

4

-1, 2, 3, 7, 8, 9

-1, 2, 3

3, 2, -1

4, 5, 6, 7, 0, 1, 2

left (3)

0, 1, 2

4, 5, 6, 7

4, 5, 6, 7, 0, 1, 2

0, 1, 2, 4, 5, 6, 7

$k = 2$ (left)

Rotated

2, 4, 5, 6, 7, 0, 1

⁰4, ¹5, ²6, ³7, ⁴0, ⁵1, ⁶2

↑
st

↑
mid

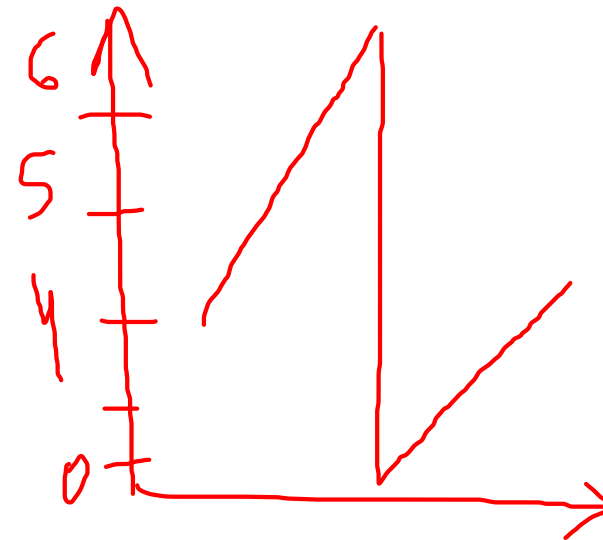
↑
en

k = 6

if (arr[0] ≤ arr[mid])
left part is sorted

else
right part is sorted

arr[st] ≤ arr[mid]



