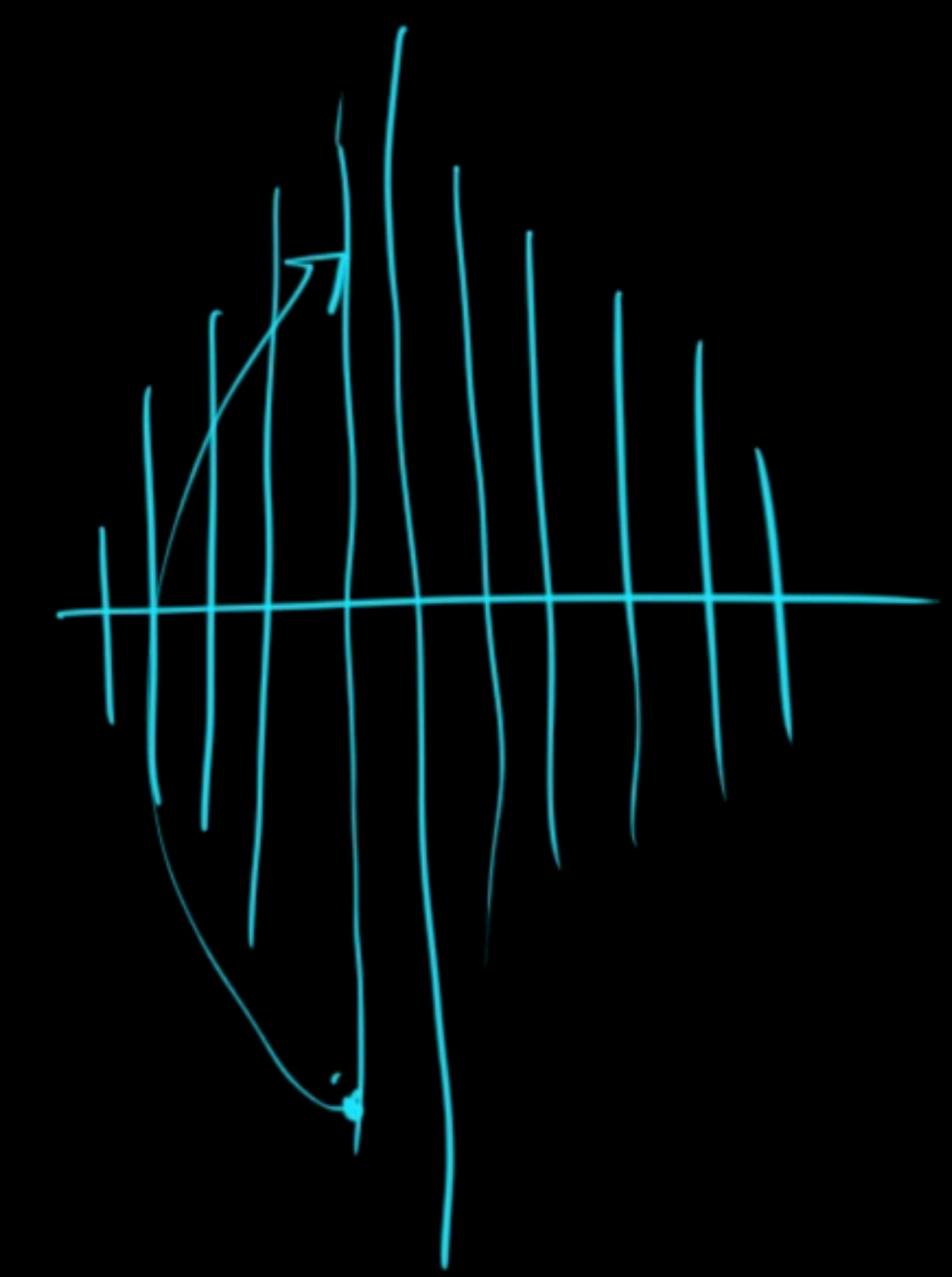
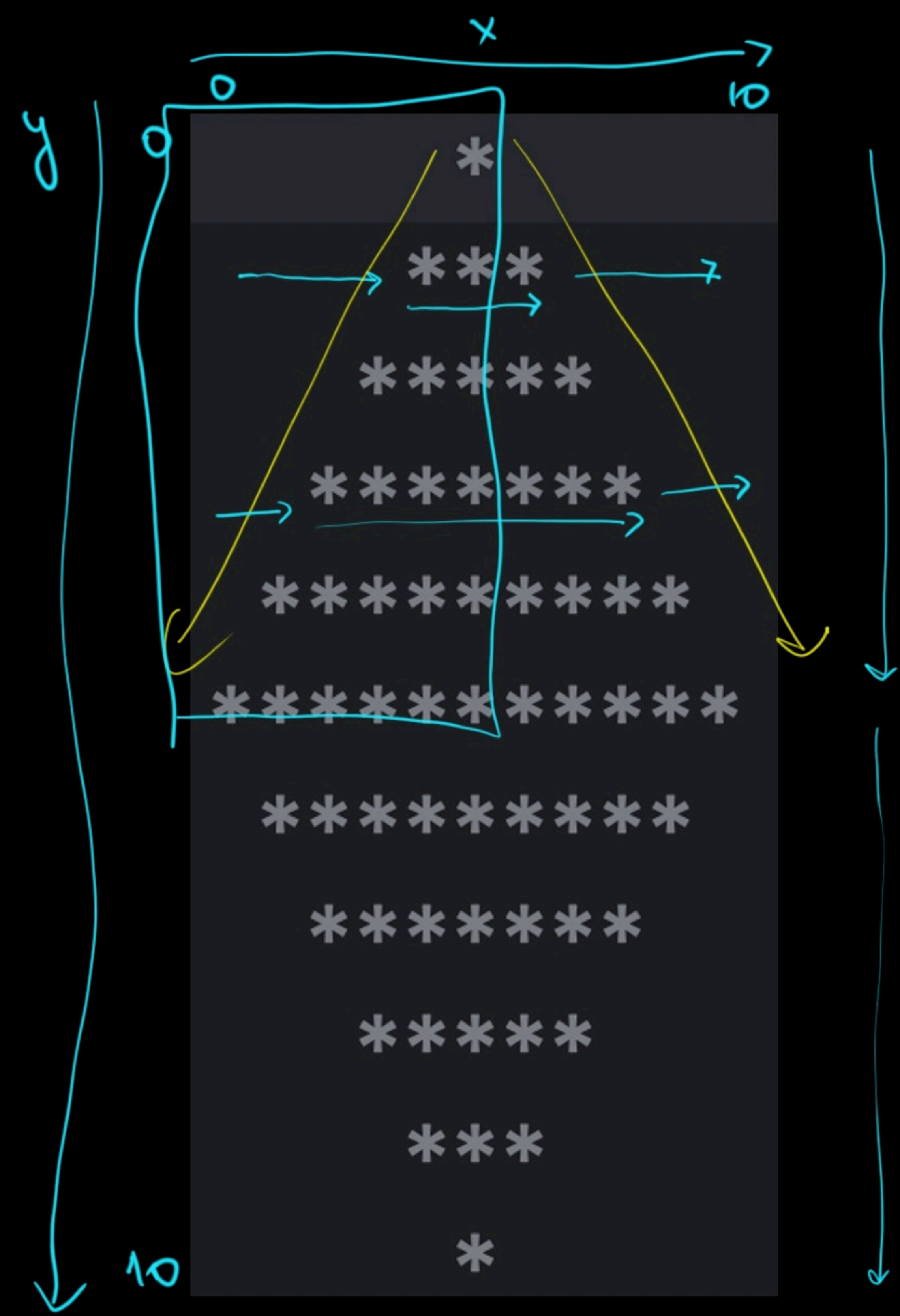
