(ROA ALGO) Public Key Conypto System (00) eucaAbfjau Enceyption = public key Decoyption = Polivate key He will see next now to encrypt and decrypt the made Algo devenute grande source by de approx equal size 2) N= P*9 compate compute $\phi(n)$ Euler totient func p(n) = (p-1) X (0-1) Euler totient: - p(10) peroduct

4) CHOOSE INTEGESTIE, IXEXP(N) SUCH THAT gcd (E, p(N)) =1

5) COMPUTE D, IXDX E, SUCH THAT EXD = 1 (mod p(n))

6) The public key 13 (NIE) & parivage key in (N,D) P(N)

$$a = b \pmod{1} = \frac{a}{n} = \frac{b}{n}$$

signature (a,n) = tem (b,n)

$$a = b \pmod{1} = 3$$

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$$a = b \pmod{1} = 3$$

$$a = b \pmod{1}$$

$$b = a = 3$$

$$a = b \pmod{1}$$

$$c = a \pmod{1}$$

$$c = a = 3$$

$$d = a =$$

2

3

(1)

(5)

Encoypt