

- How to prove that  $T_0$  Redeems  $T_{-1}$ ?
- How to prove that  $T_0$  is VALID w.r.t.  $T_{-1}$

$\Rightarrow \sigma_{-1}$  is okay with  $Ver(Pub_B, \underline{\quad}, \underline{\quad})$

$\Rightarrow Ver(Pub_B, \sigma_{-1}, \underbrace{\text{message}}_{\wedge}) = 1$

which message



$T_{-1}$

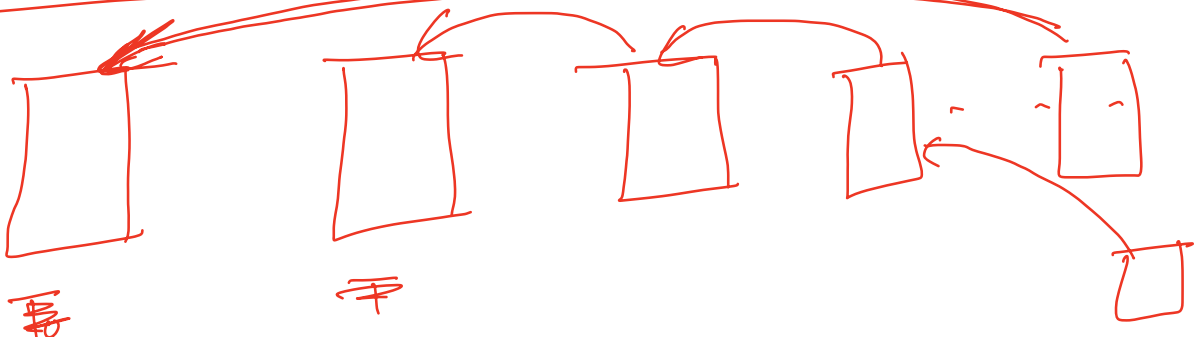
how

$$\sigma_{-1} = \text{Sign}(\text{Prev}_B, T_0)$$

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How all the transactions  
of a Blockchain are connected

Transaction Chain



timestamp  
 $t_0 < t_1 < t_2 < t_3 < t_4 < t_5$

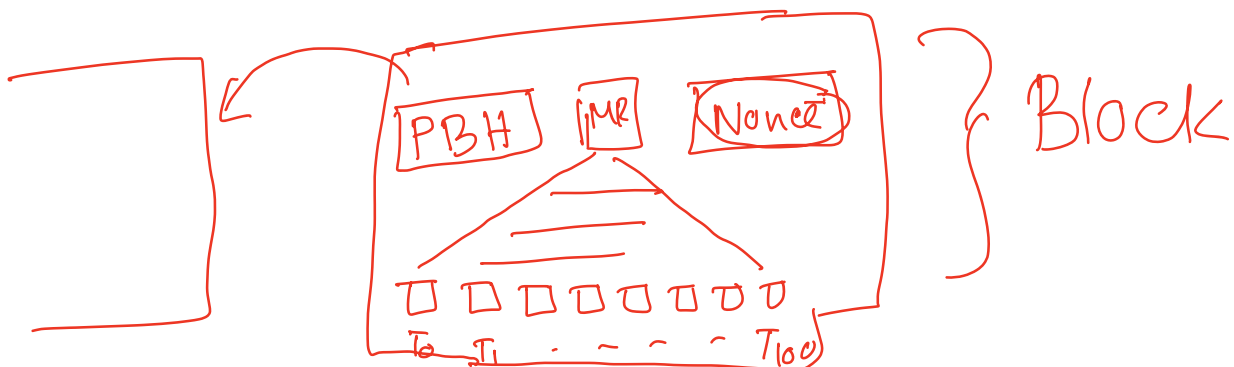
- All nodes in Bitcoin network are generating transactions and broadcasting it.

- How and who validates transactions Network-wise.

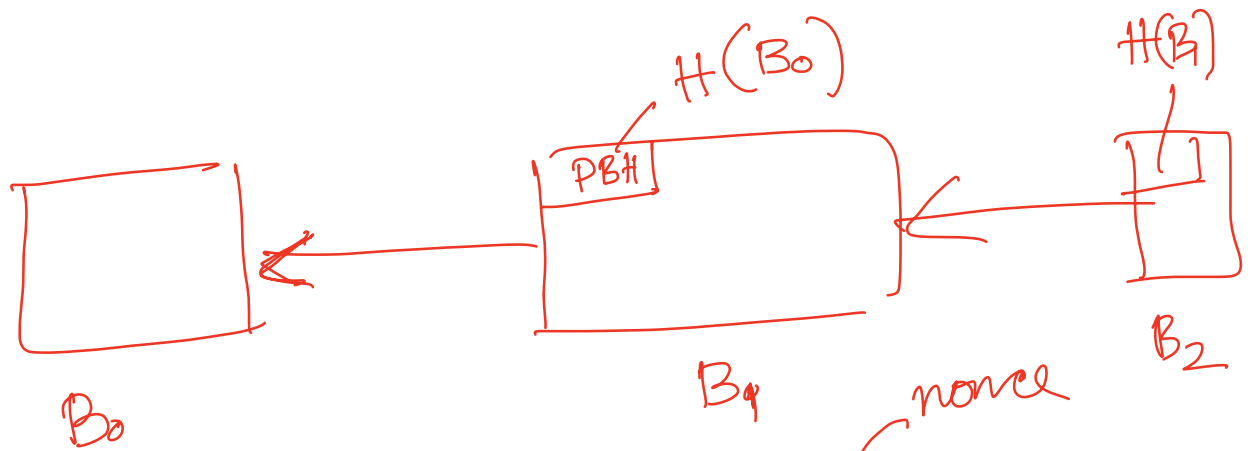
- All nodes are collecting transactions and creating

BLOCKS

How a Block looks like



PBH = Previous Block hash



$$H(\text{PBH}, T_0 | T_1 | T_2 \dots | T_{100} | \text{nonce})$$

MR

$$= \underbrace{00000000000000000000}_{200 \text{ bits}}$$

Solve for  $x$ ?

from the above equation?