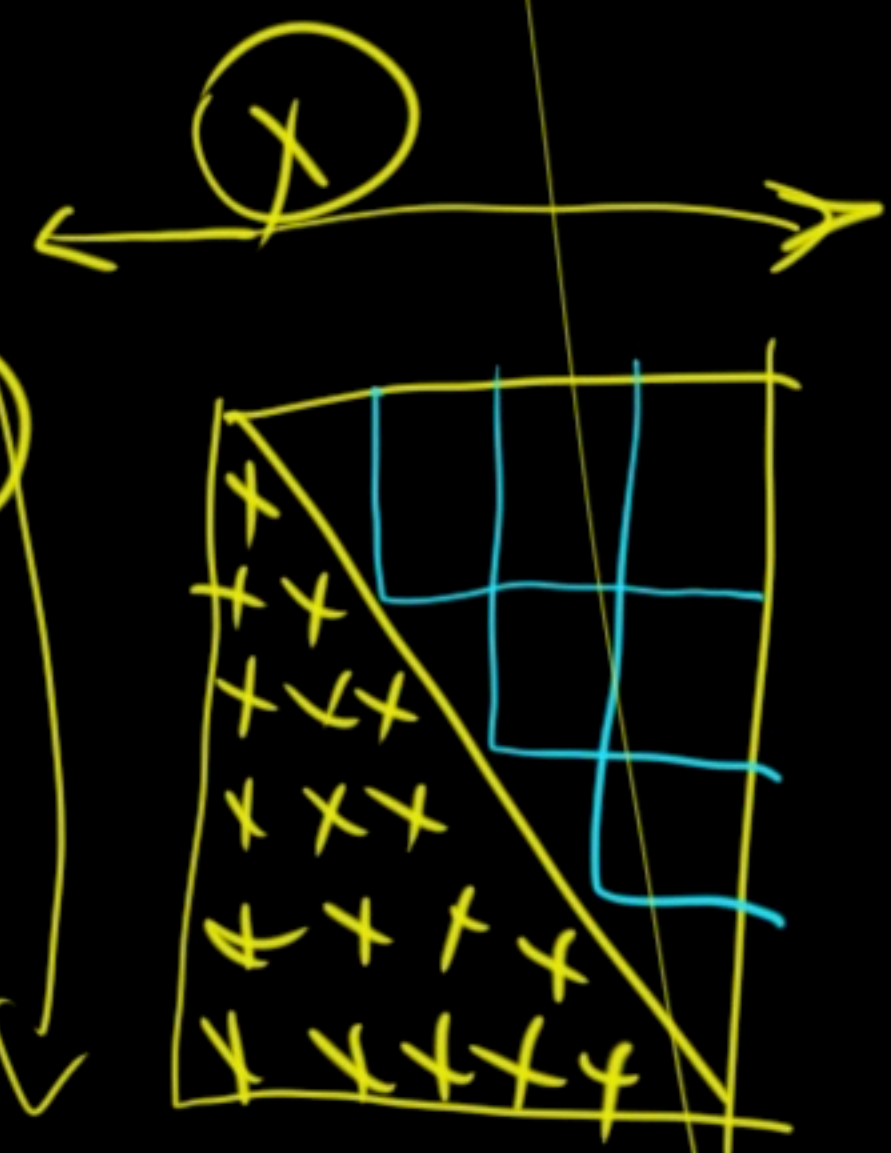
