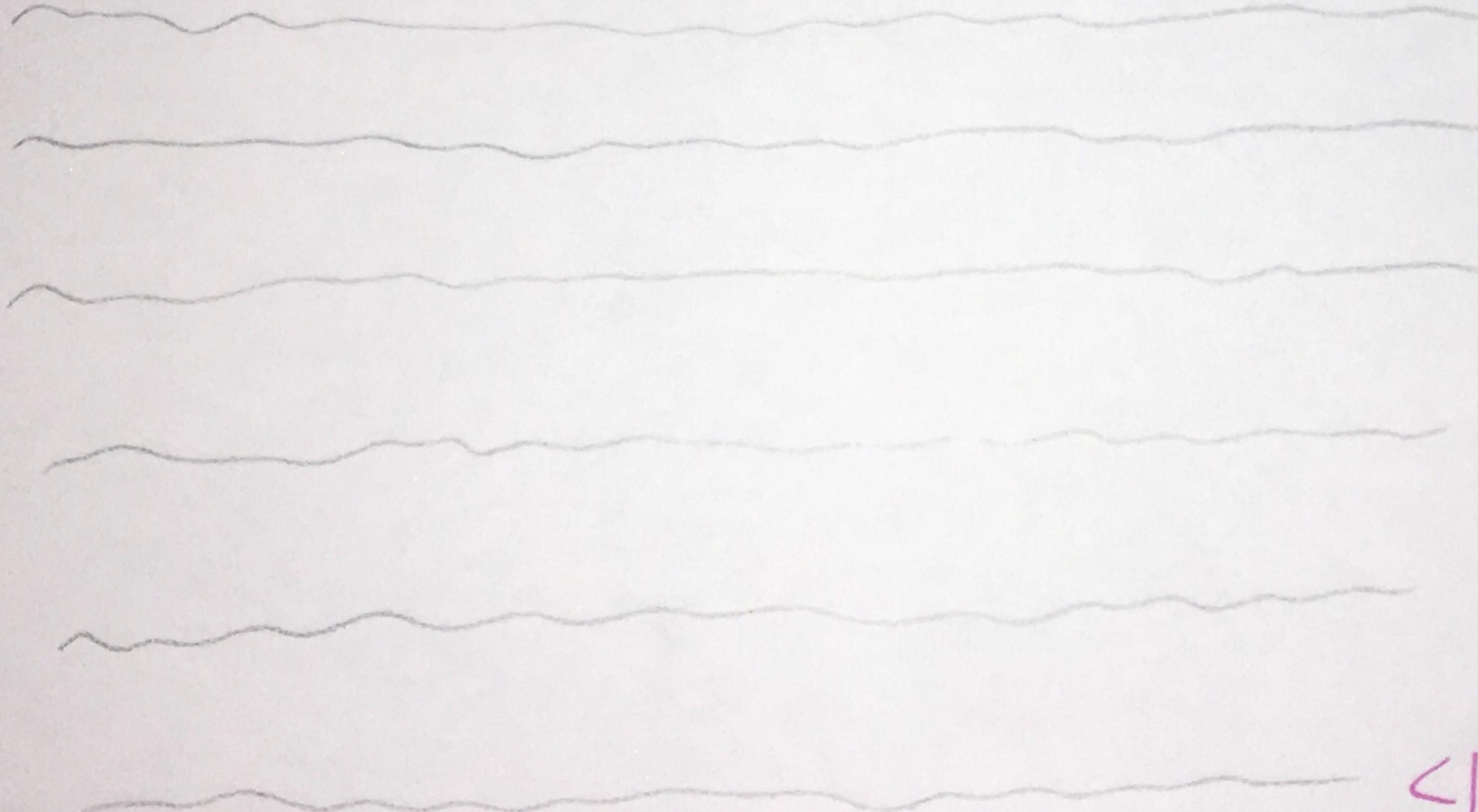


# Startseite.html

```
<html>
<header>
<h1> WILLKOMMEN IM INTERAKTIVEN UNTERWASSER - GAME </h1>
</header>
<main>
<p>
```



```
</p>

<button>
    LET THE GAME BEGIN
</button>
mit Link zur
canvas.html </button>

</main>
</html>
```

index.html

# Kleine Blase

grüner Fisch  
Math. Random

# Spielerfisc math. rondo

Lila Fisc  
math. Rand

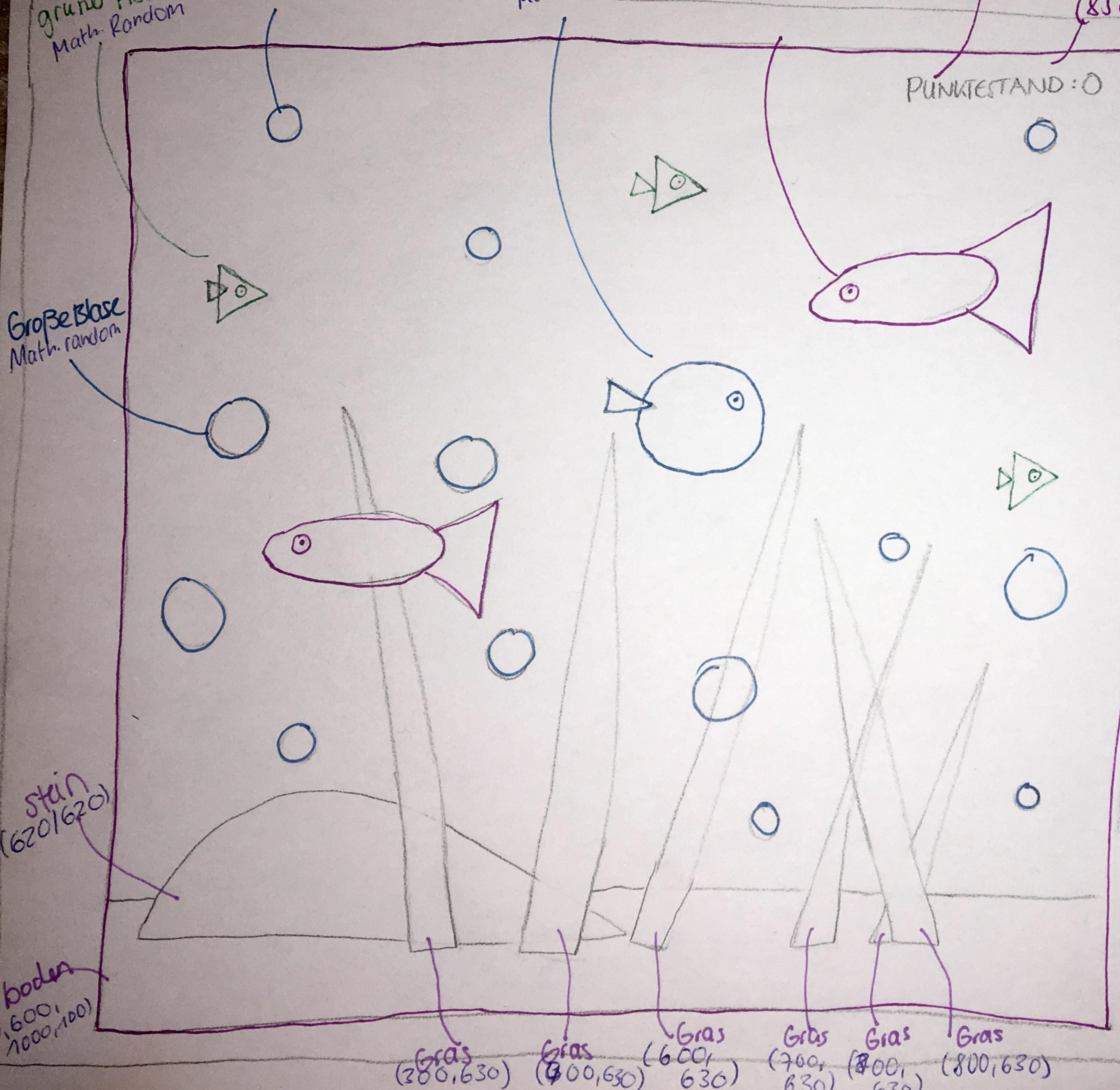
```
<canvas width="1000"  
      />  
      (850, 30)
```

Große Blase  
Math. random

卷之三

Stuñ  
(6201620)

borders  
6000' 100)



