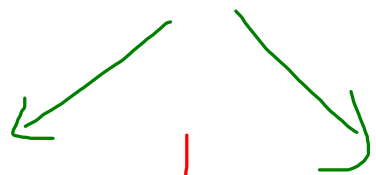


2932



934

2

932

92

23

9

223

29

23

1005



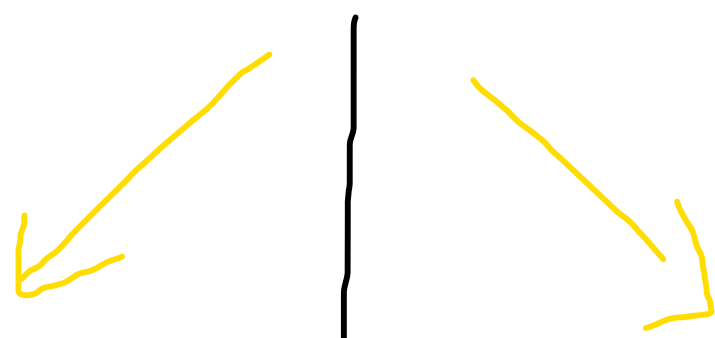
100

5

10

05

↓  
293      2



2      3

2      9

—

—

—

—

↑

↑

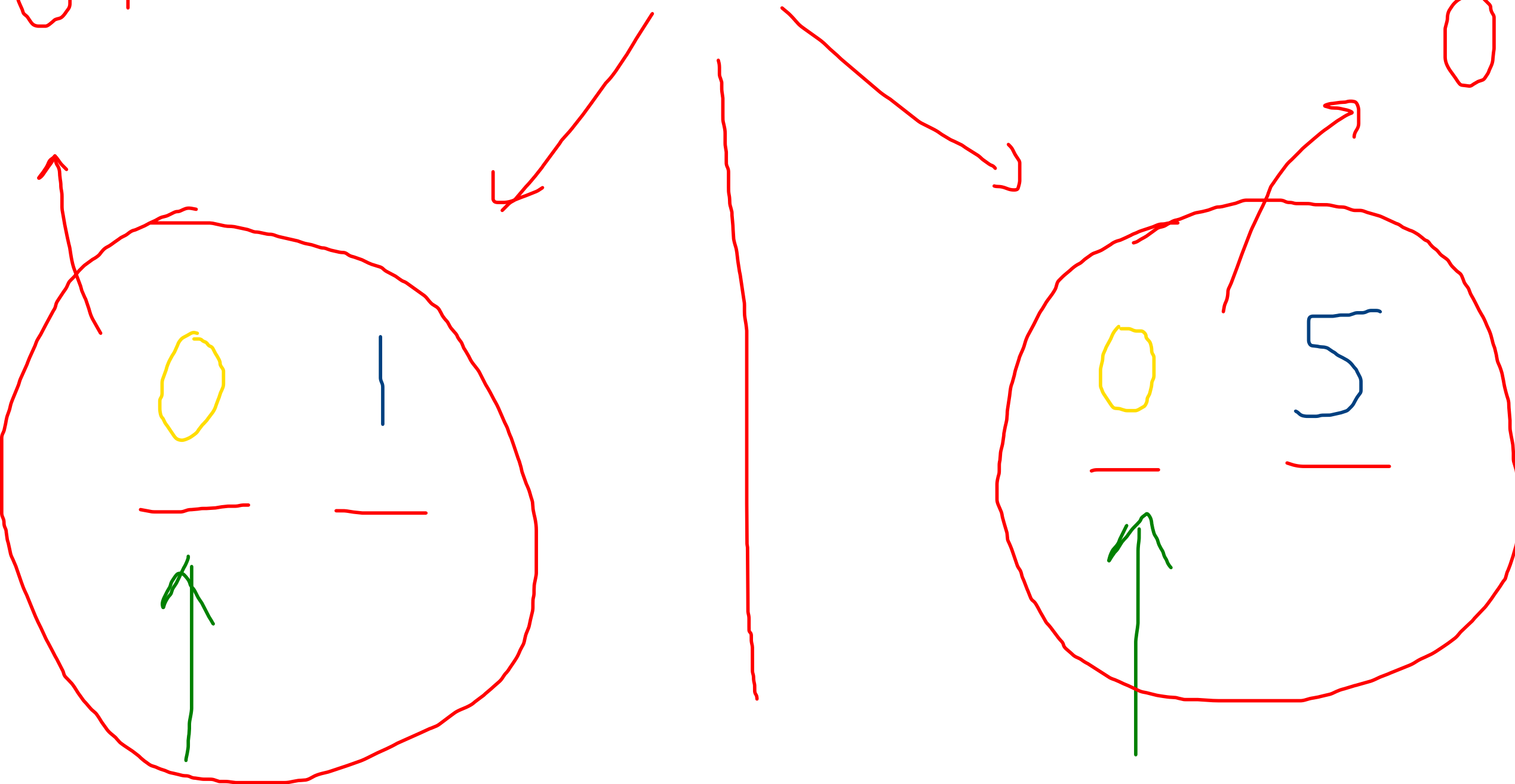
↑

↑

1 0 0 5

0 1

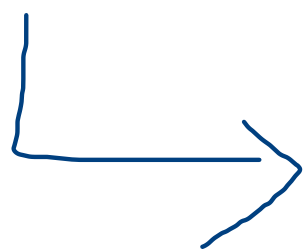
0 5



1005

