is input through the keyboard. His dearness allowance is 40% of basic salary, and house rent allowance is 20% of basic salary. Write a program to calculate his gross salary.</p>	
<p>Write a C program that takes two integers, performs a series of operations using bitwise, logical, and arithmetic operators, and evaluates the following expressions:</p> <pre>result1 = a & b (a ^ b) && (a << 2); result2 = (a > b ? a : b) + (~a + 1) * b / 2; result3 = (++a, b += 2, a > b ? a : b);</pre>	<p>Write a program that accepts three integers (a, b, c) and a floating-point number (d) as input. Using these values, evaluate the following expressions step-by-step and explain the logic behind the results:</p> <pre>result1 = (a + b) * c / d - (b % a) + (c++); result2 = (a > b && c < d) (a + c > b * 2); result3 = (a & b) ^ (c ~b) ? (a >> 1) : (b << 1);</pre>
<p>Write a C program for the following statement. A cashier has currency notes of denominations 10, 50 and 100. If the amount to be withdrawn is input through the keyboard in hundreds, find the total number of currency notes of each denomination the cashier will have to give to the withdrawer.</p>	
<p>Write a C program to read the age of a candidate and determine whether it is eligible for casting his/her own vote.</p>	
<p>Write a C program that checks if a positive integer is divisible by either 3 or 7, or both. If the integer is a multiple of 3, then the program will return true. Similarly, if the integer is a multiple of 7, then also the program will return true. If the integer is not a multiple of 3 or 7, then the program will return false.</p>	<p>Write a C program to convert specified days into years, weeks and days. Note: Ignore leap year.</p>
<p>Write a C program to take an integer is a power of 2 using bitwise operators</p>	
<p>Write a C program to calculate the sum of the digits of a given integer. For example, for the number 1234, the sum of digits is $1+2+3+4 = 10$.</p>	<p>Write a C program to convert a binary number (input as a string) into its decimal equivalent.</p>

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<p>Evaluate the following expressions and show their hierarchy.</p> <p>s = qui * add / 4 - 6 / 2 + 2 / 3 * 6 / god ; (qui = 4, add = 2, god = 2, assume s to be an int)</p> <p>Example - kk = 3 / 2 * 4 Stepwise hierarchy of operations and evaluation of this expression is shown below: kk = 3 / 2 * 4 kk = 1 * 4 operation: / kk = 4 operation: * KK = 4</p>	<p>Evaluate the following expressions and show their hierarchy.</p> <p>s = 1 / 3 * a / 4 - 6 / 2 + 2 / 3 * 6 / g ; (a = 4, g = 3, assume s to be an int)</p>
<p>Using bitwise operators, determine if a given number is odd or even.</p>	<p>Use a ternary operator to assign grades based on a student's percentage input.</p>
<p>Write a program in C to accept a three-digit number from the user and check whether it is an Armstrong number. An Armstrong number is a number whose sum of the cubes of its digits equals the number itself. For example, 153 is an Armstrong number</p>	<p>Write a program in C to accept three numbers from the user and determine which one is the greatest. Ensure the program handles cases where the numbers are equal.</p>
<p>Write a program to calculate the bill amount for an item given its quantity sold, price per piece, and discount. Note discount is 20 % of the total; which is to be subtracted from the total to give the final payable amount.</p>	
<p>Write a C program to convert specified days into years, weeks and days. Note: Ignore leap year.</p>	
<p>Write a C program that accepts an employee's ID, total worked hours in a month and the amount he received per hour. Print the ID and salary (with two decimal places) of the employee for a particular month.</p>	
<p>Write a C program that takes a string as input from the user. The program should then calculate and print the sum of the ASCII values of all the characters in the string</p>	
<p>Maximum possible score in the particular game is 1000. Assume score of the user. Calculate the percentage of the user's score in relation to the maximum available score. Convert userScore to float to make sure that the division is accurate.</p>	
<p>Enlist data types and its qualifiers used in C language. Write a program to find the size of different data types using the "sizeof" operator.</p>	<p>Write a C program to convert for converting temperature in Celsius to Fahrenheit, Print both the values up to 3 digits after decimal point</p>
<p>Two variables a abd b contain values 10 and 20. Wrie a program to interchange the contents of a abd b without using a third variable</p>	

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<p>Write a C program to read temperature in centigrade and display a suitable message according to temperature state below :</p> <p>Temp < 0 then Freezing weather Temp 0-10 then Very Cold weather Temp 10-20 then Cold weather Temp 20-30 then Normal in Temp Temp 30-40 then Its Hot Temp >=40 then Its Very Hot</p>	
<p>Write a program in C that reads a forename, surname and year of birth and displays</p>	
<p>Write a C program that prompts the user to input three integers. The program should:</p> <p>Check and display whether each integer is even or odd using the conditional operator. Use relational and logical operators to determine whether all three integers are equal, any two are equal, or all three are distinct. Display the results using unformatted output functions</p>	
<p>1) Accepts an integer input from the user and checks if it is even or odd using a bitwise operator. If the number is even, increment it using the increment operator and check if the incremented value is divisible by 3 using a conditional operator. If it is divisible by 3, print "Incremented value is divisible by 3." If the number is odd, decrement it using the decrement operator and display the binary representation of the decremented value using a loop and the bitwise AND operator.</p>	<p>Write a program to display all leap years between two given years (inclusive).Input the start year and end year from the user.Print all leap years in that range, one per line.</p>
<p>Write a C program that calculates the volume of a sphere.</p>	<p>Write a C program to find the third angle of a triangle if two angles are given.</p>
<p>Write a program to accept temperature in Fahrenheit and convert it into celsius</p>	

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<p>Write a ternary operator to assign a grade based on a student's marks (marks). If marks are greater than or equal to 90, assign grade 'A'. If marks are between 75 and 89 (inclusive), assign grade 'B'. Otherwise, assign grade 'C'.</p>	<p>Write a ternary operator statement to calculate the PWM duty cycle. The duty cycle should be determined based on the following conditions:</p> <ol style="list-style-type: none"> 1) If the temperature value (Temp) is greater than or equal to 50 and the input switch (Switch) is pressed (1), then: <ol style="list-style-type: none"> a) If the system mode (Mode) is automatic (1), set PWM_Duty to 75. b) Otherwise, set PWM_Duty to 50. 2) If the above conditions are not met, set PWM_Duty to 25.
<p>Write a program that accepts an integer input from the user and checks if it is a power of 2 using bitwise operators.</p> <p>If the number is a power of 2, print "The number is a power of 2." Otherwise, calculate the nearest power of 2 greater than the number using a loop and display it.</p>	
<p>A cashier has currency notes of denominations 10, 50 and 100. If the amount to be withdrawn is input through the keyboard in hundreds, find the total number of currency notes of each denomination the cashier will have to give to the withdrawer.</p>	<p>Two numbers are input through the keyboard into two locations C and D. Write a program to interchange the contents of C and D.</p>
<p>Write a C program demonstrating adding two char values and storing in a variable with data type int (Type casting)</p>	<p>Write a C program to generate students grading system which compares score of students and puts them in a predefined class of excellent, pass and fail using relational operator</p>