## PUNKTESTAND:

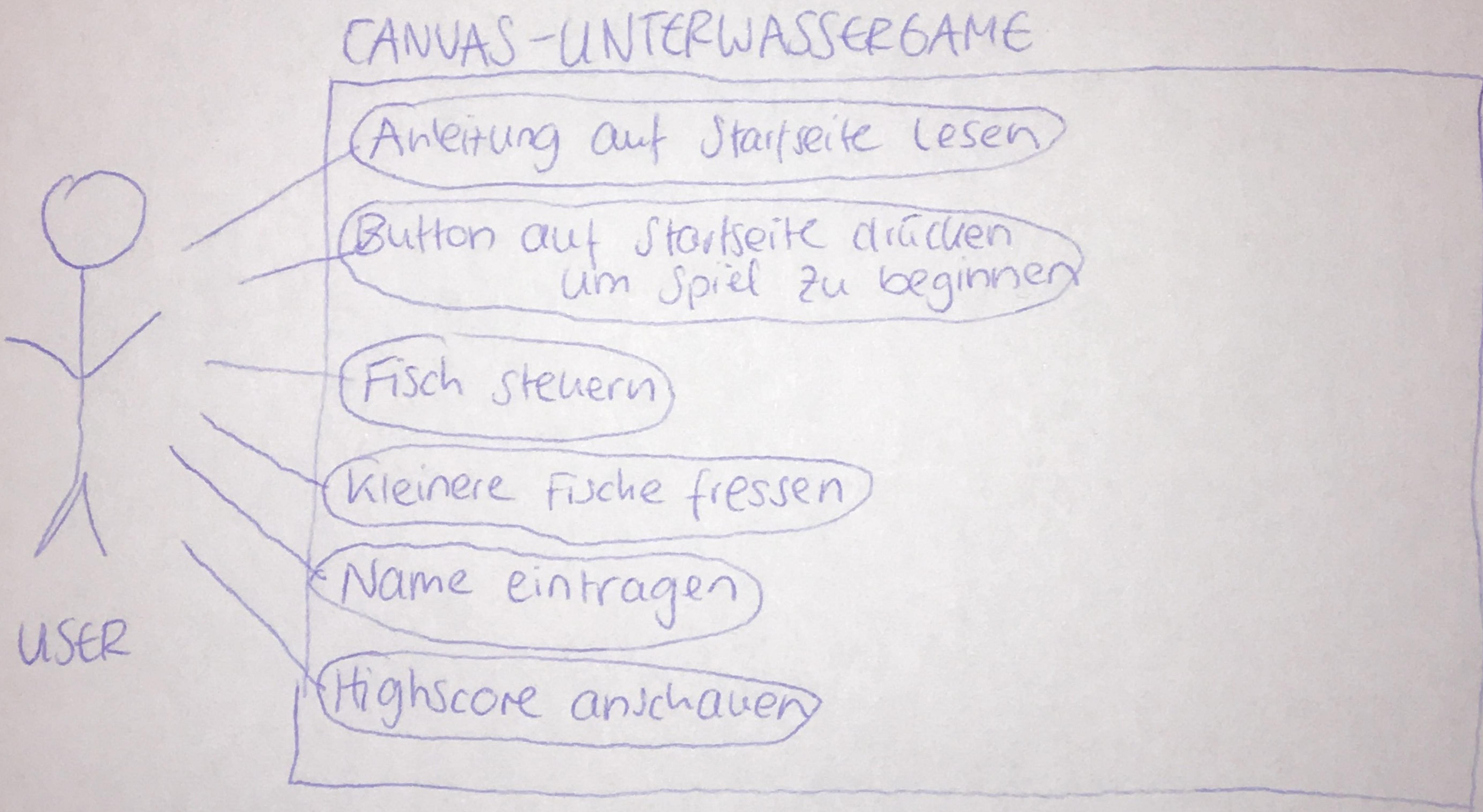
# HIGH SCORES

LISA: 40

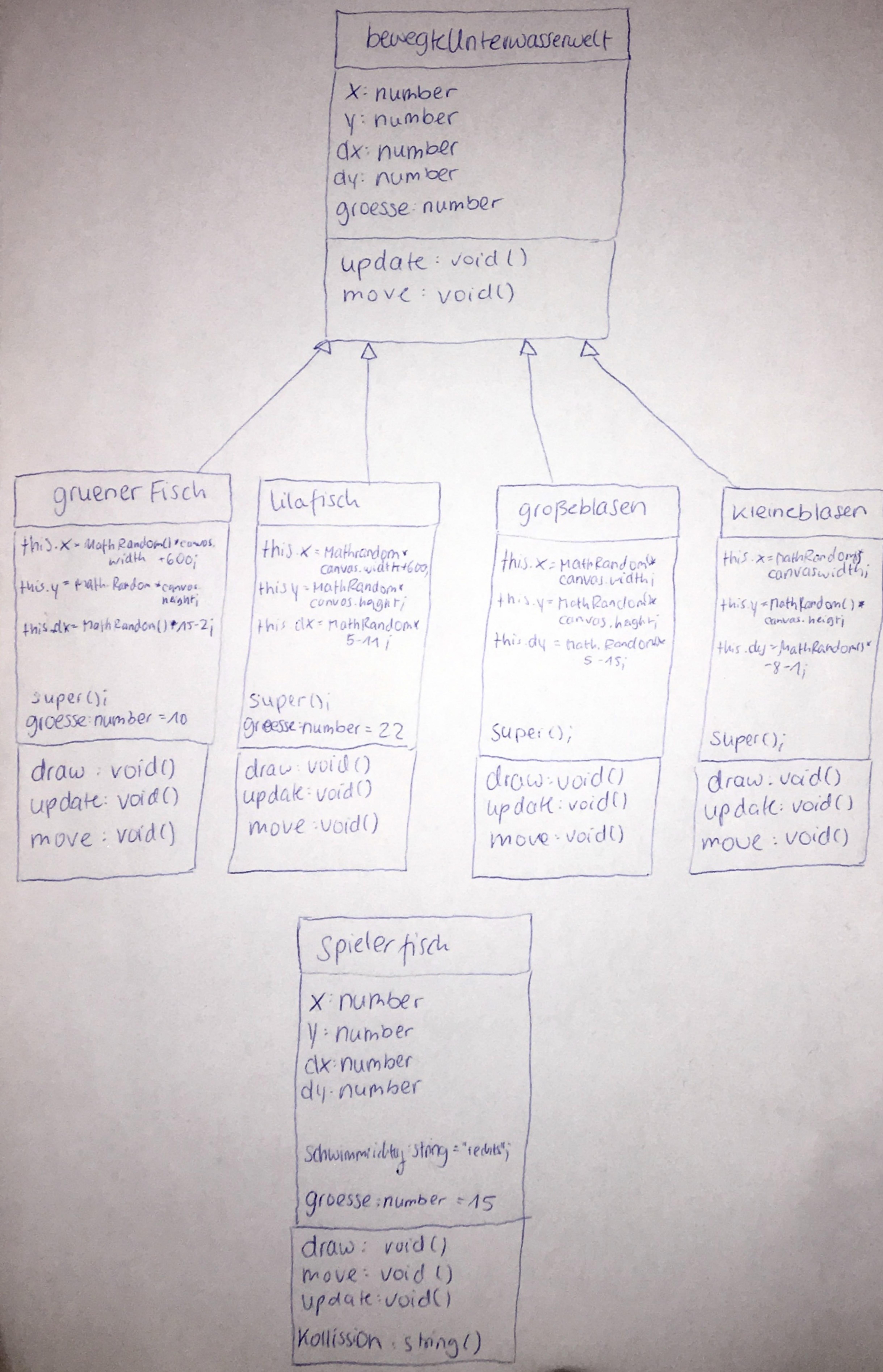
```
<div id="Punktesammlung">  
    <h2>highscore</h2>  
    <p id="NamedID">  
        <p id="RankedID">  
            <h1>HIV</h1>
```

<audio>  
<audio>  
autoplay

# Anwendungsfalldiagramm



# Klassendiagramme



# Hauptprogramm

```
document.addEventListener("DOMContentLoaded", init) {
```

```
let fps: number = 25;  
let spielerfisch: Spielerfisch;  
let imageData: ImageData;  
  
export let crc: CanvasRenderingContext2D;  
export let canvas: HTMLCanvasElement;  
export let bewegtUnterwasserweltArray: BewegtUnterwasserwelt[] = [];  
export let Punktestand: number = 0;  
export let Spielername: String;  
export let timer: number;
```

```
keydown
```

```
moveSpielerfisch()
```

init

```
Canvas = document.getElementById("canvas")[0];
cgc = canvas.getContext("2D");
```

refresh()

Zeichne Hintergrund()

```
imageData = cgc.getImageData(0,0,canvas.width,canvas.height);
Spielerfisch = new SpielerFisch();
```

Spielerfisch.draw()

document.addEventListener("keydown", moveSpielerfisch)

```
let i:number = 0;
```

[ $i \leq 7$ ]

```
let gruen: GruenerFisch
```

```
gruen = new GruenerFisch();
```

bewegteUnterwasserweltArray.push(gruen)

gruen.draw()

```
let i:number = 0;
```

[ $i \leq 7$ ]

```
let lila: LilaFisch
```

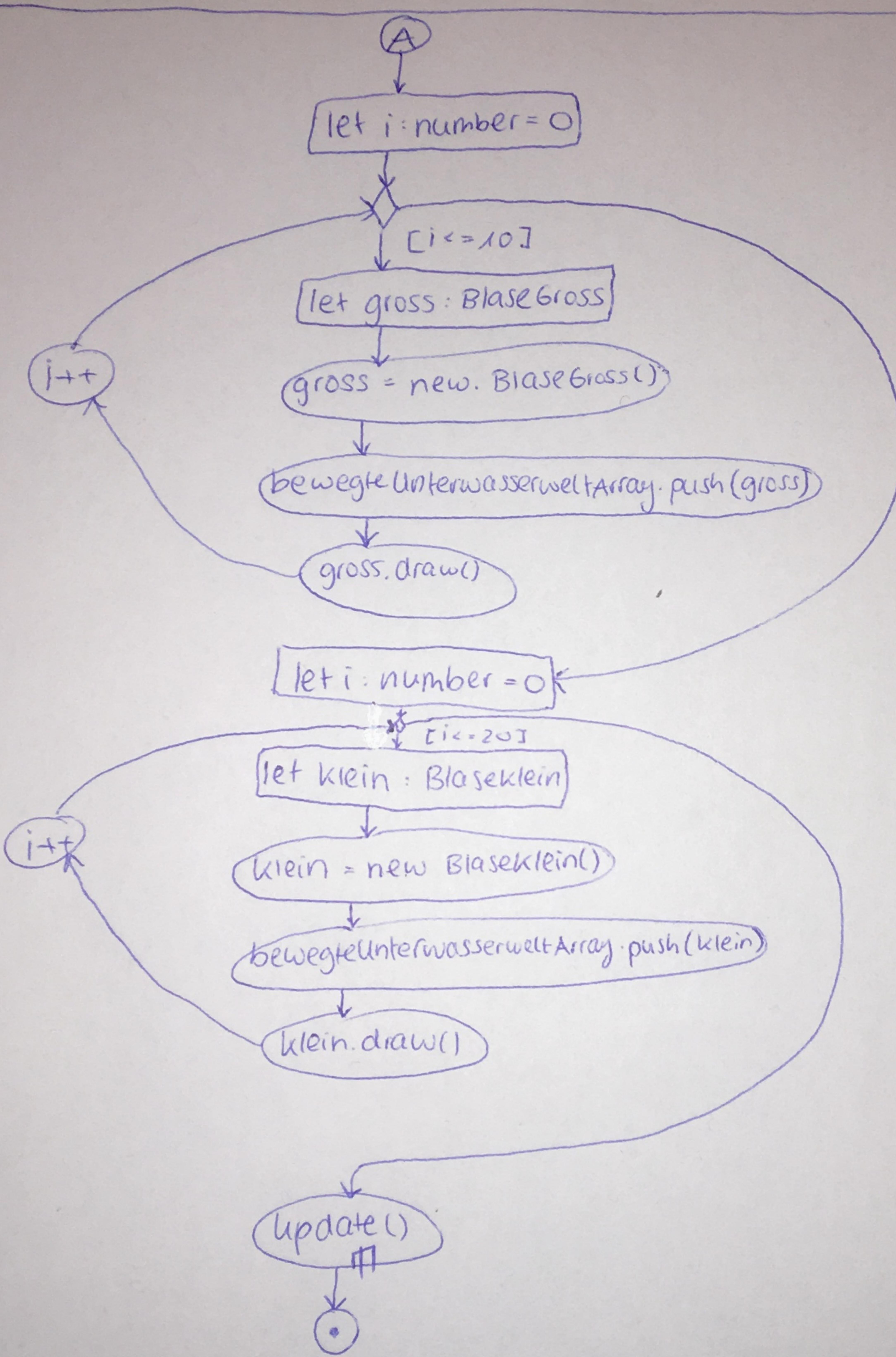
```
lila = new LilaFisch();
```

bewegteUnterwasserweltArray.push(lila)


lila.draw()

