18-5-2022

DMS

Congurence is a writing modulus

19 = 1 Mod 3

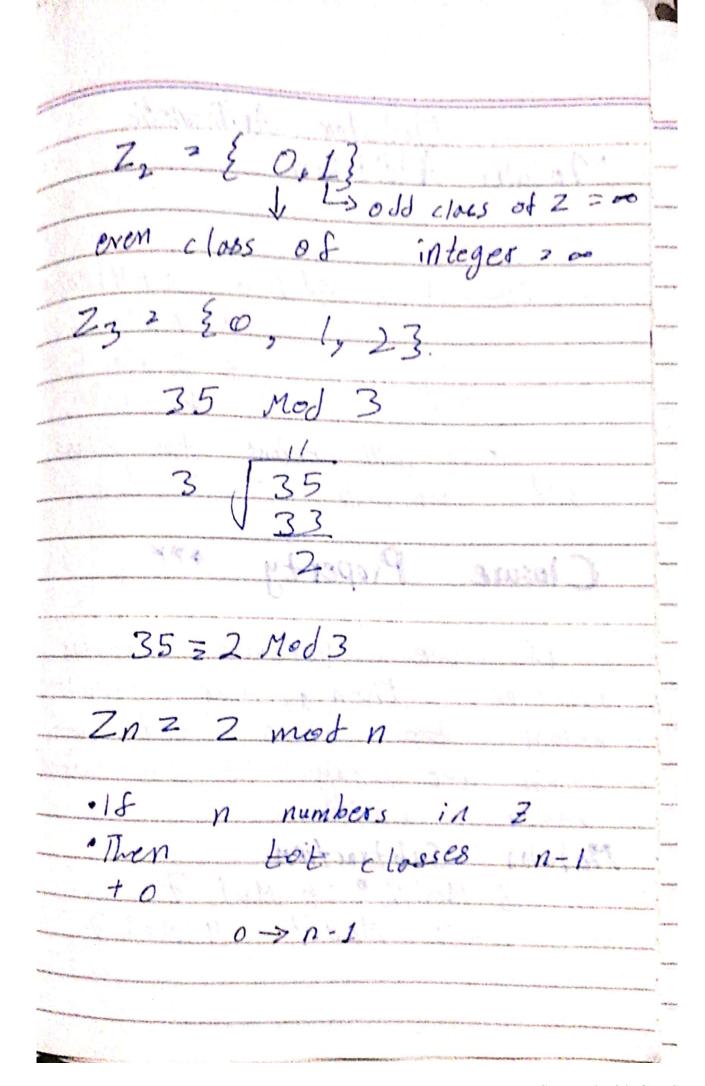
4 = 1 Mod 3

1 Mod 2

Z med 2

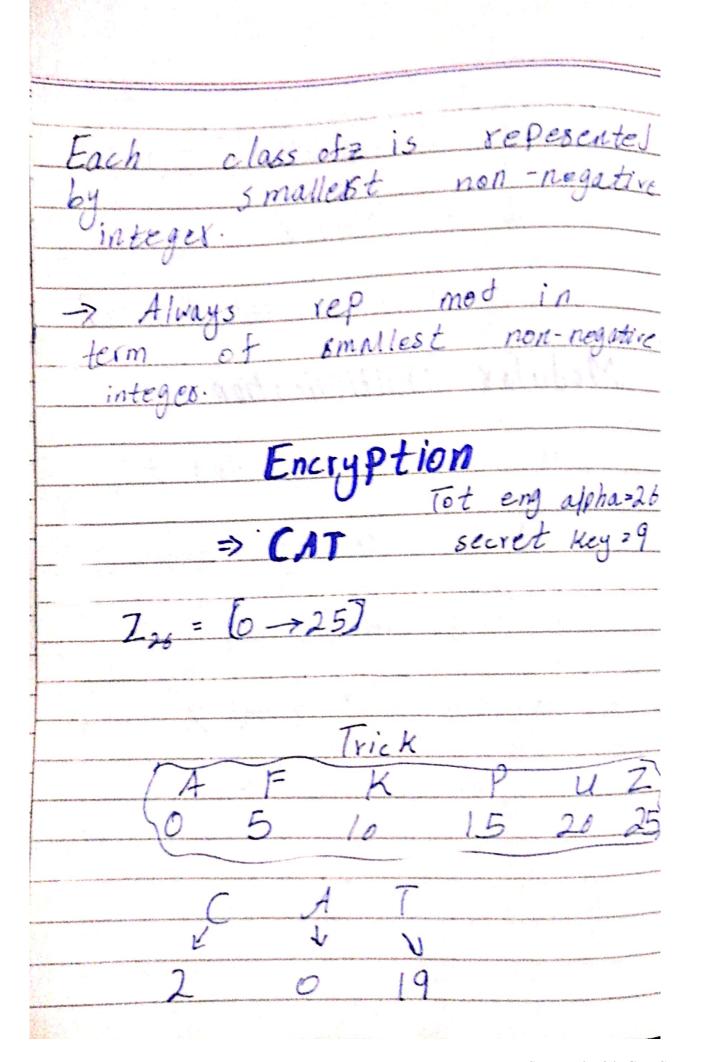
35 = 1 Mod 2 36 3 0 Mod 2 37 = 1 Mod 2

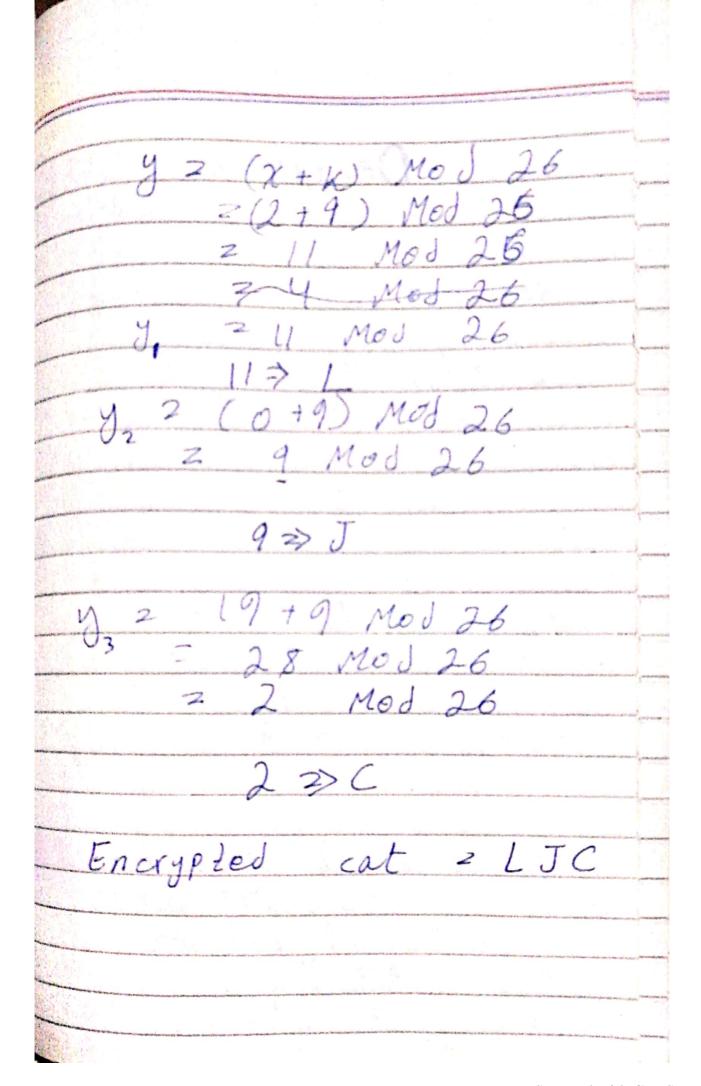
In this way integers one

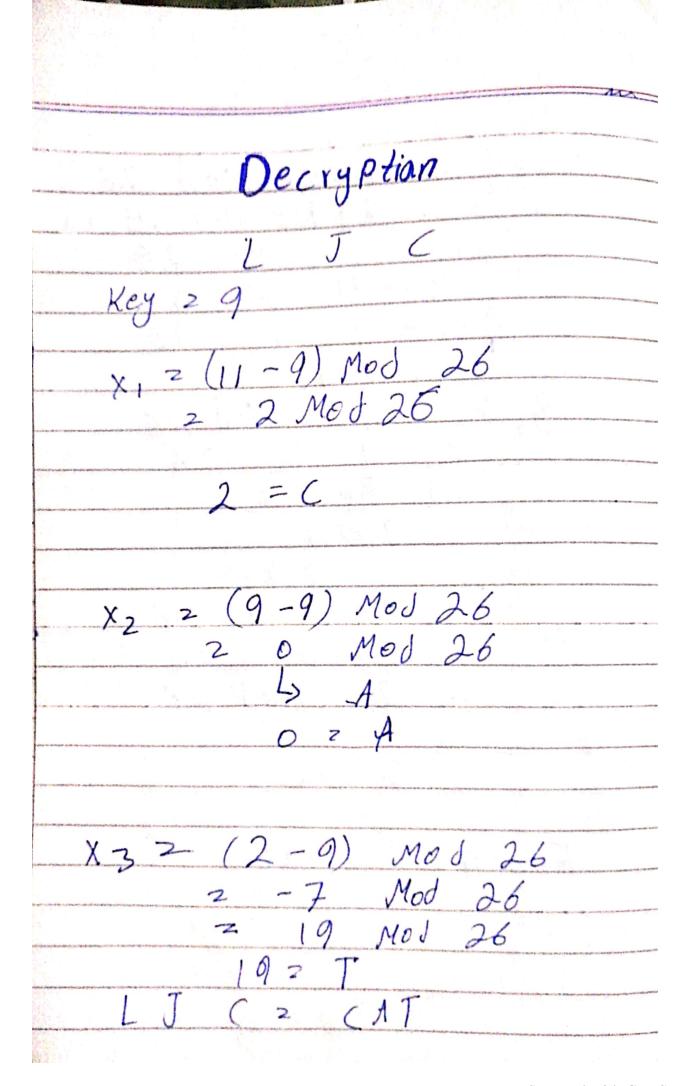


