Mathematics problem list

GCD UVa-408

- UVA 11417 (Solvable with O(log (a * b)) complexity) easy
- UVA 11388 (Easy)
- UVA 11827 (GCD problem, need stringstream(string manipulation) to solve it)
- UVA 10193 -> O(log(a * b))

✓ **Fibonacci:**

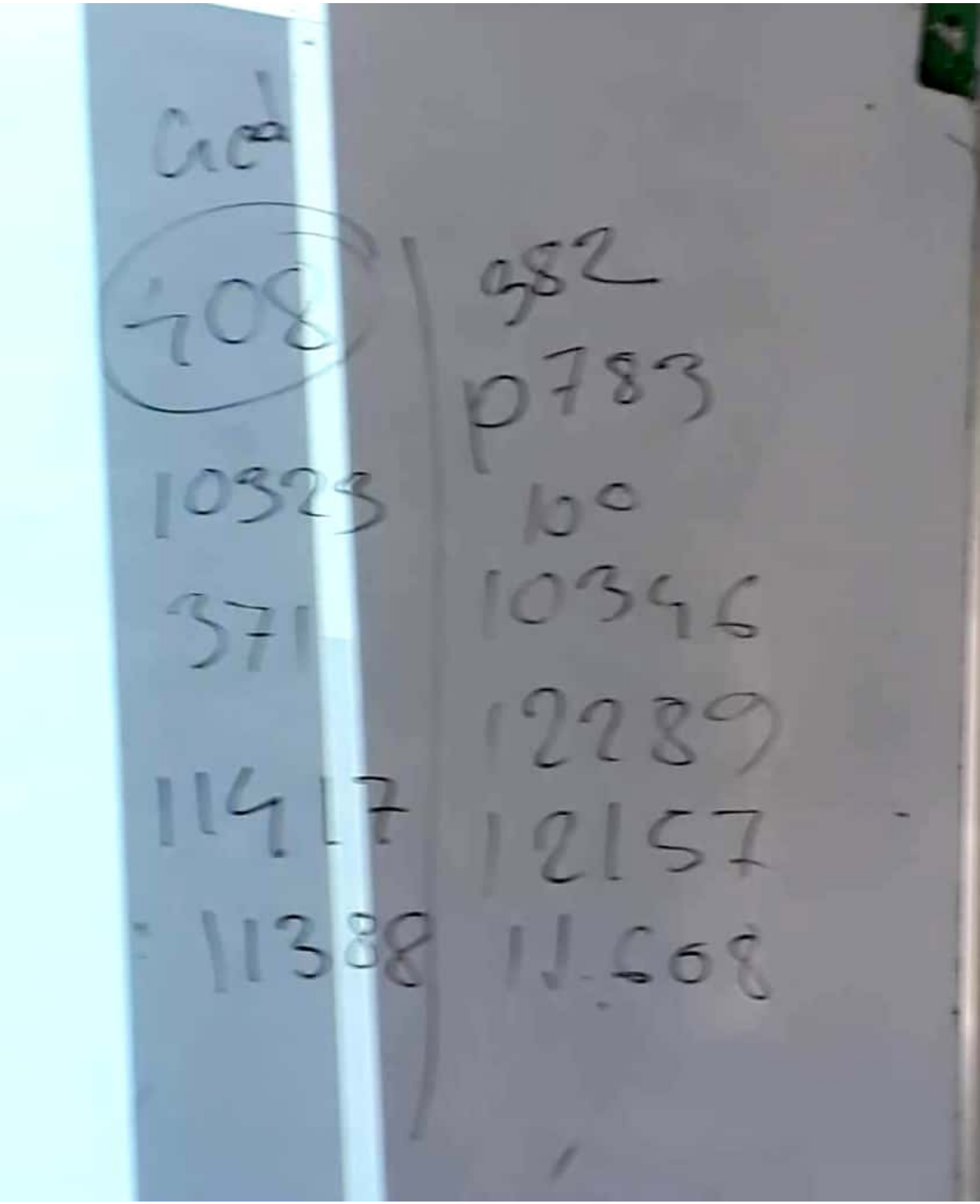
UVA 10450
UVA 495 -> String
UVA 10579 -> String
UVA 11385
UVA 11000
UVA 10334 (String)

