



Week 03 - Demo

Tünde Csapó

Green Fox Academy / Fulvipes / Secret



[tundecsapo](https://github.com/tundecsapo)



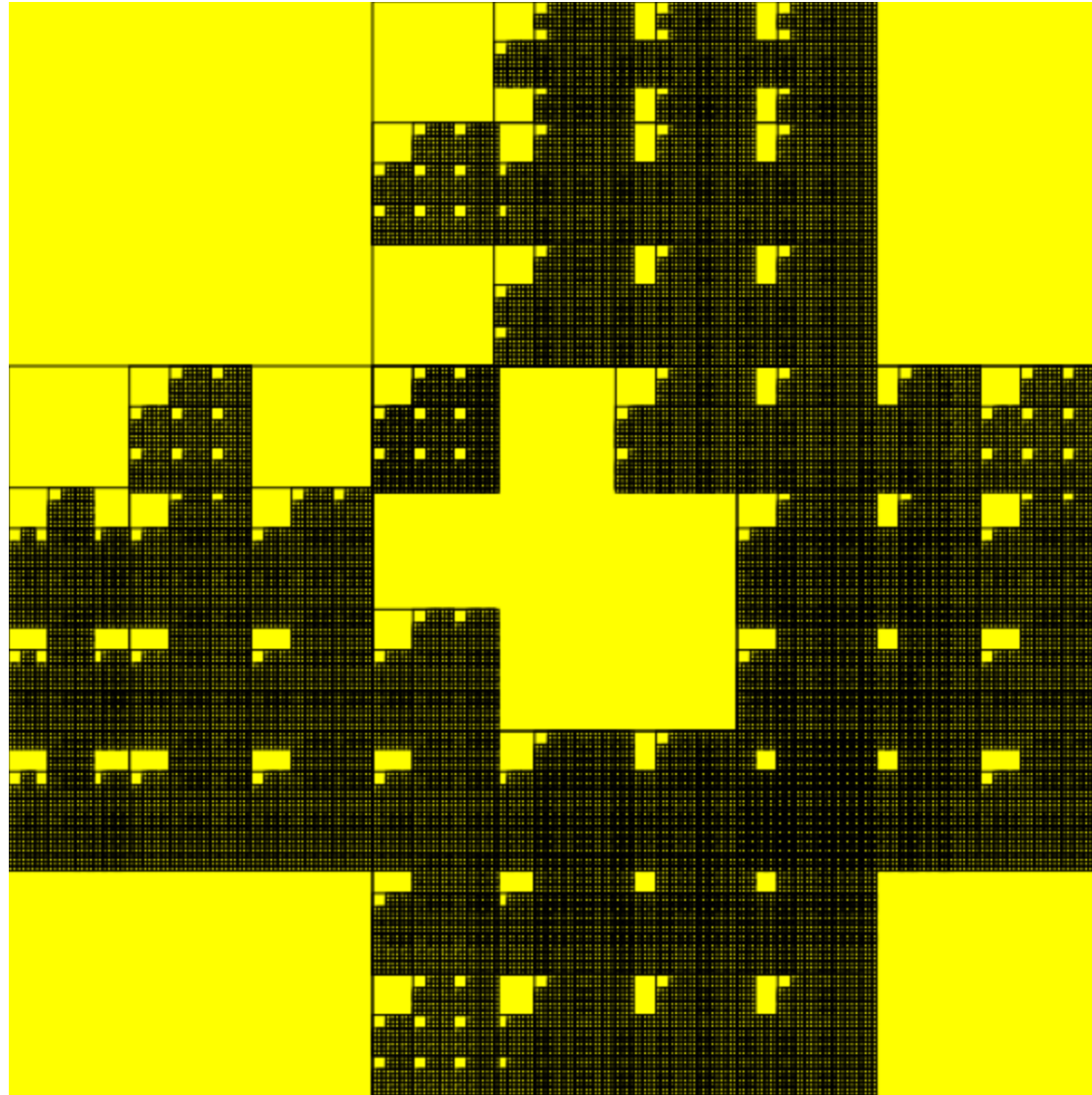
[Tunde Csapo](https://www.linkedin.com/in/TundeCsapo)

