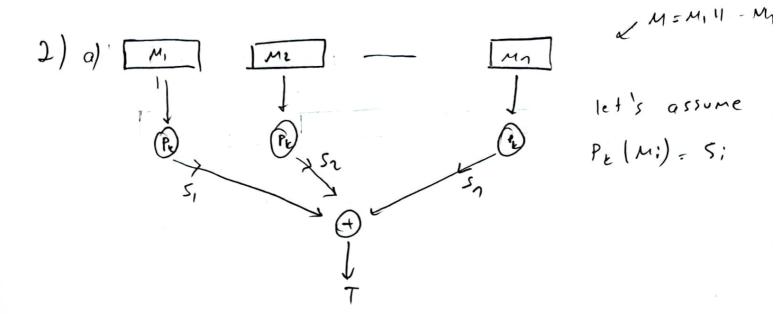


- Since Alice sends some message on everyday; and of and message.

  1) Affacter realises that Ci's and

  - 2) If ciphertexts are identical leven if they are exerted in counter made, each ressage will be perented with repeated pattern of counters on each day), o'this is not IND-CPA secure.
  - 3) Atlacters can receite Mi with Sequency of words shên realite Si = Mi D Ci. After determing the Si, attackers can exactly learn mething dates.
- 7 To protect from those attacks (identical ciphertexts | Nonce - based CTR mode can be used. With this method, Si will charge each time that results in different G for repeated Mi.



S, A Si A S, Asy = S, A Is A Fr A Sy places of two message blaces are exchanged.

two different messages such that Mx = M, II M, UM, II My and My = M, II M, II M, II Me

> Both Mx and My have the some top which is not secure for authentication.

