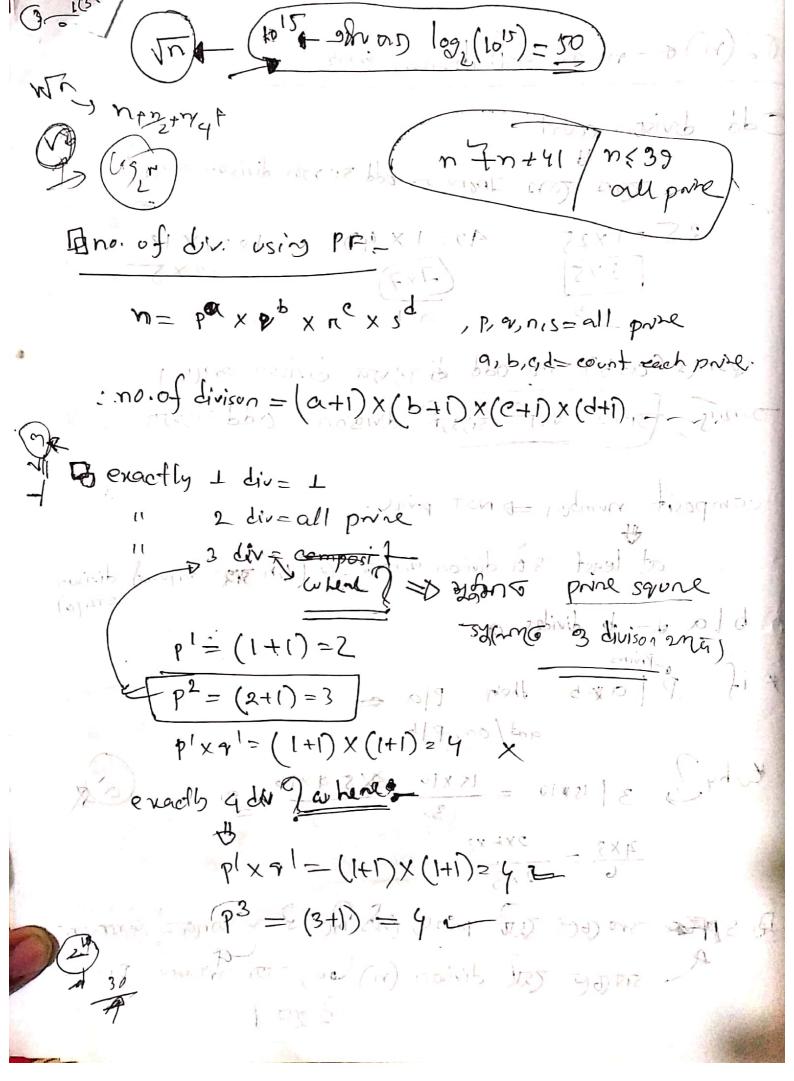
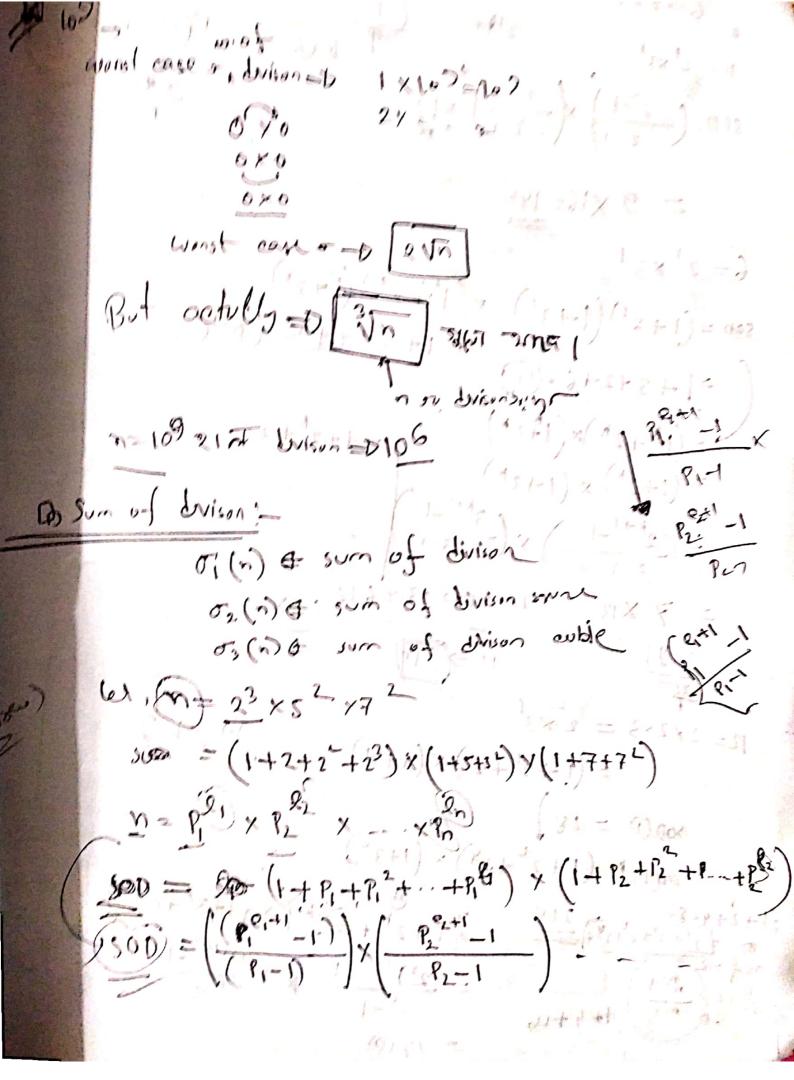
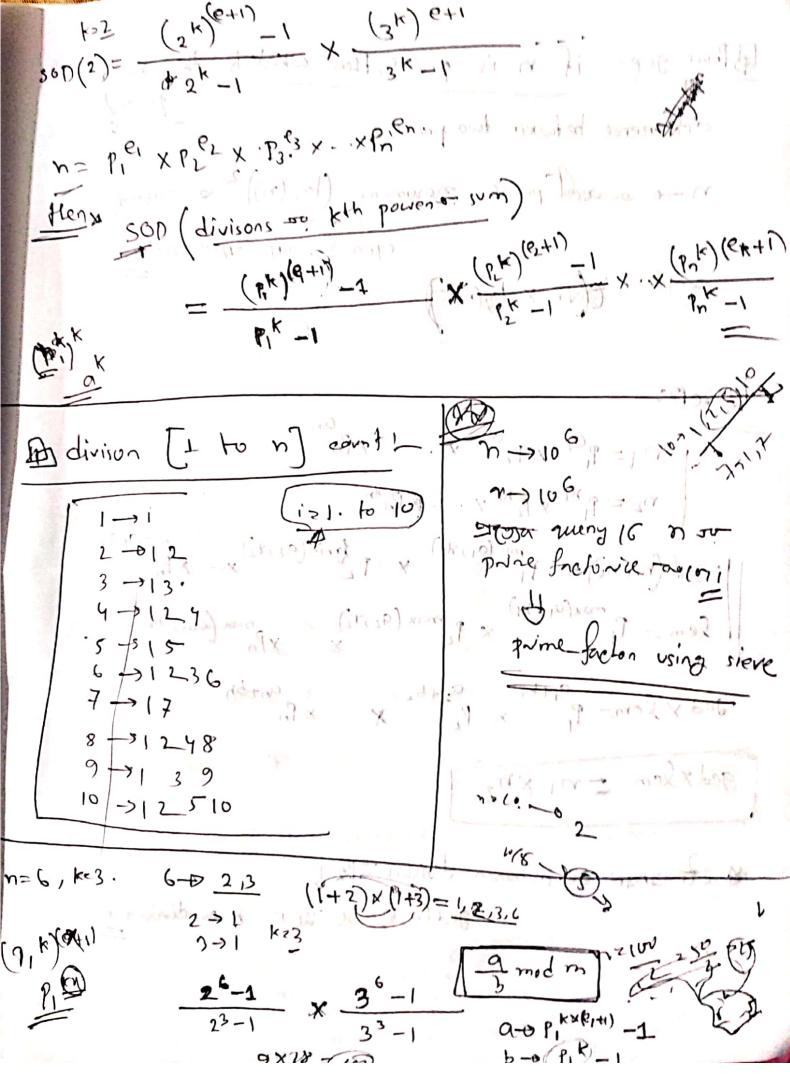
(2) (2) on as - sh girison comp) 3 Odd disson count Law weign with pro - white was and (7×7) Towns (a=b) sie odd printe gricon out 1 my from ast sisse fine from odd 2 me be officers & composit number = NOT prine. at least 3th divison armine 26 (1,n 3) smooth divisor or bla divides a. s=11+1)+1 Plans thon Pla on (1-2) and on plb of x (1=1) thy? 3 | 15x10 = 15x10 3X5 0x10 = 50 $\frac{24\times3}{6} = \frac{2\times2\times3}{2\times3}(1+1)\times(1+1)\times(1+1)$ Bo State suche: L'al bine; (N) (n) (20) - as sumi bine



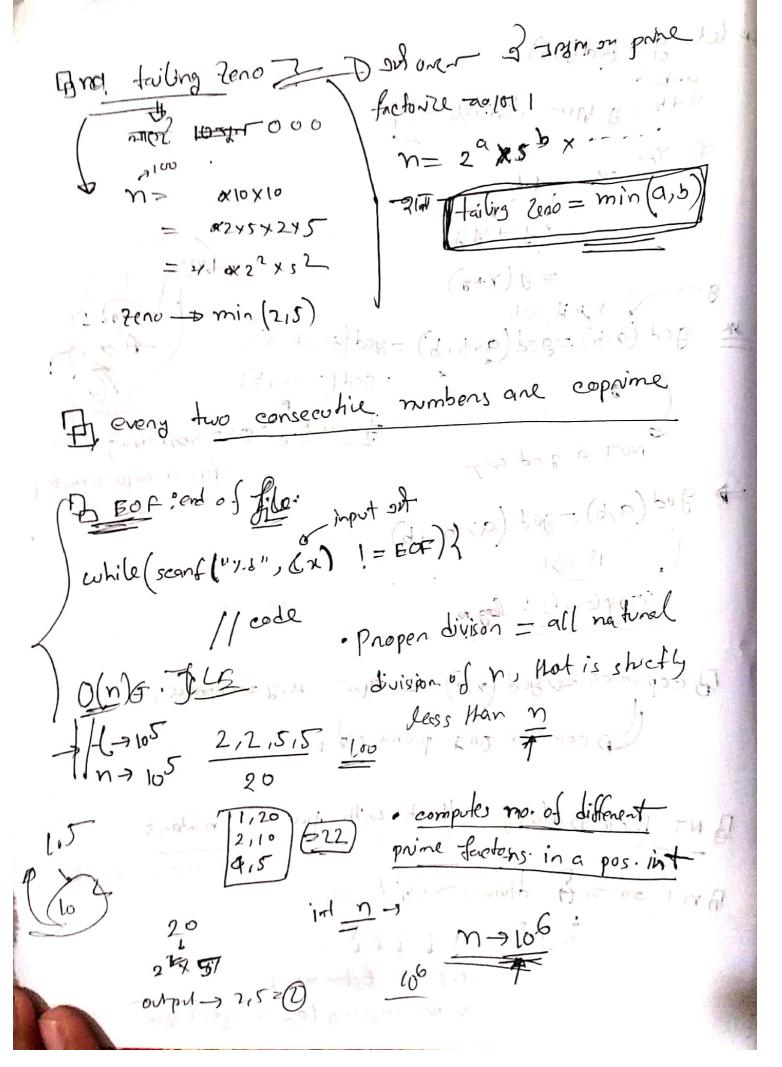




Prine gap'- if n is prine, Hen what is the north différence between two prints n - o ou audot prine, maximum (log (n)) 2 vo onzientz complex of the x log(n)?) $P_{1} = P_{1}^{\alpha_{1}} \times P_{2}^{\alpha_{2}} \times \dots \times P_{n}^{\alpha_{n}}$ $P_{2} = P_{1}^{\alpha_{1}} \times P_{2}^{\alpha_{2}} \times \dots \times P_{n}^{\alpha_{n}}$ $P_{2} = P_{1}^{\alpha_{1}} \times P_{2}^{\alpha_{2}} \times \dots \times P_{n}^{\alpha_{n}}$ $P_{2} = P_{1}^{\alpha_{1}} \times P_{2}^{\alpha_{2}} \times \dots \times P_{n}^{\alpha_{n}}$ $P_{2} = P_{1}^{\alpha_{1}} \times P_{2}^{\alpha_{2}} \times \dots \times P_{n}^{\alpha_{n}}$ $P_{2} = P_{1}^{\alpha_{1}} \times P_{2}^{\alpha_{2}} \times \dots \times P_{n}^{\alpha_{n}}$ $P_{2} = P_{1}^{\alpha_{1}} \times P_{2}^{\alpha_{2}} \times \dots \times P_{n}^{\alpha_{n}}$ $P_{2} = P_{1}^{\alpha_{1}} \times P_{2}^{\alpha_{2}} \times \dots \times P_{n}^{\alpha_{n}}$ $P_{2} = P_{1}^{\alpha_{1}} \times P_{2}^{\alpha_{2}} \times \dots \times P_{n}^{\alpha_{n}}$ $P_{2} = P_{1}^{\alpha_{1}} \times P_{2}^{\alpha_{2}} \times \dots \times P_{n}^{\alpha_{n}}$ $P_{3} = P_{1}^{\alpha_{1}} \times P_{2}^{\alpha_{2}} \times \dots \times P_{n}^{\alpha_{n}}$ $P_{4} = P_{1}^{\alpha_{1}} \times P_{2}^{\alpha_{2}} \times \dots \times P_{n}^{\alpha_{n}}$ $P_{4} = P_{1}^{\alpha_{1}} \times P_{2}^{\alpha_{2}} \times \dots \times P_{n}^{\alpha_{n}}$ $P_{4} = P_{1}^{\alpha_{1}} \times