

5

backgroundcolor

`id = "mycanvas"`

`editable` `id="edit"` `id = "x"`

`canvas`

`id="small"` `id = "medium"` `id="large"`

`circle`

`400 || 600 || 800 width`

`400 || 600 || 800 width`

`placeCircle`
`id = "circle"`

`color change`

`id = "purple"` `id = "pink"` `id = "blue"`

`3 radiobuttons / gleiche Radiogruppe`

`rectangle`

`placeRectangle`
`id = "rect"`

`3 button → plaziert Kreise auf
Canvas`

`color change`

`id = "purple"` `id = "pink"` `id = "blue"`

`3 radiobuttons / gleiche Radiogruppe`

`animation`

`<div id = "animations"></div>`

`save and load`

`if id = "save"`

`} Button`

`saved pictures`



`} buttons`

6

Anwendungsfelddiagramm

Anwender kann Kreise / Formen plazieren

Formen können bewegt werden (dragging)

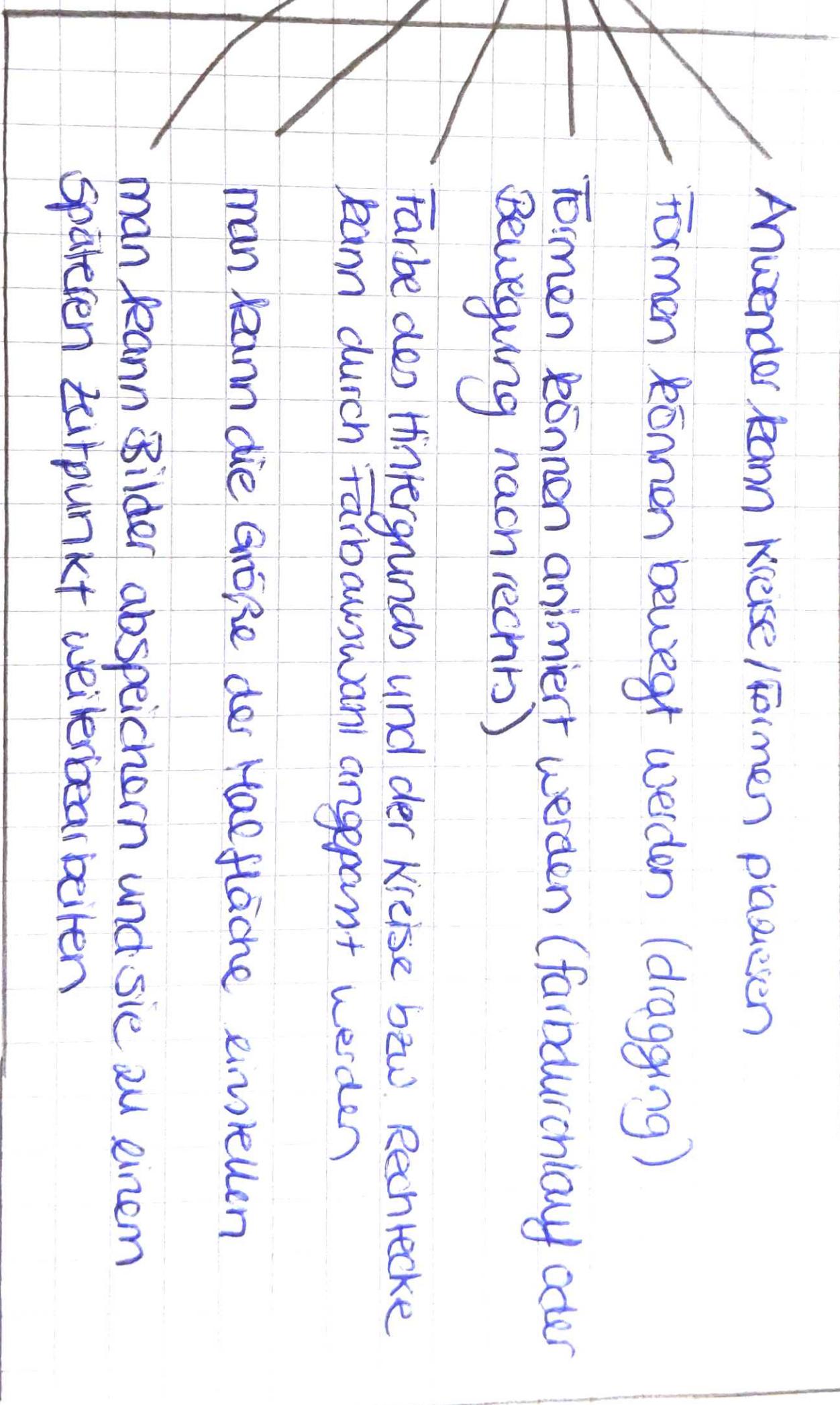
Formen können animiert werden (farbdurchlauf oder Bewegung nach rechts)

Anwender

Farbe des Hintergrunds und der Kreise bzw. Rechtecke kann durch Farbauswahl angepasst werden

man kann die Größe der Mausfläche einstellen

man kann Bilder abspeichern und sie zu einem späteren Zeitpunkt weiter bearbeiten



dragObjects

```
circleArray.splice(pushedObjects, 1)  
draggedObject = true  
document.getElementById("animations").innerHTML = ""
```

colorObjects

```
colorArray.push(changedArray[0])  
changedArray.splice(0, 1)  
circleArray.splice(pushedObjects, 1)
```

```
i: number = 0
```

```
i++
```

```
for i < colorArray.length
```

```
document.getElementById("animations").innerHTML = ""  
circleArray.push(colorArray[i])  
colorArray.splice(0, 1)
```

```
buttonsAreCreated = false
```

