Zeile	number n	string c	number x	number y	number i	number a	string _color	number _x
2	5							
3			0					
4				0				
5								
7					0			
8								
9			170					
10								
11								
12		"#ff0000"						
13								
23						50		
24								
30							red	170
31								
32								
38								
39								
40								
41								
42								
43								
44								
45								
25								
23						30		
24								
30							red	170
31								
32								
38								
39								
40								
41								
42								
43								
44								
45								
25								
23						10		
24								
30							red	170
31								
32								
38								
39								
40								
41								

42				
43				
44				
45				
25				
23			-10		
7			1		
8					
9		340			
10					
14					
23			50		
24					
30				none -> greer	340
31					
32					
38					
39					
40					
41					
42					
43					
44					
45					
25					
23			30		
24					
30				none -> greer	340
31					
32					
38					
39					
40					
41					
42					
43					
44					
45					
25					
23			10		
24					
30				none-> green	340
31					
32					
38					
39					
40					
41					
42					

43							
44							
45							
25							
23				-10			
7				2			
8							
9		110					
10							
20							
21	"#0000ff"						
23				50			
24							
30					blue		110
31							
32							
38							
39							
40							
41							
42							
43							
44							
45							
25							
23				30			
24							
30					blue		110
31							
32							
38							
39							
40							
41							
42							
43							
44							
45							
25							
23				10			
24							
30					blue		110
31							
32							
38							
39							
40							
41							
42							
43							

Zeile				
44				
45				
25				
23		-10		
7		**3**		
8				
9	280			
18				
19				
7		**4**		
8				
9		50		
10				
15				
16	"#00ff00"			
13				
23			50	
24				
30			green	50
31				
32				
38				
39				
40				
41				
42				
43				
44				
45				
25				
26				
7		**5**		

Fragestellungen:

Nimmt y den Wert aus Zeile 8 an? y-Wert wird immer erhöht
case 1 hat keine Farbe? geht über zu case 4 -> color: green

erwartete Ausgabe: 4 Vierecke, die an verschiedenen Koordinaten festgelegt sind (x,y),
        jeweils in unterschidliecher Farbe, mit unterschiedlichen Rändern
        in den Boxen
        letzte Ausgabe nur eine gefärbte Box

number _y   number _width   number _height   let s

50   50   50

border = "thin solid black"
position = "absolute"
backgroundColor = red
width = _width + "px"=50px
height = _height + "px"= 50px
left = _x + "px"=170px
top = _y + "px"=50px

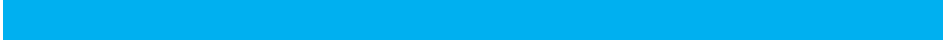50   30   30

border = "thin solid black"
position = "absolute"
backgroundColor = red
width = _width + "px"=30px
height = _height + "px"= 30px
left = _x + "px"=170px
top = _y + "px"=50px

50   10   10

border = "thin solid black"
position = "absolute"
backgroundColor = red

width = _width + "px"=10px
height = _height + "px"= 10px
left = _x + "px"=170px
top = _y + "px"=50px

100   50   50

border = "thin solid black"
position = "absolute"
backgroundColor = green

width = _width + "px"=50px
height = _height + "px"= 50px
left = _x + "px"=340px
top = _y + "px"=100px

100   30   30

border = "thin solid black"
position = "absolute"
backgroundColor = green
width = _width + "px"=30px
height = _height + "px"= 30px
left = _x + "px"=340px
top = _y + "px"=100px

100   10   10

border = "thin solid black"
position = "absolute"
backgroundColor = green
width = _width + "px"=10px

height = _height + "px"= 10px
left = _x + "px"=340px
top = _y + "px"=100px

120   50   50

border = "thin solid black"
position = "absolute"
backgroundColor = blue
width = _width + "px"=50px
height = _height + "px"= 50px
left = _x + "px"=110px
top = _y + "px"=120px

120   30   30

border = "thin solid black"
position = "absolute"
backgroundColor = blue
width = _width + "px"=30px
height = _height + "px"= 30px
left = _x + "px"=110px
top = _y + "px"=120px