P_{2}^{\alpha_{2}} \times \dots \times P_{n}^{\alpha_{n}}$ $P_{4} = P_{1}^{\alpha_{1}} \times P_{2}^{\alpha_{2}} \times \dots \times P_{n}^{\alpha_{n}}$ $P_{4} = P_{1}^{\alpha_{1}} \times P_{2}^{\alpha_{2}} \times \dots \times P_{n}^{\alpha_{n}}$ $P_{5} = P_{1}^{\alpha_{1}} \times P_{2}^{\alpha_{2}} \times \dots \times P_{n}^{\alpha_{n}}$ $P_{5} = P_{1}^{\alpha_{1}} \times P_{2}^{\alpha_{2}} \times \dots \times P_{n}^{\alpha_{n}}$ $P_{5} = P_{1}^{\alpha_{1}} \times P_{2}^{\alpha_{2}} \times \dots \times P_{n}^{\alpha_{n}}$ $P_{5} = P_{1}^{\alpha_{1}} \times P_{2}^{\alpha_{2}} \times \dots \times P_{n}^{\alpha_{n}}$ $P_{5} = P_{1}^{\alpha_{1}} \times P_{2}^{\alpha_{2}} \times \dots \times P_{n}^{\alpha_{n}}$ $P_{5} = P_{1}^{\alpha_{1}} \times P_{2}^{\alpha_{2}} \times \dots \times P_{n}^{\alpha_{n}}$ $P_{5} = P_{1}^{\alpha_{1}} \times P_{2}^{\alpha_{2}} \times \dots \times P_{n}^{\alpha_{n}}$ $P_{5} = P_{1}^{\alpha_{1}} \times P_{2}^{\alpha_{2}} \times \dots \times P_{n}^{\alpha_{n}}$ $P_{5} = P_{1}^{\alpha_{1}} \times