

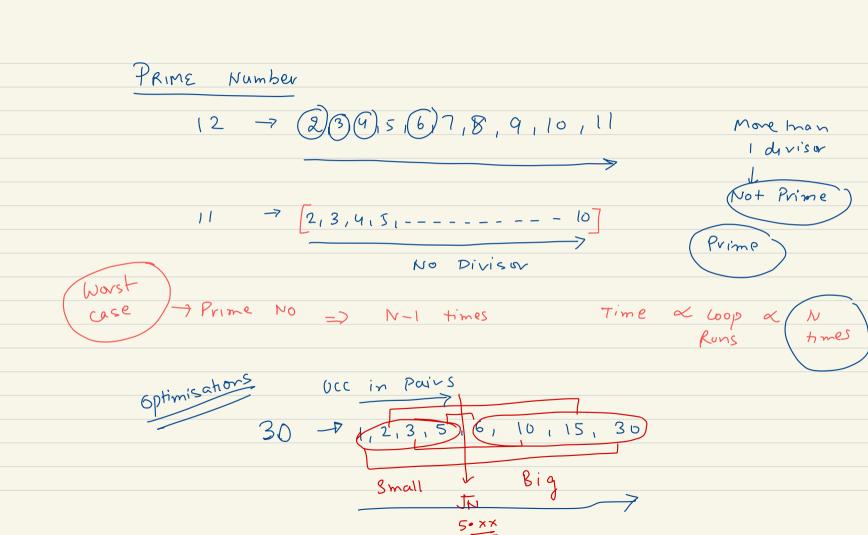


for Test Problems (Prateck) · Solutions / Extra class O Intermediate Batch - wednesday (Problem Solving Introduction)
Monday (OFF) Maths Prime Numbers

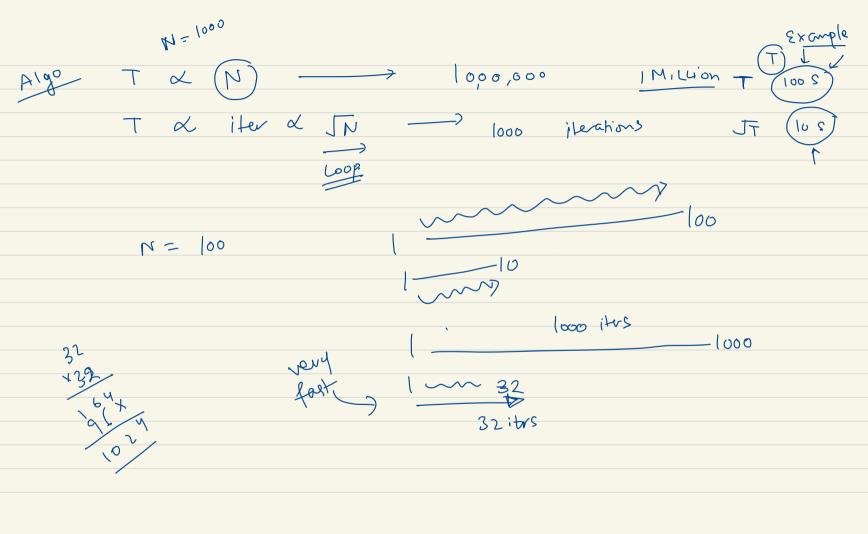
i, N/i => Divisors

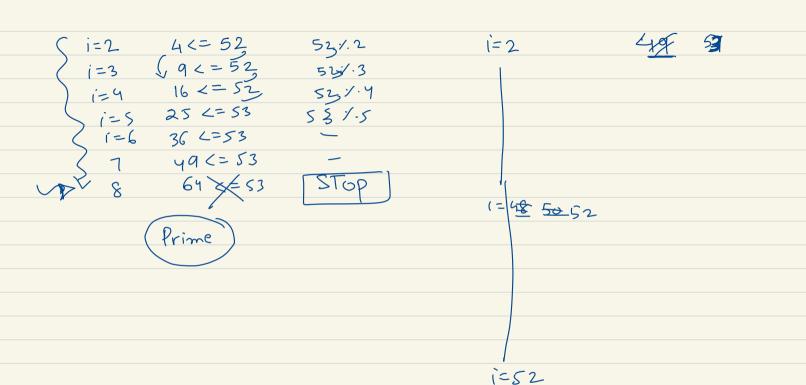
Divisors (Print) i, N/i => Divisors

GCD (ophmised approach) Euclid's Algo (V) LA P&C Fibonacu Series. Ly Log Function
Ly Math Class (inbuit methods)



