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# Agenda >	
$\rightarrow \omega_{CD}$	
-> Euclidean fermula - proof	
p of	
TC to brood ?	
-> alph leaching	
TC to proof ? -> applications -> Binet's fromula -> Problem Solving	
- problem solving	

Introduction To Number Theory

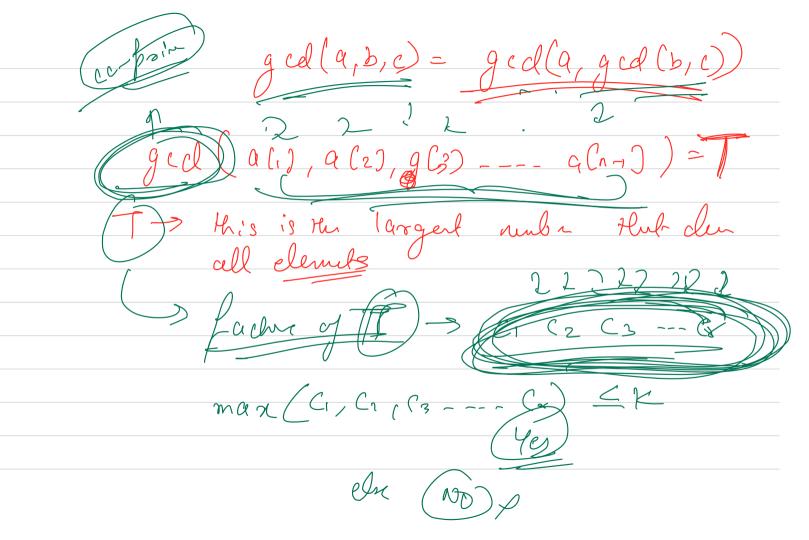
l'expusit
-> Basic looks
Basic loops Slementay Maths Basic Recursis
J Basic Recursit

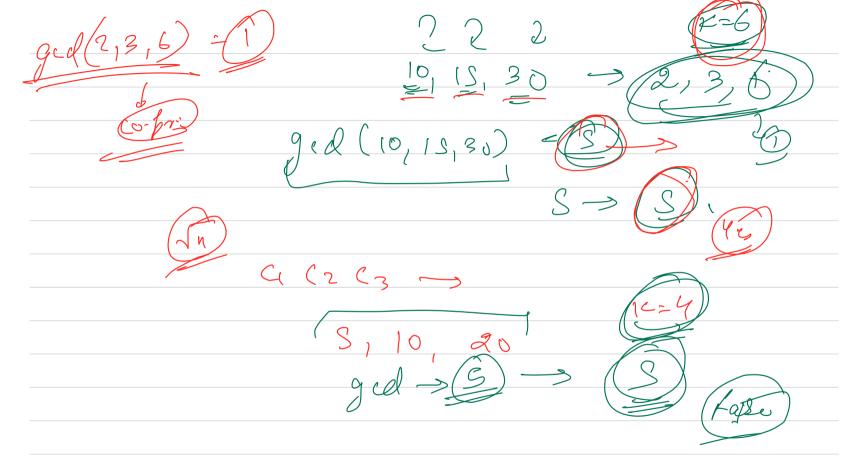
= greatest common divisor / MCF we all know in elementary maths how are Cole 2 n = 2 hours of prim 3 Common