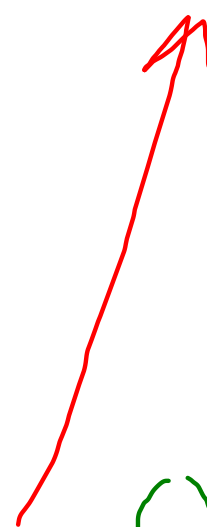
$\% 10 \rightarrow$  last digit

$/ 10 \rightarrow$  remove digit



1	0	0	5
---	---	---	---

0, 0, 1, 5

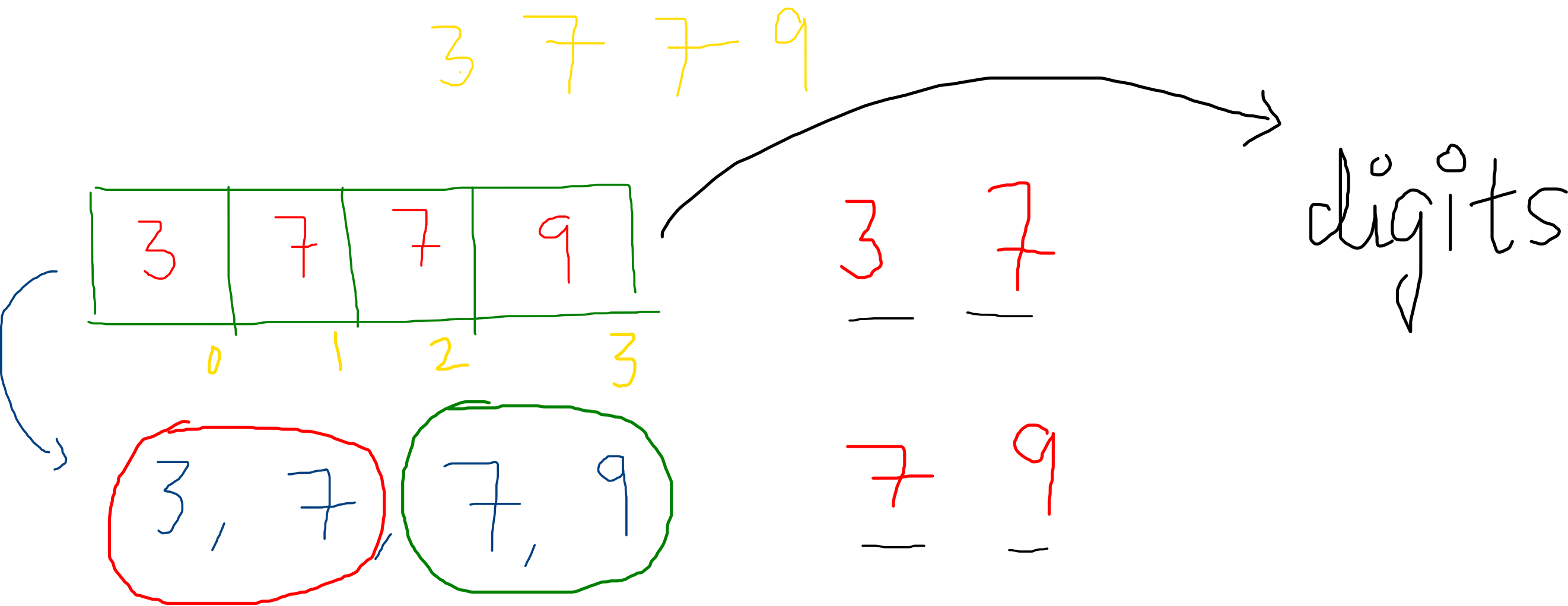


0

1

0

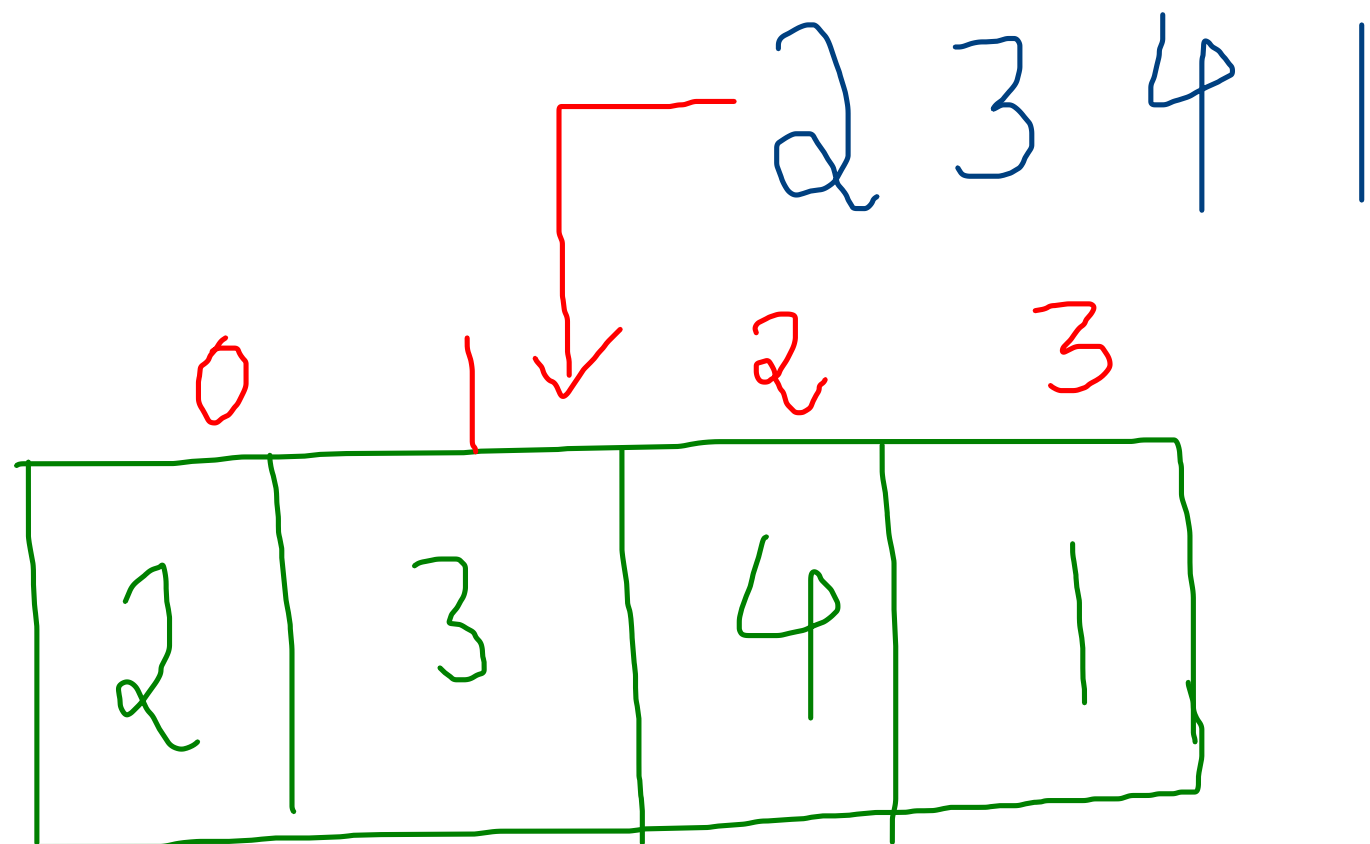
5



FirstNumber = digits[0] \* 10 + digits[2]

SecondNumber = digits[1] \* 10 + digits[3]