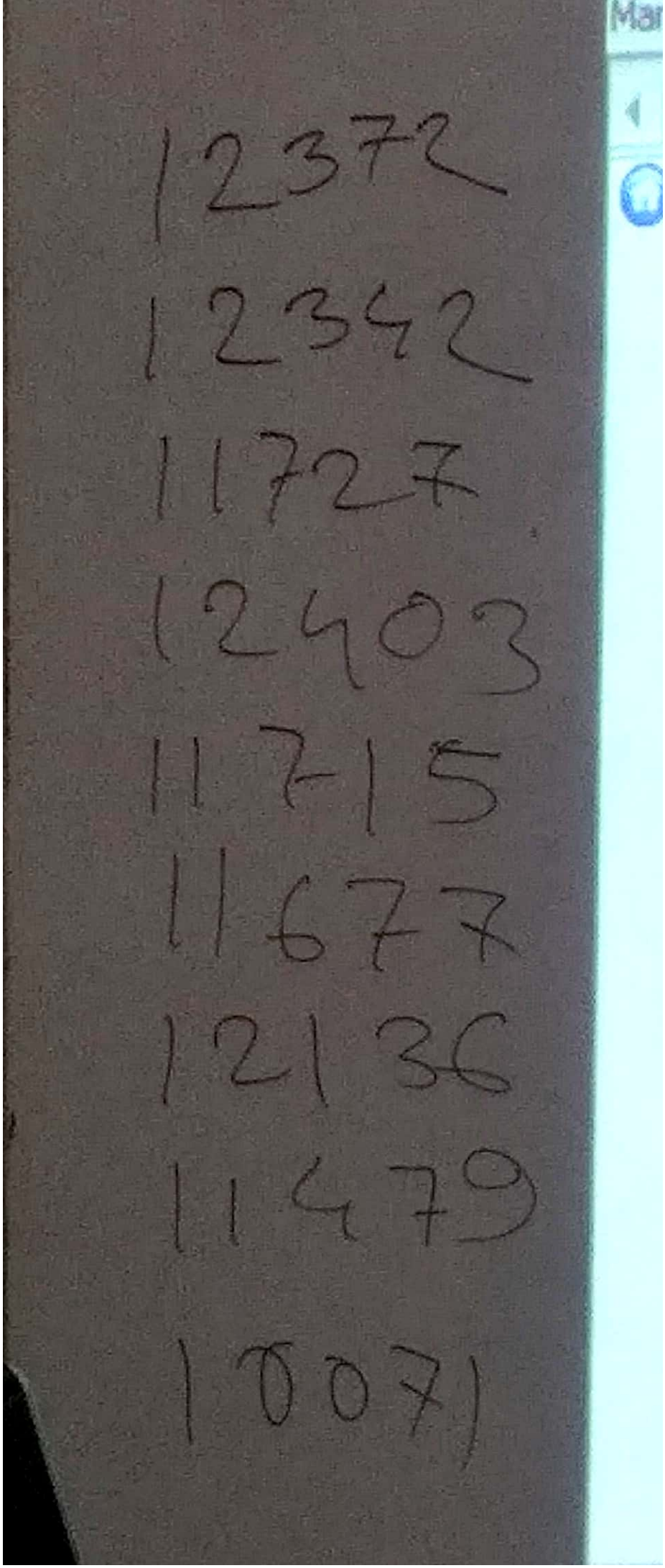
➢ **Divisor:**

UVA 13185 (easy, Brute-force)
UVA 382 (Easy, need to handle presentation error)
UVA 13131 (Complexity O(sqrt(n))
UVA 12043 (Complexity O(sqrt(n))
UVA 294 (Complexity O(sqrt(n))
Lightoj 1014
Lightoj 1214

Prime:

Lightoj 1059 (Concern on memory) -> Sieve
UVA 543 -> Sieve
UVA 686 (Solvable with brute force)
UVA prime cut (Ad hoc)
UVA prime frequency (easy)
UVA Simply emirp (check critical test case, brute force)
UVA the primary problem -> Sieve
UVA 10311 -> (Sieve, advance)
UVA summation of four primes -> Sieve
UVA jumping champion -> Sieve
UVA prime word -> (Easy , bruteforce)





ACM Easy Problems List

272-TEX Quotes
1124-Celebrity jeopardy
10550-Combination Lock
11044- Searching for Nessy
11172- Relational Operator
11364- Parking
11498- Division of Nlogonia
11547- Automatic Answer
11727-Cost Cutting
12250- Language Detection
12279- Emoogle Balance
12289-One-Two-Three
12372-Packing for Holiday
12403- Save Setu
12577-Hajj-e-Akbar

Example 1) Odd/even diffn
ii) Absolute value without library function
iii) Minimum/Maximum value of two integers
iv) Leap year
11984 - A change in Thermal Unit [C].
11854 - Egypt. (C).