< Classes and objects >

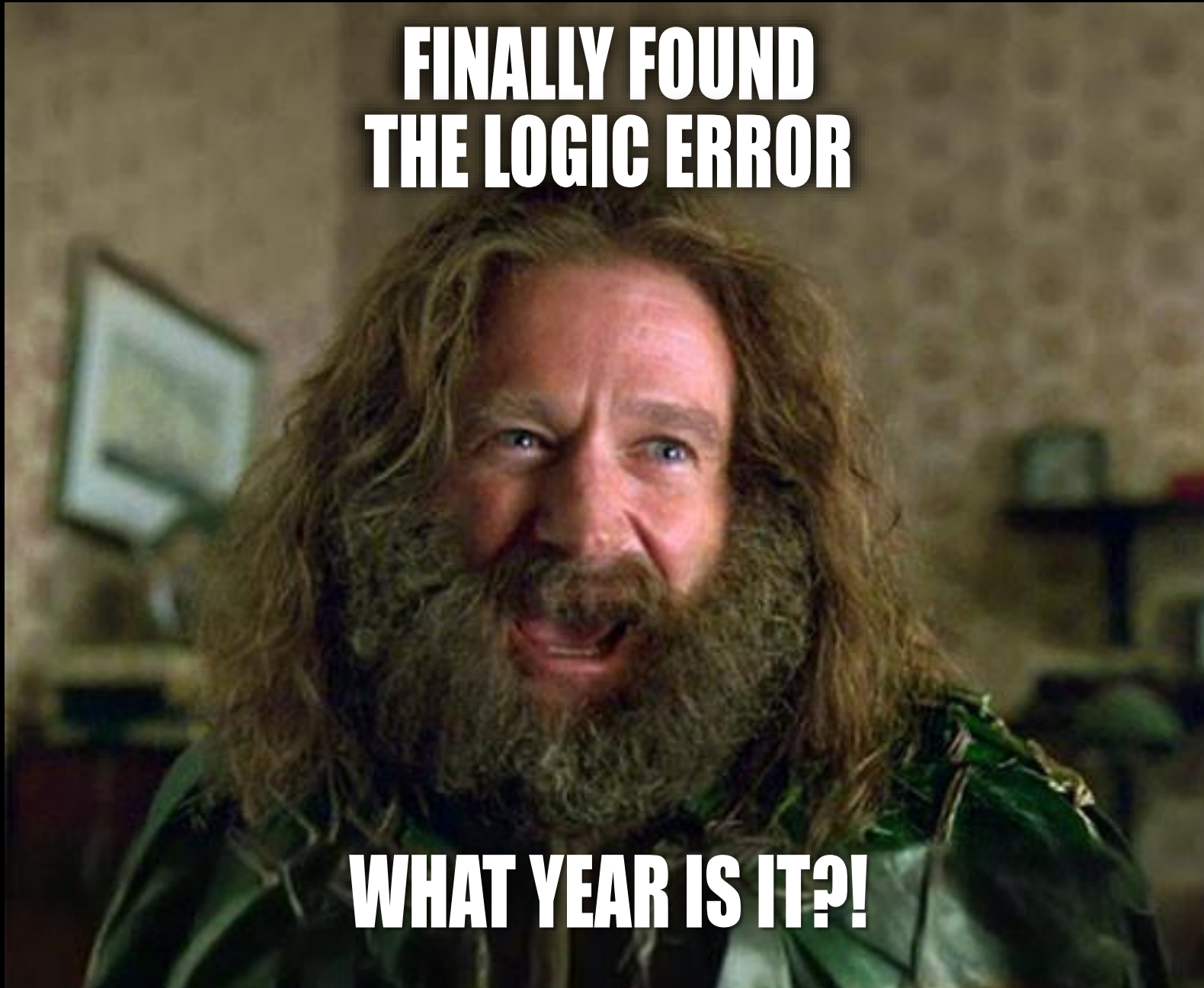
▶ Fleet of Things

- ▶ Private vs. public access modifiers
- ▶ How can we retrieve a private data outside of the Object?