120   10   10

border = "thin solid black"
position = "absolute"
backgroundColor = blue
width = _width + "px"=10px
height = _height + "px"= 10px

left = _x + "px"=110px
top = _y + "px"=120px

220   50   50

border = "thin solid black"
position = "absolute"
backgroundColor = green
width = _width + "px"=50px
height = _height + "px"= 50px
left = _x + "px"=50px
top = _y + "px"=220px

Kommentar

_

0 < 5
y+= (0 ≠ 2 -> y=50) 50 , 0+50=50
x=(0+170)%400=170
switch(0)
case 0
color: red
break
50 > 0
placeDiv(c="#ff0000", x=170, y=50, a=50, a=50)

createElement("div")
document.body.appendChild(div)
let s: CSSStyleDeclaration = div.style

_width=a
_height=a
_x=x
_y=y
0≠4
a=50-20=30 > 0
placeDiv(c="#ff0000", x=170, y=50, a=30, a=30)

createElement("div")
document.body.appendChild(div)
let s: CSSStyleDeclaration = div.style

_width=a
_height=a
_x=x
_y=y
0≠4
a=30-20=10 > 0
placeDiv(c="#ff0000", x=170, y=50, a=10, a=10)

createElement("div")
document.body.appendChild(div)
let s: CSSStyleDeclaration = div.style

_width=a
_height=a
_x=x
_y=y
0≠4
a=10-20=-10 < 0
1 < 5
y+=(1 ≠ 2 -> 50) 50, 50+50=100 ; y=100
x=(170+170)%400=340
switch(1)
case 1
50 > 0
placeDiv(c= ; x=340; y=100 ; a=50; a=50)

createElement("div")
document.body.appendChild(div)
let s: CSSStyleDeclaration = div.style

backgroundColor: none oder springt zum nächsten case?
Debugger zeigt: springt zu case4, sprich color: "#00ff00", green
_width=a
_height=a
_x=x
_y=y
1≠4
a=50-20=30 > 0
placeDiv(c=none, x=340, y=100, a=30, a=30)

createElement("div")
document.body.appendChild(div)
let s: CSSStyleDeclaration = div.style

_width=a
_height=a
_x=x
_y=y
1≠4
a=30-20=10 > 0
placeDiv(c="#ff0000", x=170, y=100, a=10, a=10)

createElement("div")
document.body.appendChild(div)
let s: CSSStyleDeclaration = div.style

_width=a

_height=a
_x=x
_y=y
1≠4
a=10-20=-10 < 0
2 < 5
y+=(2==2 -> 20) 20, 100+20=120; y=120
x=(340+170)%400=110
switch(2)
default
color: blue
a=50 > 0
placeDiv(c="#0000ff", x=110, y=120, a=50, a=50)

createElement("div")
document.body.appendChild(div)
let s: CSSStyleDeclaration = div.style

_width=a
_height=a
_x=x
_y=y
2≠4
a=50-20=30 > 0
placeDiv(c="#0000ff", x=110, y=120, a=50, a=50)

createElement("div")
document.body.appendChild(div)
let s: CSSStyleDeclaration = div.style

_width=a
_height=a
_x=x
_y=y
2≠4
a=30-20=10 > 0
placeDiv(c="#ff0000", x=170, y=120, a=10, a=10)

createElement("div")
document.body.appendChild(div)
let s: CSSStyleDeclaration = div.style

_width=a
_height=a

_x=x
_y=y
2≠4
a=10-20=-10 < 0
3 < 5
y+=(3≠2 ->50) 50, 120+50=170; y=170
x=(110+170)%400=280
switch(3)
continue = keine Ausgabe, springt zu Zeile 7
4 < 5
y+=(4≠2 ->50) 50, 170+50=220; y=220
x=(280+170)%400=50
switch(4)
case(4)
color: green
break
a=50 > 0
placeDiv(c="#00ff00", x=50 ; y=220; a=50; a=50)