10055

Problems
⇒ *11172 → ✓ Relational Operators [C].
⇒ 12372 → Packing for Holiday [H]
⇒ 12342 → Tax calculator [C].
⇒ *11372 → cost cutting [C].
⇒ 12403 → save seta [H]
⇒ 11715 → cars [H]
⇒ *11677 → Alarm Clock [C]
⇒ 12436 → Schedule of a Married man [H]
⇒ 11479 → In this the easiest problem [H]
⇒ 10071 —

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y-2 (a)

Loop → i) while
ii) do..while
iii) for
iv) ~~Nested loop~~

Example:
⇒ digit sum
⇒ GCD LCM
⇒ factorial
⇒ prime Number

Instal — windows

Problems
382 → perfection [C]
✓10783 → Odd Sum [C]
✓100 → 3n+1 [C]
✓10346 → Peters smolov
✓10289 → One Two Three (H)
12157 → Tariff plan (H)
11608 → No Problem [H]
408 → Uniform Generator
10323 → factorial you must kidding
371 →
10070 —

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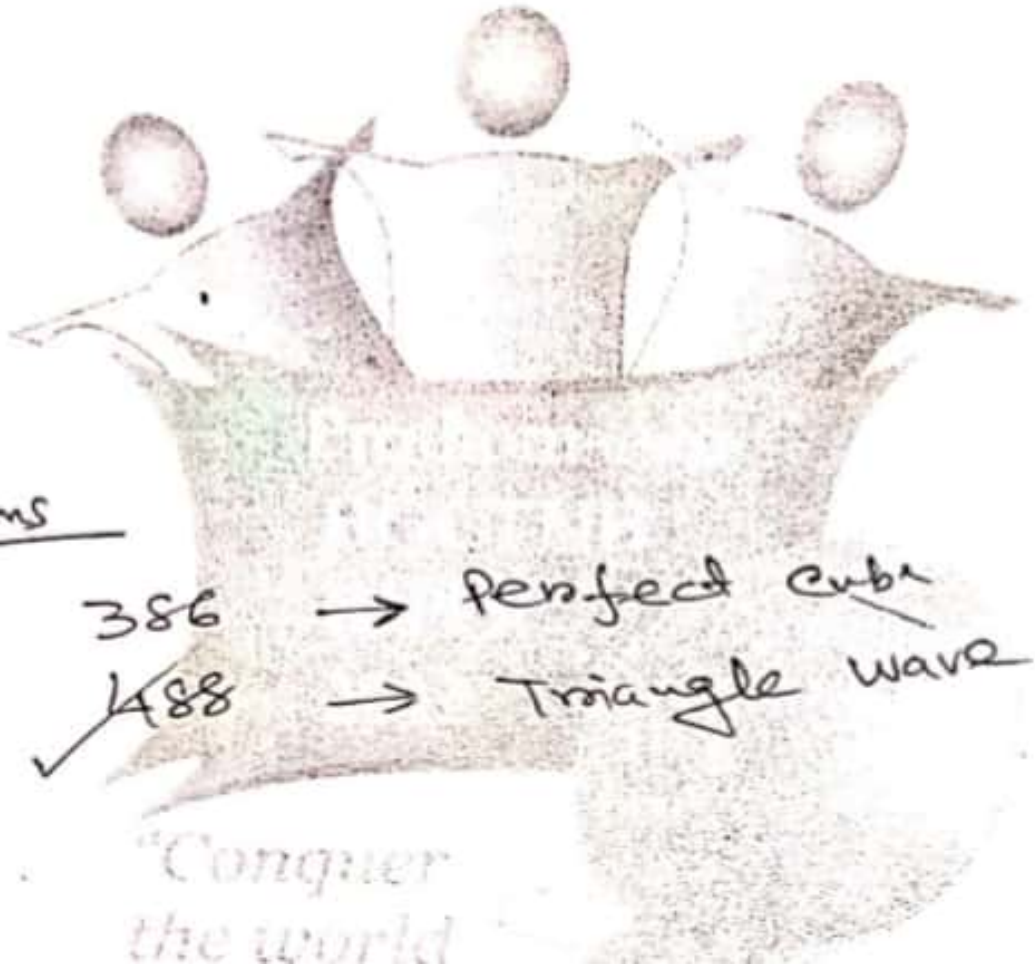
Q 2(b)

Nested loop



Problems

⇒ 386 → Perfect cube

488 → Triangle wave

Day-3 (a)

1D Array

Example

⇒ Decimal → Binary

⇒ Binary to decimal

⇒ Fibonacci

⇒ Prime Number [Generate, Save]

⇒

Problem

~~591~~ → Box of Bi.