(A)


init

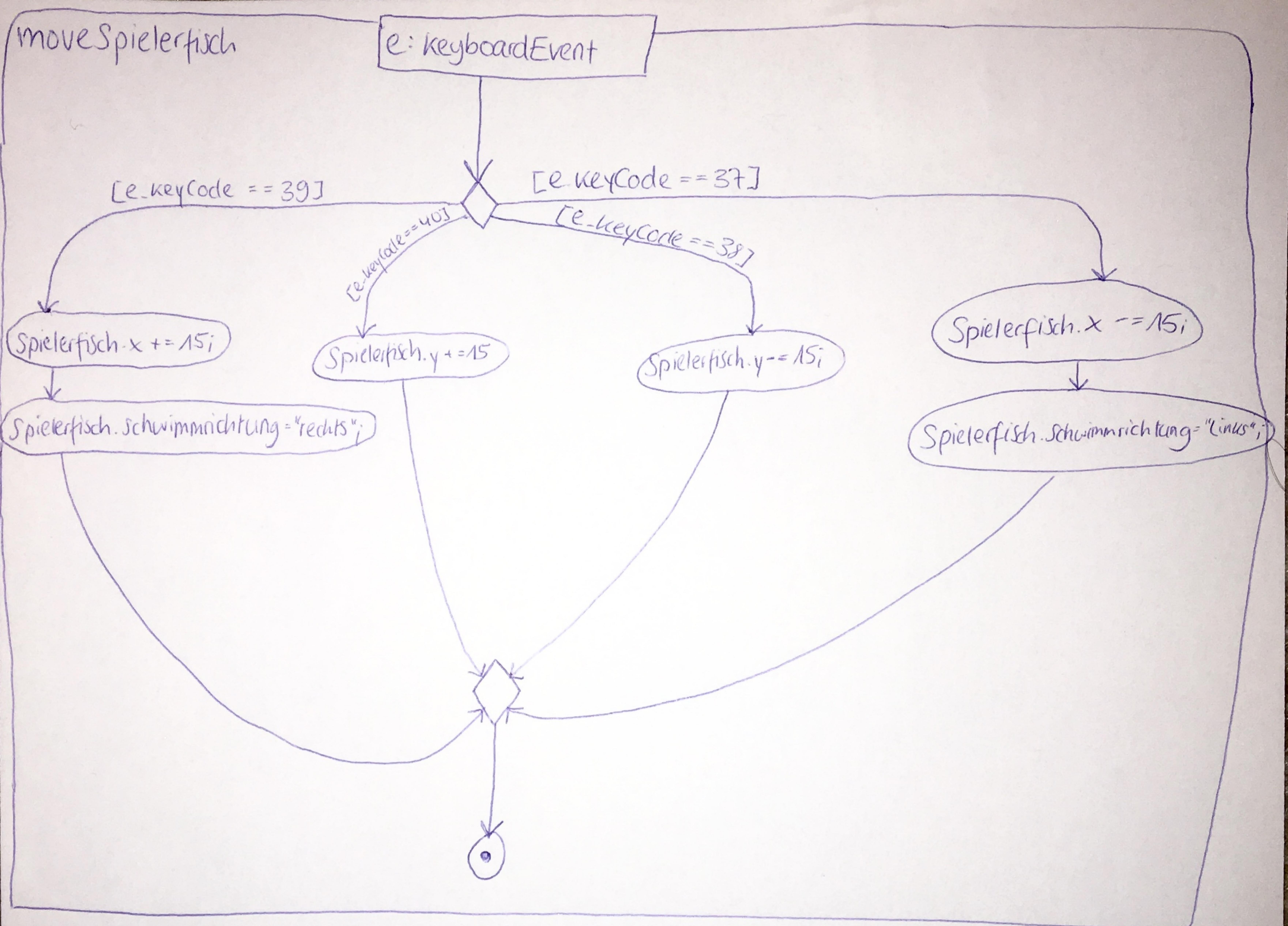


update

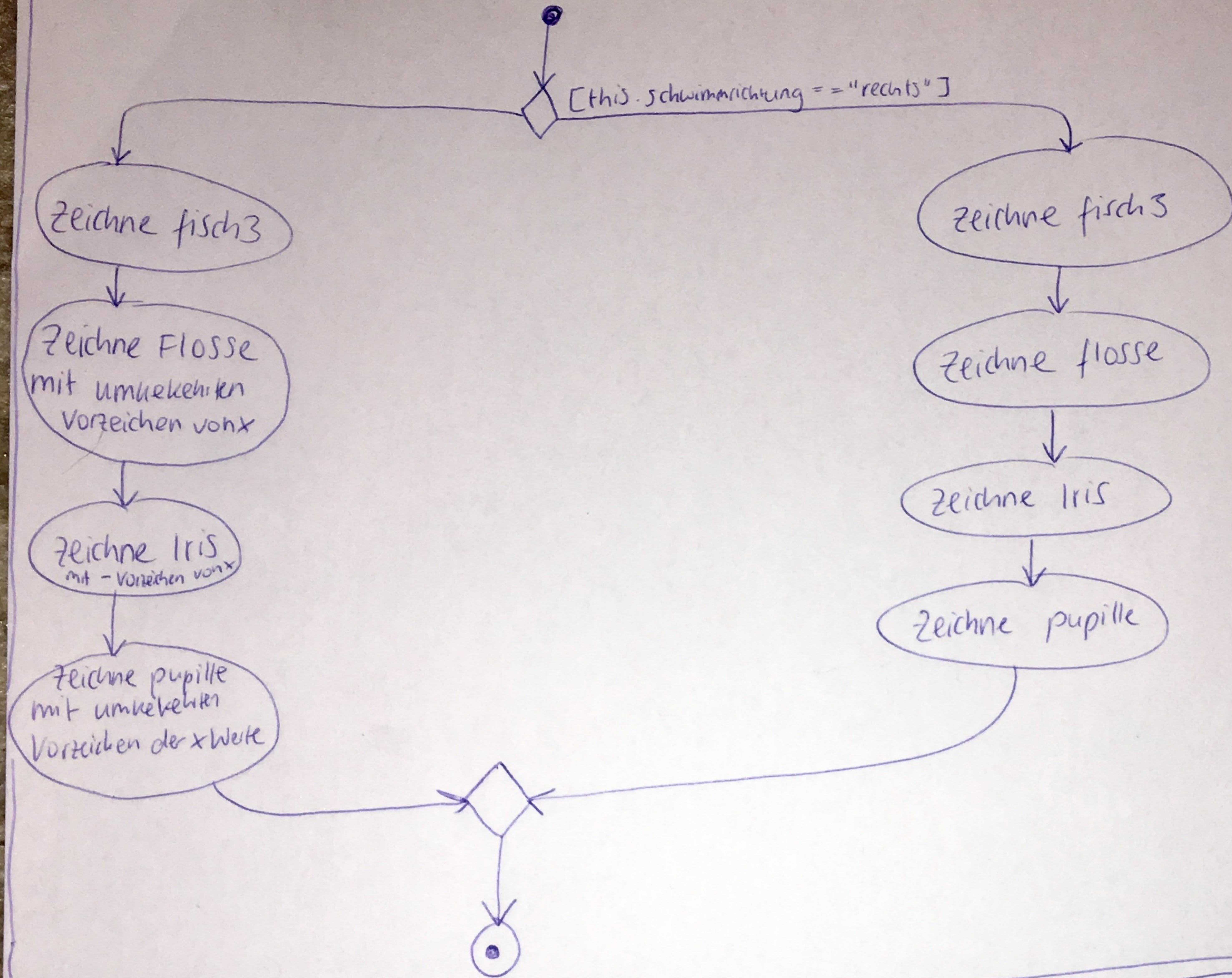


# Zeichne Hintergrund

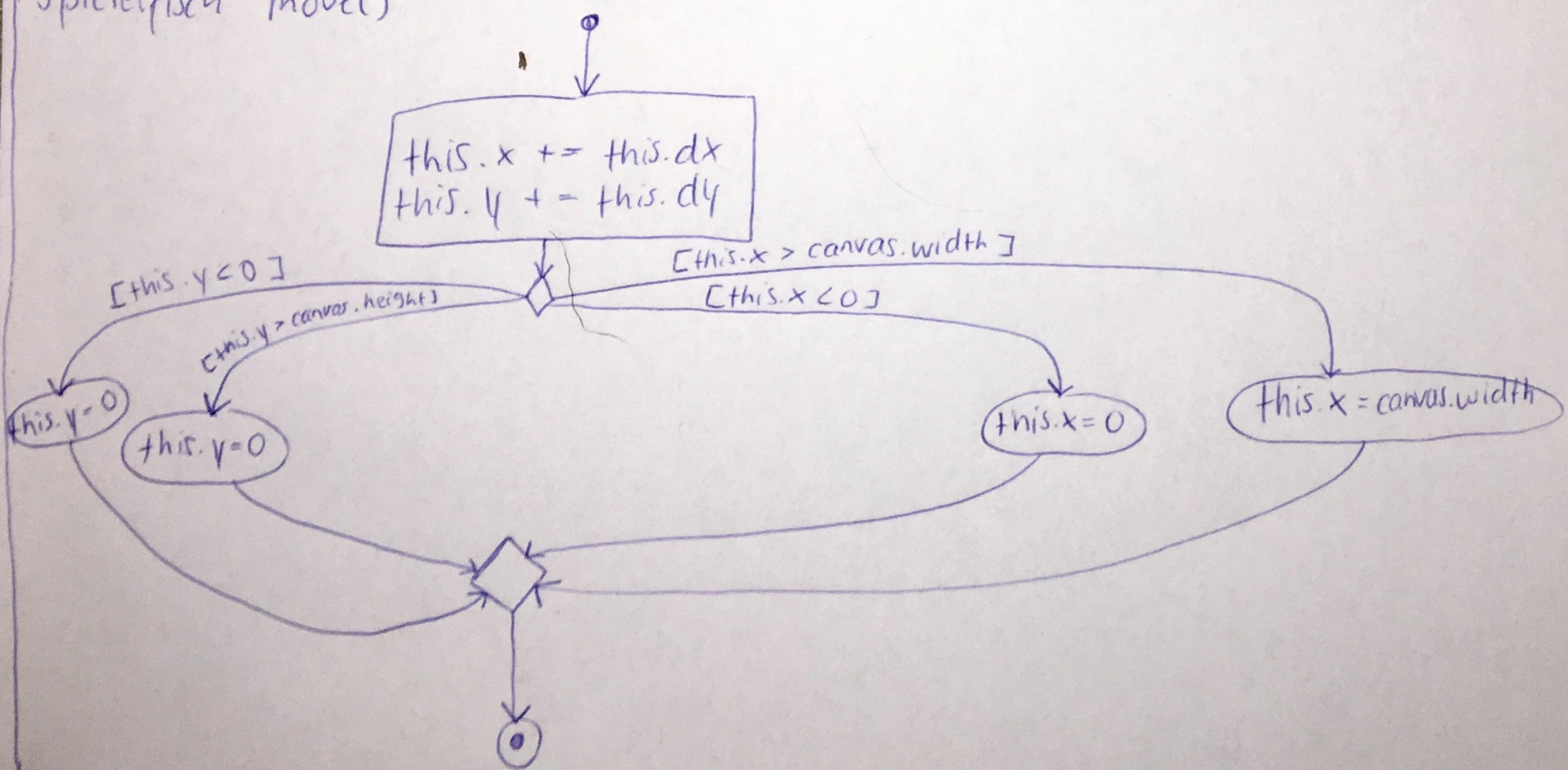