Sum = FirstNumber + SecondNumber



1 3

---

2 4

---

3 7

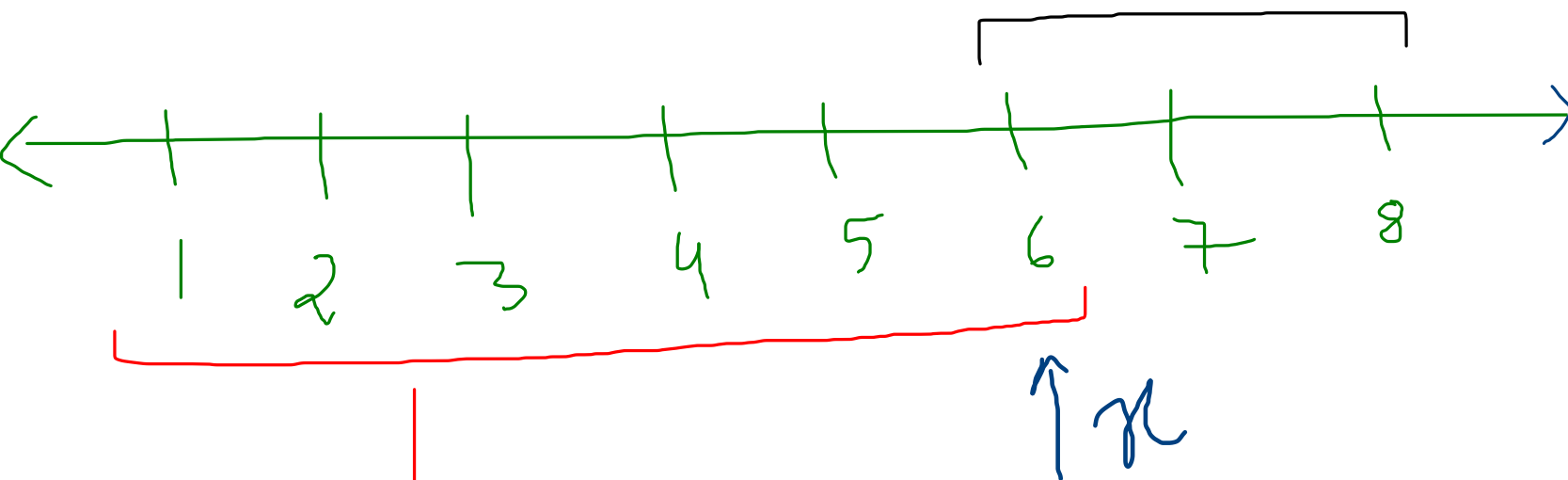
$$1 + 2 + 3 + \dots + n =$$

$$\underline{\underline{n = 8}}$$

$$n + n + 1 + n + 2 + \dots + n$$

$$1 + 2 + 3 + \dots + n = n + \dots + 8$$

$$(6+7+8) \quad 21 \quad \leftarrow$$

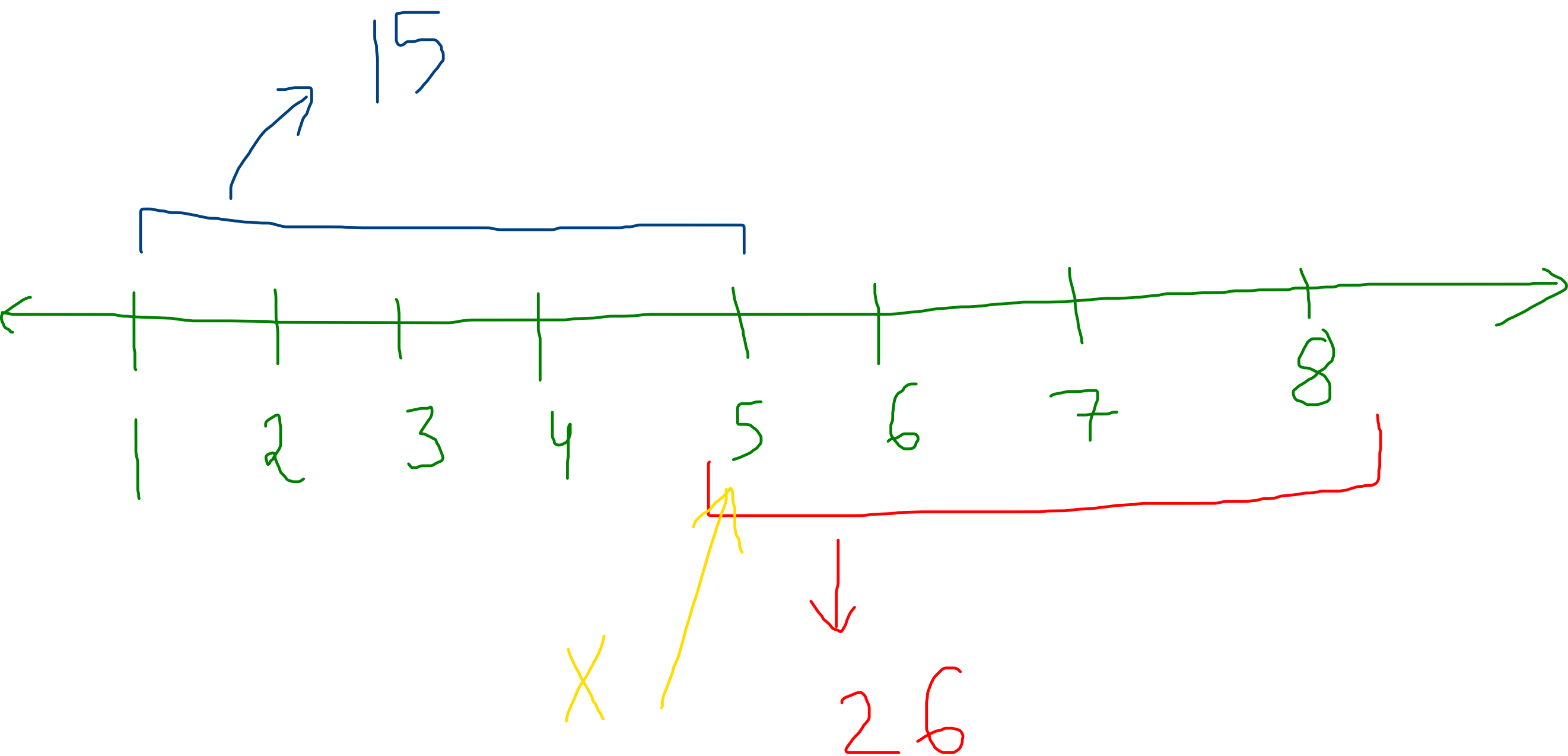


