

ISS Quiz 28102020

* Required

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Value of $\Phi(671)$? $\Phi \rightarrow$ Euler's totient function

Your answer

An important quantity in number theory referred to as _____ is defined as the number of positive integers less than n and relatively prime to n .

- ☐ CRT
- ☐ Miller-Rabin
- ☐ Euler's totient function
- ☐ Fermat's theorem



Restoring the plaintext from the ciphertext is _____ .

- ☐ deciphering
- ☐ transposition
- ☐ steganography
- ☐ encryption

Value of $\Phi(35)$? $\Phi \rightarrow$ Euler's totient function

Your answer

What is the message embedded in

3rd March

Dear George,

Greetings to all at Oxford. Many thanks for your letter and for the Summer examination package. All Entry Forms and Fees Forms should be ready for final despatch to the Syndicate by Friday 20th or at the very latest, I'm told, by the 21st. Admin has improved here, though there's room for improvement still; just give us all two or three more years and we'll really show you! Please don't let these wretched 16t proposals destroy your basic O and A pattern. Certainly this sort of change, if implemented immediately, would bring chaos.

Sincerely yours.

Your answer



Value of $(99 \times 99 \times 99 \times 99 \times 99 \times 99) \bmod 7$?

Your answer

ID

2018KUCP1070

GCD(61,71)?

Your answer

Name

Nitesh Kumar Meena

_____ is when each plaintext element or group of elements is uniquely replaced by a corresponding ciphertext element or group of elements.

- ☐ Substitution
- ☐ Diffusion
- ☐ Streaming
- ☐ Permutation



What is the smallest positive integer that has exactly 4 positive divisors?

Your answer

An original intelligible message fed into the algorithm as input is known as _____, while the coded message produced as output is called the _____.

- ☐ decryption, encryption
- ☐ plaintext, ciphertext
- ☐ ciphertext, plaintext
- ☐ encryption, decryption

A technique referred to as a _____ is a mapping achieved by performing some sort of permutation on the plaintext letters.

- ☐ transposition cipher
- ☐ polyalphabetic cipher
- ☐ Caesar cipher
- ☐ monoalphabetic cipher



A _____ cipher is one that encrypts a digital data stream one bit or one byte at a time.

- ☐ product
- ☐ block
- ☐ key
- ☐ stream

Two integers are _____ if their only common positive integer factor is 1.

- ☐ Polynomials
- ☐ Relatively prime
- ☐ Residual
- ☐ Congruent modulo

A sequence of plaintext elements is replaced by a _____ of that sequence which means that no elements are added, deleted or replaced in the sequence, but rather the order in which the elements appear in the sequence is changed.

- ☐ permutation
- ☐ diffusion
- ☐ stream
- ☐ substitution



The _____ of two numbers is the largest integer that divides both numbers.

- ☐ Greatest common divisor
- ☐ Prime polynomial
- ☐ Lowest common divisor
- ☐ Integral divisor

Value of $(99 \times 99 \times 99 \times 99 \times 99 \times 99 \times 99) \bmod 7$?

Your answer

DES exhibits the classic _____ block cipher structure, which consists of a number of identical rounds of processing.

- ☐ Feistel
- ☐ SAC
- ☐ Shannon
- ☐ Rendell

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