X 36 = 36 2 × 18 × 12 X 6 12,18,36





 $\rightarrow (1)(2)(3)(4)(5)(6), 7, 8, 9, 10, 11, (2)$ N iterations, for (int = 1; 1<= N; 1++) { $\frac{12}{1} = 12$ if (N/1 = = 0){ Sum = Sum + 1 JN , Some a lot of 6+1+12 + 2+6 + 3 + 4 for (1=1; i<= In; i++){ 36 if (No/of) Sumt > Perfect square i== IN 3 La Add it me

$$S_{0} = \frac{N}{2} \left(2a + (n-1)d \right)$$

$$S_{0} = \frac{6}{2} \left(2x5 + (5)4 \right)$$

$$= 3(10+20) = 90$$

a=5,9,13,17---

$$=)$$
 80 $=$ 20 $+$ 3 d

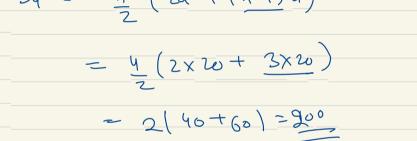
$$= 1 \quad d = 3d$$

$$= 1 \quad d = 20$$

$$= 1 \quad d = 20$$

$$S_4 = \frac{h}{2} \left(2a + (n-1)d \right)$$

$$= \frac{4}{2} \left(2 \times 20 + 3 \times 20 \right)$$



$$S_{n} = \frac{n}{2} \left[2a + (n-1)d \right]$$

$$= \frac{n}{2} \left[a + a + (n-1)d \right]$$

$$= \underbrace{n}_{2} \left[\alpha + \alpha_{n} \right]$$

$$(20)_{-} - - - - (80)$$

$$S_{y} = \frac{y}{2}(2v + 80)$$

String Builder & String Concatenation Time Complexit 0 = 5ar ar ar

$$A \left(\begin{array}{c} 1 - 1 \\ \hline \\ 1 - 1 \end{array} \right)$$

$$S_{5} = \begin{array}{c} 2 \times 1 \\ 5 \times 5 \end{array} = \begin{array}{c} 2 \times 5 \\ \hline \end{array}$$

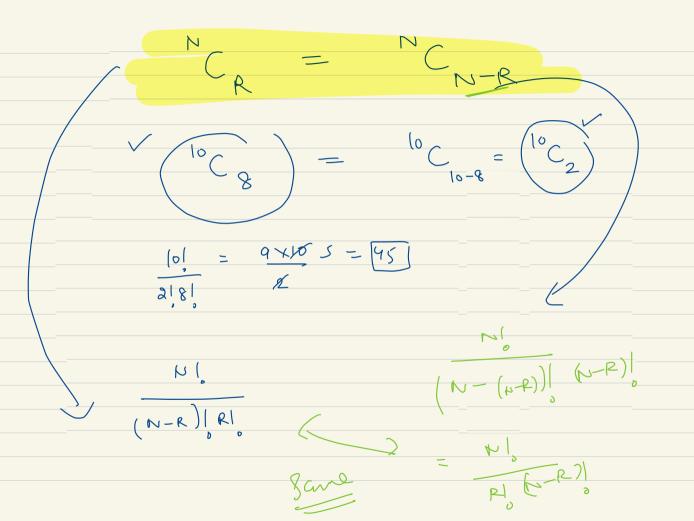
 $S_5 = 5(1-2^5)$

5 (131)

(1-2)

