

Part A

Global Space:

Sarah Langbein ~~Sml 343~~
Sml 343
Nicole Yakkanay 73

min		5
a	3	
b	2	
c	1	

min		6
a	3	
b	2	
c	1	
m	3	

min		7
a	3	
b	2	
c	1	
m	c	

min		10
a	3	
b	2	m
c	1	

min		
a	3	m
b	2	
c	1	return m

min		
a	3	m
b	2	
c	1	return

d 1

Part B

Global Space:

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(used python list)

min		5
c	1.0	
b	2.0	
a	3.0	

c 1.0
b 2.0
a 3.0

min		6
c	1.0	
b	2.0	
a	3.0	
m	3.0	

no change.

min		7
c	1.0	
b	2.0	
a	3.0	
m	3.0	

no change.

min	c 1.0	m 1.0	10
b	2.0		
a	3.0		

no change

min	c 1.0	m 1.0	11
b	2.0		
a	3.0		
		return m	

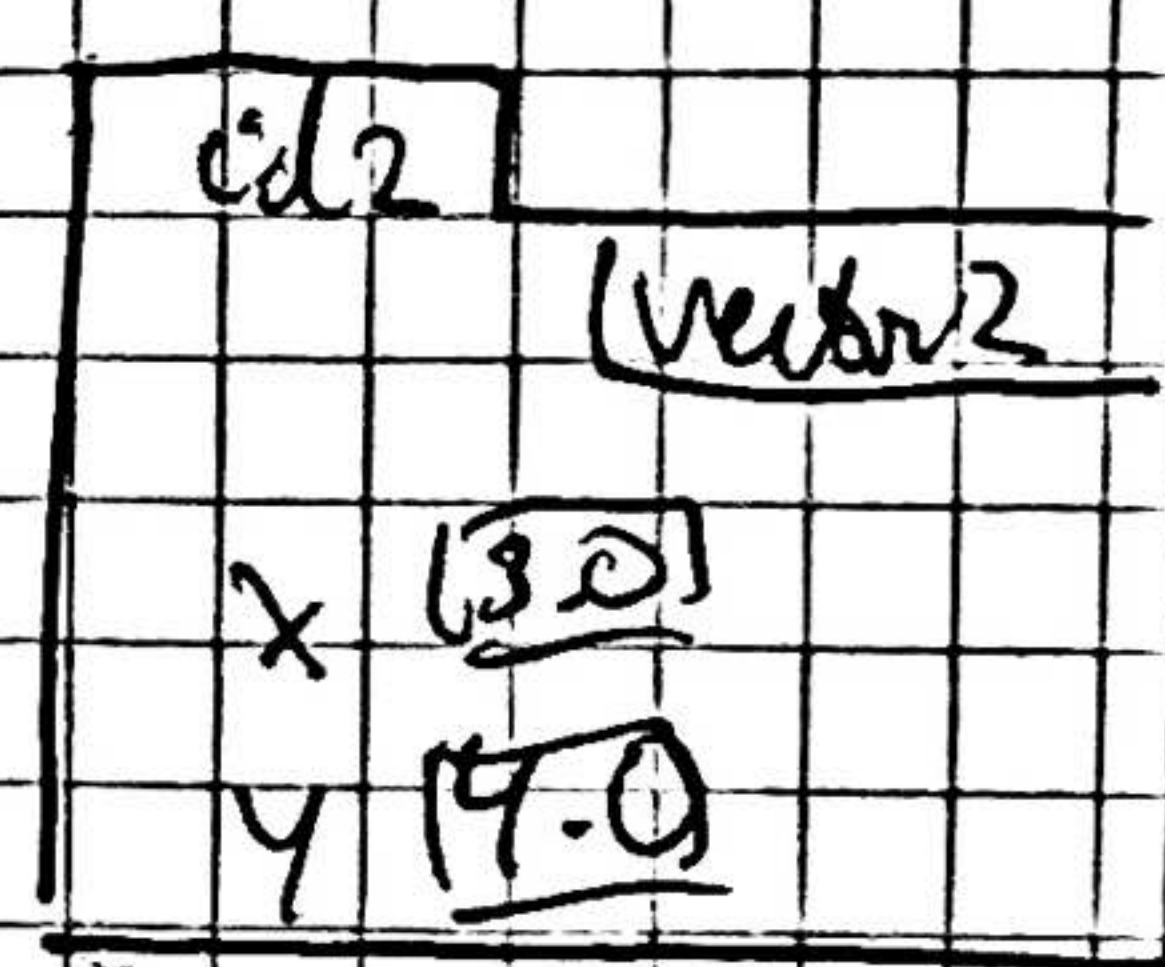
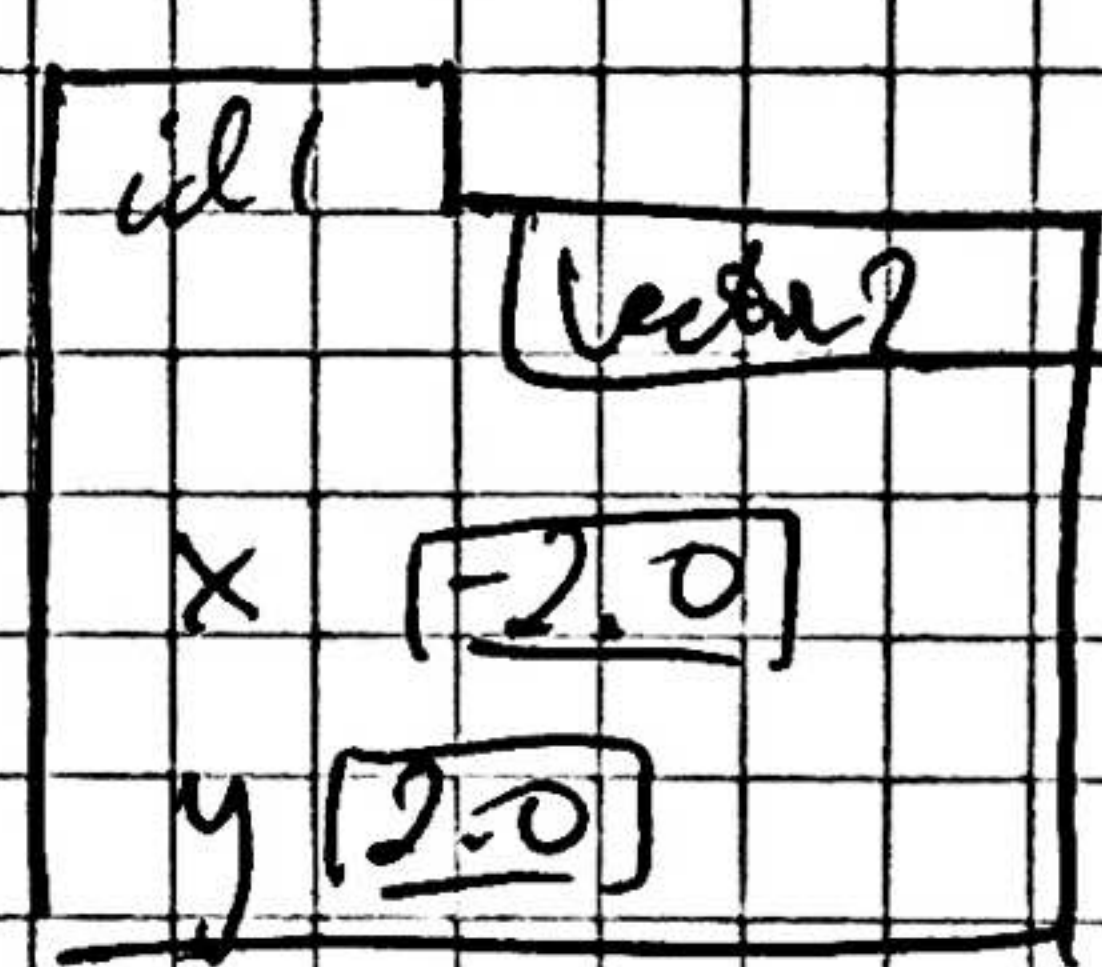
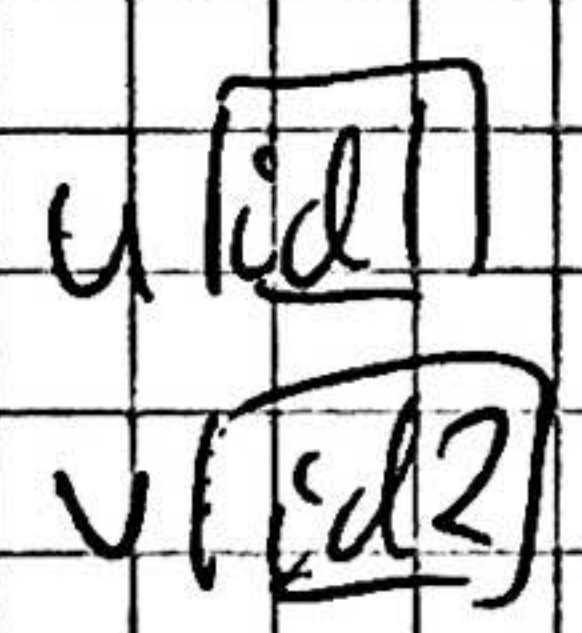
