

$$(233)_{10} = 2 \times 100 + 3 \times 10 + 3$$

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

权重

$$(233)_7 = 2 \times 7^2 + 3 \times 7^1 + 3 \times 7^0$$

pow(1, 2)

$$= 2 \times 49 + 3 \times 7 + 3 \times 1$$

char - '0'

$$= 122 = (122)_{10}$$

char - 'A' + 10

$$2 \times 10^2 + 3 \times 10^1 + 3 \times 10^0 = 122$$

$$n \rightarrow 10$$

$$\begin{array}{r} x-1 \\ 1 \\ 7 \end{array} 2 \quad \begin{array}{r} 1 \\ 7 \end{array} 1 \quad \begin{array}{r} 1 \\ 7 \end{array} 0$$

$$\underbrace{10 \rightarrow m}$$

$$m=2$$

$$10 \rightarrow 2$$

2	23	
2	11	11
2	5	1
2	2	1
2	1	0
	0	1

$$\begin{array}{r} 1011 \\ \hline \end{array}$$

$$2 \rightarrow 10$$

$$168421$$

$$16+4+2+1=23$$

$$\begin{array}{r} \text{start} \\ 7 \end{array} \begin{array}{r} 122 \\ 17 \end{array}$$

$$\begin{array}{r} 3 \\ 3 \\ 3 \end{array}$$

$$\underbrace{110 \rightarrow m}$$

1 2

2 1

a[cnt] | cnt=0

0 0 (6)

cnt++ 1 操作 ✓
a[cnt] = ~ 2 停止 ✓
3 结果 ✓

122 % 7 = 3

122 / 7 = 17

17 % 7 = 3

17 / 7 = 2

2 % 7 = 2

2 / 7 = 0

cnt-1
a[cnt] -> a[0]

- ①:
- ②:
- ③:
- ④:
- ⑤:
- ⑥:

-25000 -16

7FB8

-tb | -25006 8
1b | 13

$$\begin{array}{r}
 -10 \\
 -16 \\
 +6 \\
 0
 \end{array}$$

$$-15 \quad -2 \quad 110001$$

$$\begin{array}{r}
 -2 \quad | \quad -15 \\
 -2 \quad | \\
 -2 \quad | \\
 -2 \quad | \\
 -2 \quad | \\
 0
 \end{array}
 \begin{array}{c}
 1 \\
 0 \\
 0 \\
 0 \\
 1 \\
 1
 \end{array}$$

$$-15 = -2 \times 7 - 1$$

$$15 = 2 \times 7 + 1$$

$$-15 = -2 \times 8 + 1$$

$$n \quad 12$$

$$n \% 12$$

$$12 = 2$$

$$10$$

$$\begin{array}{l}
 n \\
 -15 / -2 = 7 \\
 R \\
 -15 \% -2 = -1 \\
 n \quad R
 \end{array}$$

$$\begin{array}{l}
 -15 = -2 \times (7) + (-1) \\
 \text{+1} \quad \text{-12} \\
 \text{+1} \quad \text{-2} \\
 -15 = -2 \times (8) + 1
 \end{array}$$

```

while (n) {
    ans[cnt] = n % 12
    cnt++
    n /= 12
    if (n % 12 < 0)
        ans[cnt] -= 12
    n++
}

```

10 → 12

$$\begin{array}{r}
 \begin{array}{l}
 \rightarrow 2 \overline{) -12} \\
 \rightarrow 2 \overline{) 8} \\
 \rightarrow 2 \overline{) -4} \\
 \rightarrow 2 \overline{) 2} \\
 \rightarrow 2 \overline{) -1} \\
 \rightarrow 2 \overline{) 1}
 \end{array}
 \begin{array}{l}
 1 \\
 0 \\
 0 \\
 0 \\
 1 \\
 1
 \end{array}
 \end{array}$$

