Sieve Prim 10. -> ex tended elina diob Co modulo arethulic La jaccoss modulo Lo Lermal theorem Ly well son theore CRT > mo6./4v. formally feet

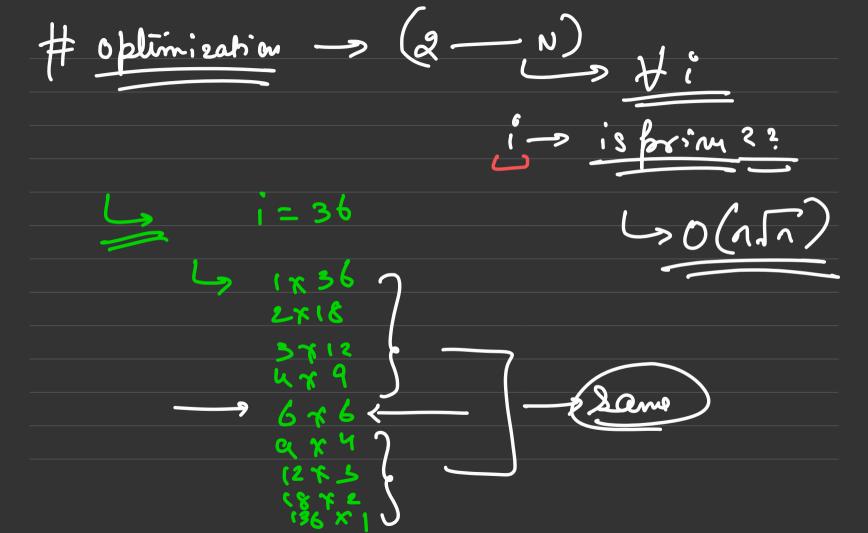
Lo Poine no. -> Numbers dunsibly by 1 & its H Crever a reember N, print all primes less than N: EL > N=10 - [2,3,5,7] outefore

(2 - N)

Fi if i is fraim

or not

stj



It fundamental theorem of auithmetic any rumber (except i) van be represented as foroduct of fouver of primes. $\chi = \beta_1^a * \beta_2^b * \beta_3^c \cdots - \cdots$ ∑bi ∈ {primno.3]

a,b,c → whole no. X26-7 2 x5 X=12 -> 2 R3

Prim Sieur (ERATOSTHENSS)

Based on the fact that composite runders are deuseble by prin, en (30(n) 78pa0 - Eitset)
0123456759101112 XXTTFTFFFTFTFTFTFTF 1 + 1 + 1 + 1 -----

Lirst n no.'s H Density of krimino. > Hof brim Total no.'s. y = Tot Six.

of points less than x

T(2) \$\frac{1}{2} \frac{1}{2ln \frac{1}{2}} > KH Brim ~ Klak

TC-Tin

n / Inn dic Lonx [Ink)]z n Edndn (fin) - dndne n x (dndn (n) - dndndnn)

n x (dndn (n) - dndndnn) 3 0 (n/n(dn(1)) - xi

6789101112131415161718 MINKIC9 (2/3,5,7,11,13,17,19)