P_{2}^{\alpha_{2}} \times \dots \times P_{n}^{\alpha_{n}}$ $P_{5} = P_{1}^{\alpha_{1}} \times P_{2}^{\alpha_{2}} \times \dots \times P_{n}^{\alpha_{n}}$ $P_{7} = P_{1}^{\alpha_{1}} \times P_{2}^{\alpha_{1}} \times \dots \times P_{n}^{\alpha_{n}} \times P_{n}^{\alpha_{n}} \times \dots \times P_{n}^{\alpha_{n}} \times \dots \times P_{n}^{\alpha_{n}} \times P_{n}^{\alpha_{n}} \times \dots \times P_{n}^{\alpha$ ged x lem= P, x Pz x-. xPn 6 2 18 - 6 gcd x lem = n1 x n2 ged (9,6)= x 2(I N or divison 1

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** (el, g = acd (a,b). ato, g tri- divisible 29 = Yes 1 = a+b =x8+A8 1000 = 8 (x+8) 1 DH 605 gcd (a,b) = gcd (a-b,b) = gcd (a-2b,b) = gcd (a-3b, b) for 22 00 (2 swalp) → ged (a,b) = ged (a,b,b) -! (a) complex 4: log N B coprimes = ogcd (x, d)=1 3(x x, d = coprint, Common Toux prime (12) [] NT hack = Dalways think with primes motors An 1 so ser divison sony 72105 - 17 3 45 = Dprine factor no 1 20 Men smales => (8/41) x (8/41) >76



$$| \frac{1}{3} + \frac{1}{2} | \frac{1}{3} | \frac{$$