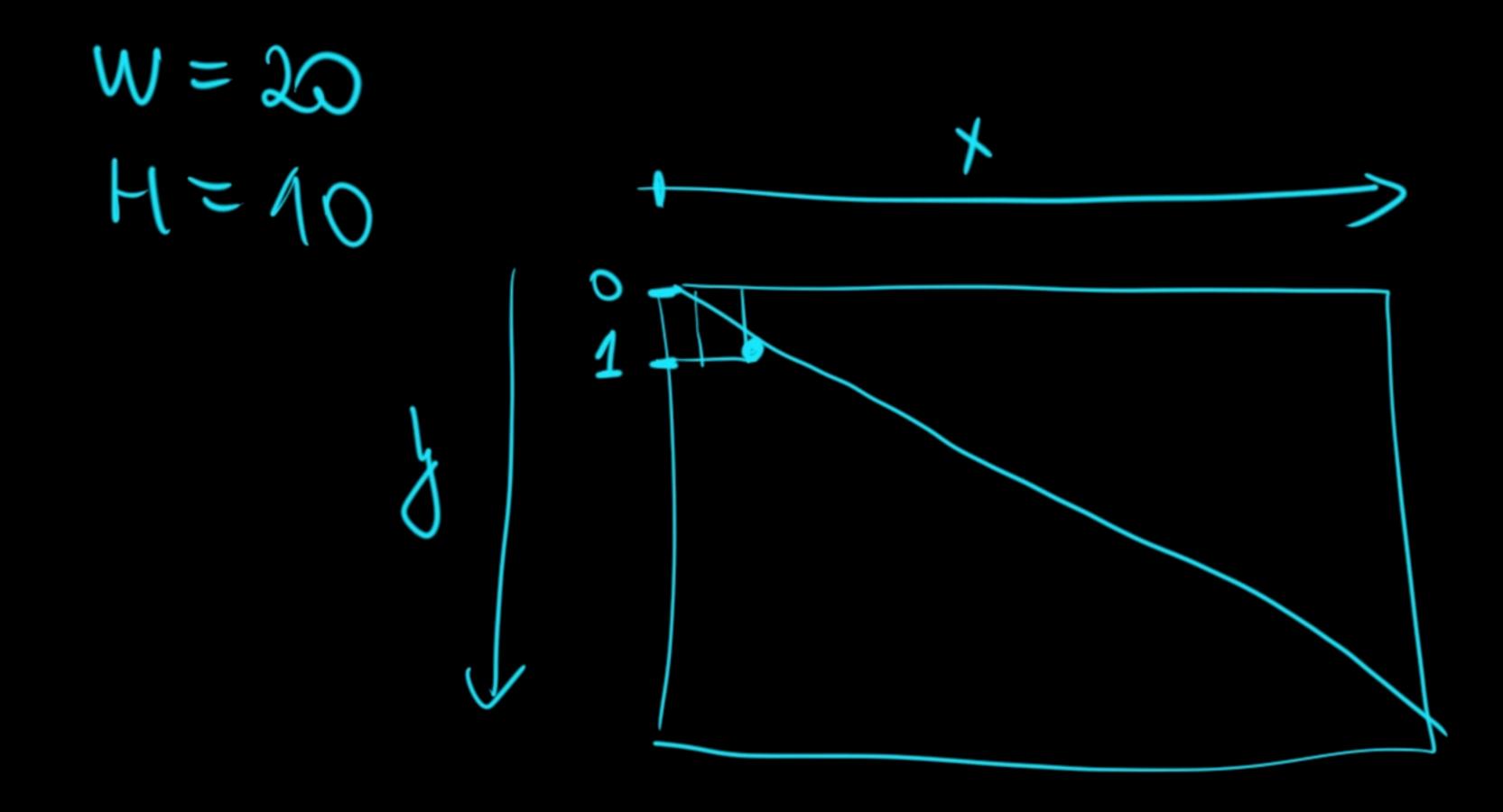
```
#2
```

```
const W: u32 = 10;
const H: u32 = 10;
                                        200
for y: u32 in 0.. < H {
    for x:u32 in 0.. < W {
        let is_horizontal:bool = (y == 0)
        let is_vertical:bool = x == 0 || x == W - 1;
        let is_diagonal:bool = x == y;
        let c:char = if is_horizontal || is_vertical \| | is_diagonal \{
            1 * 1
        } else {
        print!("{}", c);
    println!();
```

```
for y:u32 in 0.. < H {
    for x:u32 in 0.. < W {
        let is_horizontal:bool = y == 0 || y == H - 1;
        let is_vertical:bool = x == 0 || x == W - 1;
        let is_diagonal:bool = x == y;
        let is_co_diagonal:bool = x == W - 1 - y;
        let c:char = if is_horizontal || is_vertical || is_diagonal || is_co_diagonal {
            1 * 1
        } else {
        };
        print!("{}", c);
    println!();
```

```
const W: u32 = 25;
const H: u32 = 10;

for y:u32 in 0..H {
    let is_horizontal:bool = y == 0 || y == H - 1;
    let is_vertical:bool = x == 0 || x == W - 1;
    let is_diagonal:bool = (x == y;)
    let is_co_diagonal:bool = (x == y;)
```





$$x = y \cdot k$$

$$k = \frac{w}{H}$$

$$x = W - 1 - y \cdot k$$

```
let is_diagonal:bool = x == (y as f32 * k).round() as u32;
let is_co_diagonal:bool = x == W - (y as f32 * k).round() as u32;

let c:char = match (x, y) {
    (1, _) => '*',
    (_, 1) => '*',
    (_, H) => '*',
    _ if is_diagonal => '*',
    _ if is_co_diagonal => '*',
    _ => ' ', false
};
```

```
let c:char = match (x, y) {
    (1 | W, _) => '|',
    (_, 1 | H) => '-',
    _ if is_diagonal => '\\',
    _ if is_co_diagonal => '/',
    _ => ' ',
};
```

```
#5
```

```
if x == 5 {
    print!("*")
} else {
    print!(" ")
}
```

```
match x {
    5 => print!("*"),
    _ => print!(" "),
}
```