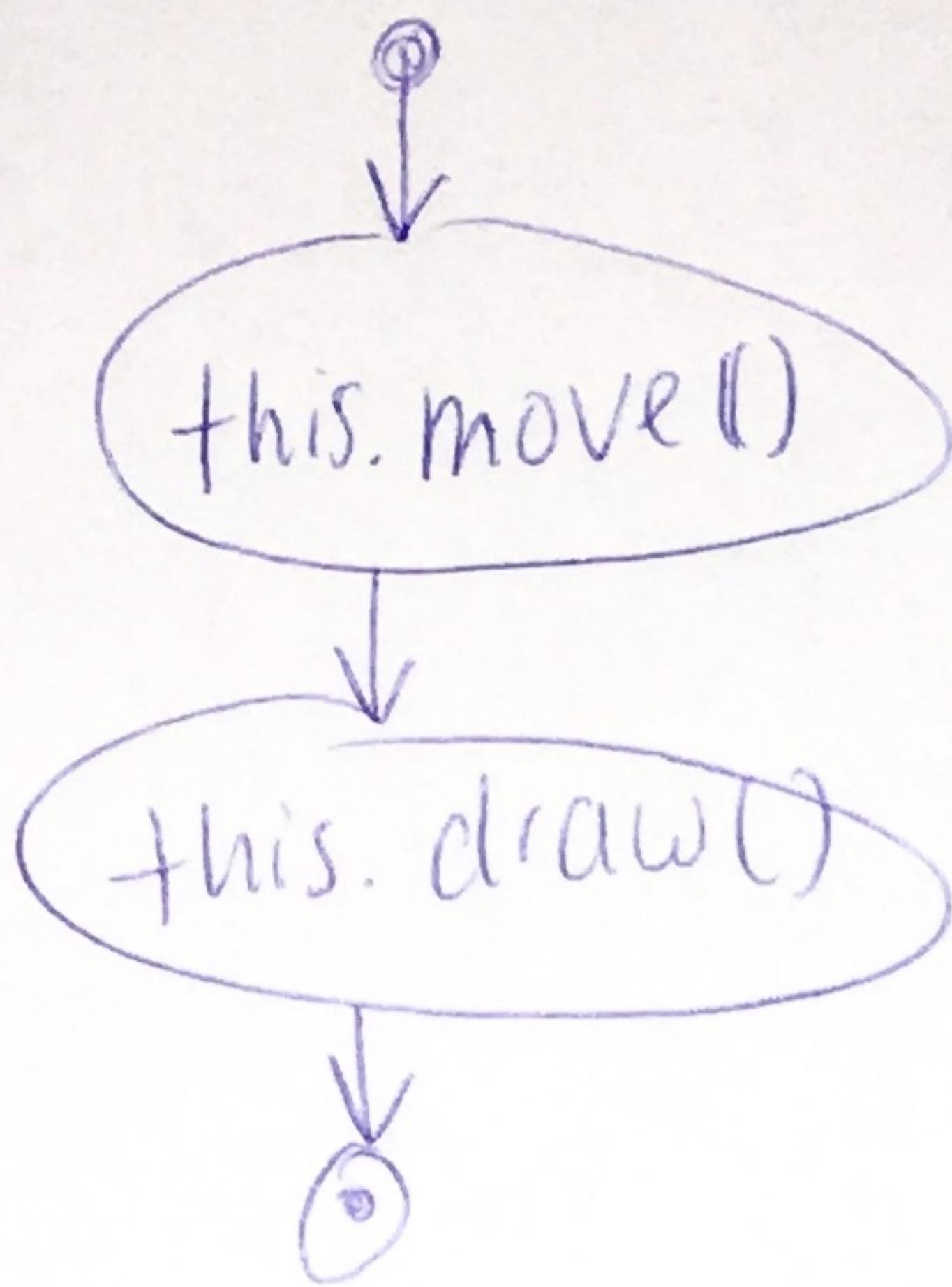
## Spieldfisch draw()




## Spieldfisch move()

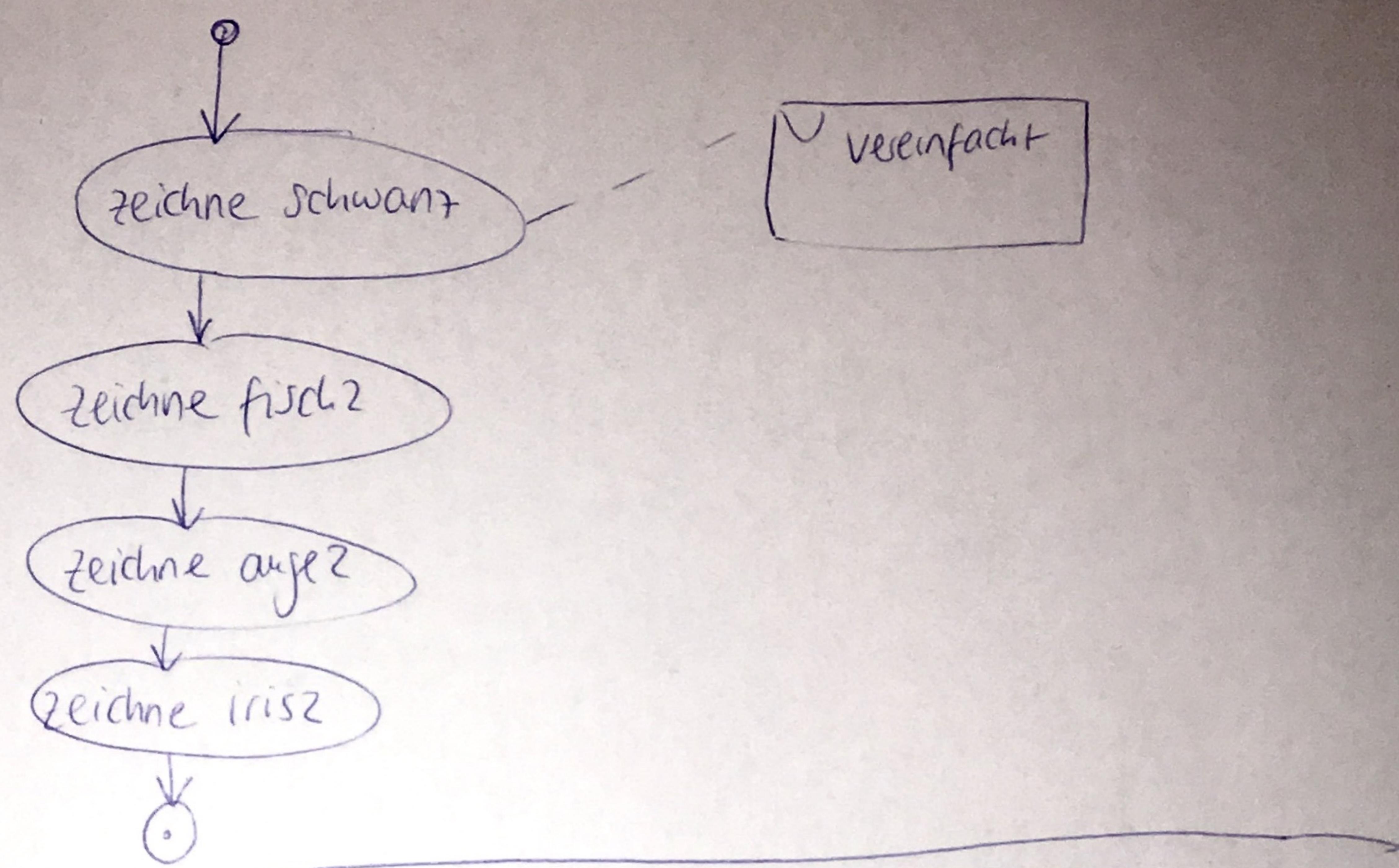


Spielefisch update()