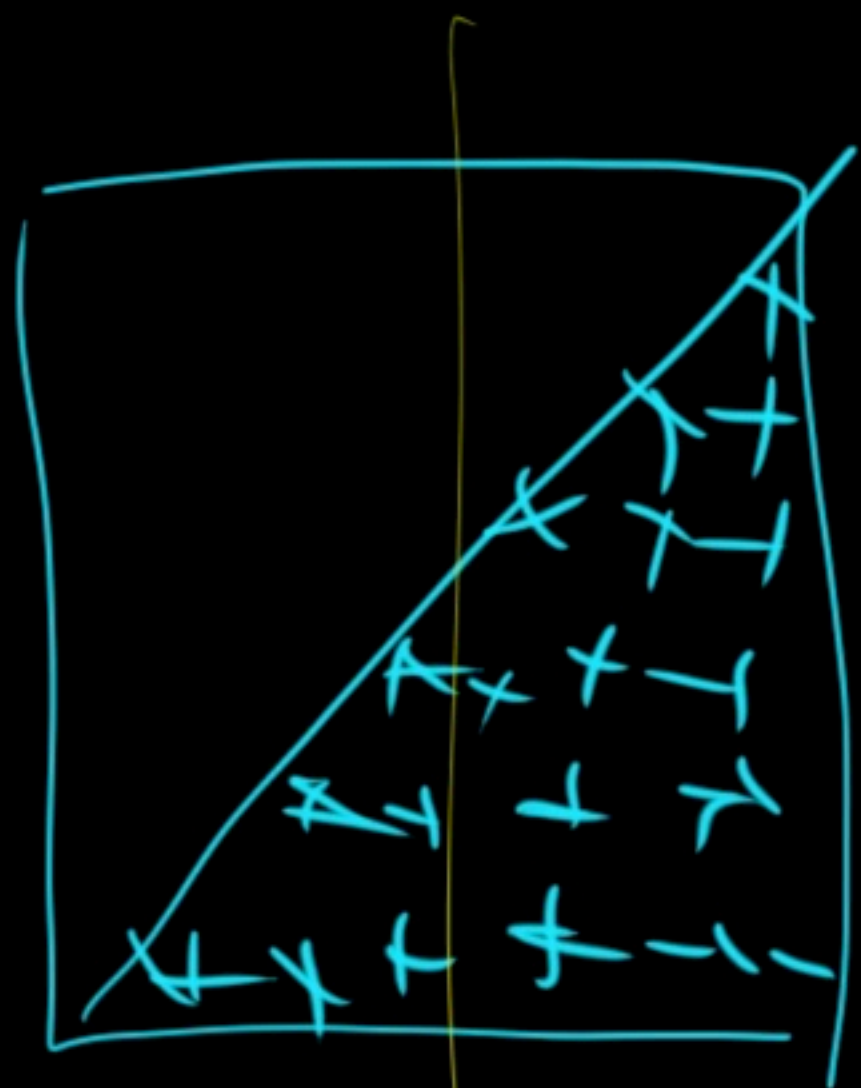


```
for y: u8 in 0..<SIZE {  
  for x: u8 in 0..<SIZE {  
    print!("{}", *);  
  }  
  println!();  
}
```

