3 Jan 2025 Coyptography - coypto + graphar Science of Jecret communication where is it needed diplomatic mirrions sobliers, kings lovers, e-commerce Alice 1 insecure channel A Ever : Soveodropper (passive) mallong: Malicious adversary (active) Milletus (modern Turkey) -> g methbour Shaved The head Vietnam war Us army Jeremiah Denton
Capterned by Suivilles BBC Jamelist - vides intented Morre code Spelled "TORTURE" VaiTube video

2nd war: Invisible ink
MI-2 0 - Microdut
YouTure YouTure
Steganography - "hide The methol"
Cryptography - method is open
- yet secure communication
Coberts of
Setting: $f(m) \rightarrow f(f(m) \cdot m)$
R P P B
insecure
Eve/Mallory
(Affackers)
_ method of must be invertible
- Alice knows f, Bob knows f
But Attacker doesn't know f.
Two way communication -
A, B; f, F'
THE TOTAL TO
attacker: doesn't have f
Widow the method
Clegangraph
CS: Algorithm, Dota) > cryptography
Without keeping something" secret between A &B
- no secure communication is possible.

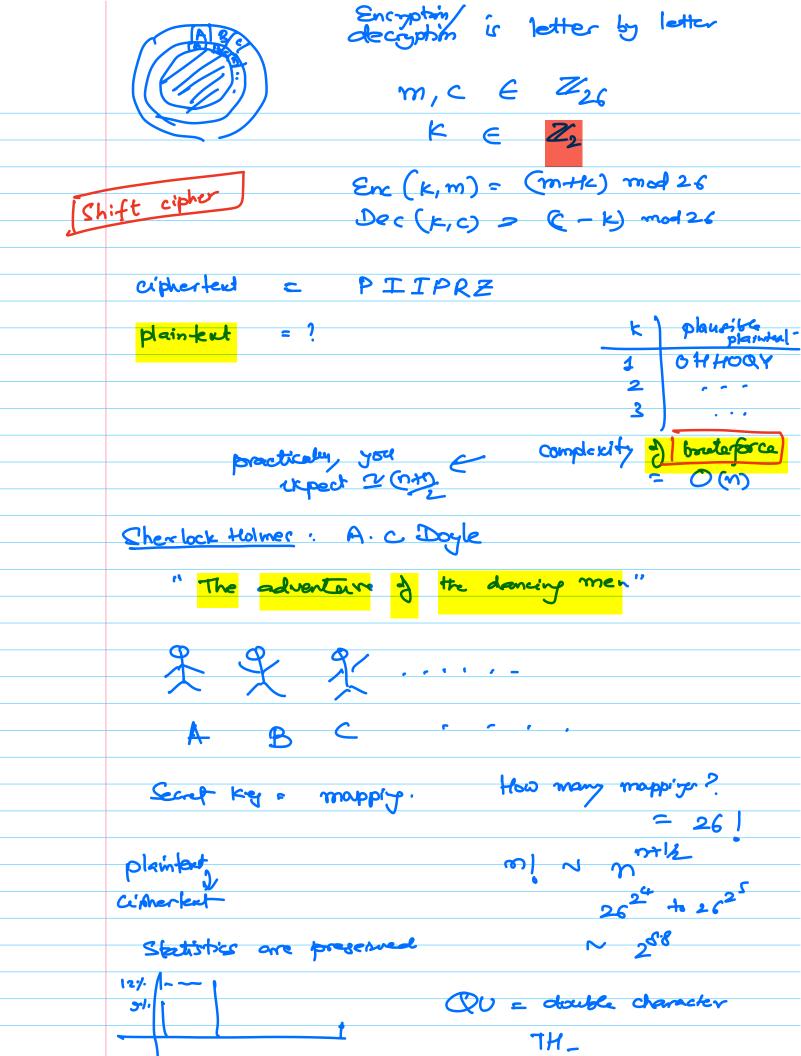
Secret date = secret key

$$f(k, n) = c$$

$$f(k, n) = c$$

$$f(k, n) = m$$

$$f($$



Define - lecente encyation -) (reali such mellote more security goals
more cecenity goals