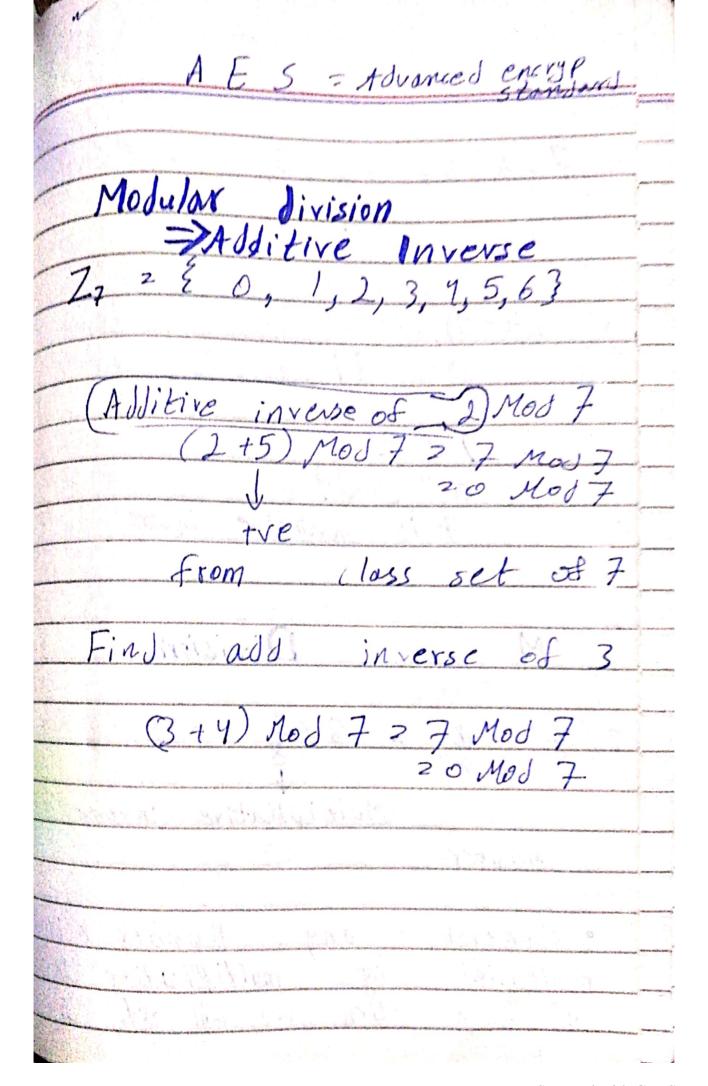
Modular Arithemetic Modular Addition 3 Mod 5 + 4 Mod 5 = (3+4) Mod 5 2 7 Mod 5 · It will belong to class Closure Property we perform modular addition then a our result belong to class set & under addition Modulas Subtraction 3 Mod 7 = - 6 Mod 7 -3 Mod 7 = 4 Mod 7

MOJ 7 - 6 MOJ 7 2-6) MOS 7 -4 Mod 7 2> 3 Mod 7 Modular Multiplication 4 MOD 7 x 5 MOD 7 (4x5) MOD 7 20 Mod 7 5 MOJ 7 X 6 MOJ 7 3c Mod 7 => 2 Mod 7









79280, 1,2,3, 5 Mod 9 (5+4) Mo J 9 O Madg 0 = 2 0 - Mod9 7 is additive inva Division = a = 8×1 = 1 Multiplicative inverse of number by multiplicative inverse · When ever multiplied of n then we will get 1