4⁰, 5¹, 6², 7³, 0⁴, 1⁵, 2⁶ $k = 3$

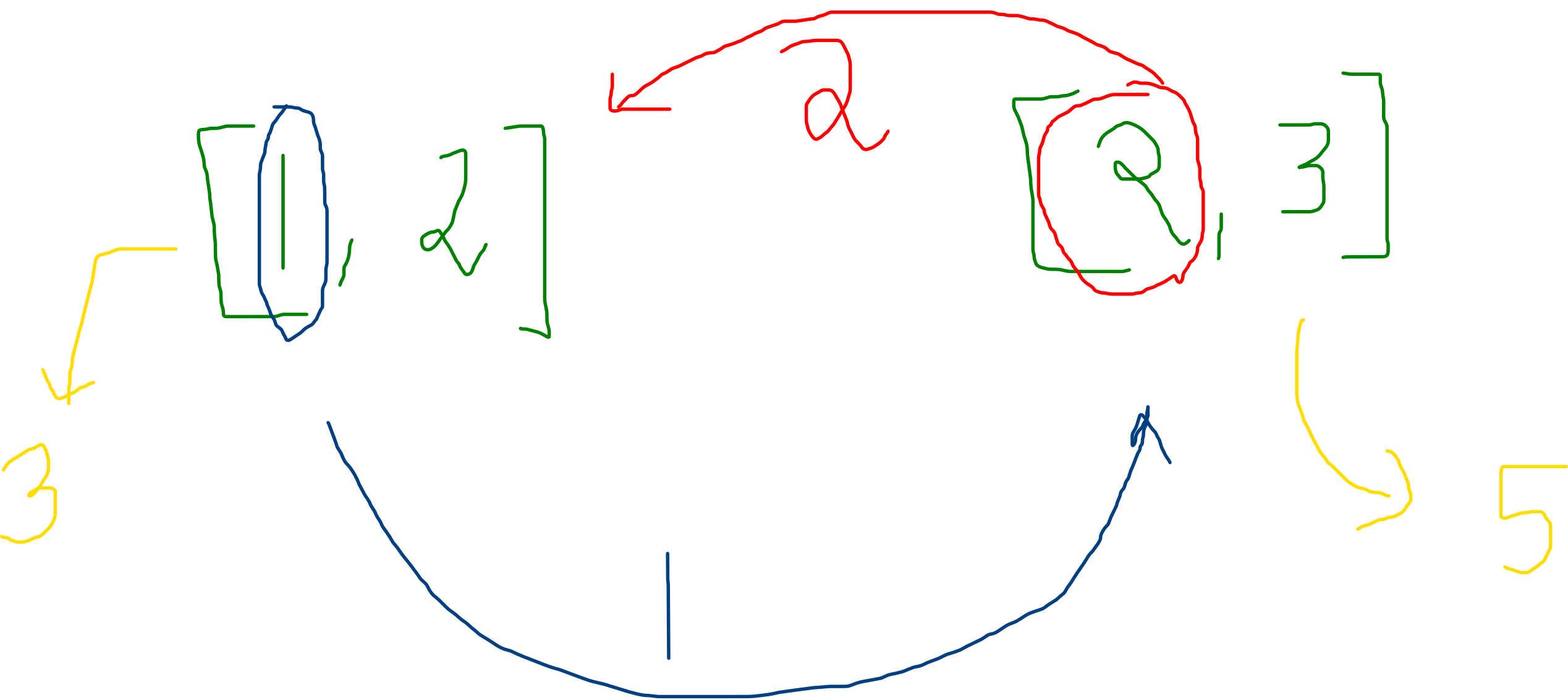
$st > end$

→ STOP

↑
mid

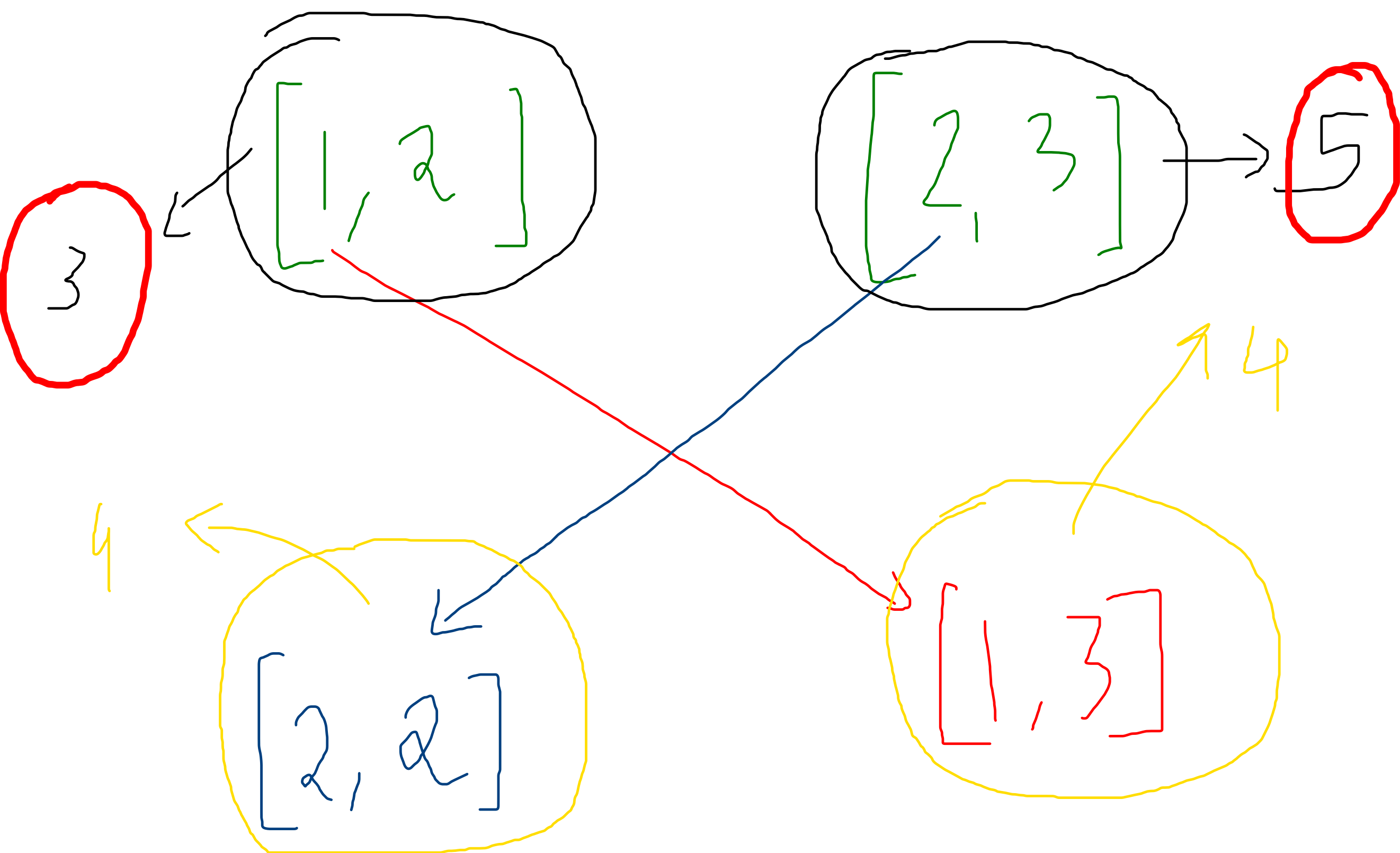
↑
end

$2 \leq 3$ & $3 \leq 2$



$$[2, 2]$$

$$[1, 3]$$



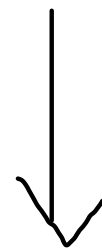