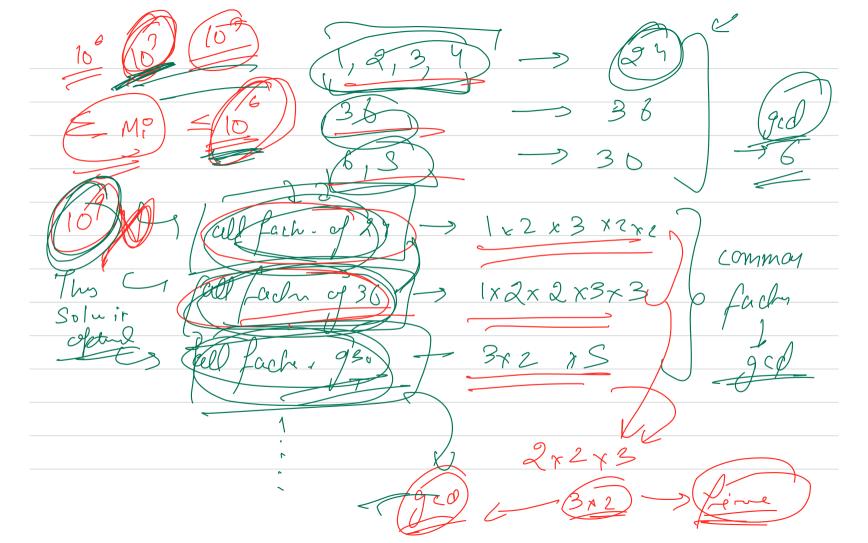
m = 6 Common

Time Complenets (1) + 1/m +

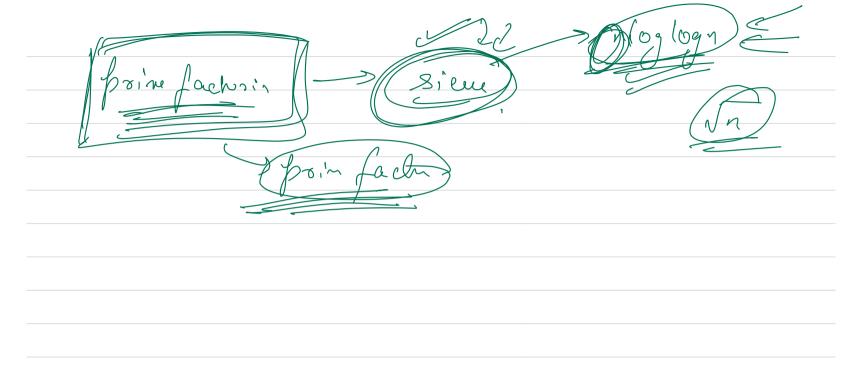
Z = 109







03,9210, 9493,92 ang Model arm



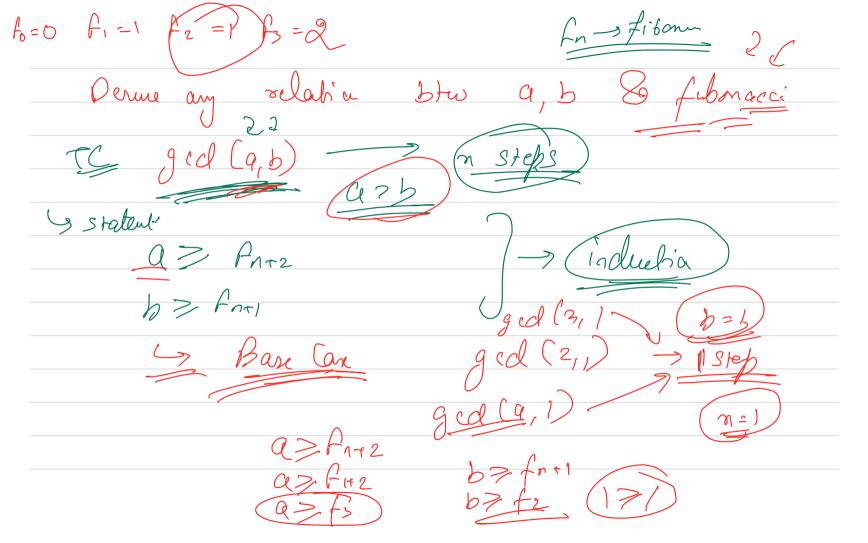
any Suggestion gcd (a, b) Can ru unte any velation believe a & b

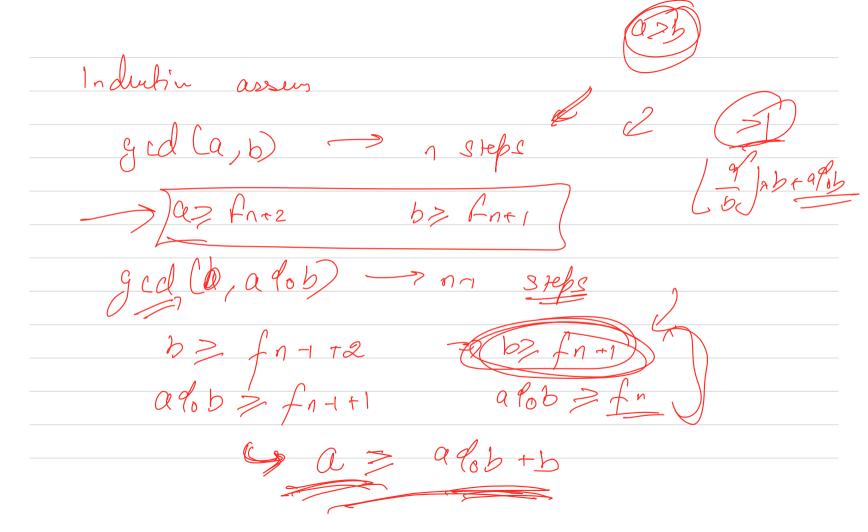
recursue relation what does @ 90b repreents ?? -> remainder

(ub) -3 renaid 1 = gcd(b, a dob) « Euclidalgo Thersue modular inverse Extended ceuclio Innen diophantine eg n

) = gcd (16, return 9 if b==0

92 ouclid galgo ibenaci!





Cleas ?? in f fn+) for or min (qb)

$$2 \frac{q \cdot d \cdot rah \cdot c}{x^2 - x - 1} = 0$$

$$7 \frac{2}{70015} \Rightarrow -b + \sqrt{b^2 - 49c}$$

$$= 2a$$

$$= 2a$$

$$x^2 - x - 1 = 0$$

$$x^2 = x + 1$$

$$x^3 = x + x^2 = x(x + 1)$$

$$x^3 = x^2 + x$$

$$x^3 = 2x + 1$$

$$\lambda = \frac{1 \pm \sqrt{S}}{2} \qquad \lambda = \frac{1 \pm \sqrt{S}}{2} \qquad \beta = \frac{1 - \sqrt{S}}{2}$$

$$\lambda' = \int_{0}^{1} \alpha + \int_{0}^{1} \alpha +$$

2 fn ~ pn Bireks a 7