	Keshav Seksonia	
	11T BHU MNC	2.5 ye crs
	World Ouant LLC	
	Google, bonglore SWF	
	Azo schibmedal	Advanced DSA
	2-2,5 month	4-4.5 month
Prime Numbe	· 1	
1 3,, 6 104, 30	,	
	N = J	N = 1
	I & itsug.	No of Jectore = 2.
		9 (10,000 -
N = 17	N = 16	
	fount no el factors	
	== 3	
N=10	•	
0.10		
	l → N	
	123456785 JJXXJXXX	3 10 no: 4

```
for( int i=1 ; i<=N ; i++)</pre>
          11 check if i is a jactor
           14 ( N % ; = = 0)
                     cnt++
         1 + ( cn + = = 2 )
                 print ("Prime")
        else
                print (" Not Prime")
              10 iterations -> | second
N = 10
           = | Sec
N = 10 9
             = losec
                      lo crore pen = 1 Rs
                       100 (2002 pcn) = 10 Rs.
lopen = 1 As 10 iteration = 1 Sec
  | Pen
                1 iteration - 1 sec
```

18

N = 10

10 iteration -> 1 sec

1 iteration = 108 sec

18
10 it viction -3 (18) × 10

= 10 second

317 years

You -> Kids -> grandchids -> Kid -> 5th gen

$$\frac{27}{3} = 8 \qquad \frac{27}{3} = 3$$

$$\frac{27}{2} = 12$$

N=24 24 2

1 = 1	24	N	<del>2</del> 21	
J 2	12			
1 2 3	8	J'= 1	21	
`z Y	6	1= 3	7	_
i = 6	4	1= 7	3	
8	3	d': 2)	(	
12	2,			
2 4				
	•	i <= N	a * N a	= <b>N</b> ,
		3	1	
		j* j <= N	factor factor	)
		(jxj) <sub>mqx</sub> = N		
		(i) = JN	Q <=57	
			Ca) max s	
			N=16	
	Lak	cnt = 0	( = î	16
	,,,,	(1) ( - 0	J: 2	8
			J= Y	4
	tor(i=1	; i <= To ; i + 1)	J- 9	
	<i>-</i> '		1=16	
			4-70	

```
cot = cot + 3
                  If ( i * i = = N) Cot --
                                         Cnt= 2
                                         CAGEY
    1+ ( mt==2)
                                        CAE = &
                Prot ("Proc")
                                            5
   USL
               print ( "Not Poine")
No g iteration = TN
  10
             No 4 17 = 10
N = 10
                 10 sturbon -> 15cc
                   1 1+
                 10 1+
                              _ = 0.001 Secong
                              103
N = 10
             No 03 Horation = 10
                          1 410 = losec.
```

Cord gauss

$$S = 1+2+3+...$$
 $S = 100+99+98+...$ 
 $S = 100+101+101$ 
 $S = 100 \times 101$ 
 $S = 100 \times 101$ 

$$Q = 6$$

**^** 

## ans = (log N) integer port

<b>,</b>	Given	q	p eyect	square.	Find	Squane	not g
	G	iren	nymbus	•		₹ <i>x</i>	2 = Y
						3×3	- <b>9</b>
N=	43		an:7			4x4	- 16
N:	BI		an= 9			5 <sub>×</sub> 5 ÷	= 25
						6×6	3 6
						7×7	9
							64
	JN		> [ ' ]	NJ			81
							100
							12/
							144
	Int	ع	igrt (10	± <i>∾)</i>			(
		for	( j= 1 )	i s N	1++)		
	Q		14 C 1	* i = = N)	nhi	n 1	
	•	7	, ,				

N = 49 j=1Sart(N)

0'= 2	Jog N X
1= 3	
Y = 1	
<b>2</b> =£	
√ = <b>6</b>	
) = <b>7</b>	
N = 10	40 0 001 000
N=1018	t= 0.001 sec
NEIG	t= losec
N=100	√ = 50
[1, 100]	50×50 > 100
	123 49 50 51 100
[,49]	25 × 25 > 100
	123,24 25 26 49
C1,24]	12 x12 >100
[1,11]	

6×6 < 100 12 ... 45678 ... 1) [7,11] 929 < 100 7 8 9 10 11 (10,11) 10×10 = = 100 N N/2 itation = 77/4