[1, 2]

[2, 3]

$$3 - 1 = 2$$

$$4 - 2 = \textcircled{2}$$

$$\left(\frac{\text{Total Sum}}{2} \right)$$



4

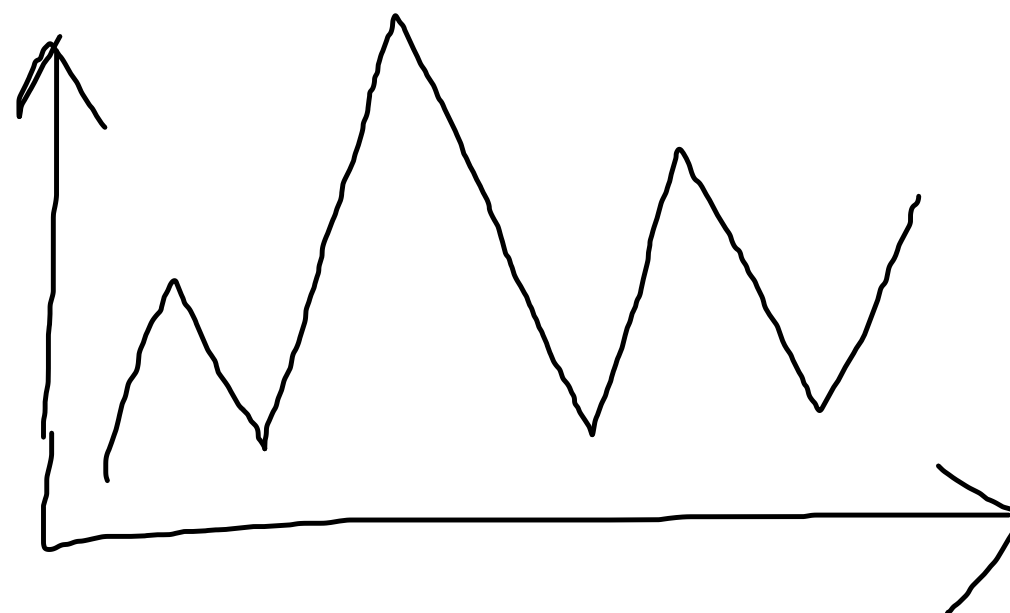
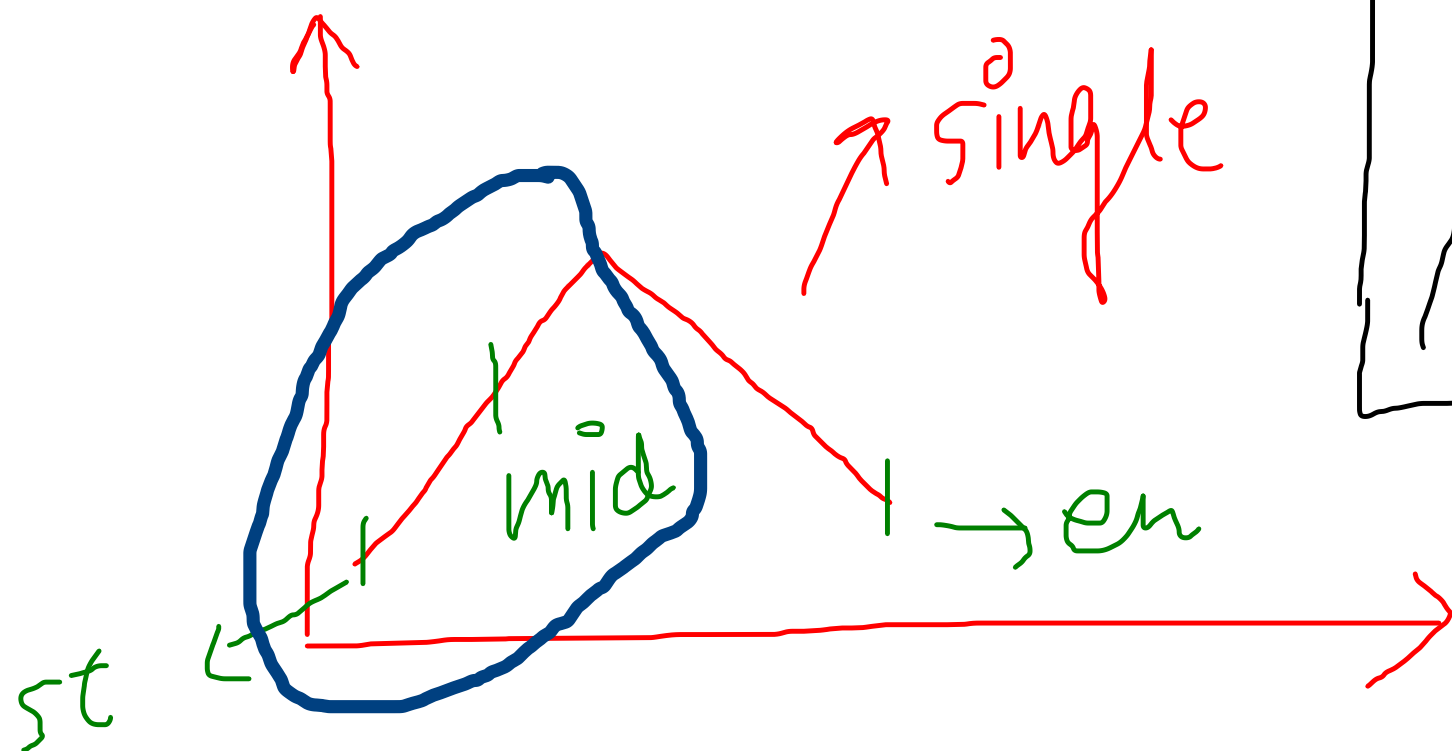
0 1 2 3 4 5 6 7
1, 2, 3, 4, 5, 3, 2, 1