Break (0.35 -Tola LY

$$\frac{N}{R} = \frac{N!}{(N-R)!} R$$

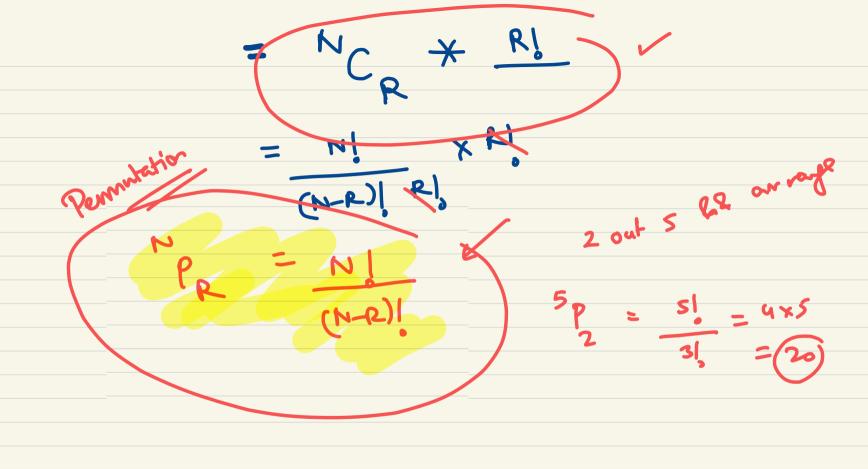


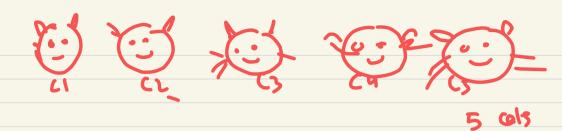
13, A

13 choose CVC CID BIC D, E 45 B,D A,D B, 2 + 2 + 1= 10 ways => 21 ways. Fruits Arvangement

A
$$(M,G)$$
 $M(A,G)$ $G(A,M)$
A (G,M) $M(G,A)$ $G(M,A)$
2 2 2
3 \times 21 = 6 ways
 $G(G,A)$ $G(M,A)$ $G(M,A)$

Cap Voc Choose 2 out 5 X arrange them notes no of ways of pickip R objects out of Nohject and owaging them



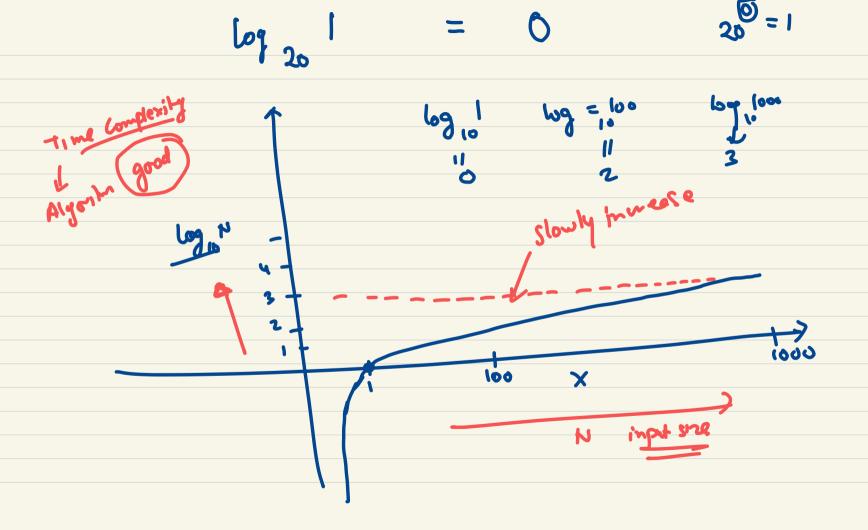


$$\log_{1000} = 3$$

$$\log_{100} 625 = 4$$

$$\log_{100} 2 \log_{100} = 6.000$$

$$\log_{100} 2 \log_{100} = 6.000$$



109 es 2.78

Common Base
In CS

