

$$\sum_{i=1}^n d \times \left\lfloor \frac{n}{d} \right\rfloor \quad \sqrt{n}$$

$$\left\lfloor \frac{n}{d} \right\rfloor = \frac{n}{d} - \frac{n \% d}{d}$$

$$\sum_{i=1}^n d \times \left(\frac{n}{d} - \frac{n \% d}{d} \right) = \sum_{i=1}^n (n - n \% d)$$

$$= \sum_{i=1}^n n - \sum_{i=1}^n (n \% d)$$

$$= n^2 - \sum_{i=1}^n (n \% d)$$

$$\frac{n(n+1)}{2} - \frac{n(n-1)}{2}$$

$$n, n-1, n-2$$

$$\frac{n \times (n+1)}{2}$$

$$11 \quad 10^{24}$$

$$4, 5$$

$$i=1 \quad \frac{n}{4/3}$$

$$\frac{10}{4} = 2 \quad \frac{10}{2} = 5$$

$$\frac{3}{4} \quad \frac{10}{4} = 2$$

$$\frac{1}{2} \quad \frac{10}{2} = 5$$

$$\frac{1}{5} \quad \frac{10}{5} = 2$$

$$10$$

$$1 \rightarrow \sqrt{n} \quad \sqrt{n}$$

$$\left\lfloor \frac{n}{d} \right\rfloor \quad 2\sqrt{n}$$

$$n$$

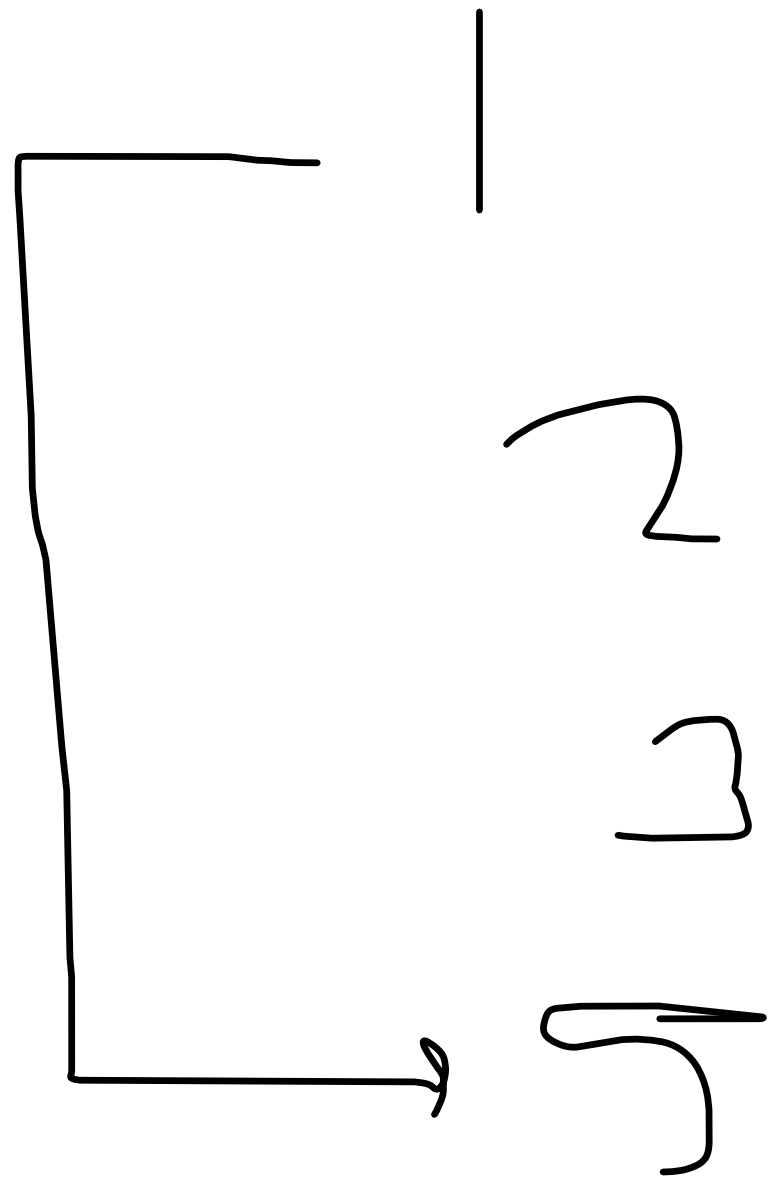
$$\begin{array}{c|c} 30 & 2 \\ 15 & 3 \\ 10 & 4 \\ 5 & 5 \end{array} \quad \frac{10}{d}$$