整数

因数(约数)

$$6 \div 2 = 3 \dots 0$$

↑
整数

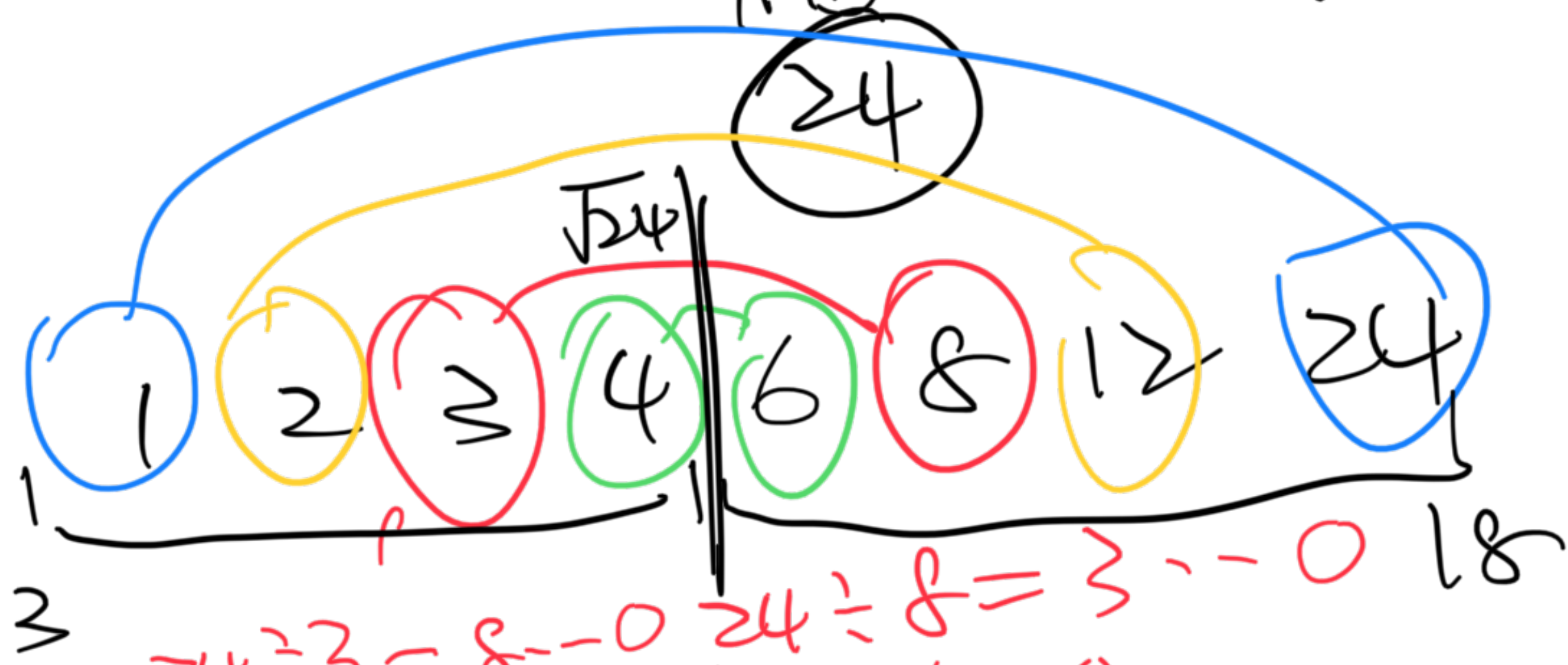
2 是 6 的因数

1, 2, 3, 6 是 6 的因数

质数

质数: 只有 1 和 自己 两个正因数

合数: 除 1 和 自己 外 有其他正因数
不是质数的大于 1 的正数



$24 \div 3 = 8 \dots 0$ $24 \div 8 = 3 \dots 0$

$3 \times 8 = 24$

$\sqrt{24} \times \sqrt{24} = 24$

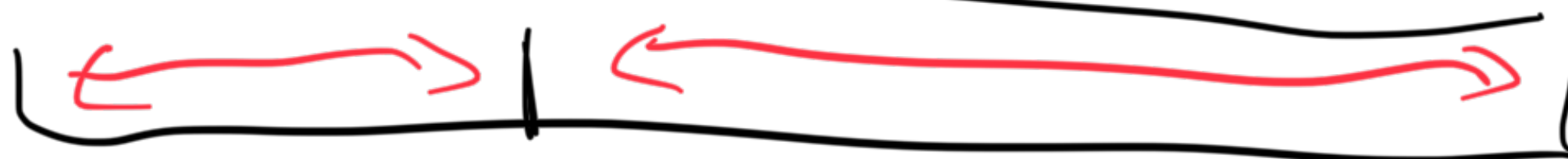
