

~~A~~ LCM

12
6

a	b
12	6
24	12
36	18
48	24
60	30
72	36
84	42
96	48
108	54
120	60

36	60
72	120
108	180
144	240
180	300

$$\text{LCM}(a,b) = \frac{(a \times b)}{\text{gcd}(a,b)}$$

~~A~~ number system

- ↳ Decimal → Binary
- ↳ Binary → Decimal
- ↳ Binary → 2 - [0, 1]
- ↳ decimal → 10 - [0, 9]
- ↳ Octal → 8 - [0, 7]

2	39	-1
2	19	-1
2	9	-1
2	4	-0
2	2	-0
2	1	-1

(0)

100111 ✓

$$1 \times 10^5 + 0 \times 10^4 + 0 \times 10^3 + 1 \times 10^2 + 1 \times 10^1 + 1 \times 10^0$$

$$100000 + 0 + 0 + 100 + 10 + 1$$

100000
100
10
1

100111

sum = 0x44111

10011

mul = ~~1~~ * 100 10000 sum = 0 * 111
 n = ~~3~~ * 10 * 8 * 4 * 7 * 0

```
while(n > 0) {
  rem = n % 2
  sum = sum + rem * mul
  n = n / 2
  mul = mul * 10
}
```

cout << sum

101

0 + 1 * 1
 1 + 1 * 10 = 11
 11 + 1 * 100 = 111
 111 + 0 * 1000 = 111
 111 + 0 * 10000 = 111
 111 + 1 * 100000 = 111000

octal = 8

div number	rem	val
8 10	10011	1 * 2 ⁰ = 1
10 10011	1 * 2 ¹ = 2	
10 1001	1 * 2 ² = 4	
10 100	0 * 2 ³ = 0	
10 10	0 * 2 ⁴ = 0	
10 1	1 * 2 ⁵ = 32	
0		39