< Draw squares recursively >



**FINALLY FOUND
THE LOGIC ERROR**



WHAT YEAR IS IT?!

< Draw squares recursively >

boxSize



1st col endPoint

boxSize	1 st col (endPoint)	2 nd col (endPoint)	3 rd col (endPoint)
600 x 600 (canvas size)	200	400	600
200 x 200	66.666...	133.3333...	199.999...
66.66..X 66.66..	22.222...	44.444....	66.66...(but less than boxSize)
Etc.	Etc.	Etc.	Etc.

< Draw squares recursively >

```
function drawRecSquares(num: number, boxSize: number, startX: number, startY: number) {  
  let side: number = boxSize * num  
  if (side > 1) {  
    for (let y: number = startY; y < startY + boxSize; y += side) {  
      for (let x: number = startX; x < startX + boxSize; x += side) {  
        let checker: number = ((x-startX) + (y-startY)) / side;  
        if (checker != 0 && checker % 2 != 0) {  
          ctx.strokeRect(x, y, side, side);  
          drawRecSquares(num, side, x, y);  
        }  
      }  
    }  
  }  
}  
  
drawRecSquares(1/3, canvas.height, 0, 0);
```

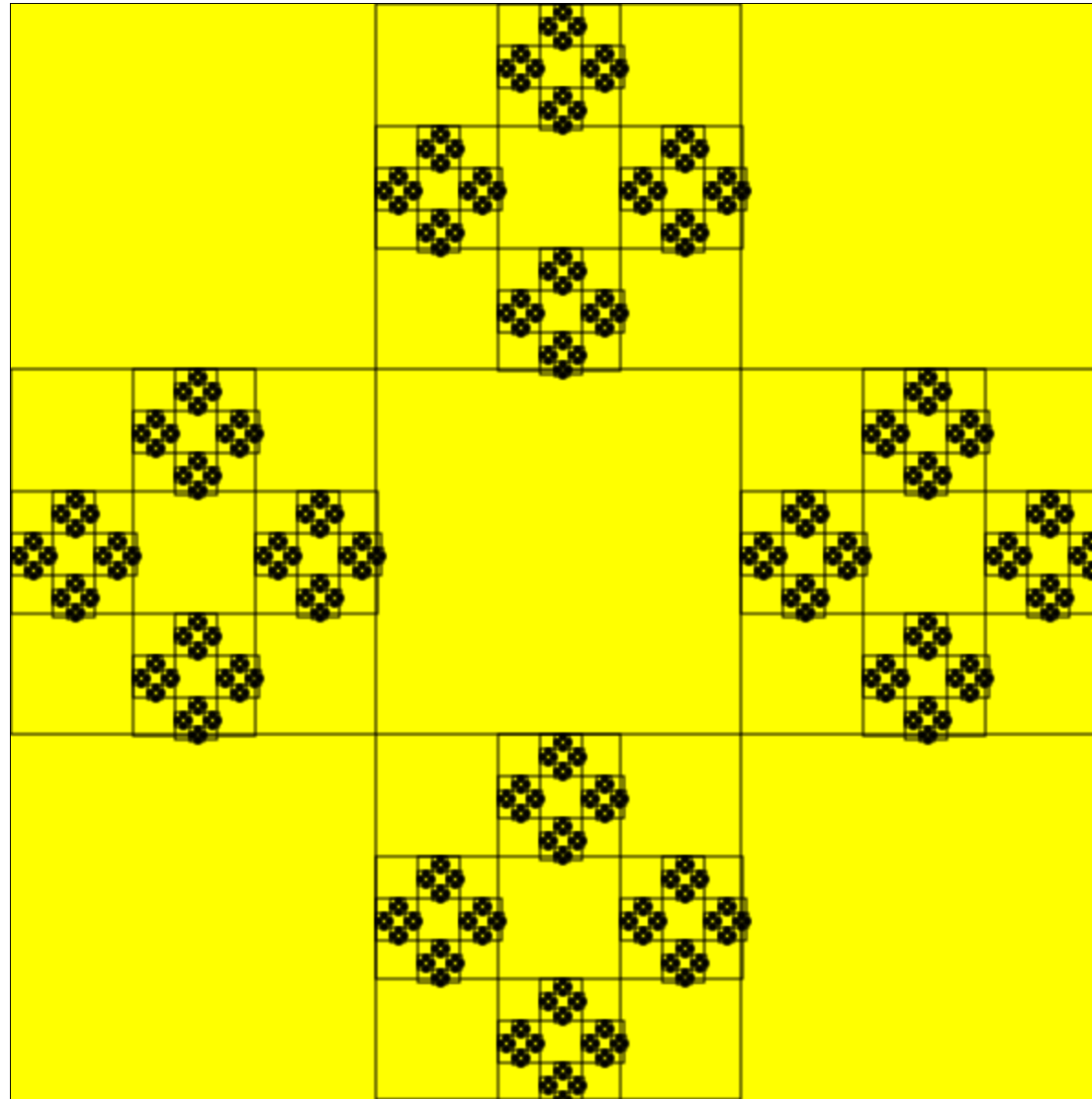
< Draw squares recursively >

```
function drawRecSquares(num: number, boxSize: number, startX: number, startY: number) {  
  let side: number = boxSize * num  
  if (side > 1) {  
    for (let y: number = startY; y < startY + boxSize; y += side) {  
      for (let x: number = startX; x < startX + boxSize; x += side) {  
        let checker: number = ((x-startX) + (y-startY)) / side;  
        if (checker != 0 && checker % 2 != 0) {  
          ctx.strokeRect(x, y, side, side);  
          drawRecSquares(num, side, x, y);  
        }  
      }  
    }  
  }  
}  
  
drawRecSquares(1/3, canvas.height, 0, 0);
```