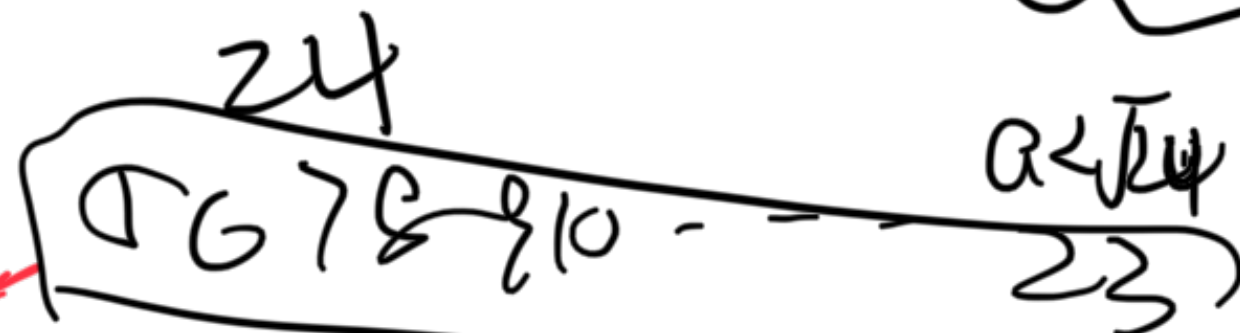


$$(a \times b) = 24$$



$$a < \sqrt{24} \quad b > \sqrt{24}$$

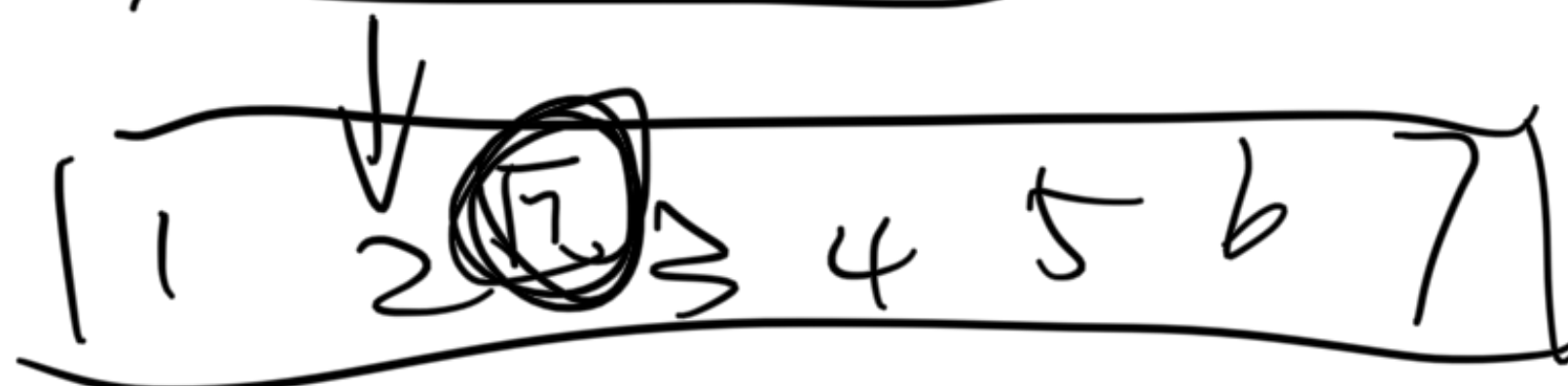
4



$\sqrt{24}$



1



↑ ↑ ↑ ↑ ↑



2-6

5



$a(n)$

2 ~ n-1 是不是因数

\log $O(\sqrt{n})$ \hookrightarrow $\sim \sqrt{n}$ \Downarrow

是不是因数

\sim $O(\sqrt{n})$