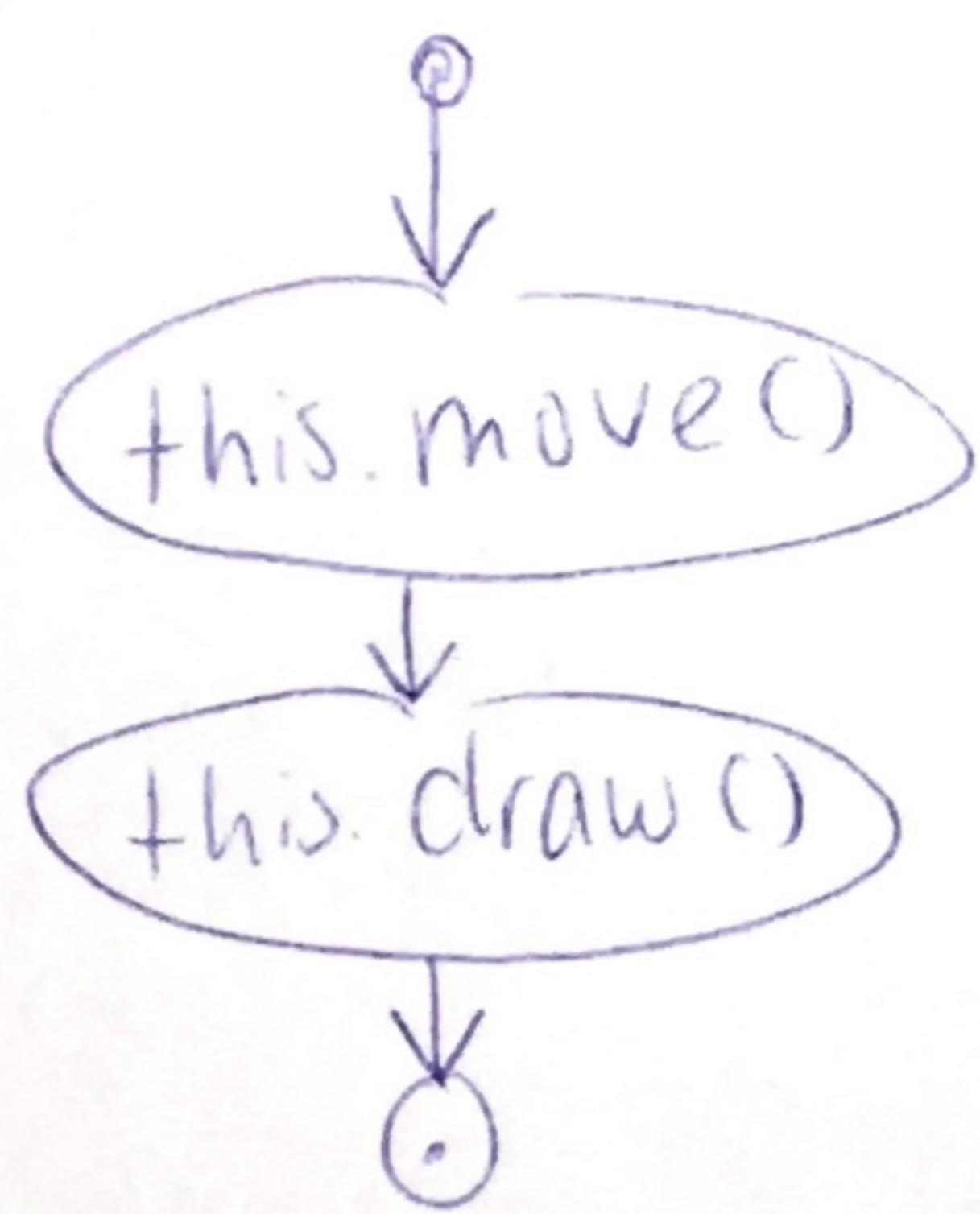




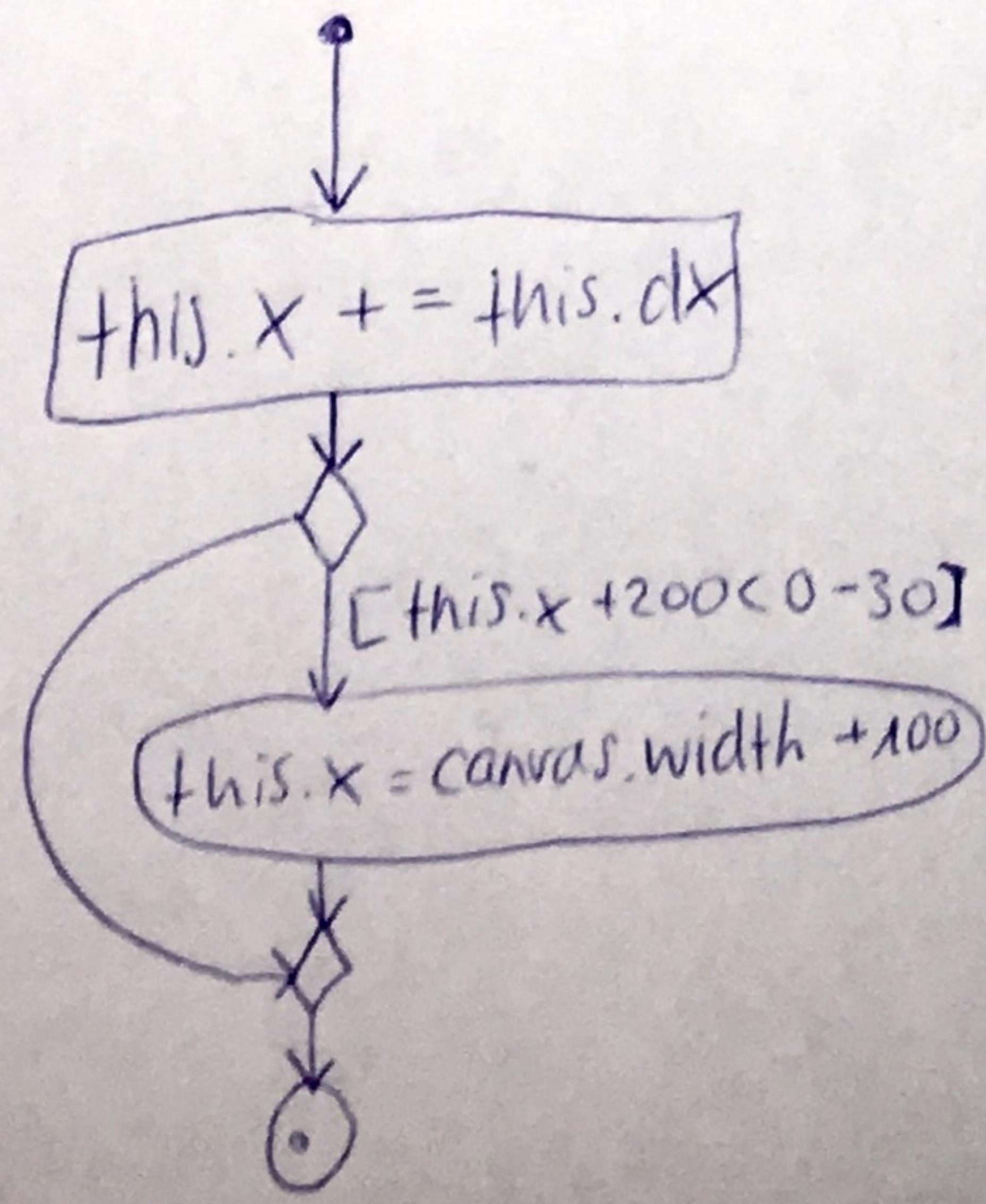
lilafisch draw()



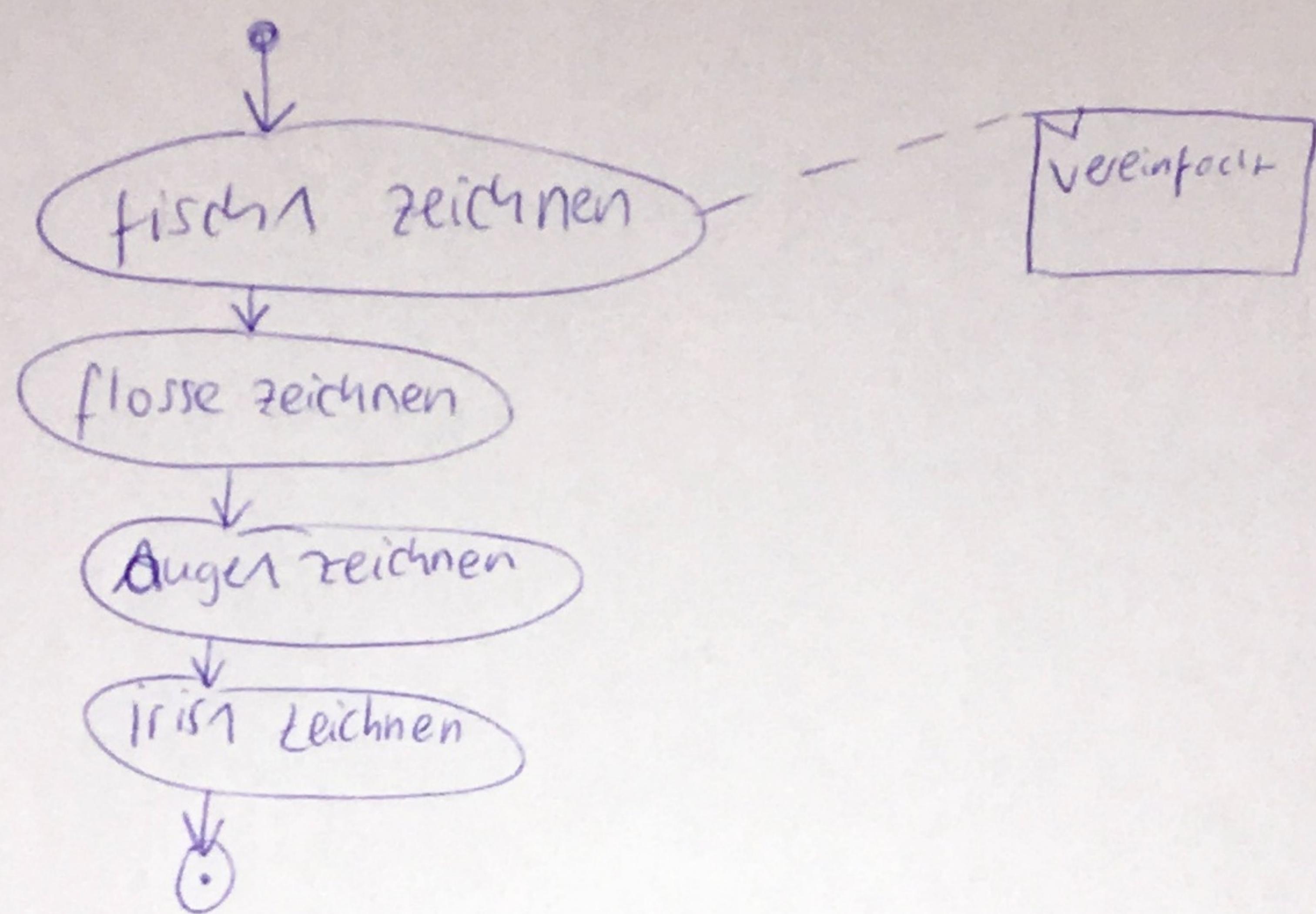
lilafisch update()



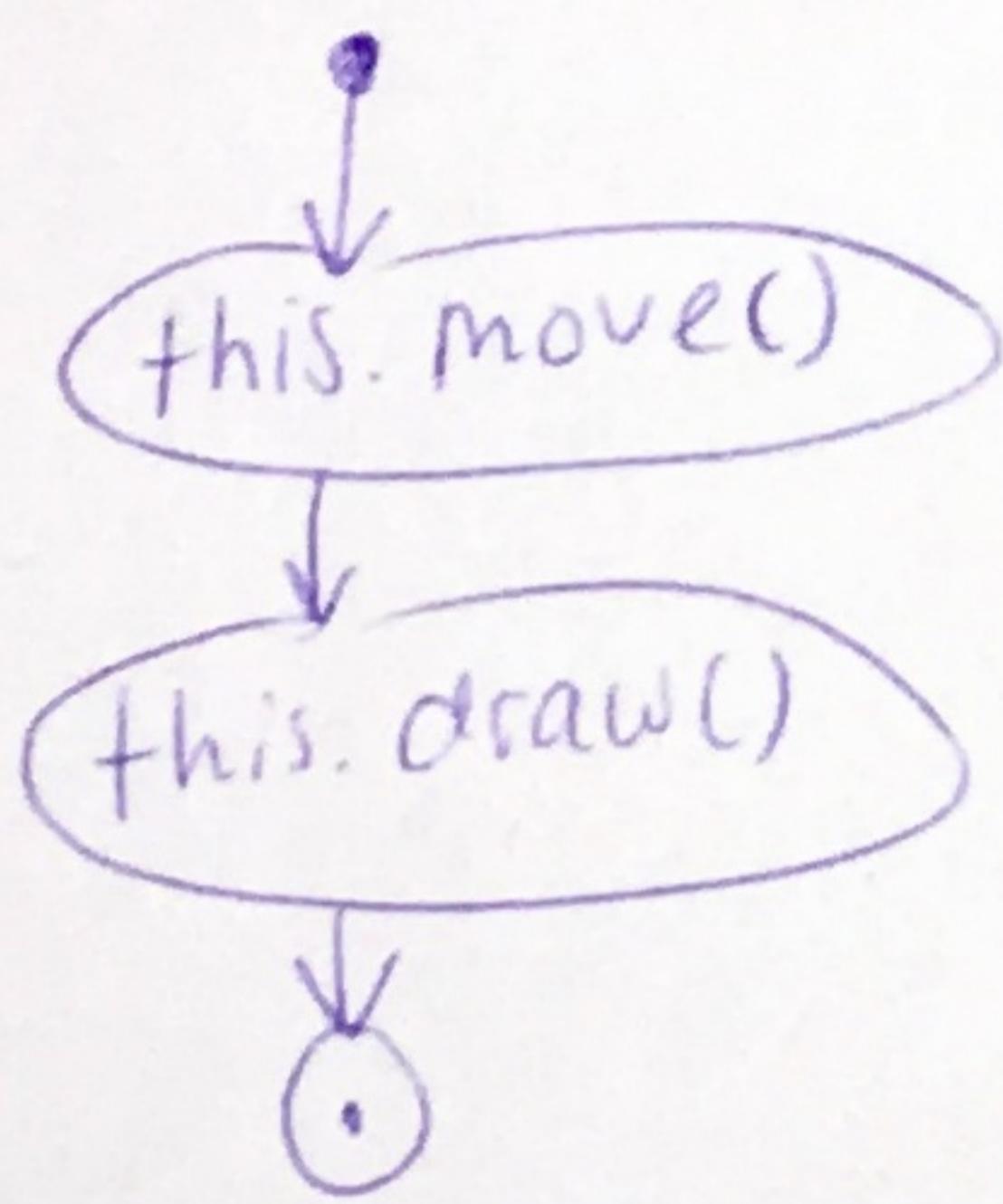
lilafisch move()