↑
st

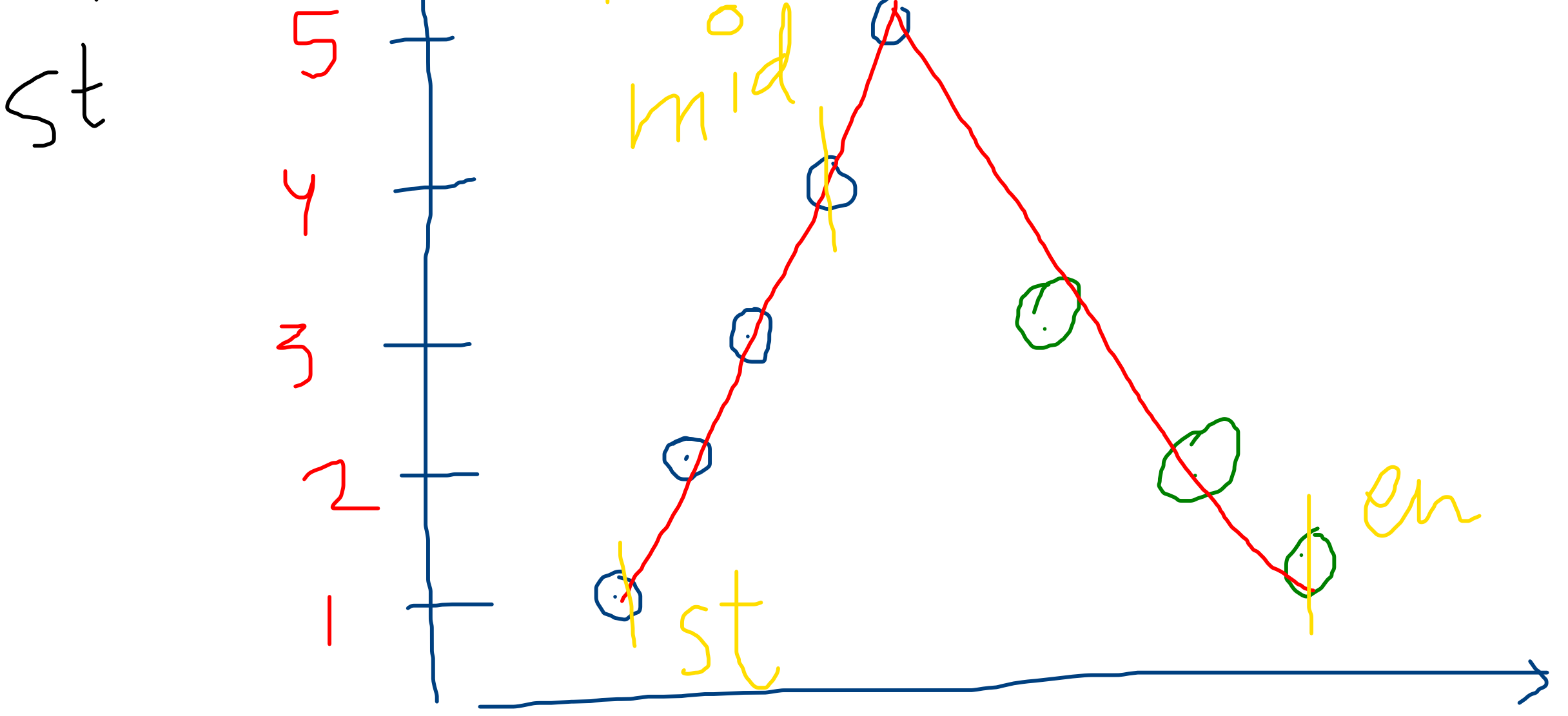
↑
mid

↑
en

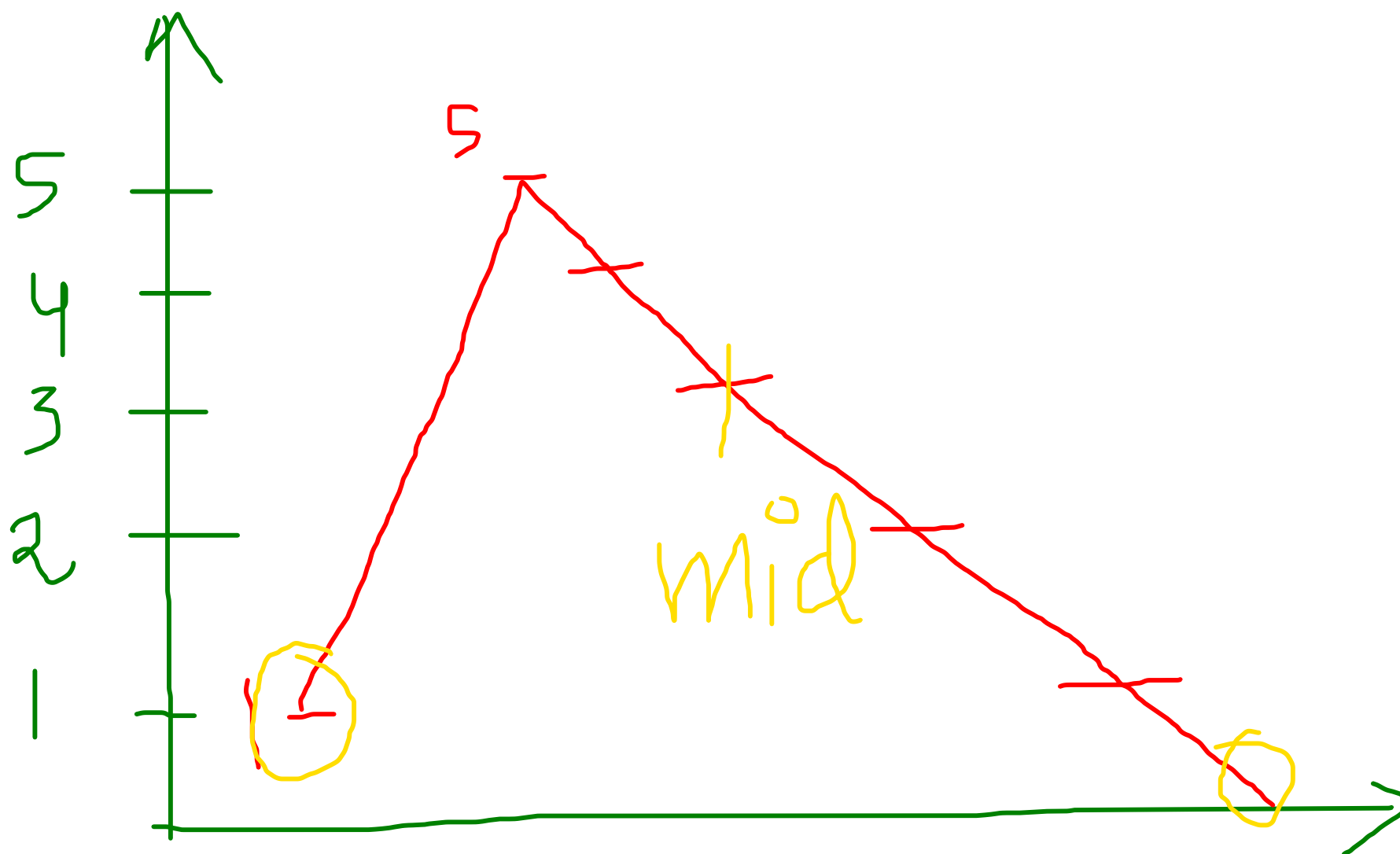
