

Programming for problem solving LAB

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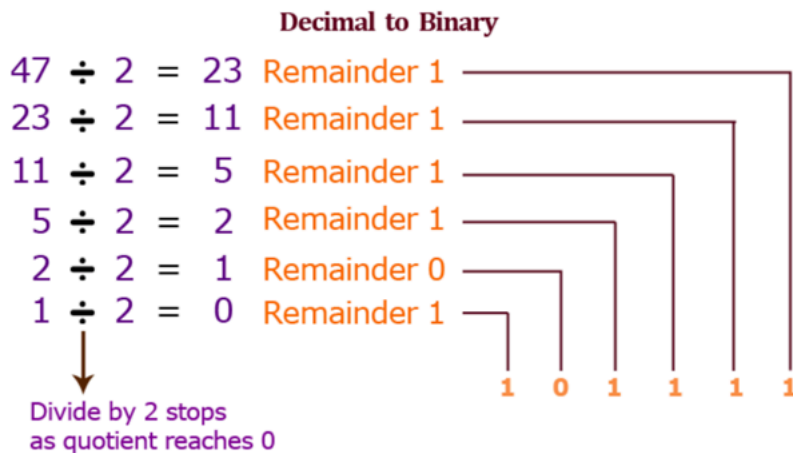
SEC-G

1. Write a program in C to find the Factorial of a number using recursion.
2. Write a program in C to find GCD of two numbers using recursion.
3. Write a program in C to convert decimal number to binary number using the function.

Test Data :

Input any decimal number : 65

Expected Output : The Binary value is : 1000001



$$(47)_{10} = (101111)_2$$

4. Write a program in C to get the largest element of an array using the function.

Test Data :

Input the number of elements to be stored in the array :5

Input 5 elements in the array :

element - 0 : 1

element - 1 : 2

element - 2 : 3

element - 3 : 4

element - 4 : 5

Expected Output : The largest element in the array is : 5

5. Write a C program ,to delete an element from an array.
6. Write a program in C to print all unique elements in an array.

7. Write a program in C to count the frequency of each element of an array.
8. Write a program in C to sort elements of array in ascending order.
9. Write a program in C to print the elements of an array in reverse order.
10. Write a program in C to swap elements using call by reference.
11. Write a program in C to show the difference between `Ptr+1` vs `*ptr+1`