$$\left\lfloor \sqrt{n} \right\rfloor + \sqrt{n}$$

$$2\sqrt{n}$$

$$2, \frac{30}{2} \sqrt{h} \quad 30$$

$$\frac{1}{2}$$



$$30$$

$$15$$

$$10$$

$$6$$

$$2, \frac{30}{2} \sqrt{h} \quad 30$$

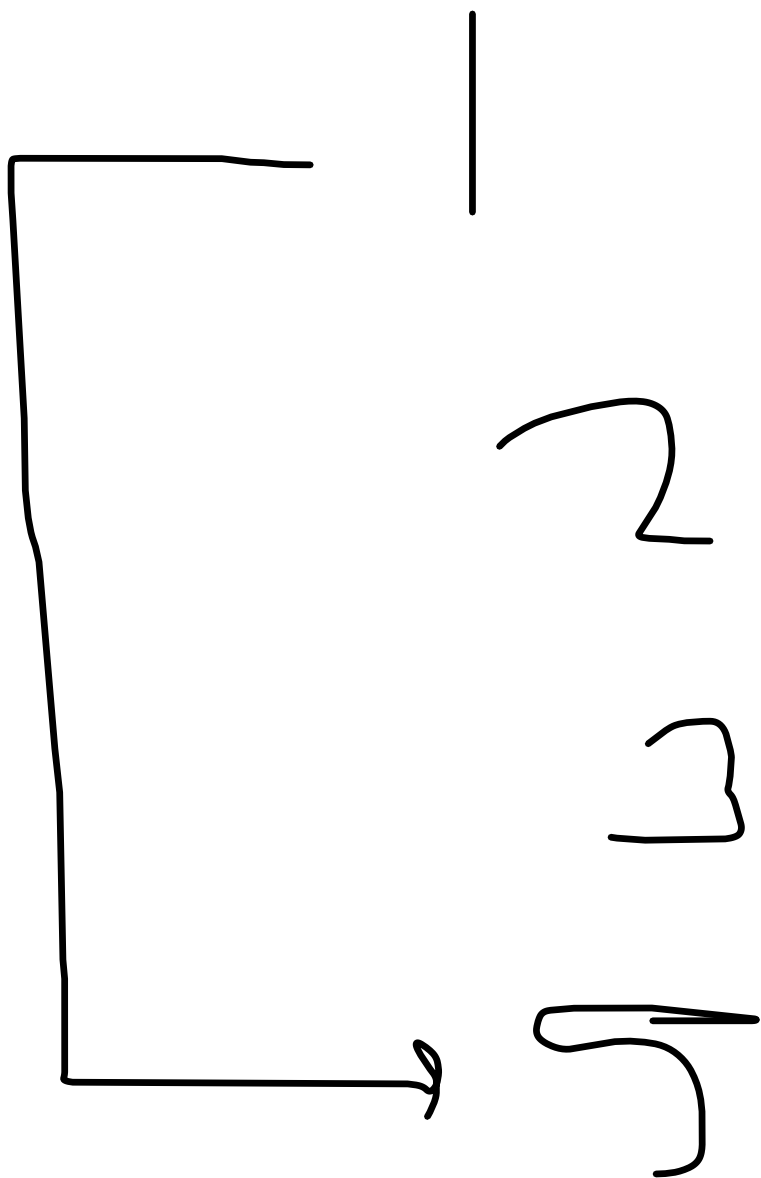
$$\frac{1}{2}$$

$$30$$

$$15$$

$$10$$

$$6$$



$$2, \frac{30}{2} \quad \sqrt{h} \quad 30$$

$$\frac{1}{2}$$