Save

```
let saveName: string = prompt("name")  
insert(saveName) //
```

picture-1

```
rebuild(0) //
```

picture-2

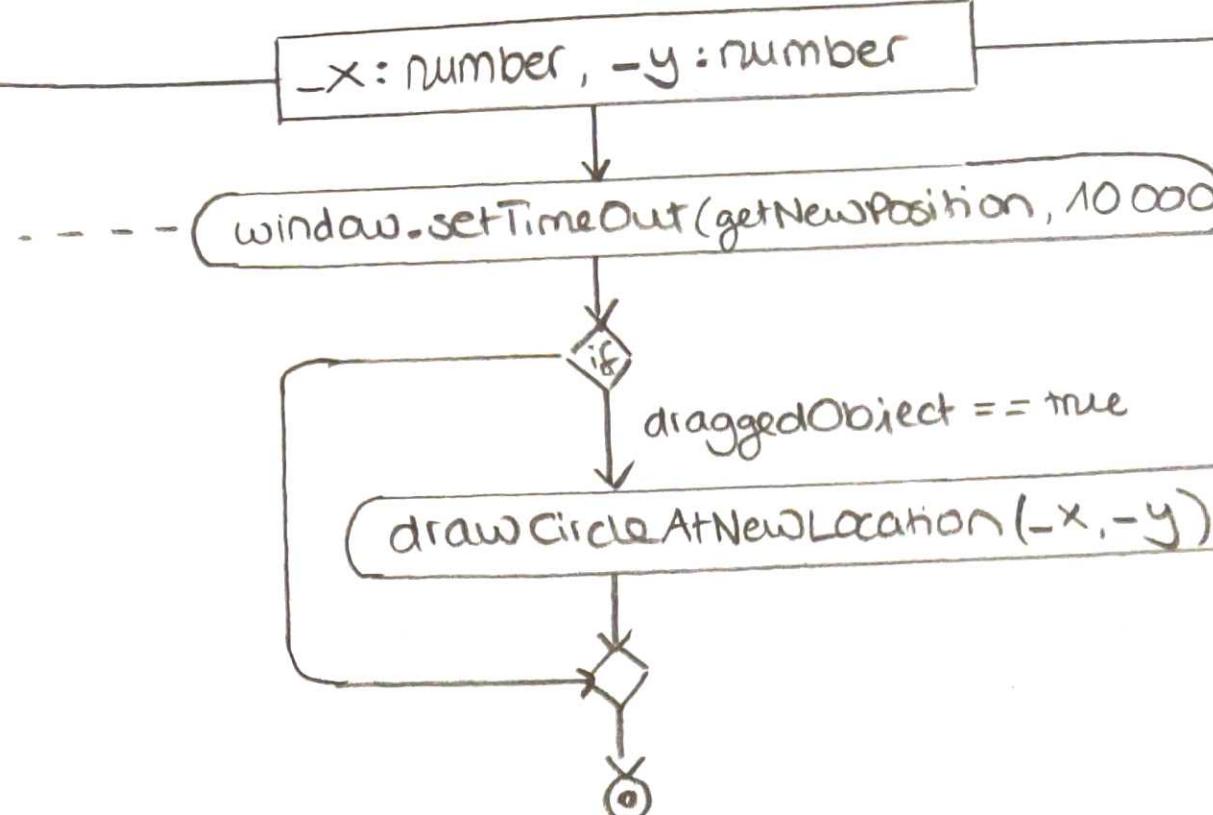
```
rebuild(1) //
```