$$21(1+2+3+4+5+6)$$

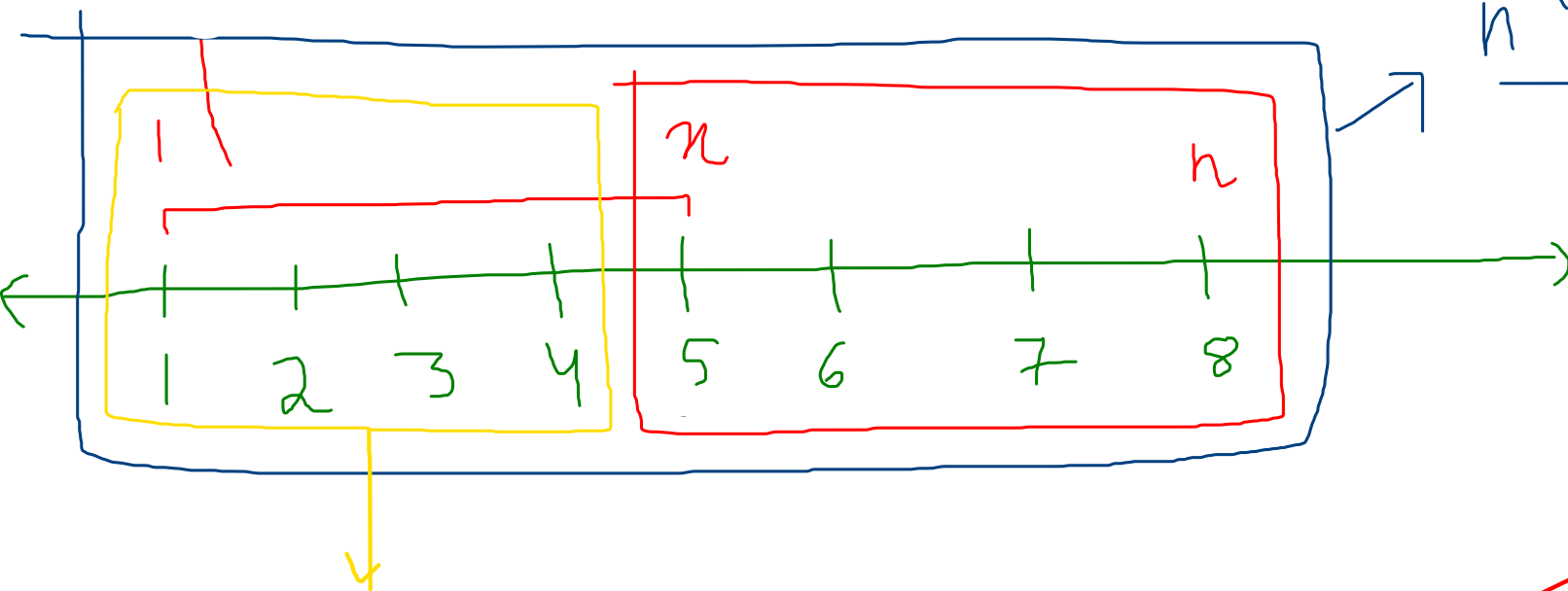
$$\frac{n*(n+1)}{2}$$

$$(1+2+3 \dots n) = \underbrace{n + n+1 \dots n}_{\text{blue bracket}}$$





- Sum from 1 to  $x$  = Sum from  $x$  to  $n$
- Sum from 1 to  $x \rightarrow x*(x+1)/2$
- Sum from  $x$  to  $n \rightarrow n*(n+1)/2 - x*(x-1)/2$