multiple

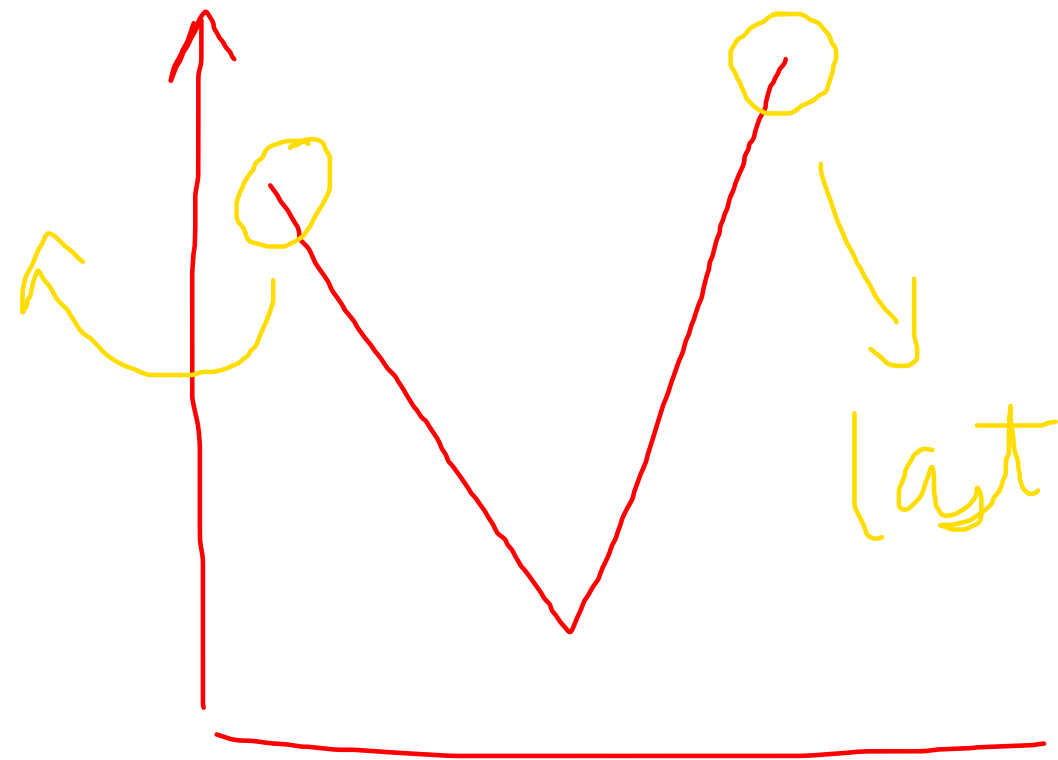
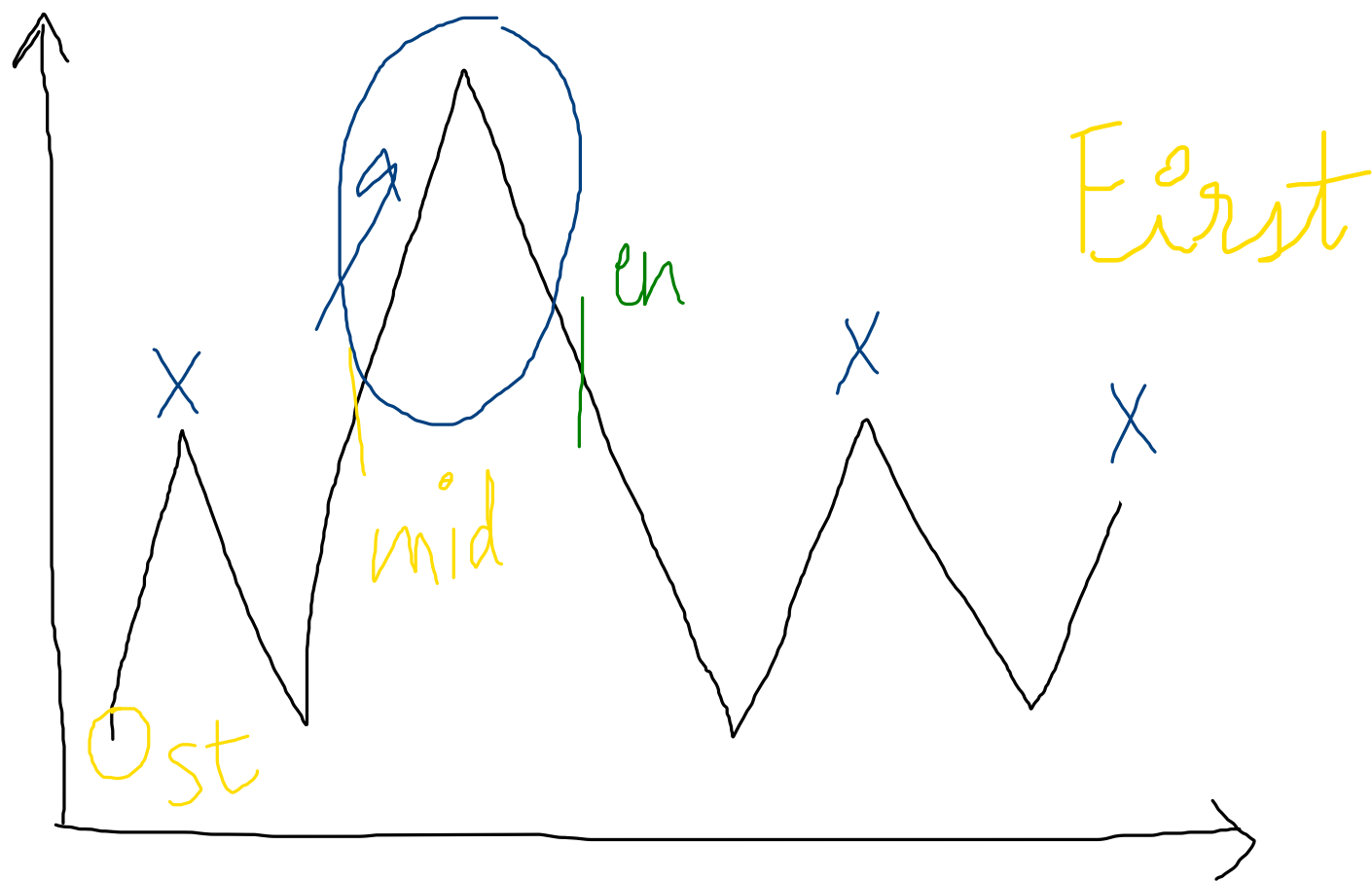