picture-3

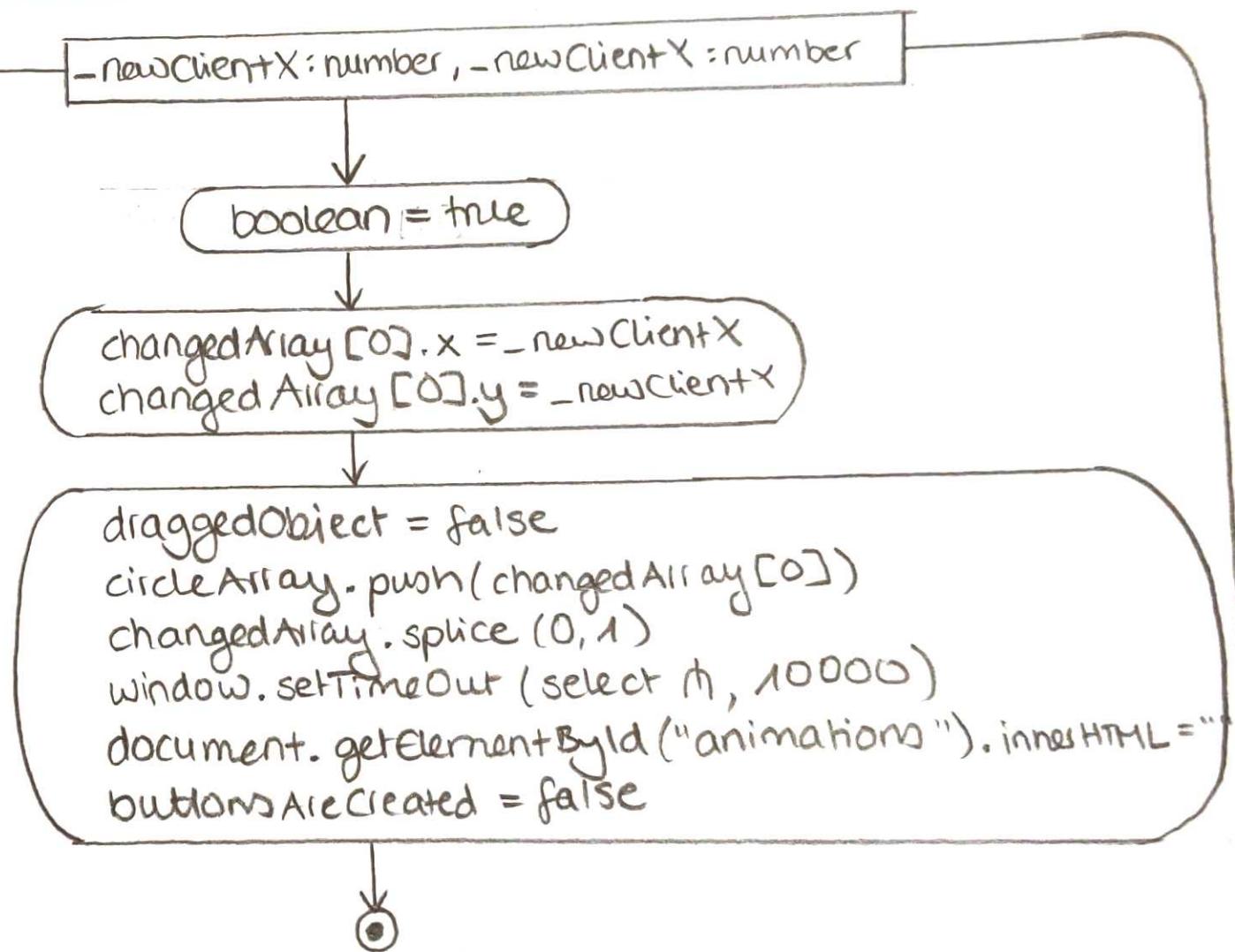
```
rebuild(2) //
```

getNewPosition

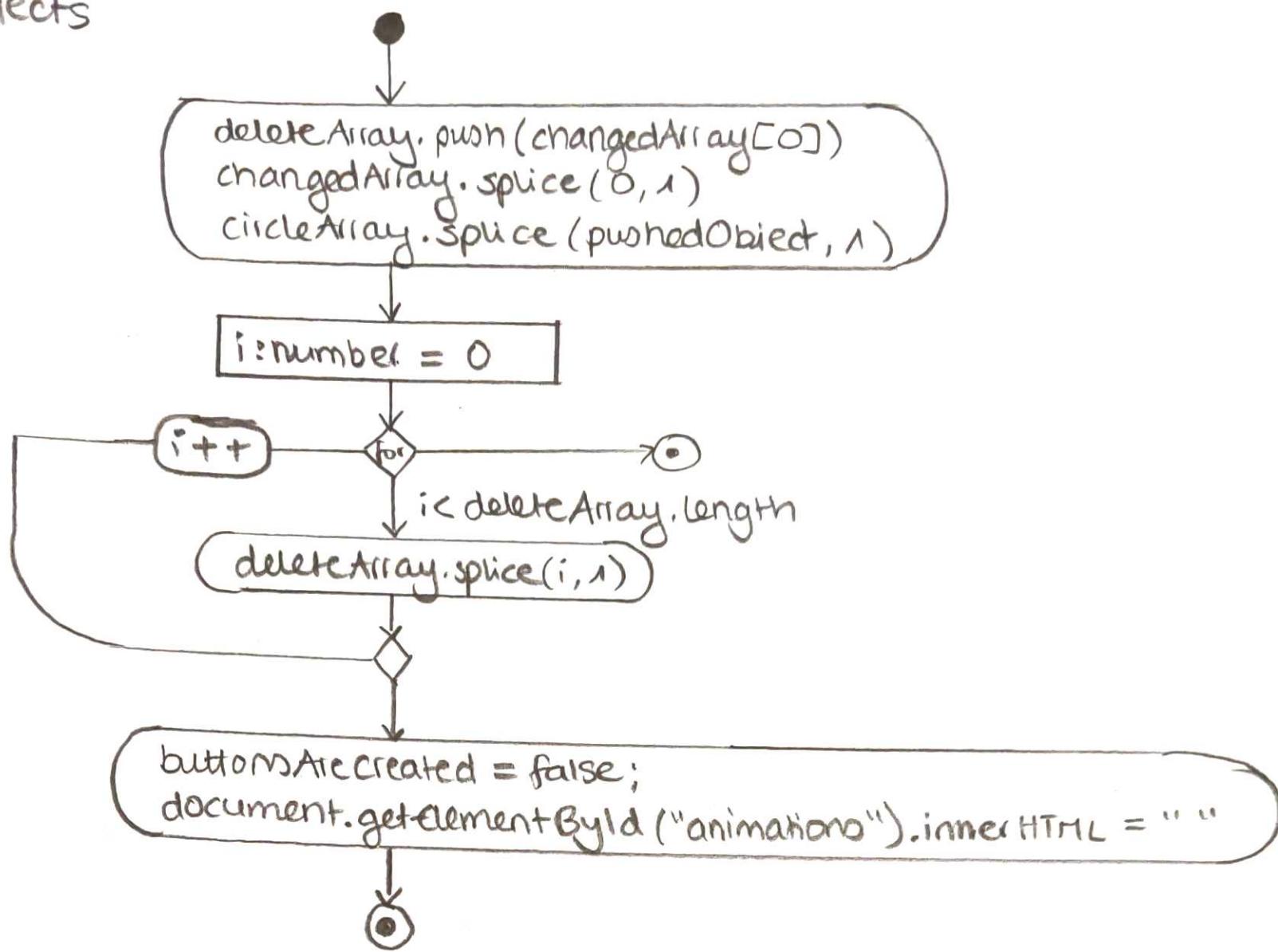
Wartet
gewisse Zeit
bis -x u. -y
definiert sind.