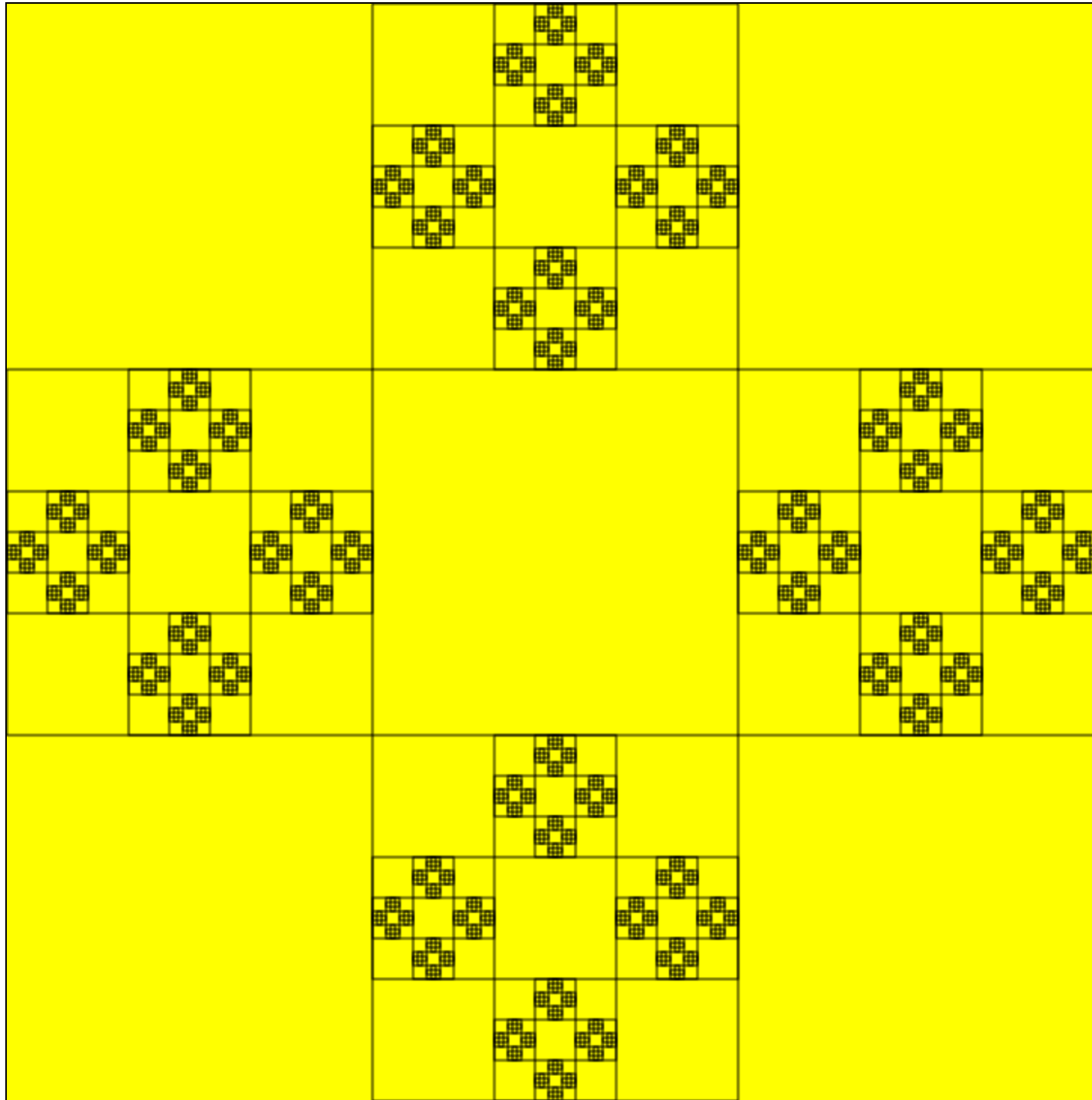
< Draw squares recursively >

```
function drawRecSquares(num: number, boxSize: number, startX: number, startY: number) {  
  let side: number = Math.ceil(boxSize * num);  
  if (side > 1) {  
    for (let y: number = startY; y < startY + boxSize; y += side) {  
      for (let x: number = startX; x < startX + boxSize; x += side) {  
        let checker: number = ((x-startX) + (y-startY)) / side;  
        if (checker != 0 && checker % 2 != 0) {  
          ctx.strokeRect(x, y, side, side);  
          drawRecSquares(num, side, x, y);  
        }  
      }  
    }  
  }  
}  
  
drawRecSquares(1/3, canvas.height, 0, 0);
```


< Draw squares recursively >



< Final >



< Summary / Takeaway >

- ▶ If I prepare during the weekend, I should check the homework during the week as well
- ▶ Drawing: use paper and pen
- ▶ Drawing II: test your drawing in pieces
- ▶ Using FAT arrow functions
- ▶ **STYLEGUIDE!!!!**