if







$n$   
 $n$   
 $\dots$   
 $n$

$y=0$   
 $y=1$   
 $\dots$   
 $y=n$

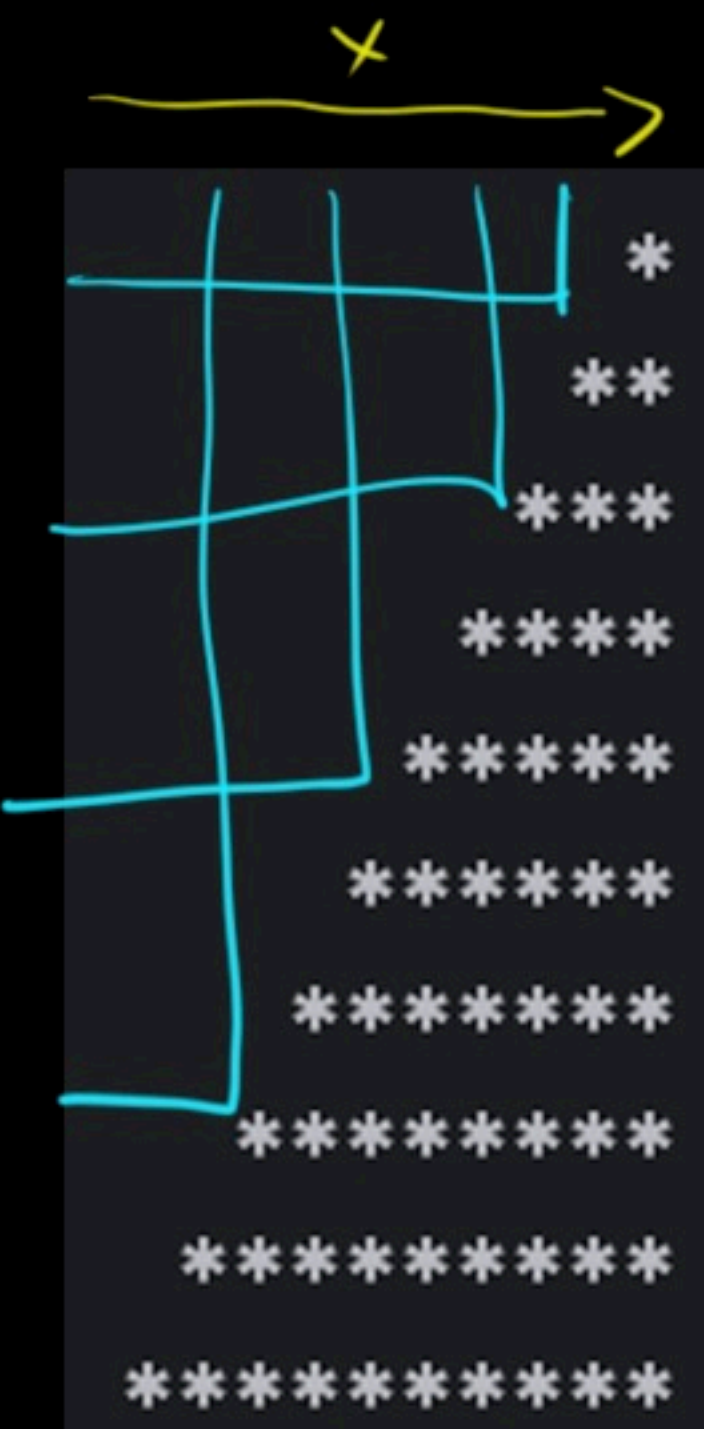
$x$   
 $0 \dots n$   
 $0 \dots n-1$   
 $0$

