Eg: anbnch |n >1 BBAAA b b b E E B B Rx ignorea's R.Y ignoreb's RZ left hit x < ignore b, y, a igner x Right > RX ignore RY ignore RZ

Turn a, y b, Z läx = ignere 2.6, y, a RX ignore RY ignore RZ + Right My Y's z's Bhit X X X Y Y Y Z Z Z t t t t t t t t (2,2,4) (b, b, L) (x, x, L) (a, a, L) (y, y, R) (a, a, R) (b, b, R) (a, a, R) (b, y, R) (c, z, L)

60.

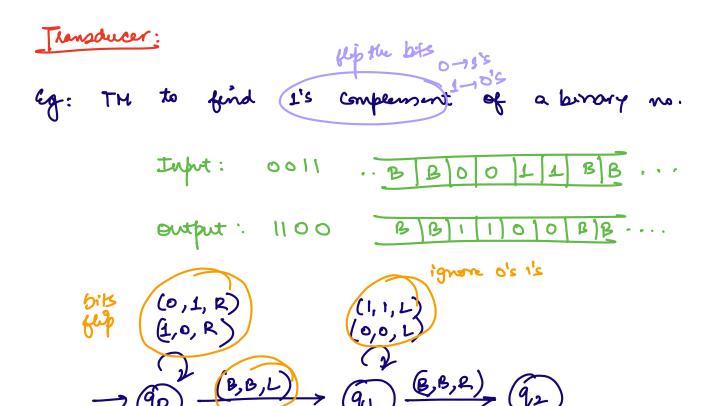
## Transitino:

TH can act like as transducer as well as

occepts

Accept well anbn

Rejut well anbncn

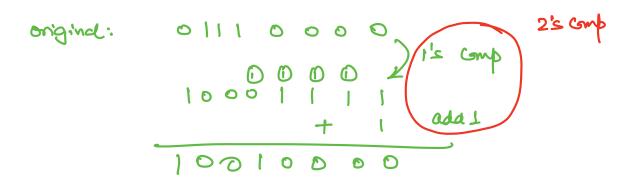


this TH won't say Yes/No. No need of five state

Acceptor - final state

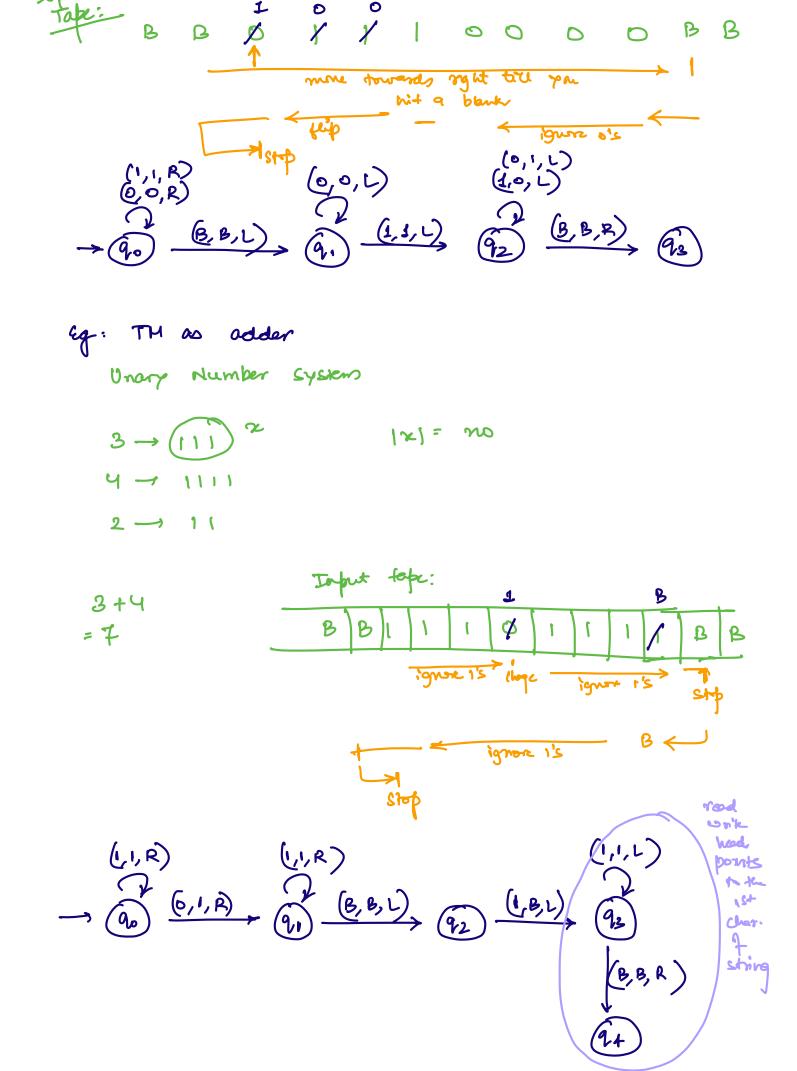
Transducer - no need of final state.

Eq: TM for computing 2's complement.



original: 0111000000

whit



Eg: TH as Comparator 2 nos a=b a>b a<b a 3 3 BBXYXOXXB Np. jgvor 1'S = Rep. B ignore or R (B, B, L)

Achieve of Spendard TH  $M: (B, E, \Gamma, B, qo, B, F)$ Final Mate Fig.

States in let take true State

achieve alphabet alphabet  $S: \{0,1\} = \{0,1,B,x\}$   $S: \{0,1\} = \{0,1,B,x\}$ 

## Properties:

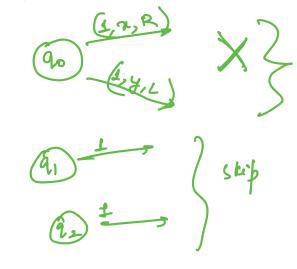
- 1. Tape is unbounded, you can take any no. of left & night moves.
- 2. TH is deterministic,



TH & partially deterministic

Every State then should be a transport for every most orphabet-

Not mandatory to have transtin for every input orpheter -



2 Stock: Once





Eg: TH as copier