0 1 2 3 4 5 6 7
1, 2, 3, 4, 5, 3, 2, 1
↑ ↑ ↑ end



1, 5, 4, 3, 2, 1, 0





5, 4, 3, 2, 1, 7, 8, 9



~~1~~, ~~3~~, ~~4~~, ~~2~~, 2 \rightarrow 4

12 - 10

\rightarrow 2

(~~1~~ + ~~2~~ + ~~3~~ + ~~4~~)

\downarrow
10

2

$\rightarrow \boxed{3, 1, 3, 4, 2} \rightarrow 4$

$\swarrow 13 \searrow \rightarrow \boxed{3}$

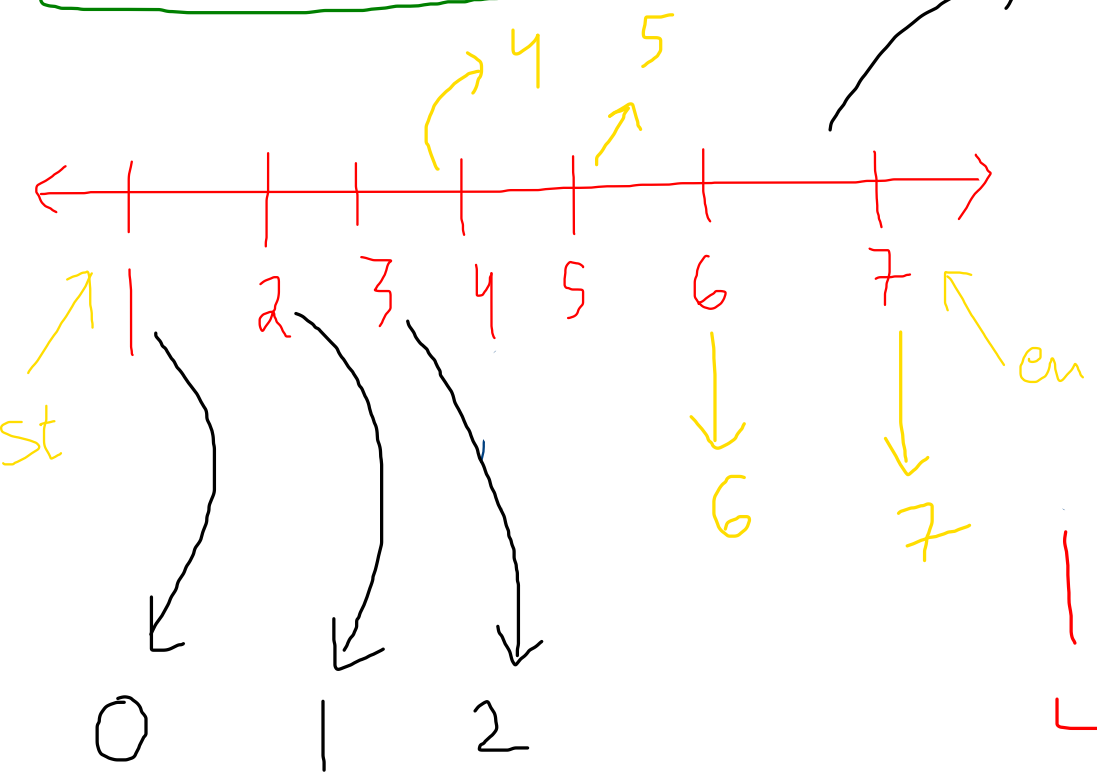