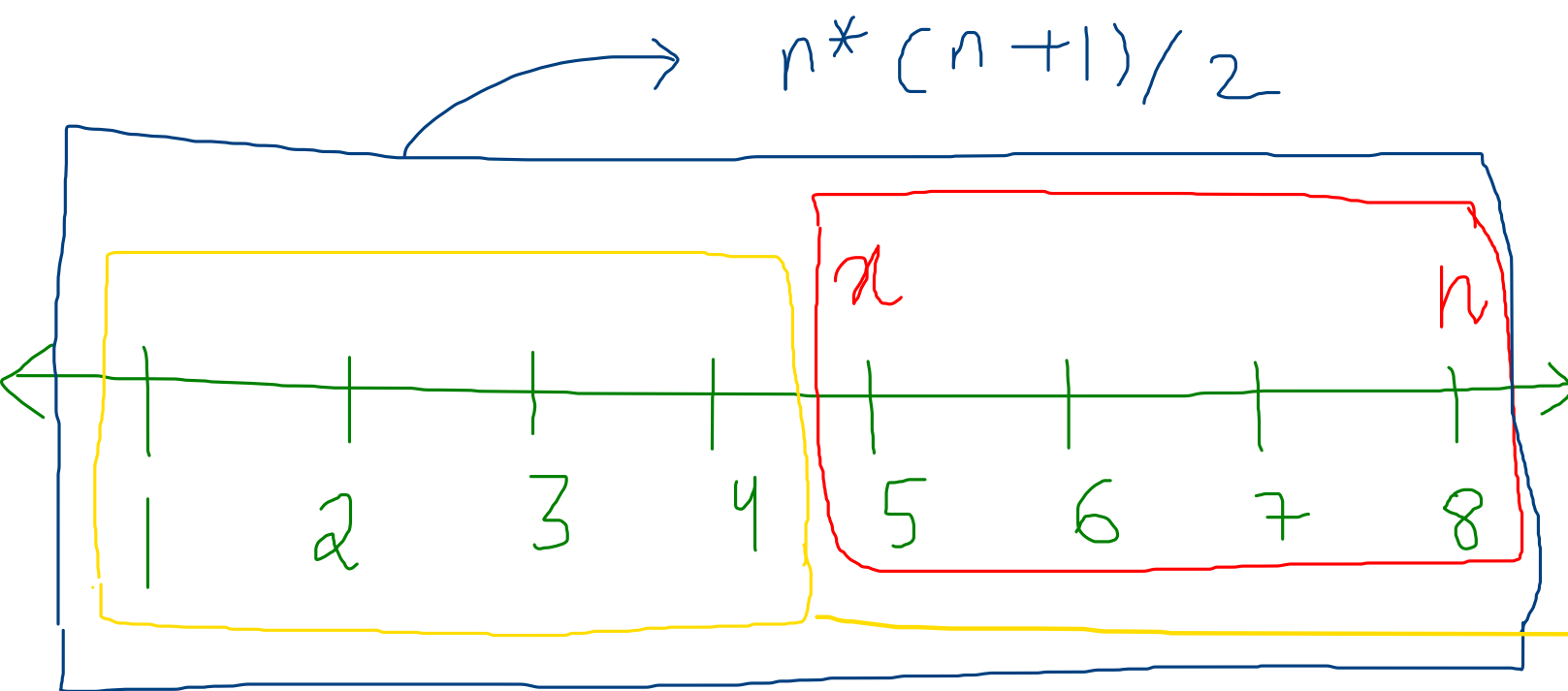


$$\frac{n*(n+1)}{2}$$

$$\frac{n-1 * n}{2}$$

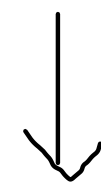
Sum from 1 to  $n-1$

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



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

$$| \quad \quad \quad n-1 |$$



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

Blue - yellow  $\rightarrow$  Red

↓

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

↓

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

- Sum from 1 to  $x \rightarrow x^*(x+1)/2$