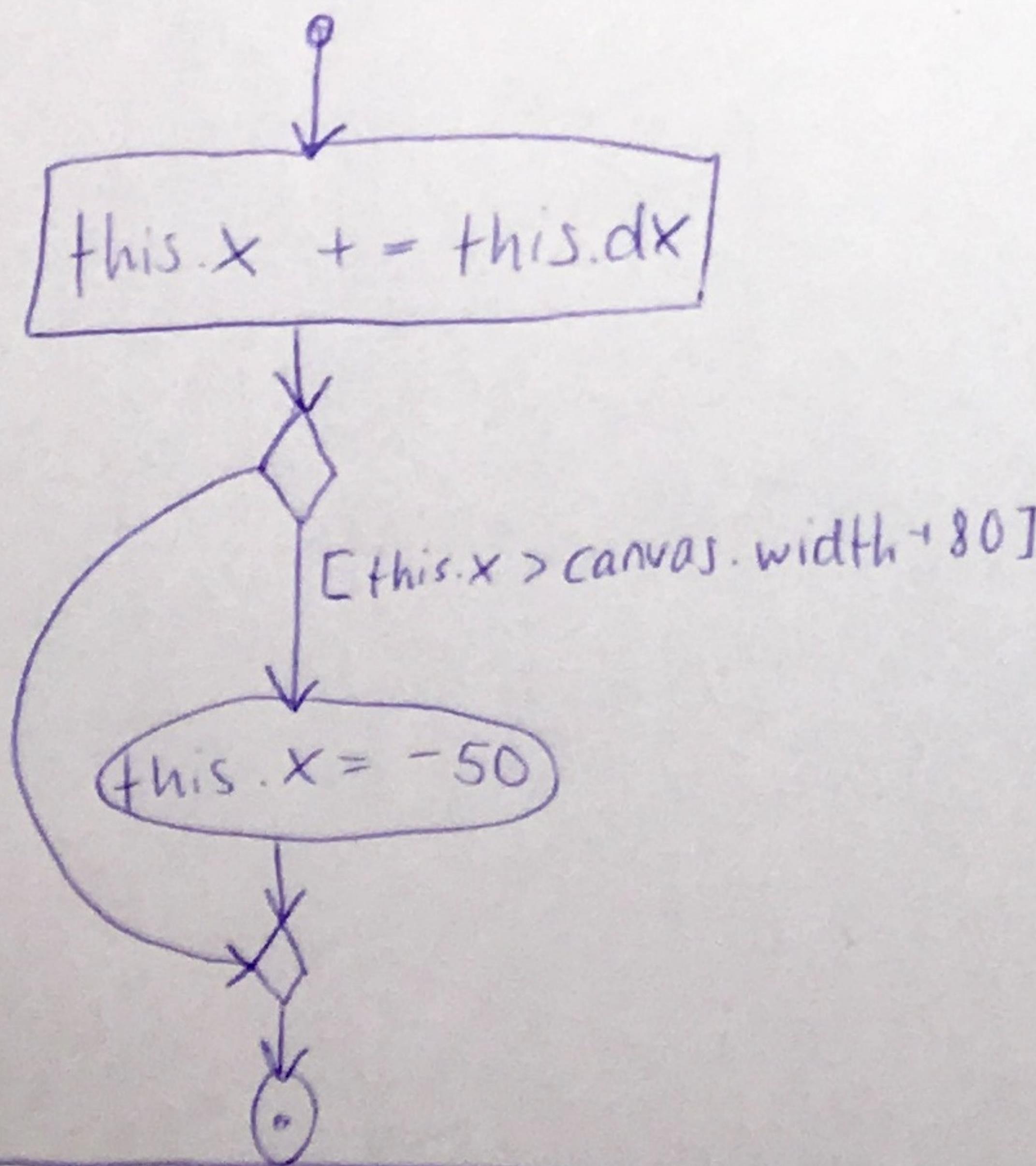
gruenerfisch. draw()



gruenerfisch. update()

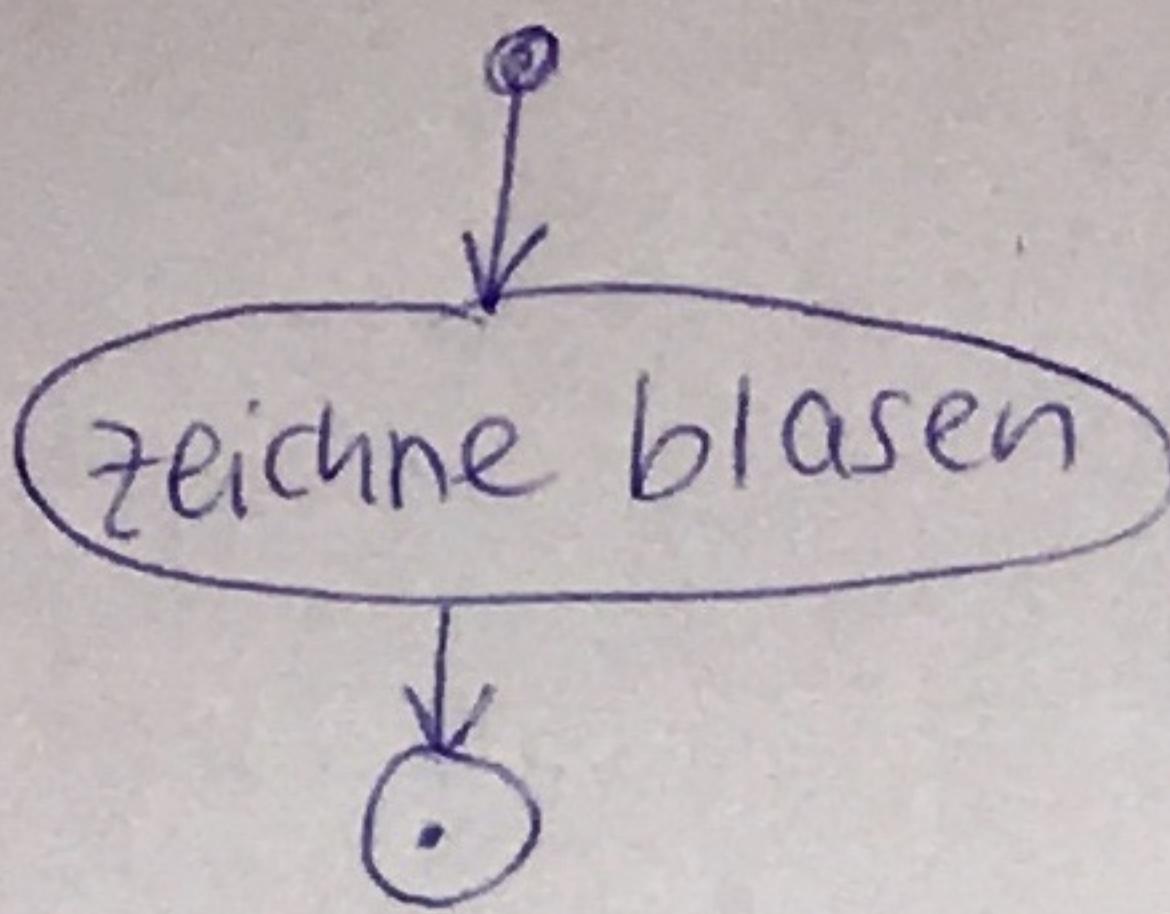


gruenerfisch. move()



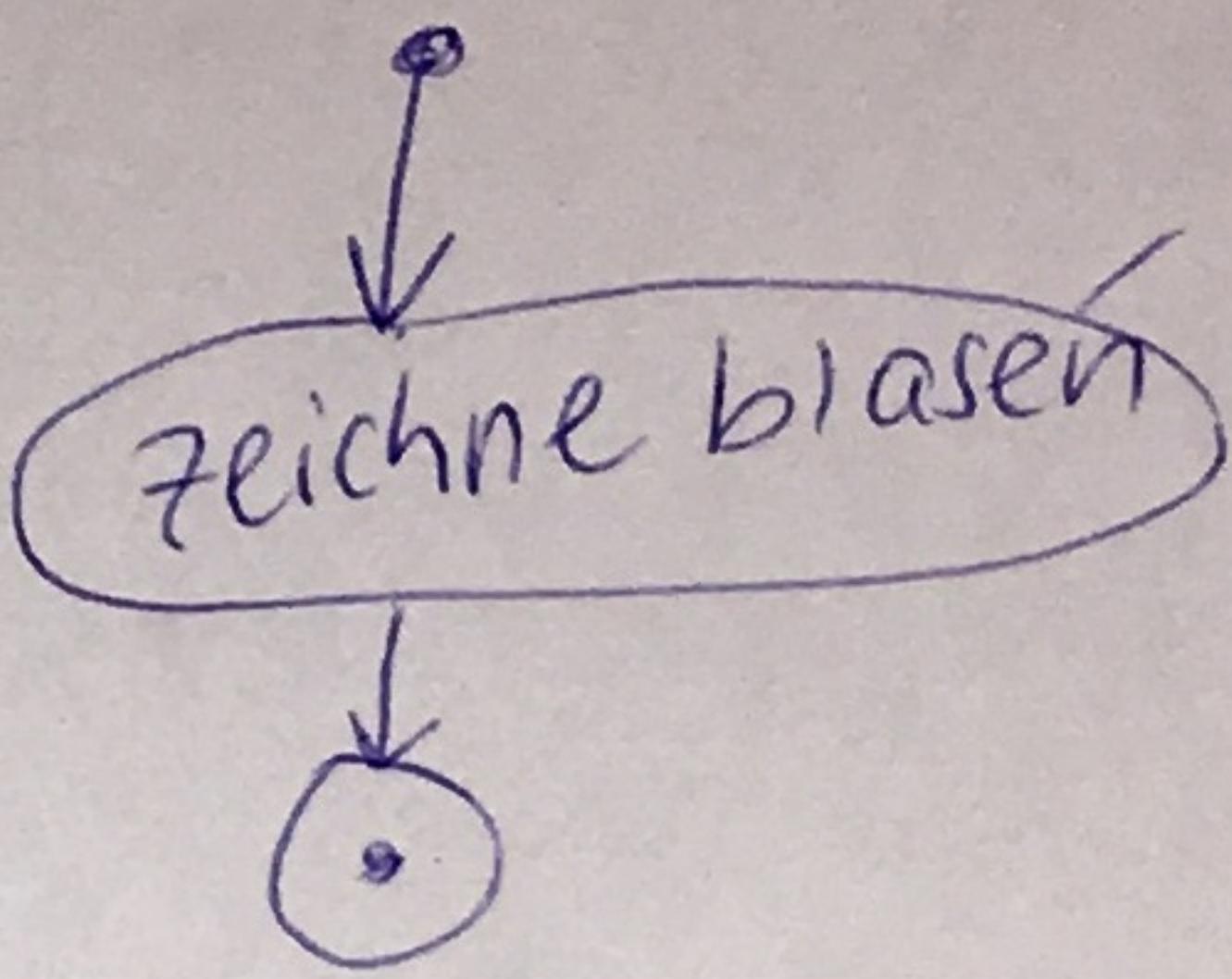
Blasegross. draw()