$y+x < n$

$y=0$   
 $y=1$   
 $y=2$   
 $y=n$

$x$   
 $0$   
 $0, 1$   
 $0, 1, 2$   
 $0 \dots n$

$y$



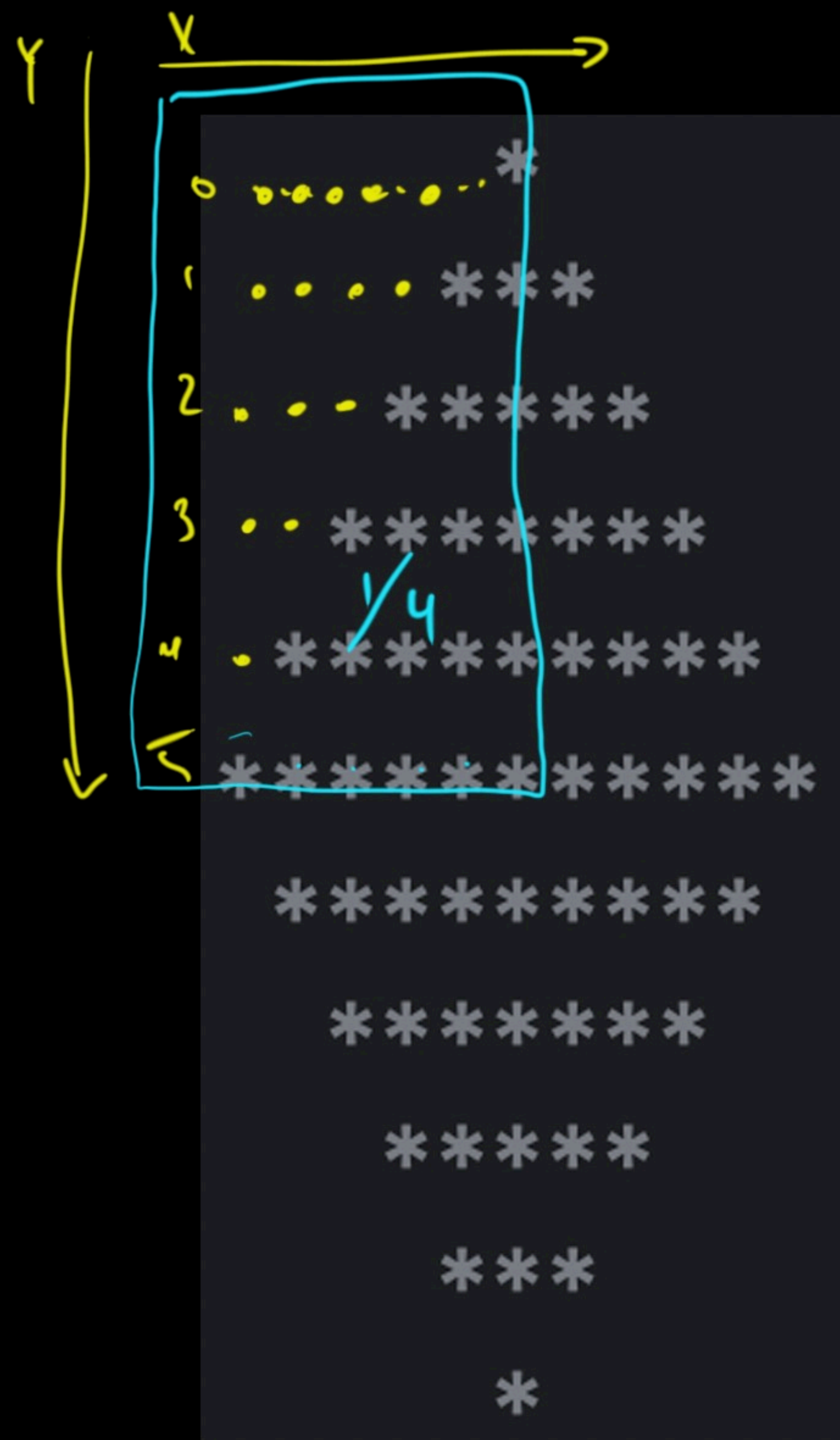
$1+10$      $10+1$   
 $5+6$   
 $3+3$

```
if (x + y < SIZE)
{
    ' '
}
else
{
    '*'
};
```

$if\ size - x + y < size$



```
for y:u8 in 0..SIZE {  
    for x:u8 in 0..SIZE {  
        print!("*")  
    }  
    println!();  
}
```