- Sum from  $x$  to  $n \rightarrow n*(n+1)/2 - x*(x-1)/2$

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

$$x^2 + x = n^2 + n - (x^2 - x)$$

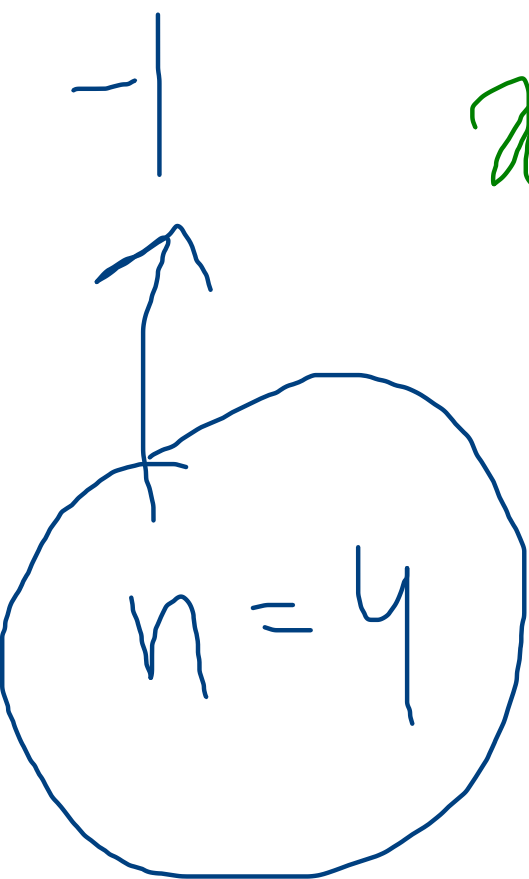
$$\cancel{x^2 + x} = n^2 + n - \cancel{x^2 + x}$$

$$2x^2 = n^2 + n$$

$$x = \sqrt{\frac{n^2 + n}{2}}$$

$$n = 8$$

$$x = \sqrt{\frac{64 + 8}{2}}$$



$x =$

$$\sqrt{\frac{n^2 + n}{2}}$$

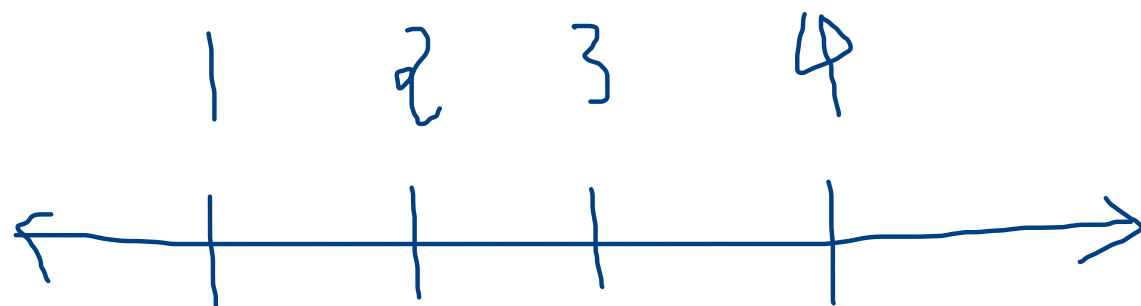
$=$

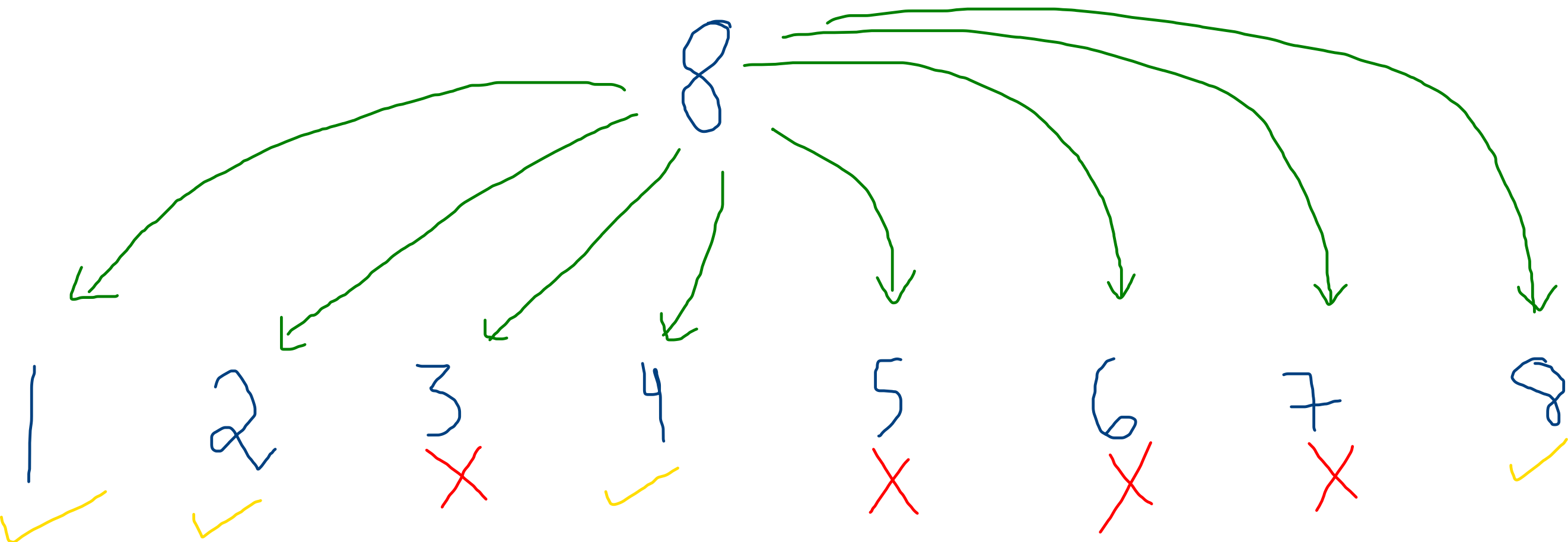
$$\sqrt{\left(\frac{16 + 4}{2}\right)}$$