$1 \dots 4$

$\boxed{1 + 2 + 3 + 4} \rightarrow 10$

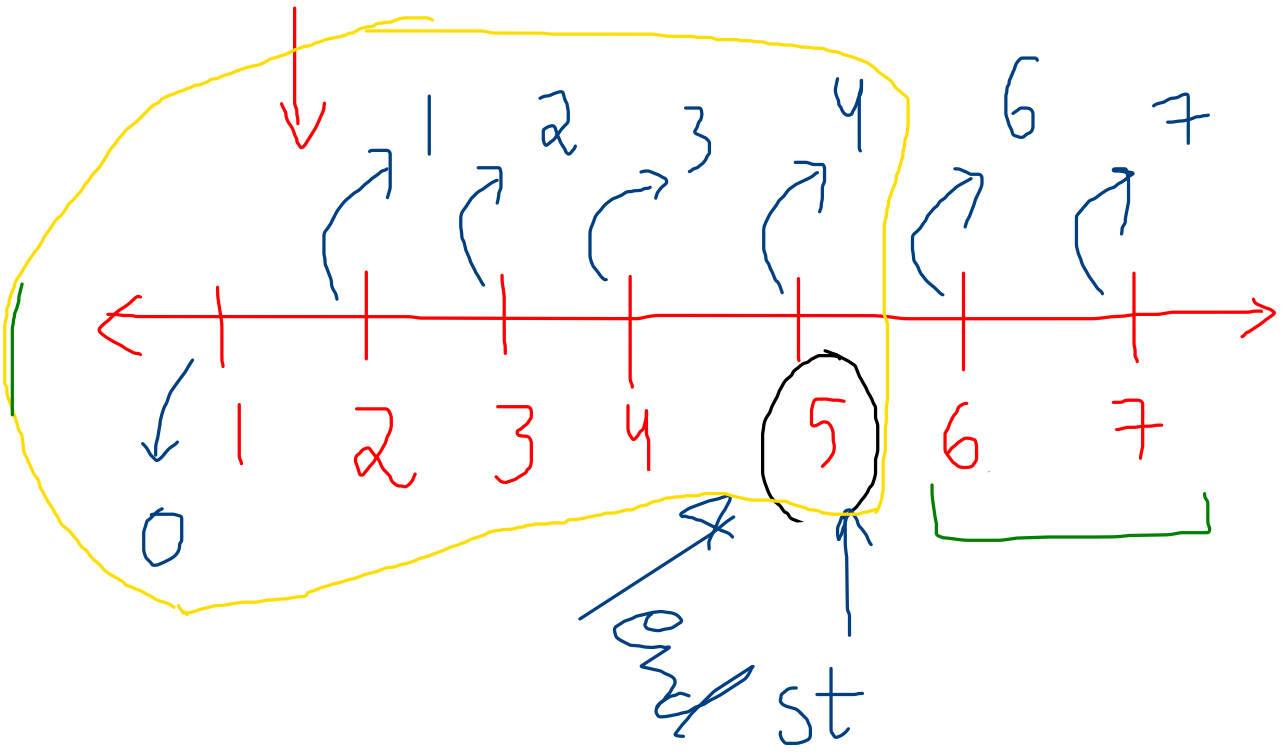
$[1 \dots n]$

1, 3, 7, 6, 5, 3, 4, 2

Range

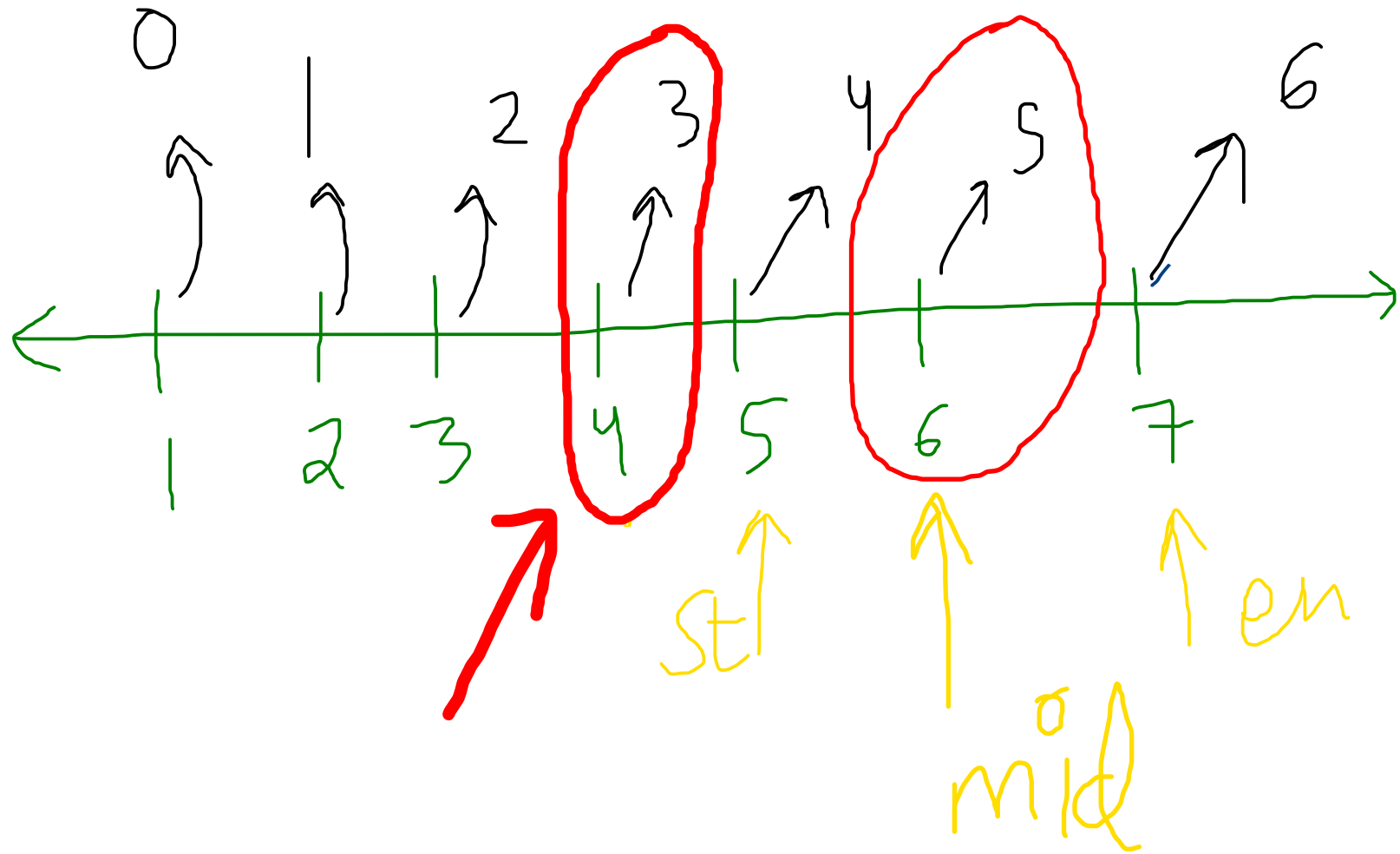


1, 3, 6, 5, 5, 4, 2, 7



ans → 5

1, 2, 3, 6, 7, 7, 5, 4

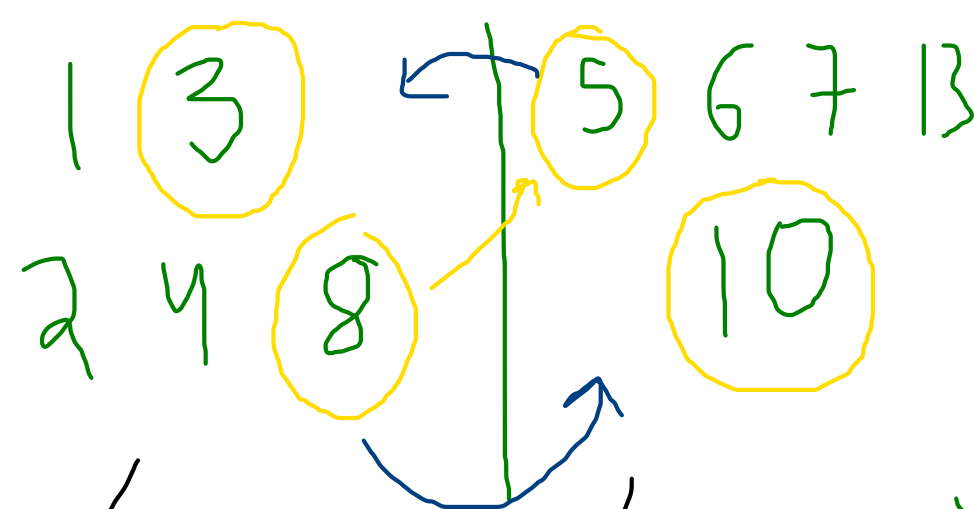
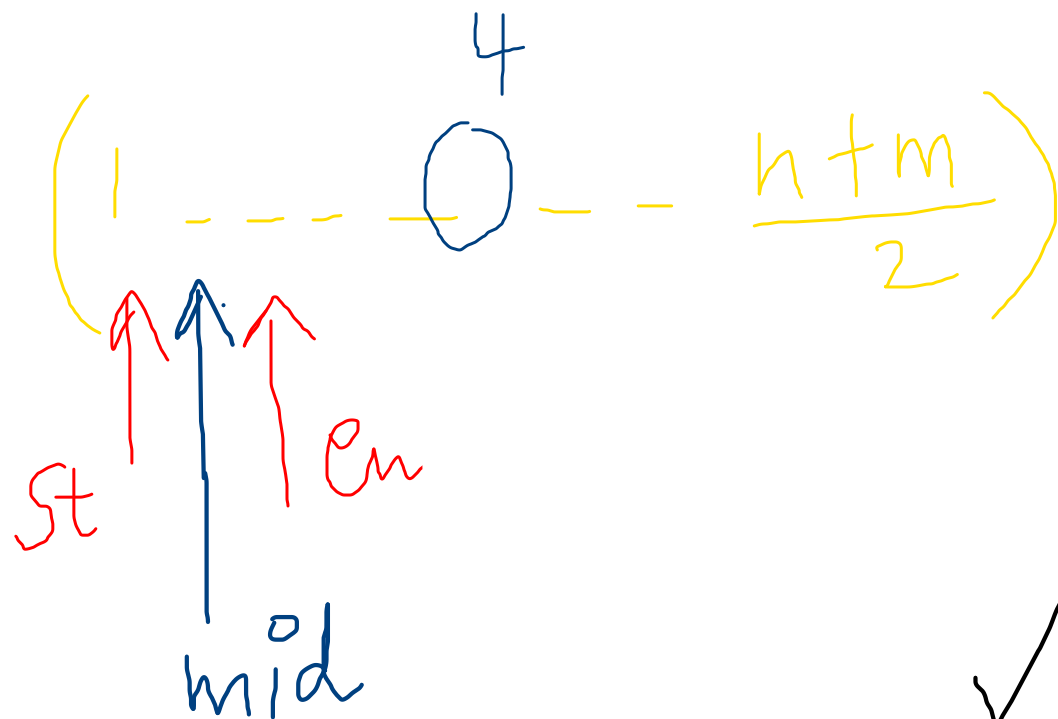