Vereinfacht

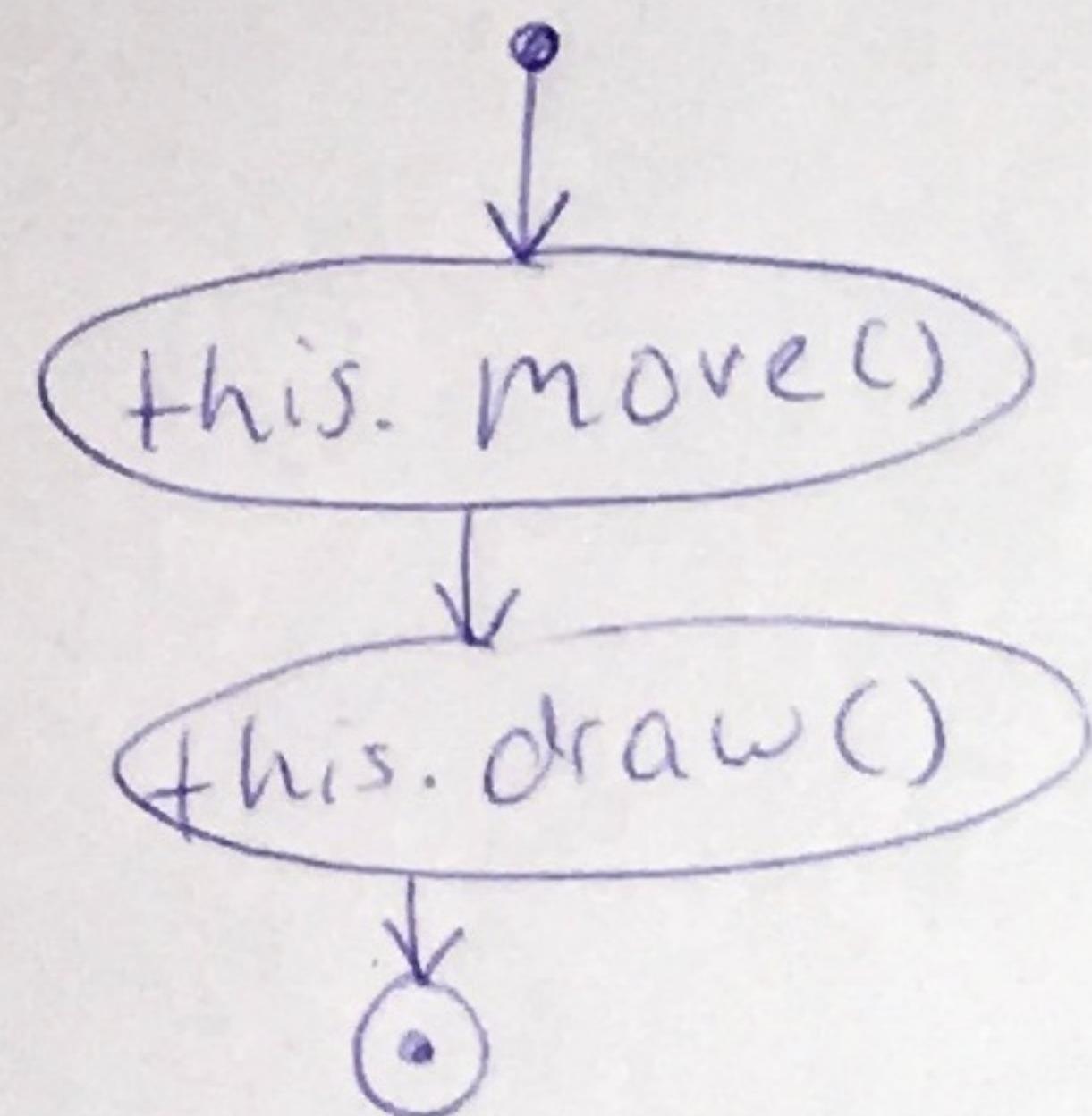


Blaseklein. draw()

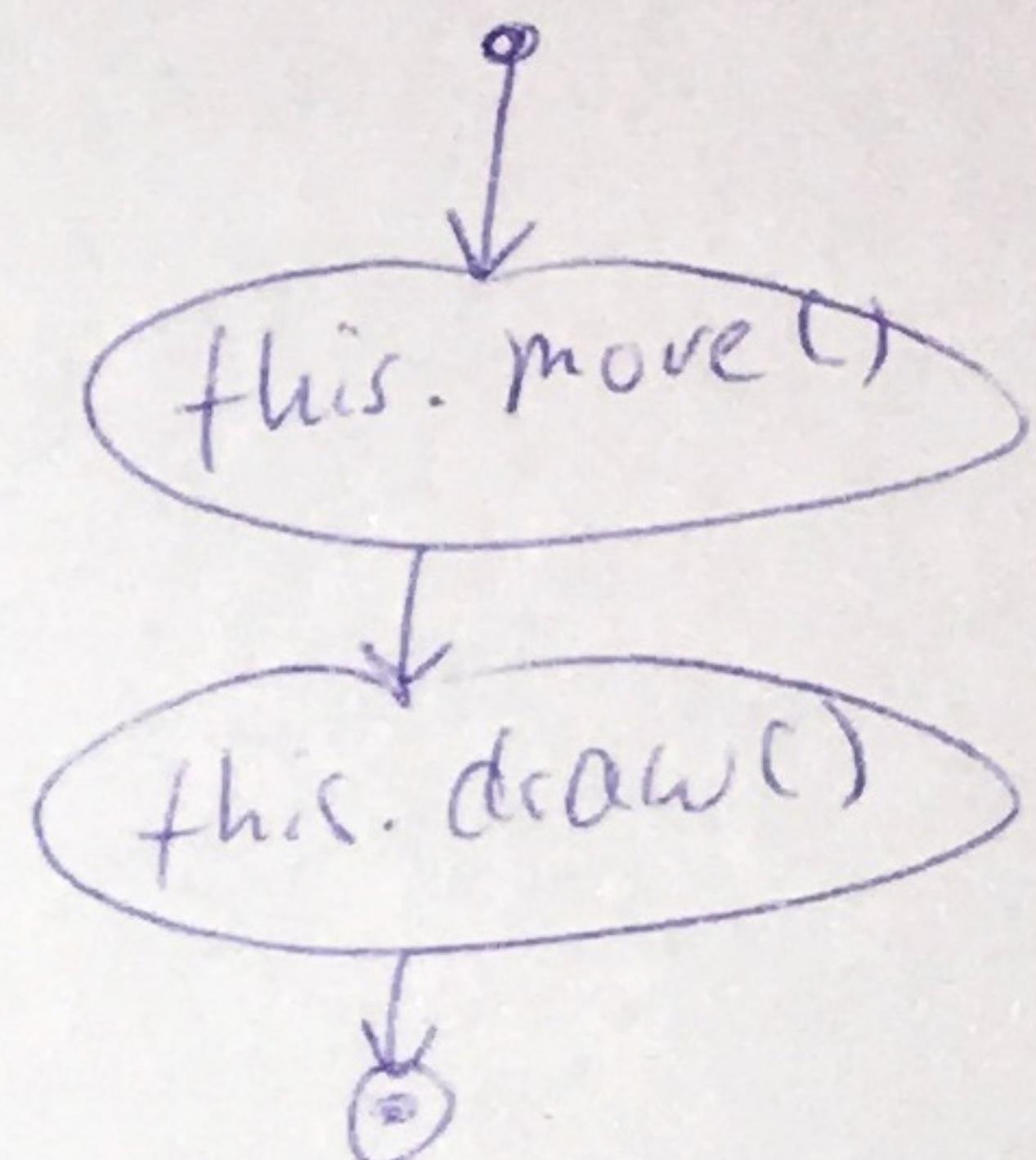
Vereinfacht



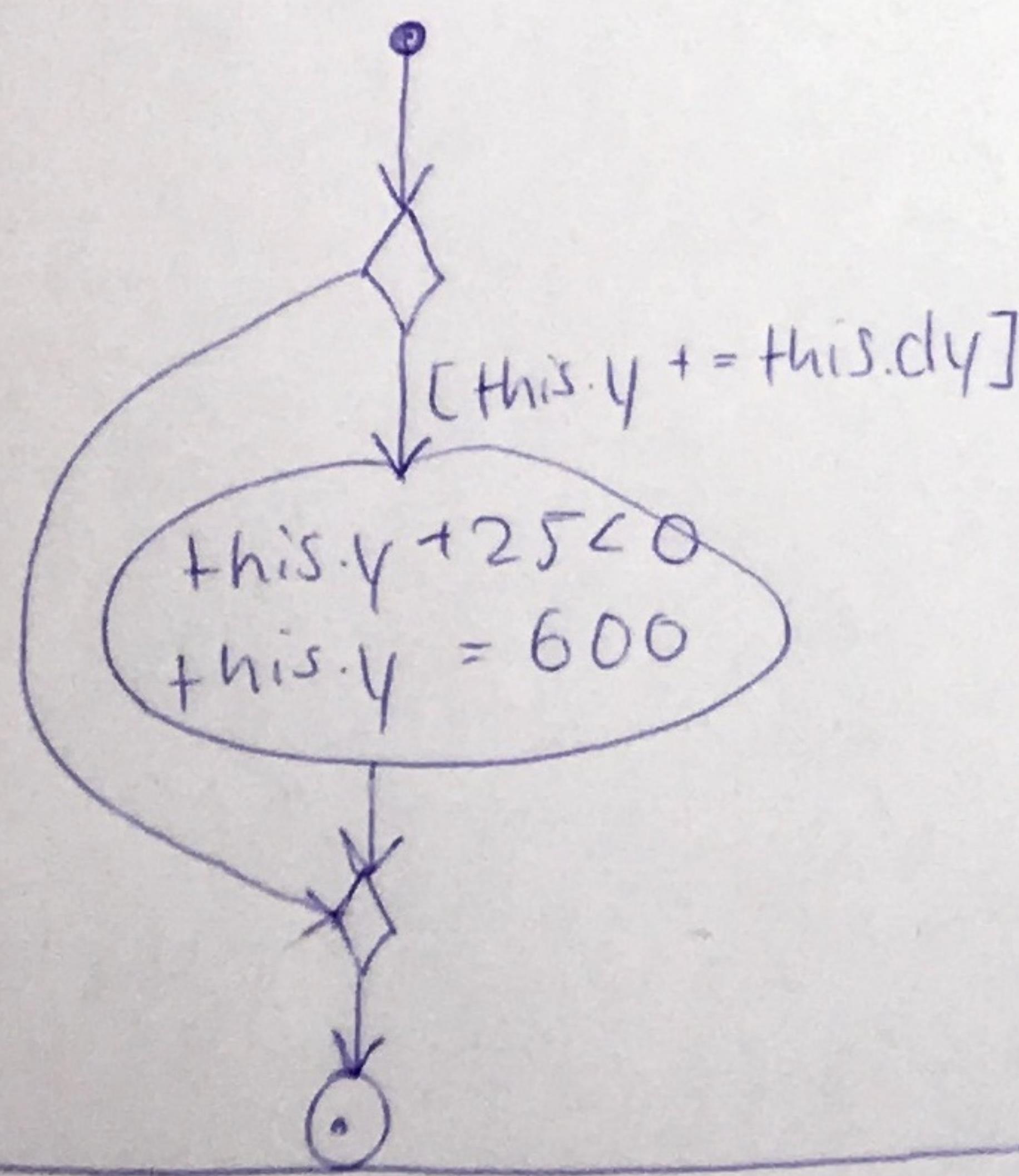
Blasegross. update()



