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Programming questions:

- 1) Accept 2 ints, print the multiplication tables of the smaller number till the second number times (if 5,2 and given, print 2X1 till 2X5)
- 2) WAP to test whether an int number is even
- 3) WAP to test whether an int num is prime
- 4) WAP to test whether an int is a perfect square
- 5) WAP to test whether an int is a power of 2
- 6) AP to return the number of bits set to 1 in an int input
- 7) WAP to generate fibonacci till a number given
- 8) WAP to generate n number of fibonacci sequence, given n
- 9) WAP to identify the GCD of 2 int numbers
- 10) WAP to identify the LCM of 2 int numbers
- 11) WAP to identify if an int number is a palindrome
- 12) WAP to sum the digits in an int input and return it
- 13) WAP to generate:
 - a) the binary number representation for an int number
 - b) the hexadecimal representation for an int number
 - c) the octal representation for an int number
 - d) base10 representation for an octal input
 - e) base10 representation for a hexadecimal input
 - f) base10 representation for a binary input
- 14) WAP to generate the factorial of a number
- 15) AP to swap 2 ints without using a temp variable
- 16) An Armstrong number of three digits is an integer such that the sum of the cubes of its digits is equal to the number itself. For example, 371 is an Armstrong number since $3^3 + 7^3 + 1^3 = 371$. Write a program to find all Armstrong number in the range of 0 and 999.
- 17) WAP to test whether 2 numbers given as inputs contains the same digits, for ex: 121, 112, 211 contain the same digits.
- 18) WAP to accept 1 int number and another a digit (given also as an int). Return how many times the second parameter occurs in the first number. Ex: 2224, 2 -> 2 occurs 3 times
- 19) WAP to return true if an int input contains all the digits in increasing order (ex: 123 -> true, 12342 -> false)
- 20) A number is said to be made up of non-decreasing digits if all the digits to the left of any digit is less than or equal to that digit. For example, the four-digit number 1234 is composed of digits that are non-decreasing. Some other four-digit numbers that are composed of non-decreasing digits are 0011, 1111, 1112, 1122, 2223. As it turns out, there are exactly 715 four-digit numbers composed of non-decreasing digits. Notice that leading zeroes are required: 0000, 0001, 0002 are all valid four-digit numbers with nondecreasing digits. Find all the 715 such 4 digit numbers.