ans = ~~4~~
6

1 3 5 6 7 13 $\rightarrow n$

2 4 8 10 $\rightarrow m$

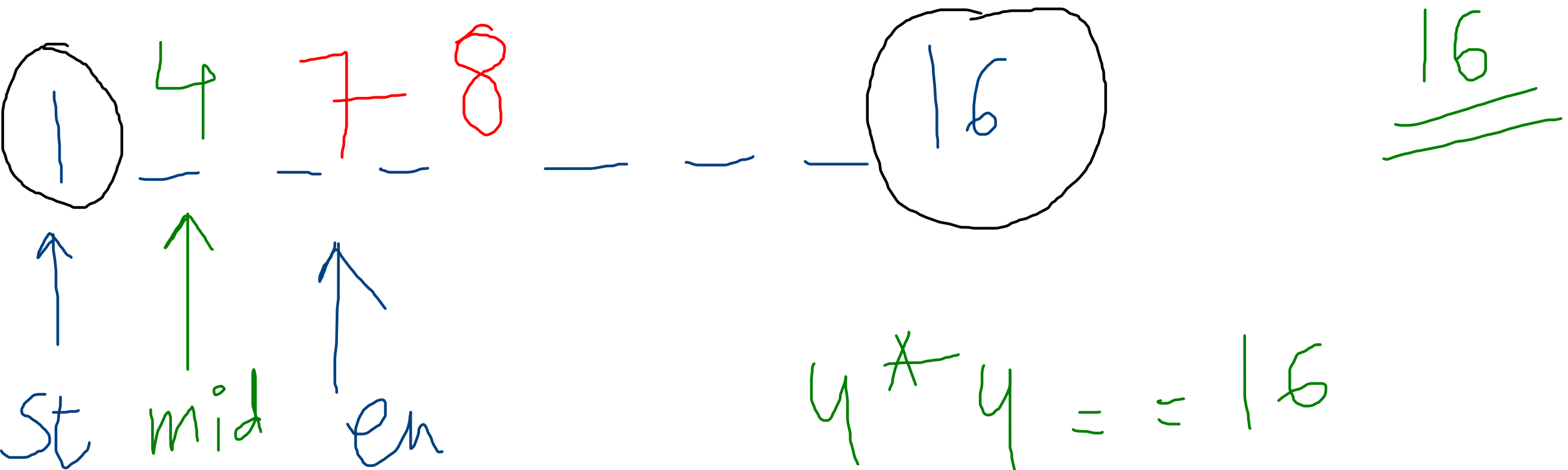
$$\frac{n+m}{2}$$



$$8 < 5$$

1 2 3 4 8

5 6 7 10 13



$$2 * 2 < 16$$

→ right

$$8 * 8 > 16$$

↓ left

$$a^2 + b^2 = C \rightarrow 5$$

$a < \sqrt{C}$ $b < \sqrt{C}$

$\sqrt{5}$

Range

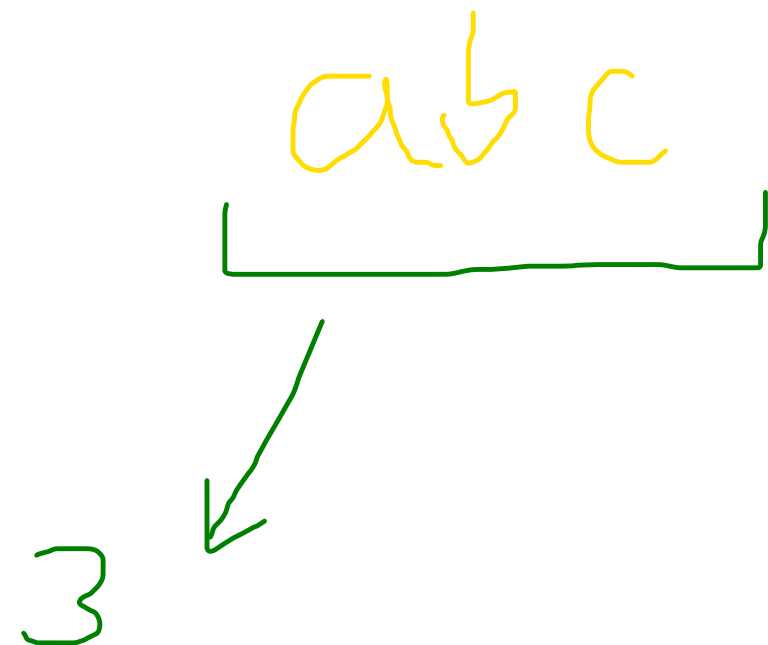
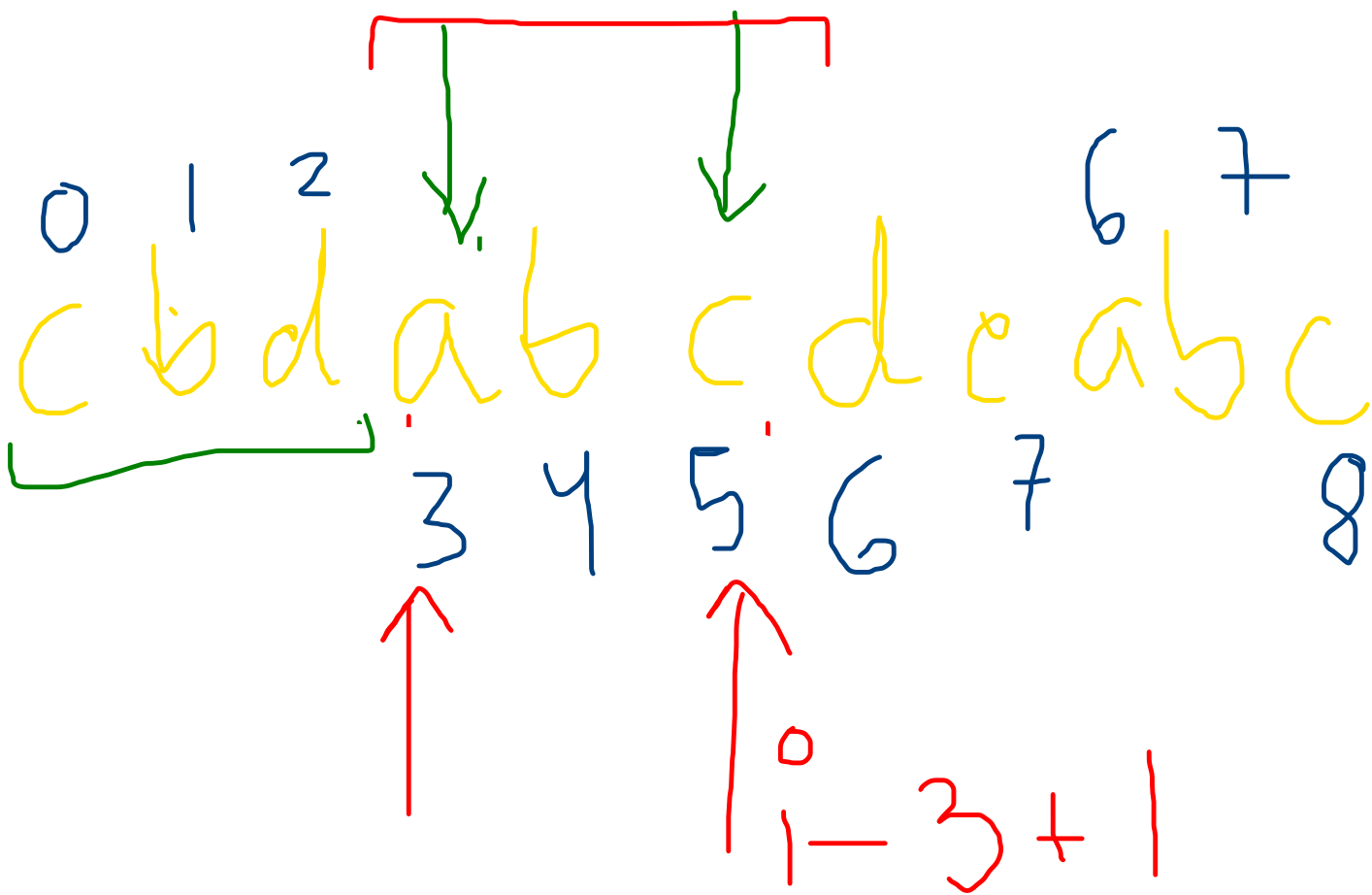
$C = 16$

$$a^2 = C - b^2$$

$$a = \sqrt{C - b^2}$$

$$(1, 2, \dots, \sqrt{C})$$

$1, 2, \dots, \sqrt{C}$



48

48

$$\frac{48}{48} = 1$$

$\%5$

1 0+3 2 1+3 3 2+3

4 3+3 5 4

$k=3$

3	4	5	1	2
0	1	2	3	4

$$\text{res}[(i+k)\%n] = \text{arr}[i]$$