

La No. of Jactohs  La Poime numbers  La Sum of N natural no.s  La Squit  La
ls Sum of N natural no-s
0) 2011 6 14 1(200000 10-3
the state of the s
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MALOODROD
HAW AIGORICO



```
Q) Count no of Jactors
               Lo Given a number N, Point the count of Jactors.
                  N=24 -> 1 2 3 4 6 8 12 243 -> 8
                  N = 36 -> (1 2 3 4 6 9 12 18 363 -> 9
                                              By foca
                                                1 Sec = 108 iteration
             P S V main () {
               Scanner Scn = new Scanner (System.in)
                                                 No. of iterations: N
                 int n= sch. nend Int();
iteration court
                   ind Counds 0;
                                                    103 iterations
                for (int 1=1; ix=N; 1++) }
                      ( ( N % i = = 0) }
                                              108 iterations = 1 Sec
                                               1 iteration: 108 Sec
    N=1018 -> Secondy?
                                               1 1 109 = 1 108 Sec
          b No. of iteration = 1018
      108 iterations: 1 sec
                                                        = 10 Sec
         1 iteration: 1 sec
          10 18 iteration: 1 x 10 = 10 sec
           10 bec = 317 years --- 10 sec
            you -> child -> grandchild -> 3 and -> 4 m -> 5 m gen
```



## 11 optimize

N: 24	N	= 36
j = */r	P	A/9
1 < 24 +2	1 4	36 12
2 < 12 +2	2 <	18 42
3 < 8 +2 i <= N/°	2 <	12 42
4 6 12 12 KIN	24	9 +2
6 > 4 1 CN	6 =	= 6 +1
8 > 3	9	4
	12	3
24 > 1	18	2
	<b>ુ</b> ક	



### //Pduedo code

	int count=0;
	for (int i=1; inic=N; i+)
No. of iteration	if (Ny. i:=0) 4
No. of iteration	if (i== N/i) 1 Count = Count +1; 3 else 1 Count = Count +2; 3
	else of Count : Count +2; }
	2
19	
	3 Seturn Count;
	76tum Cunty
	2

N = 24		N=24		
	Co	unt=0		~/1
for (int i=1 ; itich; it+)	•	CKILN	mri iam	Court
if (N% i = = 0) {  Count = Count +2;		+	+	2
3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 -	2	+	+	4
13	3	t	+	6
3	4	+	+	8
	5	b Cy emit		



# N= 36

int Countso;	Co	ent=0			N
os (int i=1) inten; i++){	i	îx îz:N	Mri	1:= N/1	Court
if (1== N/i) ( count = count +1) }	J	4		1	23
if (1== N/i) & Court = Court +1; } else & Court = Court +2; }	2			b	
3	3	+	+		432
	<u> </u>	+	4	1	6,
	4	+	ŧ	1	83
	5	+	1	V	
	,	,	V,	_	9-
	b	<del></del>		<u> </u>	
		G enit			
In iterations		o <sup>8</sup> iteration			
<b>+</b>		1;	kation	= 108	RC
N=1018					
		<b>(</b> 0)	9 iteration	m: 1	وما بر
No. of iterations:	[10 <sup>18</sup> - 11 <sup>9</sup>			/0	8
The of the carriers in the carrier in the carriers in the carrier	710 2 10			• •	
				- 10	Seci



braine number N, Check if the number is a Reno.  Prime numbers = Count of factors == 2  booken is Prime (int N) \ = true = N is Prime  int Count = 0;  for (int i=1; init=n; i++) \  if (N': i == 0) \ if (1== N/i) \ Count = Count +1  else \ Count = Count +2;  3  if (count == 2) \ return true; \}  else \ return false; \}	a) Poime	numhers	
Prime numbers => Count of factors =: 2  booken is Prime (int n) \ = true => n is Prime  int Count = 0;  for (int i=1; it <= n; i++) \  if (ny: i == 0) \  if (i== n/i) \ Count = Count +1  else \ Count = Count +2;  3  if (count == 2) \ return true = 3  else \ return false; 3			Bi
boolean is poince (int n) { -> true >> n is poince  int count=0;    for (int i=1; iti<=n; i++) {    if (ny. i == 0) {    iteration     (i== n/i)   (count = count +1)      else { Count = Count +2;    3     (count == 2) { return towers }    else { return folle; }	ho.		
boolean is Poince (int n) { -> true >> n is Poince  int Count=0;    for (int i=1; iti<=n; i++) {    if (N. i == 0) {    if (i== N/i) { Count = Count +1    else { Count = Count +2;    3    Count == 2) { return towes }    else { return folse; }		Poince numbers > Count of Loctors::2	
int count=0;    for (int i=1; iti=n; it+) \   if (N'':=0) \      iteration   if (i=N/i) \  Count = Count +1    else \  Count = Count +2;    3     (count = 2) \  return towes \  3     else \  return towes \  3     else \  return towes \  3     else \  return towes \  3		of the state of th	_
int count=0;    for (int i=1; iti=n; it+) \   if (N'':=0) \      iteration   if (i=N/i) \  Count = Count +1    else \  Count = Count +2;    3     (count = 2) \  return towes \  3     else \  return towes \  3     else \  return towes \  3     else \  return towes \  3		booken is Prime (int n) { spale > n is no	) <b>3</b> 7 -
if (count = 2) { return toue; }  if (count = 2) { return toue; }  else { return false; }		int Count = 0;	
if (count = 2) { return toue; }  if (count = 2) { return toue; }  else { return false; }		for (int i=1 ; itic=N; i+)	
else ( Count = Count + 3  else ( Count = Count + 2)  if ( Count = = 2) ( return torney 3  else ( return false) 3	No. of iteration	if (Ny. i = = o) 4	
if (count = = 2) { return towers }  - else { return false; }	in iteration		ιj
if (count = = 2) { return towers}  else { return false;}		else ( Count : Count +23	
if (count = = 2) { return tours }  else { return false; }	0		
if (count = = 2) { return toueg } else { return false; }		3	
else 1 return false; 3		if (count = = 2) { return tours}	
3		else ( vertion false; 3	
		3	





ريا	0+1+2++(4-1)
	1)
	1+2+3+ + N-1 = (N-1)+ (N-1)
	= (n-) = n
Sum	of 13th whole numbers = Sum of field (N-
	natural ne
<u> </u>	Bolak tiv 9:40pm
	Alappran
	AIGULIUU



	just smaller or equal integer	
En!	7.4 -> 7	
	8.9 → 8	
	100.01 -> 100	
	90 → 90	
	20.99 -> 20	
	3 → <i>3</i>	

# Math. floor (num): Prepared to the first of the first of



Ceil (num) ->	ust greater or equal integer
En: 7	1.4 -> 8
	8.9 → 9
	100.01 -> Jo1
	90 -> 90
	20.99 -> 21
	3 -> 3

# math. Ceil (num)



```
a) Given N, return floor (squt(N))
                       → 7..... → 7
            en: N:60
                N:31 -> S.x -> 5
                 N = 29 -> S.y -> 5
                 N=16 -> 4.0 -> 4
                   Moor (50) = 5 -> 5#5 = 25
                                    6*6 = 36
                                    7*7 = 49
                                    8+8 = 64 22
   >Cu eni) trop2
tní
                                 N=60
       int are=19
                                  1+1<=N
                                            ONEL
       ind 1= 13
       while (ixica) {
         ars:ij
          1++;
       deturn ars;
 3
                             8
Gro. of iteration & si
```

by you didn't come this for only to come this jars.