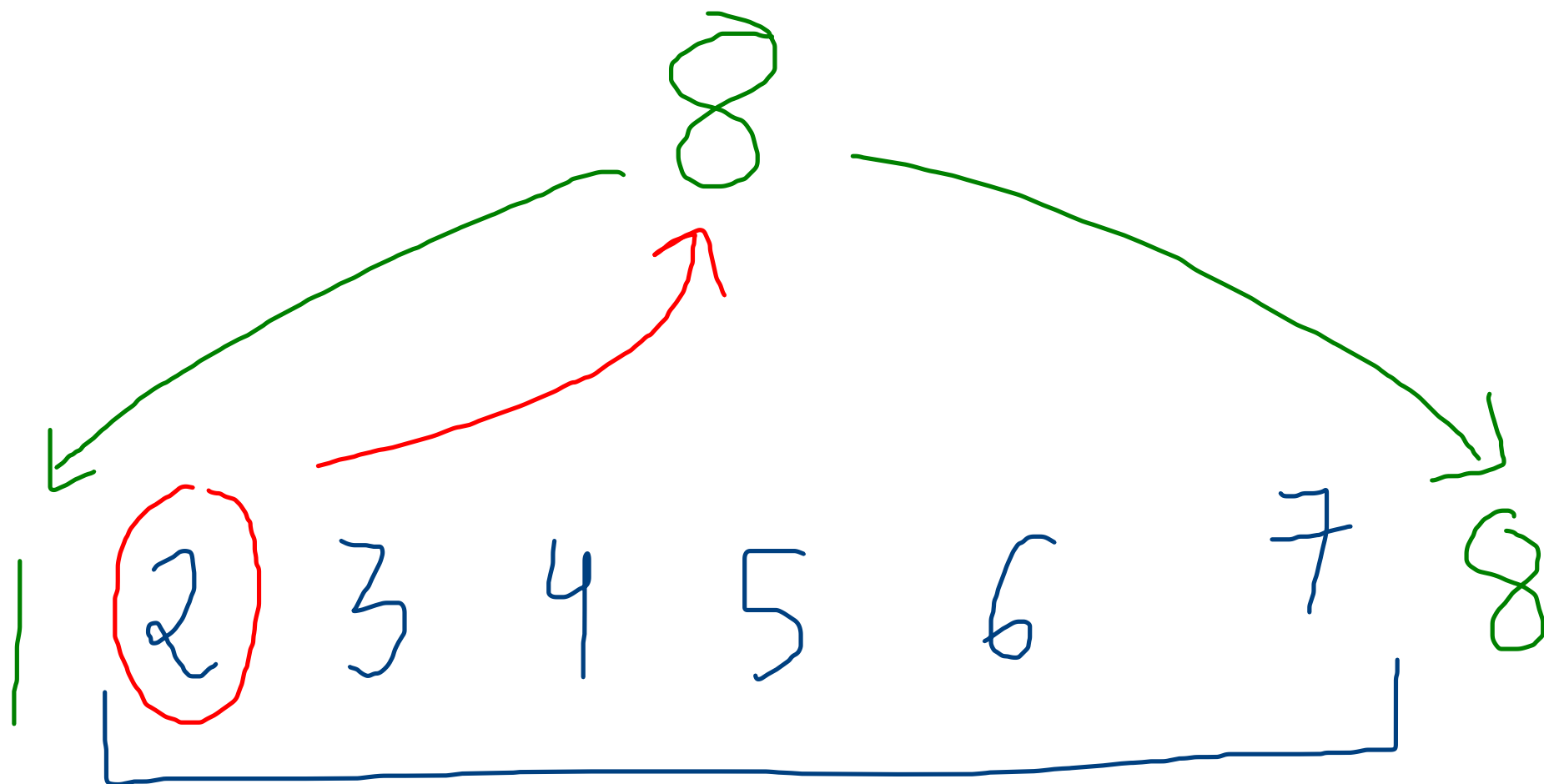
$$\sqrt{10}$$

$\rightarrow 3.17$



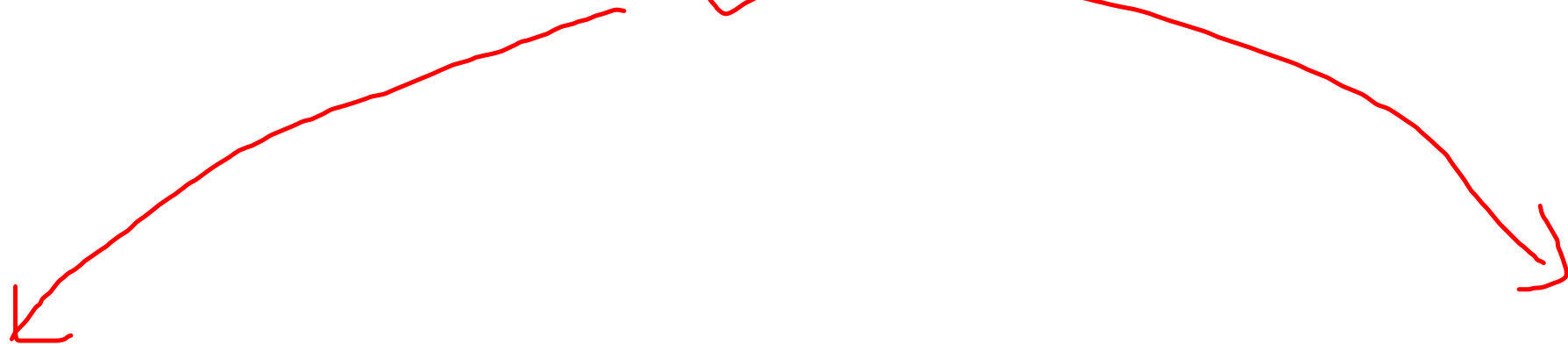


$$8 \% 4 \rightarrow 0 \longleftrightarrow 0$$



$$2 \dots \sqrt{n} \quad \frac{8}{2} \rightarrow 4$$

25



1

2

---

$\sqrt{25}$

$\sqrt{25}$

→ 5

25

//

2

X

3

X

4

X

5

$\frac{25}{5}$

→

5





$$36 \rightarrow \underline{6} * 6$$

A blue equation showing '36' followed by an arrow pointing to '6 \* 6'. The '6' in '6 \* 6' is underlined. A green arrow points upwards from below the underlined '6'.