Y	X
0	0..N
1	0..N-1
2	0..N-2
...	
5	—

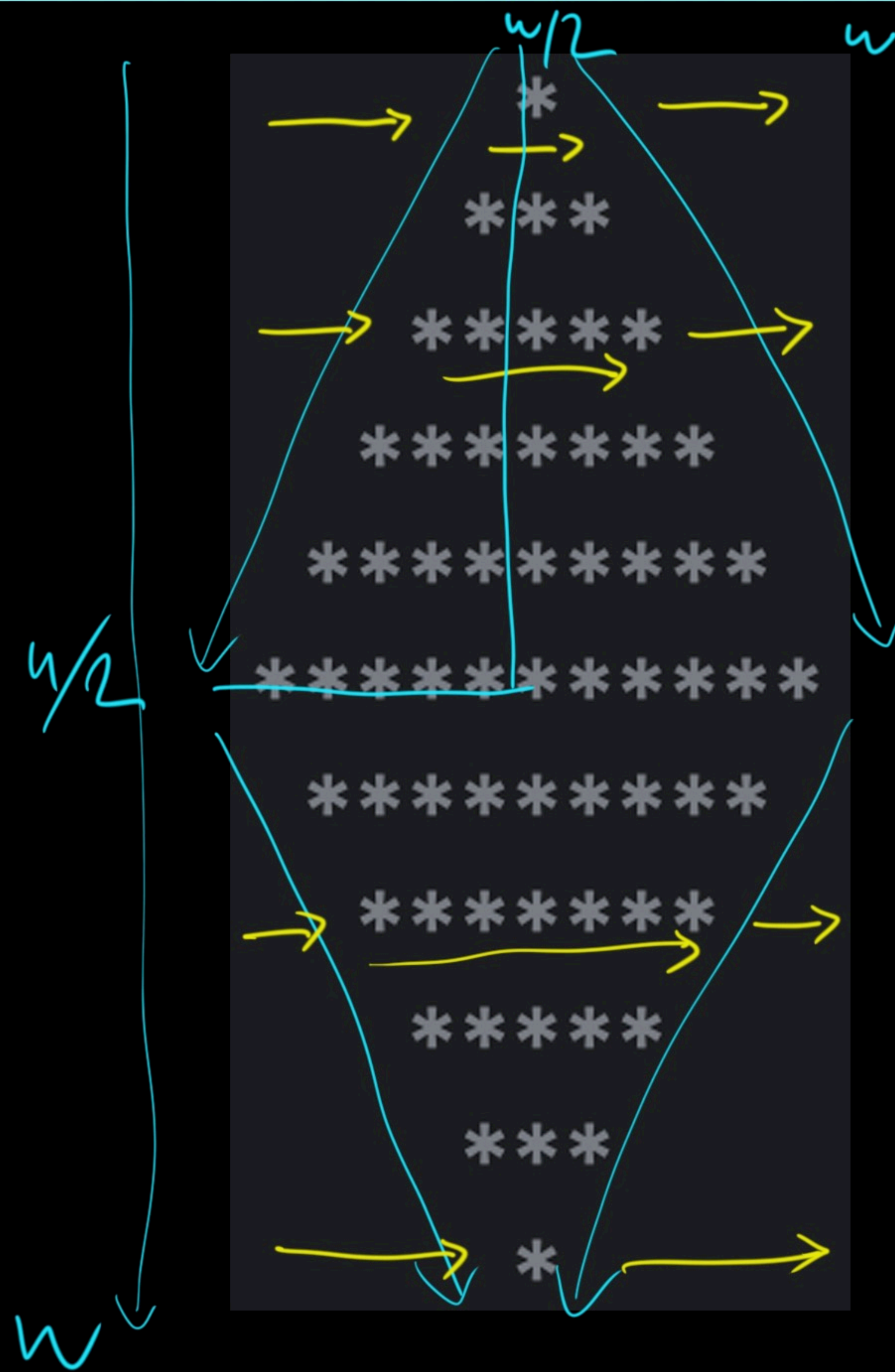
$$\underline{\underline{X + Y < Z}}$$

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

size 12

$n = 5$





for  
for  
for  
for

for  
for  
for  
for



```
*  
**  
***  
****  
*****  
*****  
*****  
*****  
*****  
*****  
*****
```

[illegible]

```
*****  
*****  
*****  
*****  
*****  
*****  
*****  
  
x+y>size  
*****  
*****  
*****  
*****  
***
```