10038 → Jolly Jumper

10050 → Hartal

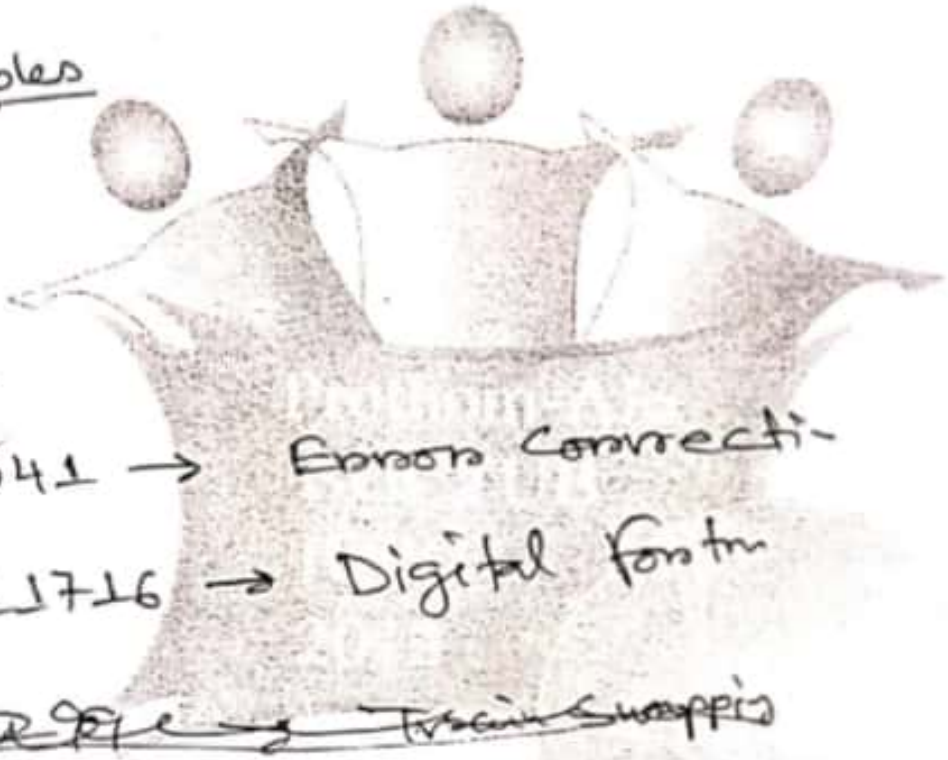
10420 →

10591 → Happy Number

Day 3(b)

2D Array

Examples



Problem

541 → Error Correcti-

-11716 → Digital fortn

~~RRL → Train Shopping~~

441 → Lotto

Day 4 (a)

String

Example:

Eg

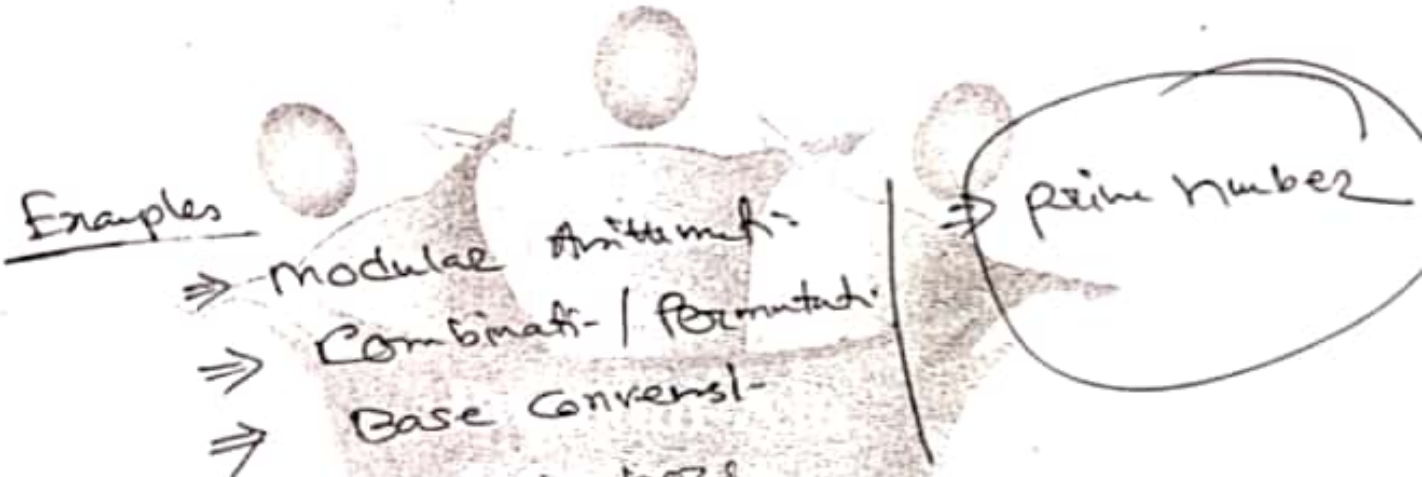
Problem ~~12577~~ 12577 → Hajj-e-Akbar

458 → The Decoder

272 → Tex Quotes

Day 4(b)

⇒ Number Theory



Examples

⇒ Modular Arithmeti-
⇒ Combinati- / Permutati-
⇒ Base Conversi-
⇒ Big Numbers

⇒ prime number

Problems

⇒ 10127 — Ones
⇒ 369 — combinati-
⇒ 389 —
⇒ 579 —