$$aco(a,b)$$

$$= aco(b\%a,a)$$

$$f(5) = f(4) \times 5$$

$$f(n) = f(n-1) \times n$$

=
$$GCD(\alpha_{x}(b_{x},b_{x},b_{x}))$$
= $GCD(\alpha_{x}(b_{x},b_{x}),b_{x})$
= $GCD(\alpha_{x}(b_{x},b_{x}),b_{x})$
= $GCD(\alpha_{x}(b_{x},b_{x}),b_{x})$
= $GCD(\alpha_{x}(b_{x},b_{x}),b_{x})$
= $GCD(\alpha_{x}(b_{x},b_{x}),b_{x})$

$$20 \rightarrow 1, 2, 4, 5, 10, 20 \rightarrow 6$$

$$20 \rightarrow 1, 2, 4, 5, 6, 10$$
 15, 30 $\rightarrow 8$ 30 $\rightarrow 1, 2, 3, 5, 6, 10$ 16, 30 $\rightarrow 8$

$$a \times b = GeD(a,b) \times LCM(ab)$$

 $\Rightarrow Lem(a,b) = \frac{ab}{GeD(ab)}$

15 weeks
$$\longrightarrow$$
 Bonus 13 = LUMY IXU, 4)

4 weeks \longrightarrow Bonus C

8 16 24 32 40 48 56 64 72 80 ...

R 15 30 45 60 75 90 ...

Lem (dA, dB, do)

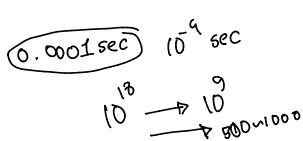
B da

C dc

Divisor Finding

 $N \rightarrow 24 = 1$
 $233 \rightarrow 12$
 $233 \rightarrow 12$
 $3, \times 8$
 4
 $233 \rightarrow 6$
 4×6
 3×8
 4×6
 4×6

$$N=10^9 \rightarrow \sqrt{N}=10^4$$



0 = 100 100

28 nm (

Primality Testing

//= |x //

[2,N-] x

[2/JN]] [2,3]

マ= レブ

1(= 1,1)

 $11 \rightarrow 2.3 \dots 10$ $11 \rightarrow 3$

hashCode()

19 digit