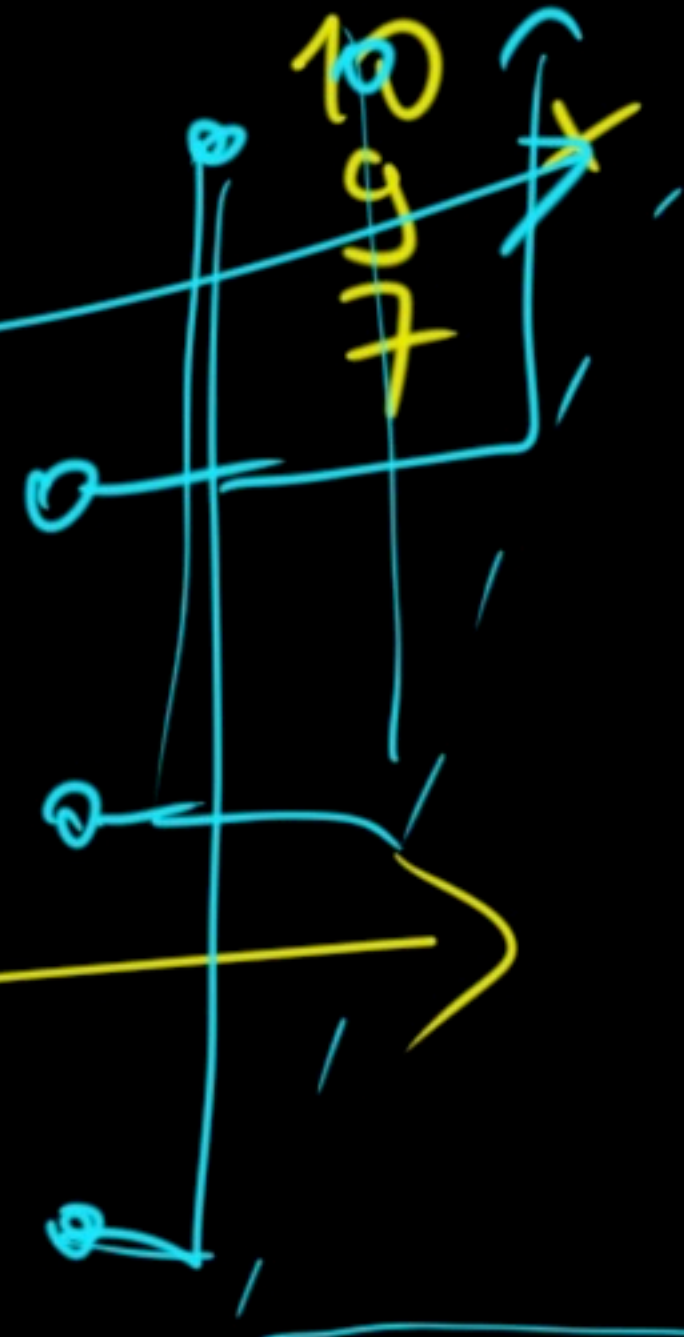
```
*
**
***
****
*****
*****
*****
*****
*****
*****
*****
```

$x \leftarrow \begin{matrix} 1 \\ 2 \\ 3 \end{matrix}$

$x + y < \text{SIZE}$

$x < y$

$x + \text{size} - y < \text{size}$



```
*
**
***
****
*****
*****
*****
*****
*****
*****
*****
```

```
*****
*****
*****
*****
*****
*****
*****
*****
*****
*****
```

$\text{size} - x$

$\begin{matrix} \uparrow \uparrow \\ 10 \\ 0 \end{matrix}$

$x > y$

$(\text{size} - x) + y < \text{size}$

$(\text{SIZE} - x) + y < \text{SIZE} \checkmark$

$x + y > \text{SIZE}$

$x - 0 - 0 =$



```
let q1: bool = x + y < half;  
let q2: bool = m(x) + y < half;  
let q3: bool = x + m(y) < half;  
let q4: bool = m(x) + m(y) < half;  
let c: char = if q1 || q2 || q3 || q4 { ' ' } else { '*' };
```