createElement("div")
document.body.appendChild(div)
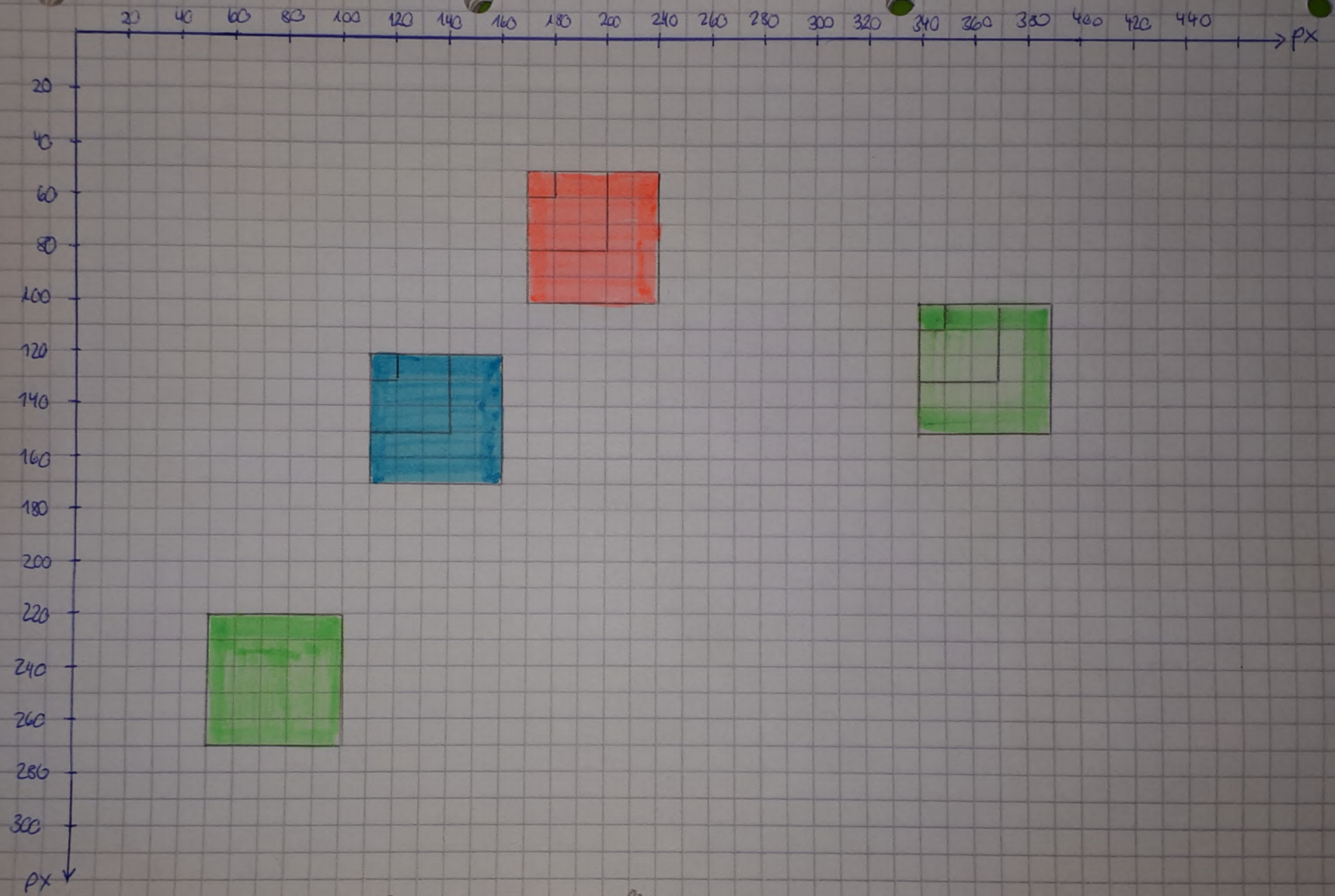let s: CSSStyleDeclaration = div.style

_width=a
_height=a
_x=x
_y=y
4==4
break
5=5; Abbruchkriterium erfüllt

Activity Diagram

namespace Boxes

(A)

i : number = 0

◉ ← [i ≤ n] ← ◇

[i < n]

i++

continue

for loop

case 3

switch case

c = "#0000ff" ← default

case 0 → c = "#ff0000" → break

case 1 → case 4 → c = "#00ff00" → break

case 4

c = "#00ff00"

break

2. for loop

a : number = 0

◇

a > 0   a ≤ 0

place Div   a -= 20

function place Div