2 - 3 - 4 - 5 - 6

↑    ↑    ↑    ↑

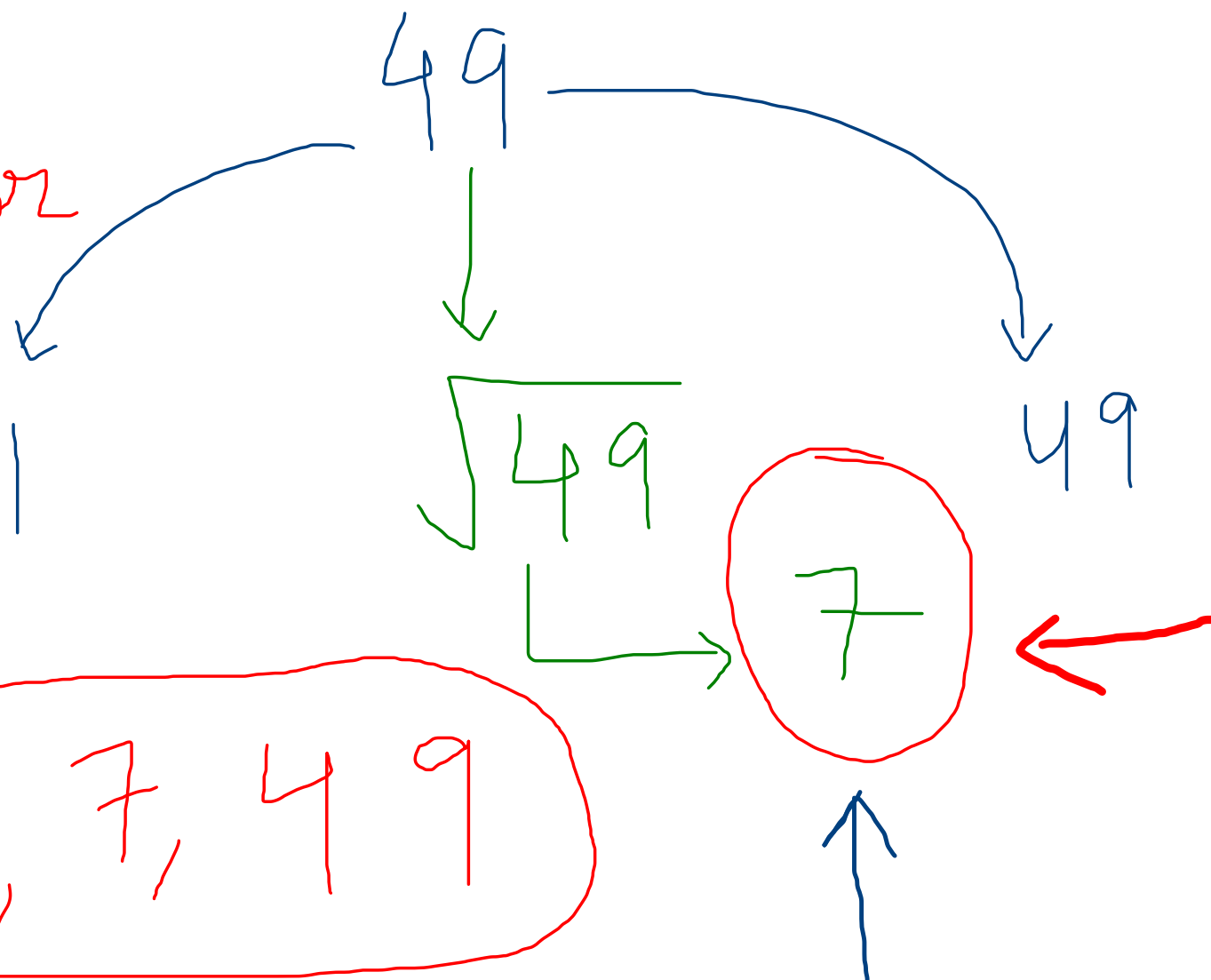
A sequence of numbers '2 - 3 - 4 - 5 - 6' in red. Below each number is a red arrow pointing upwards.

2 8 3

6 \* 6

A black arrow points from the red '6 \* 6' to the black '2 8 3'. The '2 8 3' is enclosed in a black bracket.

3 divisors



$$\boxed{7^* 7}$$

$$\begin{array}{c} | 2 | \\ \swarrow \\ | | * | | \\ \hline \hline \end{array}$$