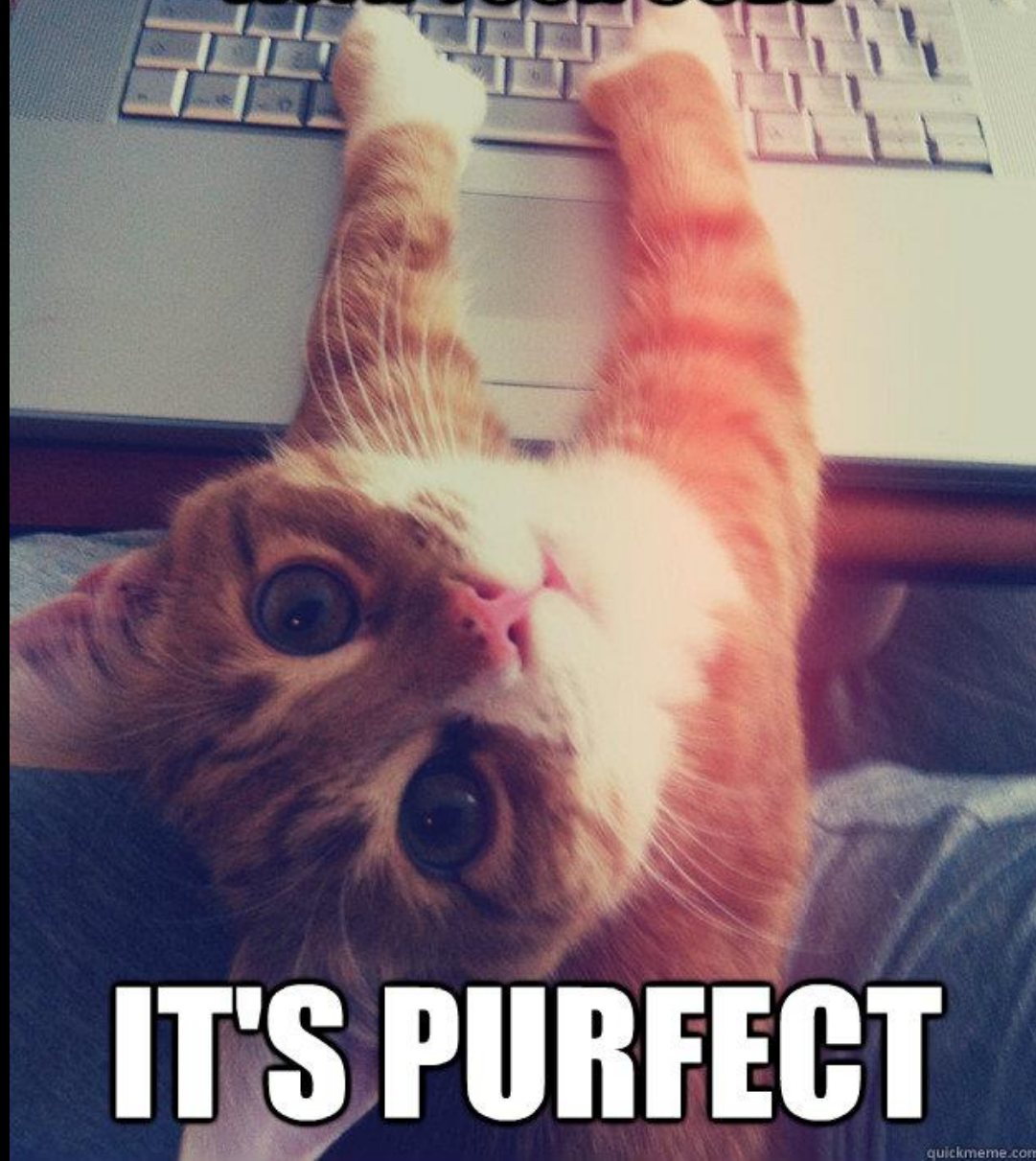
indentation... single quotes...

semicolon...semicolon...SEMICOLONS!!

space here...space there....SPACES!! 😊



**I COULD FIND NO PROBLEMS
WITH YOUR CODE**



IT'S PURFECT



Thank you!



[tundecsapo](https://github.com/tundecsapo)



[Tunde Csapo](https://www.linkedin.com/company/tunde-csapo)