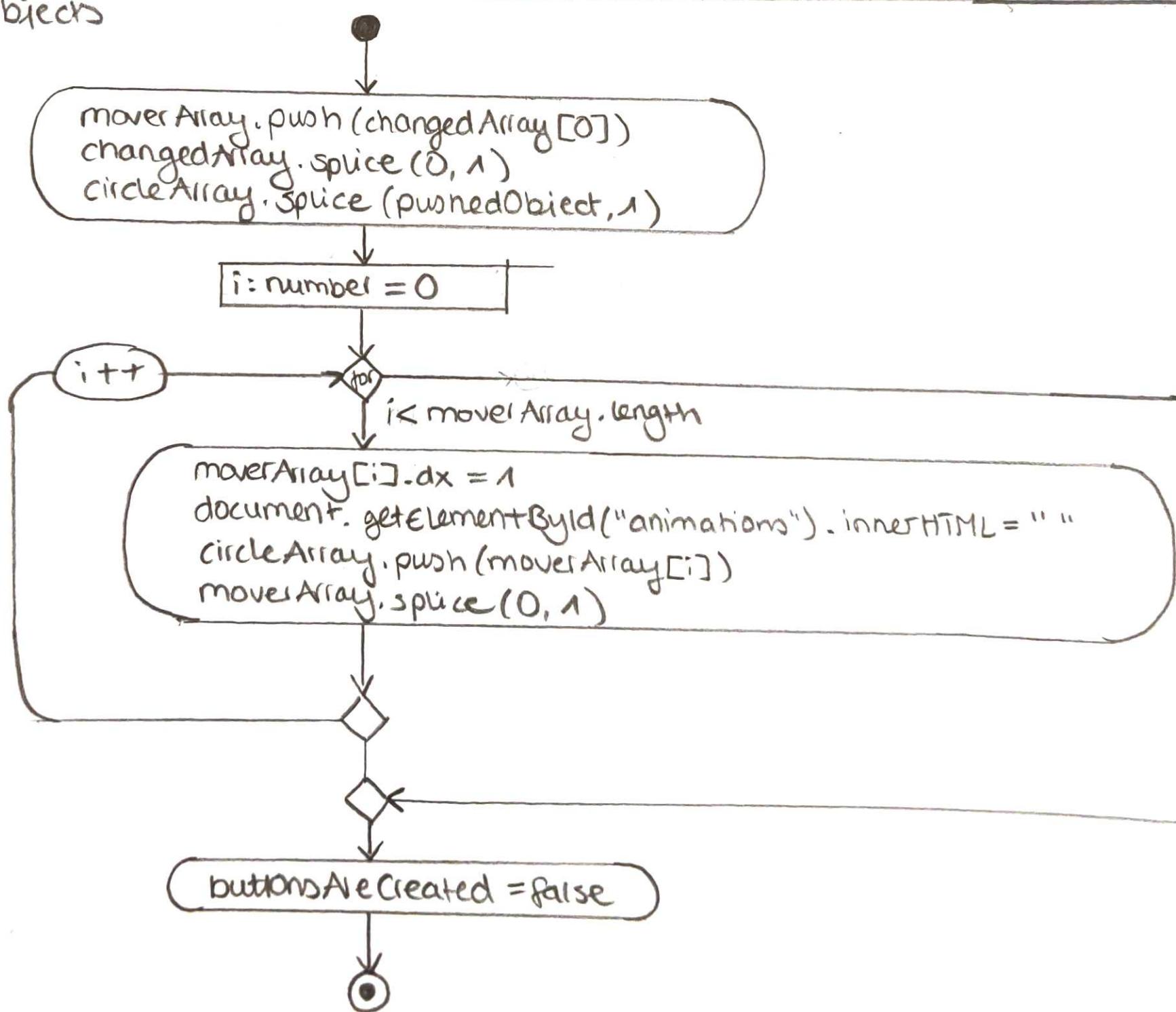
drawCircleAtNewLocation



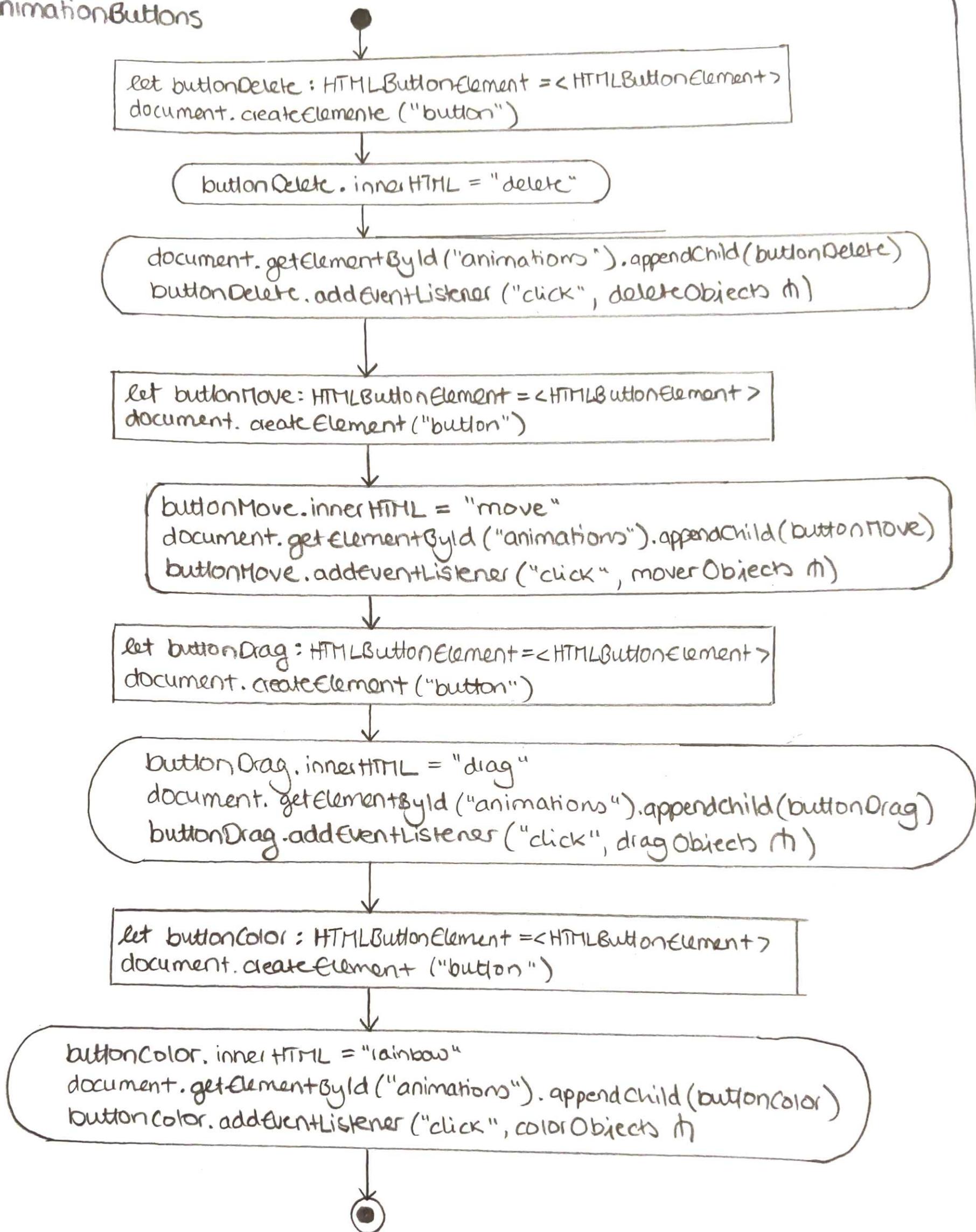
deleteObjects



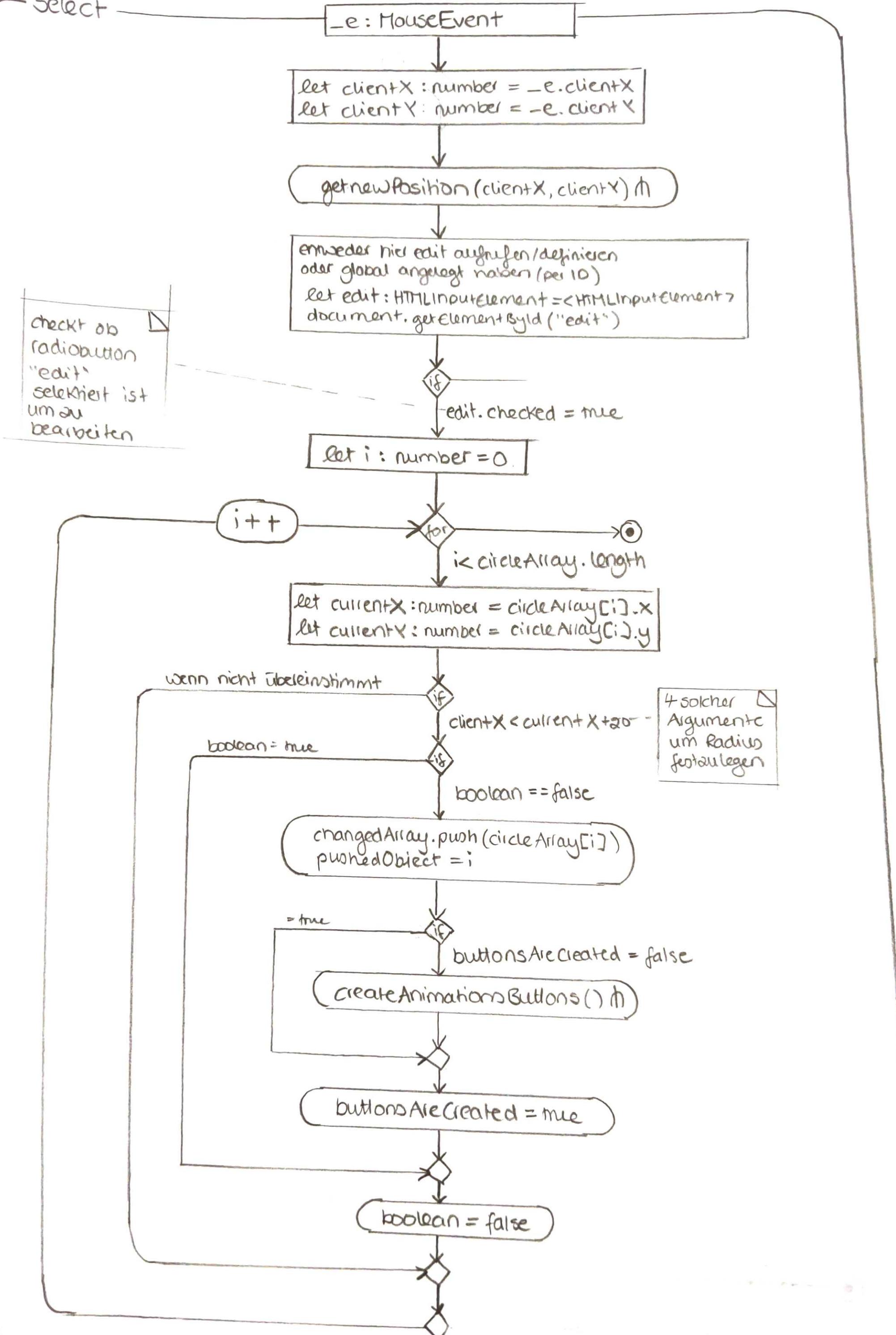
moveObjects



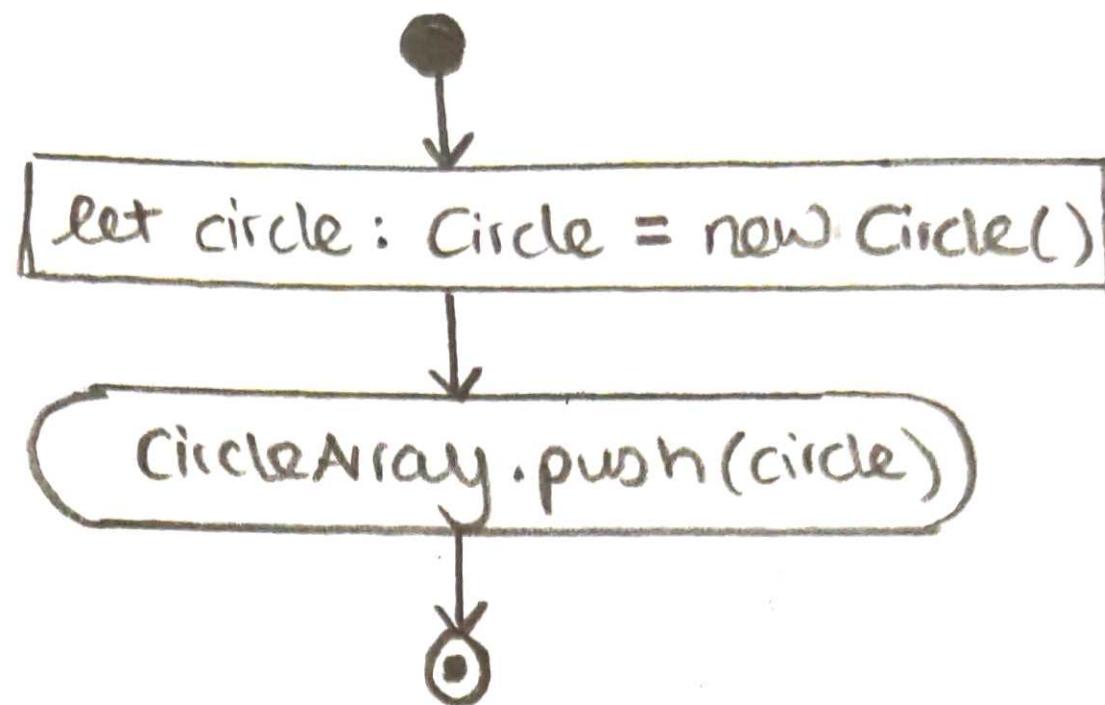
Create Animation Buttons



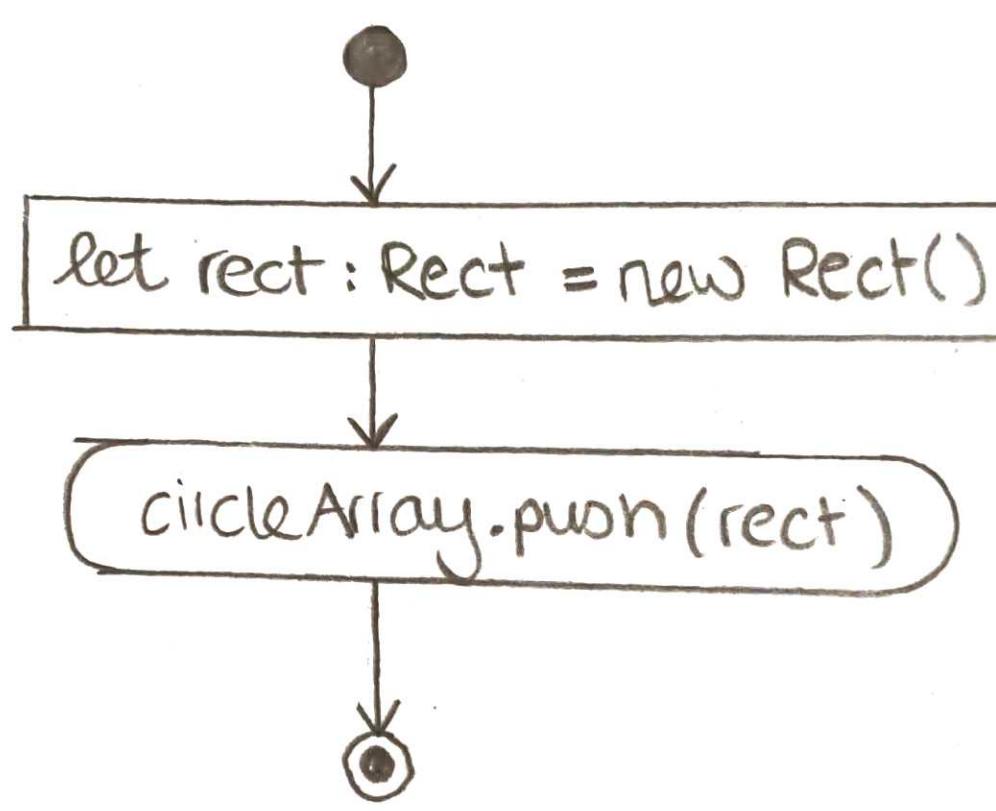
Select



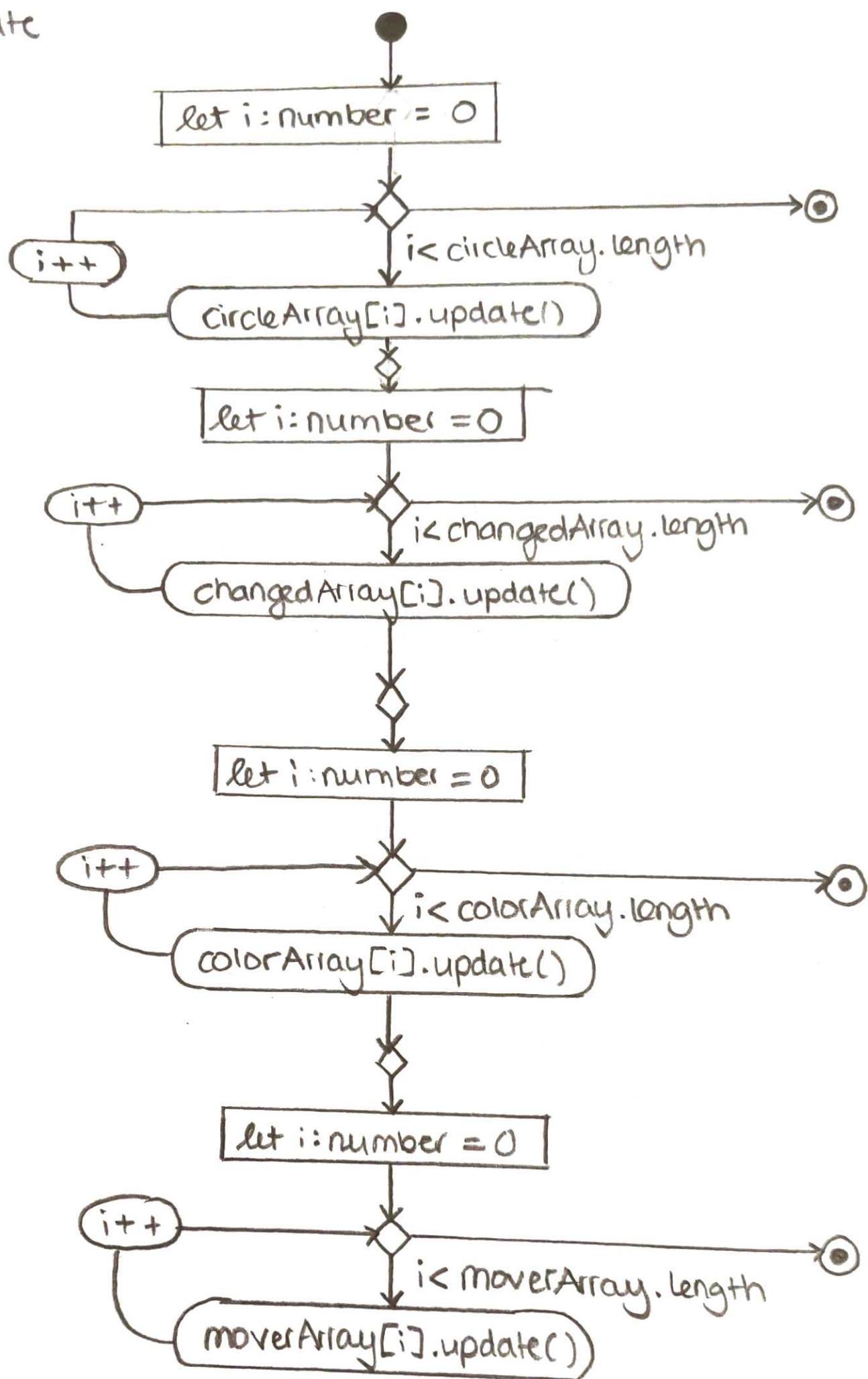
drawCircle



drawRec



drawUpdate



resizeCanvas_02

```
let canvas : HTMLCanvasElement = <HTMLCanvasElement>  
document.getElementById("myCanvas")
```

```
ac = canvas.getContext("2d")
```

```
canvas.height = 400  
canvas.width = 400
```

resizeCanvas_03

```
let canvas : HTMLCanvasElement = <HTMLCanvasElement>  
document.getElementById("myCanvas")
```

```
crc = canvas.getContext("2d")
```

```
canvas.height = 600  
canvas.width = 600
```

resizeCanvas_04

```
let canvas : HTMLCanvasElement = <HTMLCanvasElement>  
document.getElementById("myCanvas")
```

```
crc = canvas.getContext("2d")
```

```
Canvas.height = 800  
Canvas.width = 800
```

background

backgroundColor = "lightblue"

background01

backgroundColor = "white"