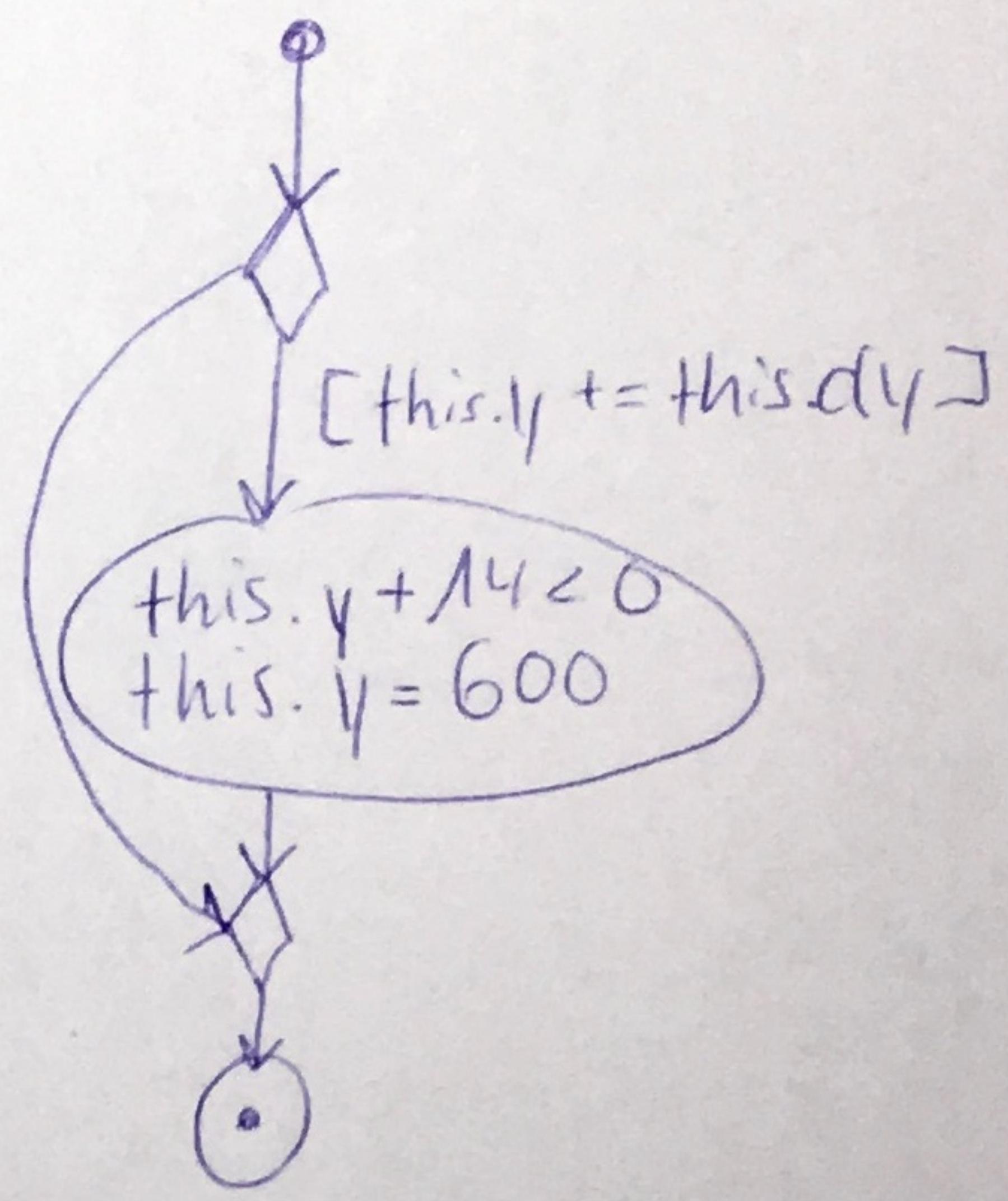
Blaseklein. update()




Blase Gross . move()

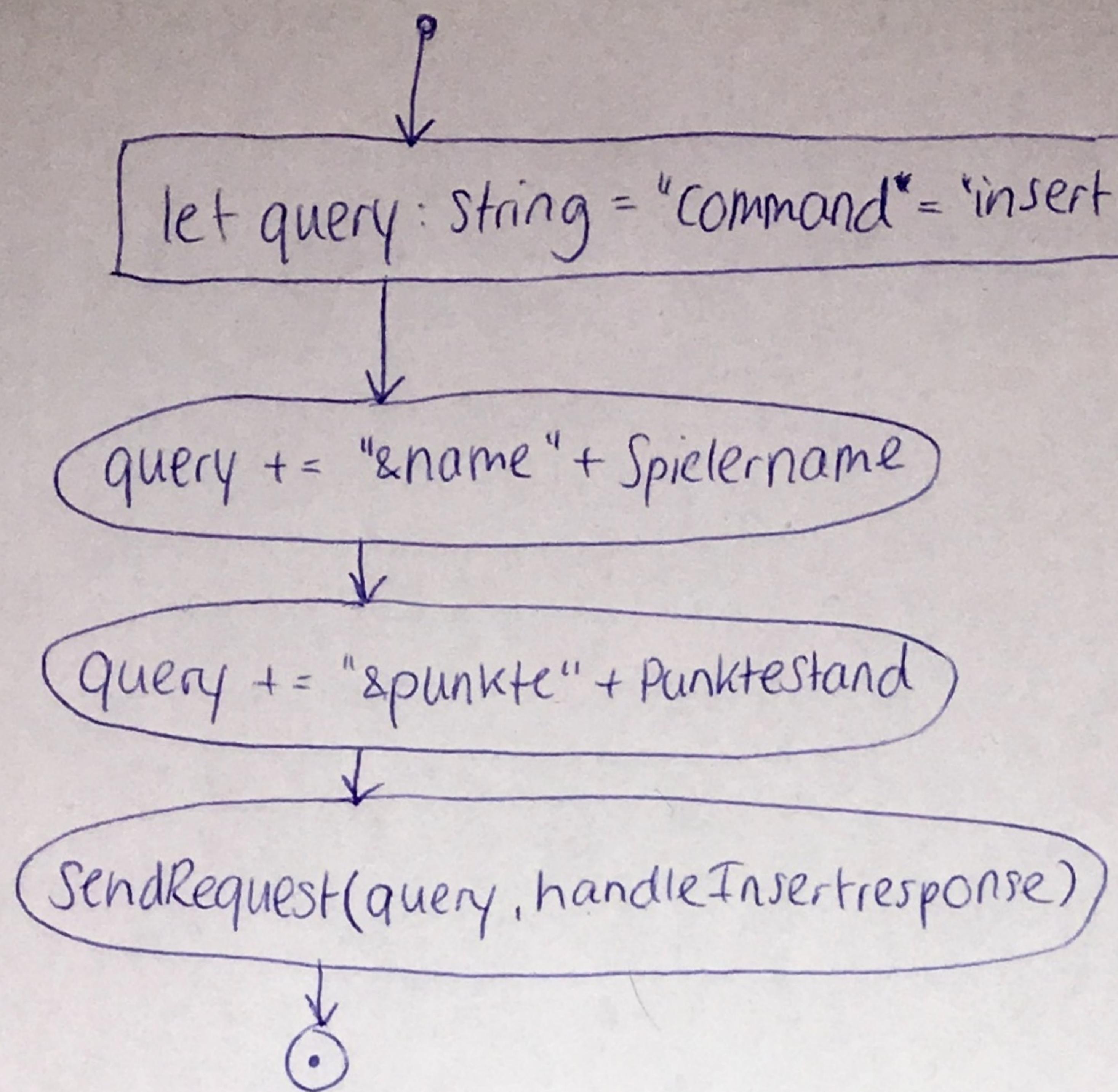


Blase klein move()

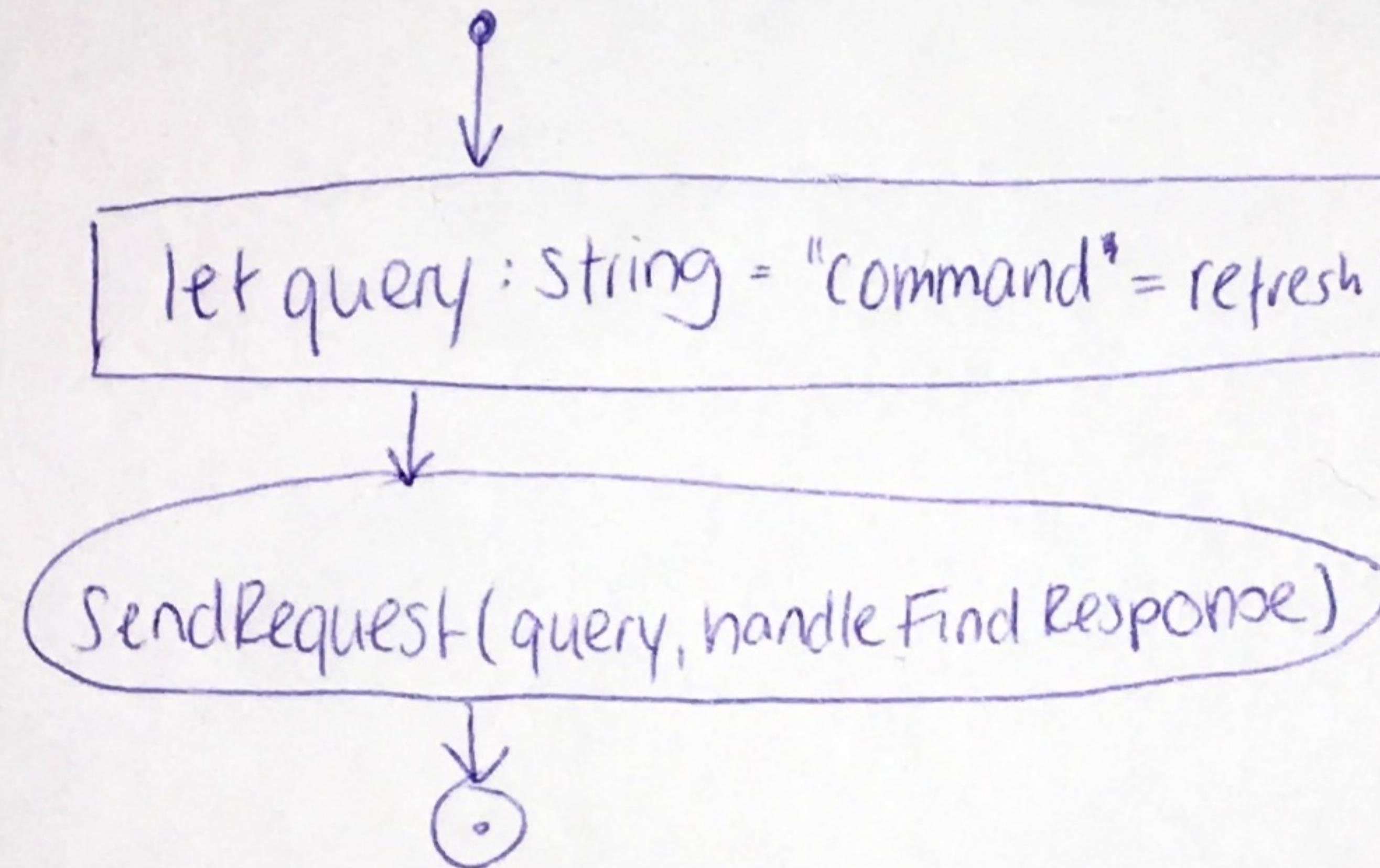




## DB Client insert



## DB Client refresh



## Send Request

```
-query: string, -callback: EventListener
```

```
let xhr : XMLHttpRequest =  
    new XMLHttpRequest()
```

```
xhr.open("GET", serveraddress + "?" + -query, true)
```

```
xhr.addEventListener("readystatechange", -callback)
```

```
xhr.send()
```


## handleInserResponse

```
-event: ProgressEvent
```

```
let xhr: XMLHttpRequest =  
(<XMLRequest>-event.target)
```

```
if xhr.readyState == XMLHttpRequest.DONE
```

```
Alert(xhr.response)
```



# Rangliste

\_1: Spieler, \_2: Spieler: number

[-1.punkte < -2.punkte]

[\_1.punkte > -2.punkte]

1

0

-1

<< interface >>

Punkteliste

[key:string]:string;

<< interface >>

Spieler

name: string;  
punkte: number;

types.ts