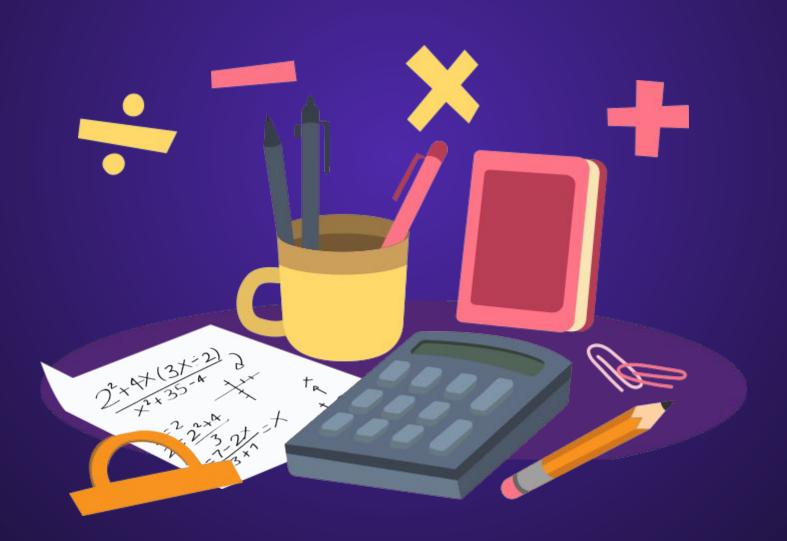


MATH FOR PROGRAMMING

EXERCISES



EXERCISES



Question 01:

Choose a prime number from the range of 50 to 100. We will call it P. Write in Details

Question 02:

Find the binary representation of P. You must show the process.

Question 03:

You and your friends in class might be choosing different values for P. Can anybody choose a P that is an odd number? Explain your answer.

Question 04:

Ternary numbers are formed with a number system with base 3. Given the ternary number 10212, find its decimal value. Write in Details

Question 05:

Build a sieve of Eratosthenes to determine if 19 is a prime number. Show the state of the table at each step.

Question 06:

Take two natural numbers X and Y. If X * Y = Z, is Z even or odd when X and Y -

(Case 1) both are even: even / odd

(Case 2) both are odd: even / odd

(Case 3) One of them is odd, the other one is even: even / odd

Note: (Answer in even or odd) Write in Details