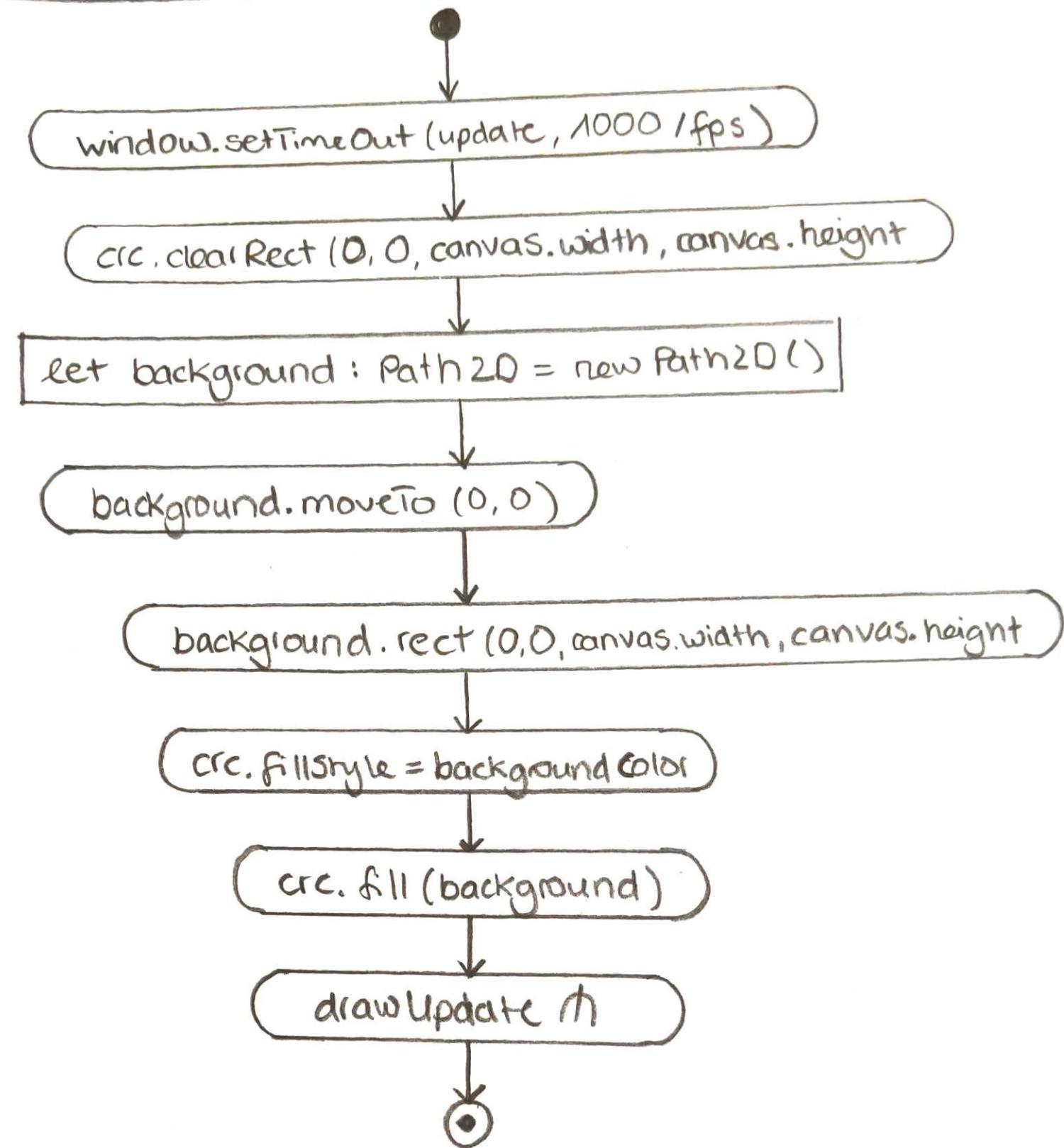
background02

backgroundColor = "lightgrey"

background03

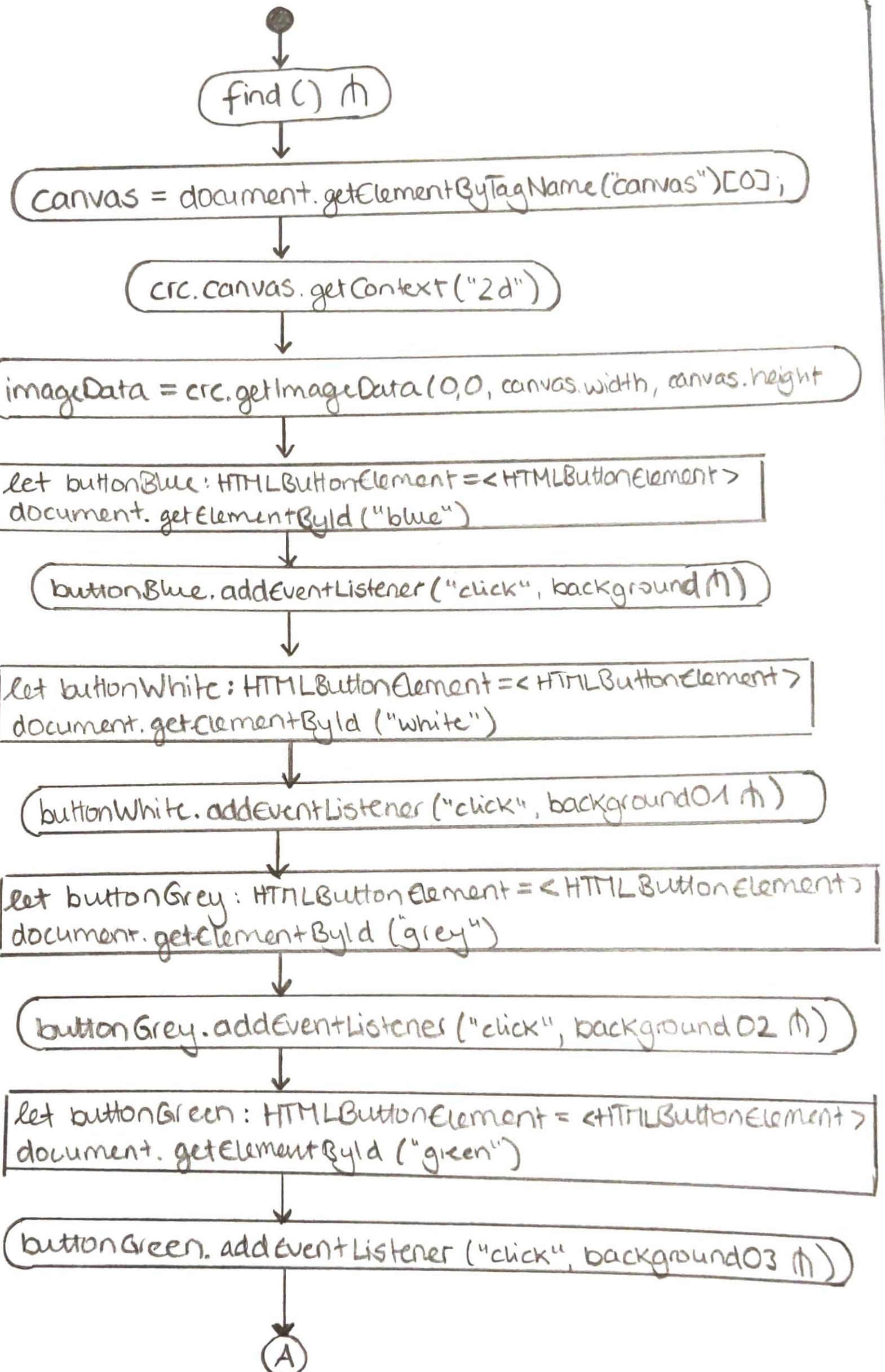
backgroundColor = "green"

