① 25 Sept 2022

~~#18~~ Blockchain

Mempool

#Key private Key → function → Public key

1 Way ⇓ mapping

example

fuel + igintion (O_2) → CO_2 . . . gas + H_2

→

Signatures

let person A message send to B

Sender A [ ] → B Sender

C/D/E (no one else read message only A & B read)

① Sign

message → Private key → Message Signature

this is match

② Verify

message → Public key → Signature

Transaction

1) Sign

Message $ □ From □ → To □

private key

Message signature

2) Verify Same

Message $ □ From □ → To □

Signature

Blockchain

peer A Reward #1 #2 #3 #4

peer B

peer C

SHA (block number + prev hash)

↓

Nonce hash

③ Only know as owner **private key** / /

Two Step Varification

1) Signature
2) signature along address

A send → 10 BTC → B

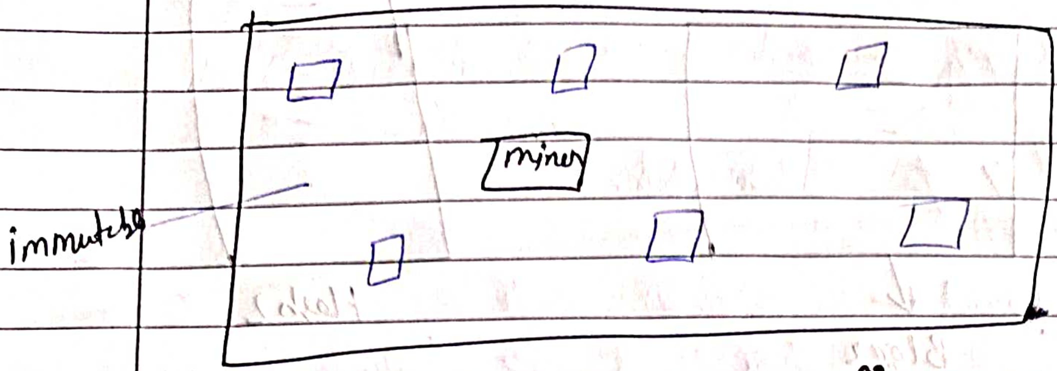
After 5 years

~~# Javascript~~

Blockchain (Block+chain)

- Crypto Graphy
- Distributed System
- Network
- Database

why famus blockchain ⇒ Trust



Network

Game theory

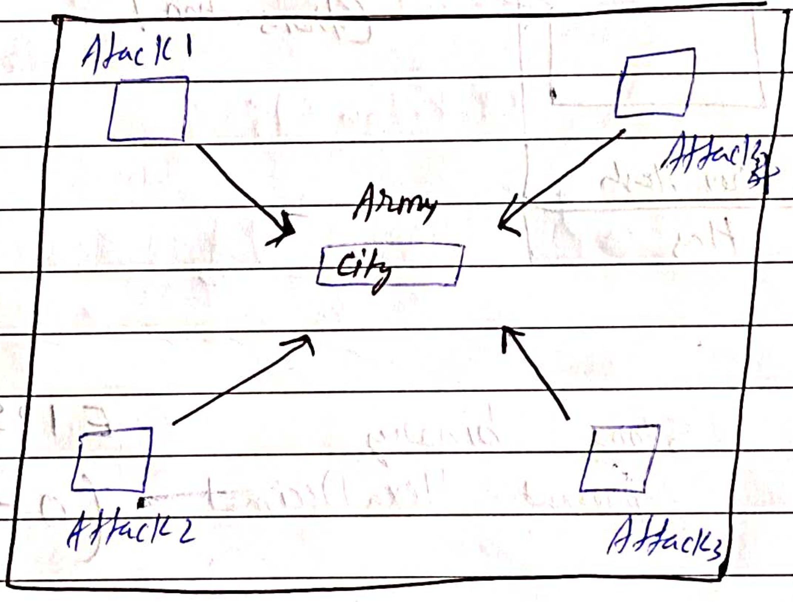
"controlled softwares."

