CRYPTOCRAPHY - parl 2, tokyo deili engineers will the property that someone who knows with the Public Key Cryptography (Ollic or Hallow system 1976).

Le -Himi precided to a combridge materialism
working under speciency or James Ellis discover how to decipler. Affine employation are not public key Code Go work as Chare: 5 KE Cipheles Ke - encoloring Key (public Knowledge) Ko- decidering Key (private) E.g. book composersion - want to worky to the this the book charges a secret word (penis) bank encrypts this with my public key, and emails me \$ ke (penie)

Using my private key, a decrypt this and return the world

Lie Value Ne secret word, my identity is verified me \$ ko (\$ ke (penis)) RSA Pueuc Key · M· Litter stainfest mesongé maise eig K. 3. Meet me tonnent
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-> gunter of possible polariest message units 5 18 · L- letter cipturket message units Plaintered message units le mercer in conce 0 5: 6 N implies of passible dipleted resease onte + N الماسا الماسان الماسان 19 integers in compa B& 1 & N Each user Charses has distinct random prime numbers of around 1000 digits each. (Its be take will made technology) +e choose on integer e with gca (e. (p-1)) & gcd (e. (e. -1)) = 1 Each war computer in # pop to public it with the enciphoris key KE (n,e) (→ cp(n) : (p-1)(n-1) Each wer computes d = e mod (A (n) La vising the enclideur also than Kp (n, a) is kept secret The enciphering function is Zn -> Zn x -> x mod a