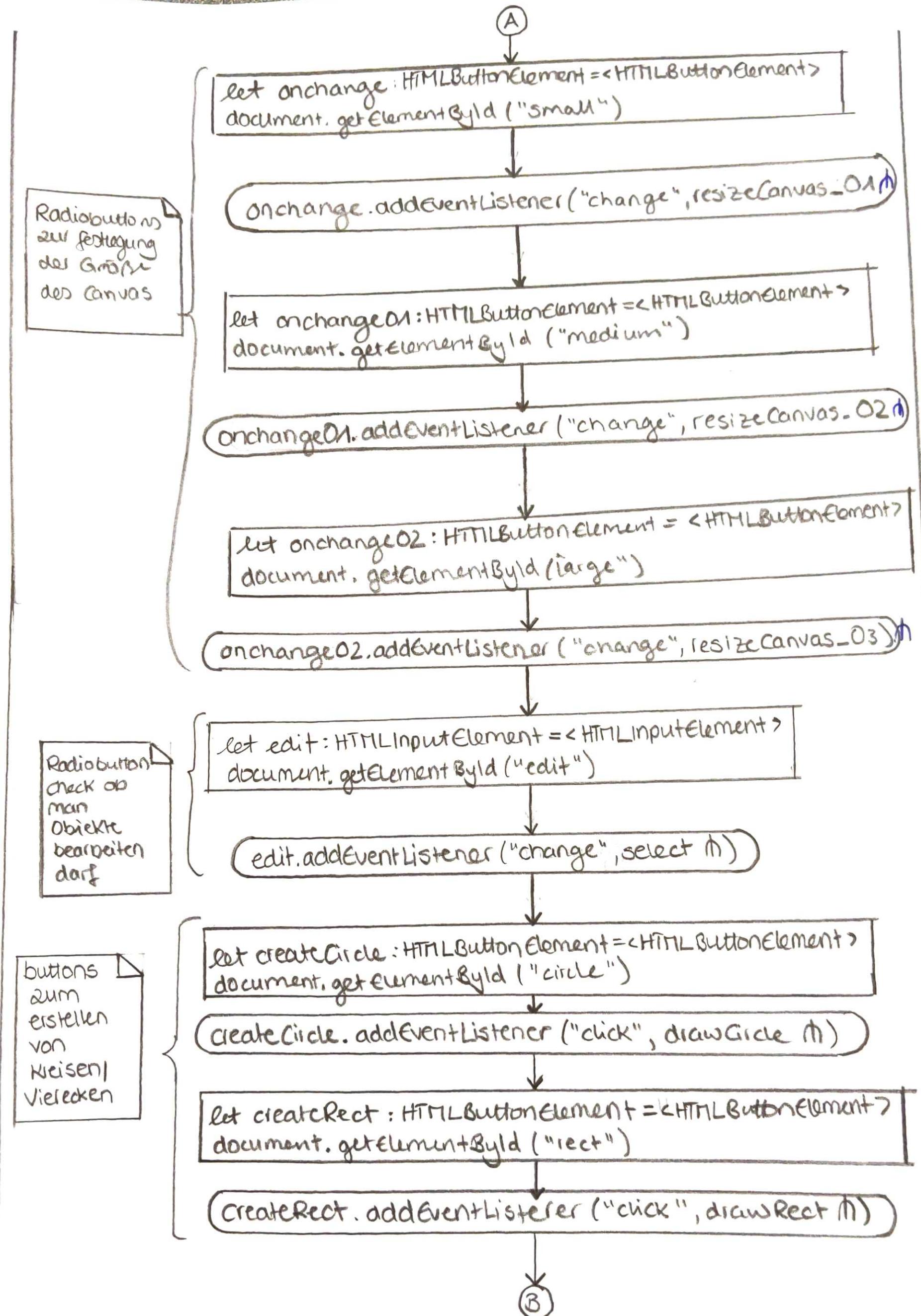
Update



init

hinzufügen
der
EventListener
für schon im
HTML erstellte
Buttons





init

③

```
let savePicture: HTMLButtonElement = <HTMLButtonElement>  
document.getElementById("save")
```

```
savePicture.addEventListener("click", save)
```

```
let restorePicture1: HTMLButtonElement = <HTMLButtonElement>  
document.getElementById("restore1")
```

```
restorePicture1.addEventListener("click", picture_1)
```

```
let restorePicture2: HTMLButtonElement = <HTMLButtonElement>  
document.getElementById("restore2")
```

```
restorePicture2.addEventListener("click", picture_2)
```

```
let restorePicture3: HTMLButtonElement = <HTMLButtonElement>  
document.getElementById("restore3")
```

```
restorePicture3.addEventListener("click", picture_3)
```

```
update
```

④