Full Node

Miners

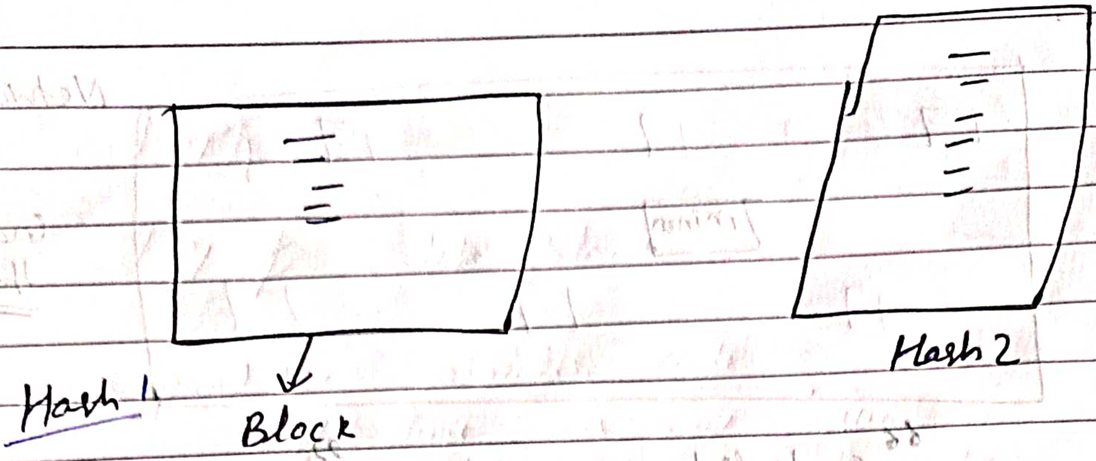
node are machin

* # Byzantine Generals problem



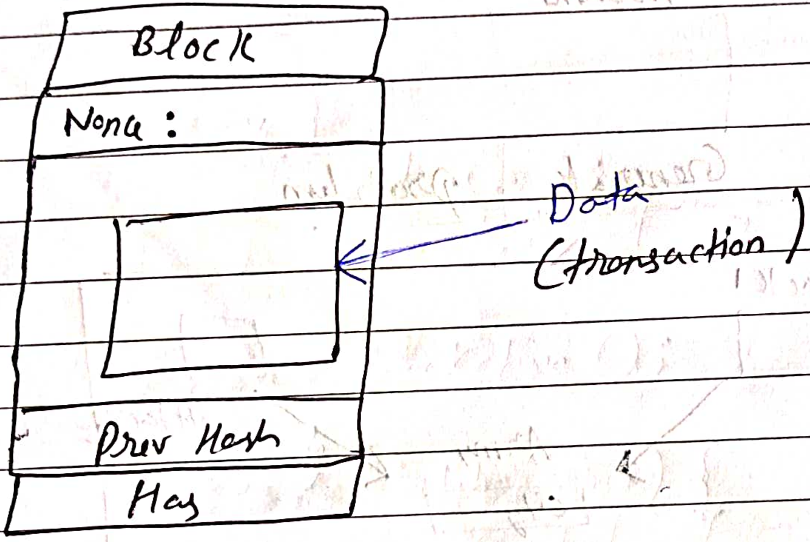
How attack Same time. in 17th century

- All comunicate & attack
- Messenges
- Sending message everyone
- General Say this time attack



Linked list

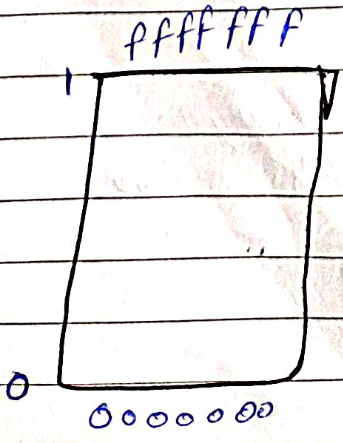
address



Store binary
represent HexaDecimal

E125FAC9
(0-9 A-F) 16
10 - 16 total

Difficulty Level



Real Panda Mining channel

// JavaScript

issue dead

Exception Handling

Try Catch

Exception — an unexpected issue.

```
let a = 'hello';
if (a! = undefined) {
        throw new Error("This is not undefined
                                          kxt");
}
else {
    console.log ("this is undefined");
}
```

throw — error handling

8

__/__/__

~~try~~ {

try & catch block

part 1 - regular code
if there is some issue in regular code, create a code to handle issue.

```
try {
    let a = 5;
    console.log ("we are inside the try block");
    blockchain ();
} catch (error) {
    console.log ("Some thing went wrong");
```

X X