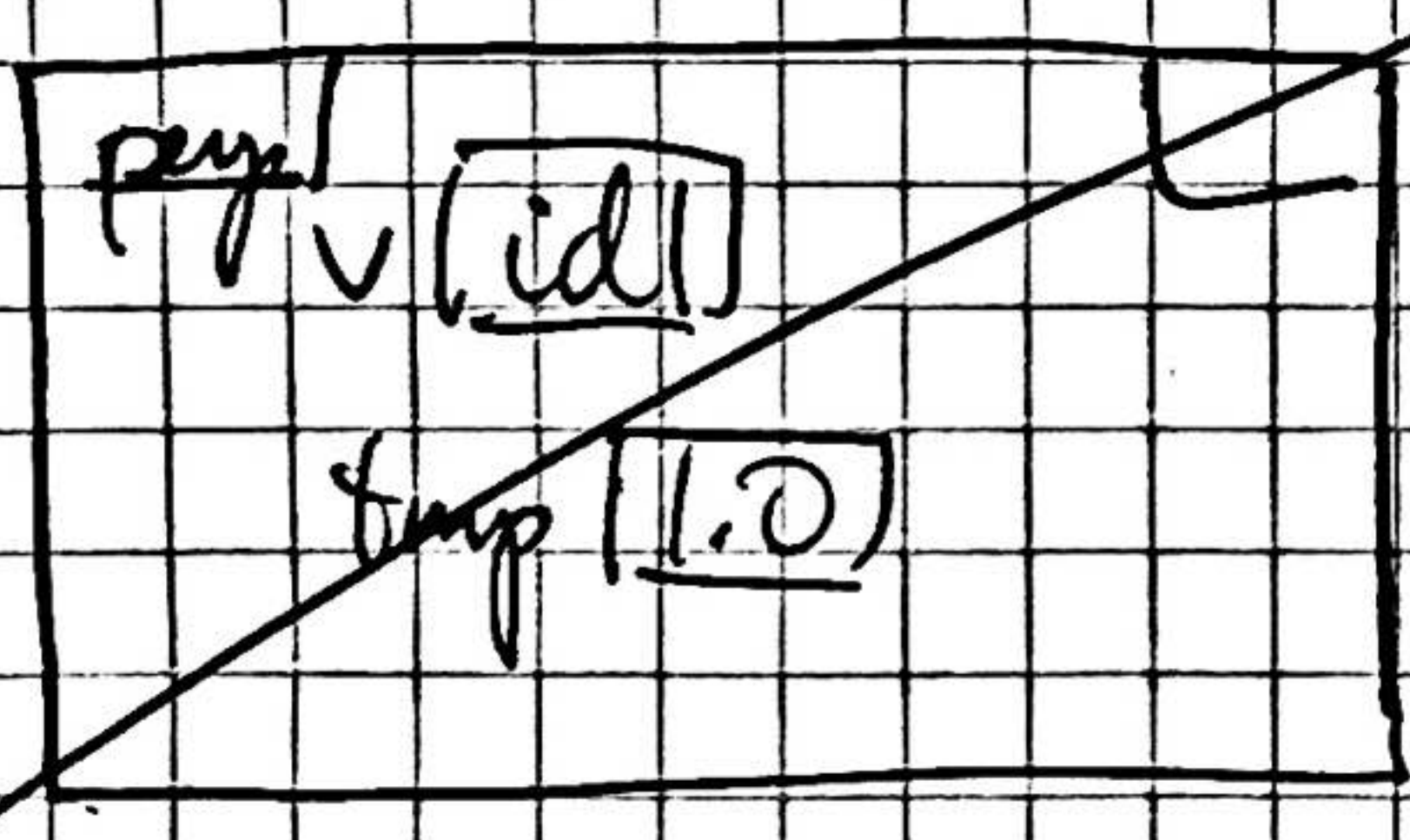
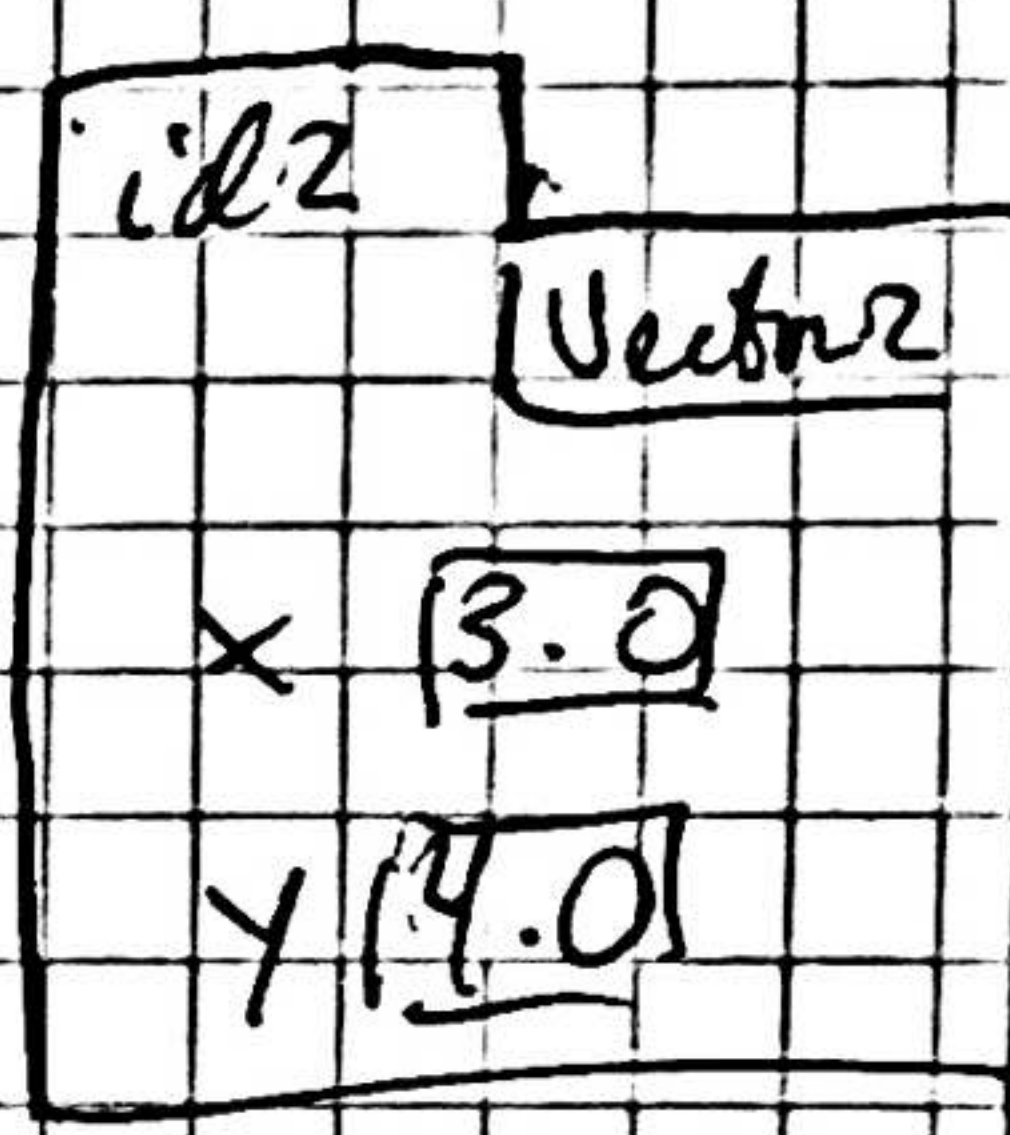
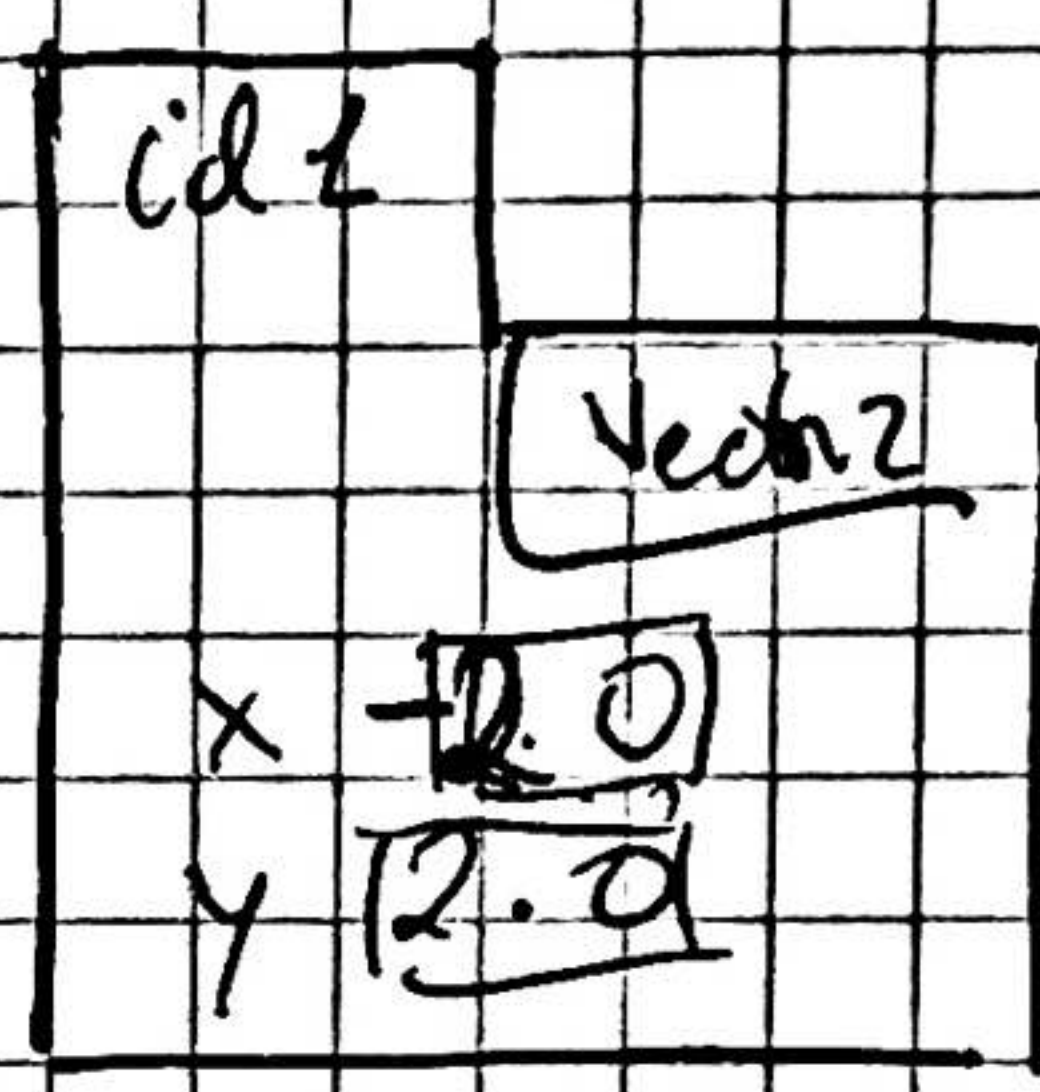
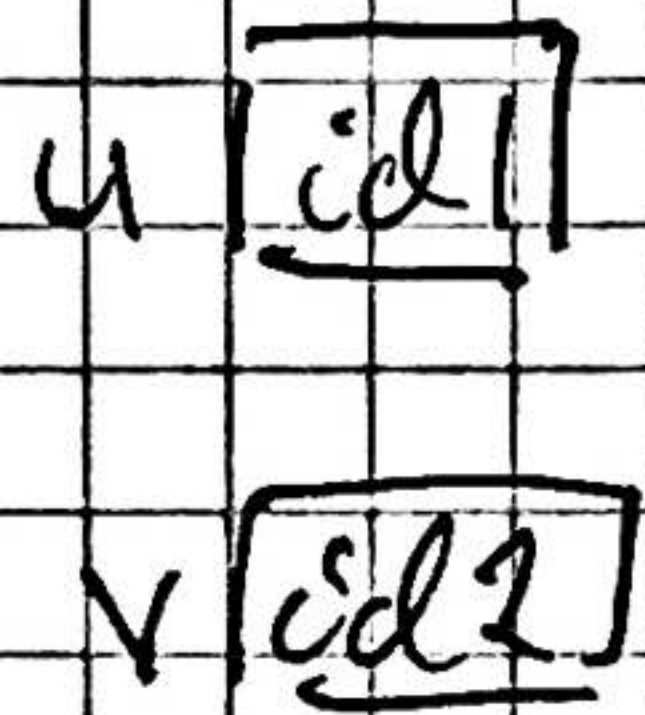
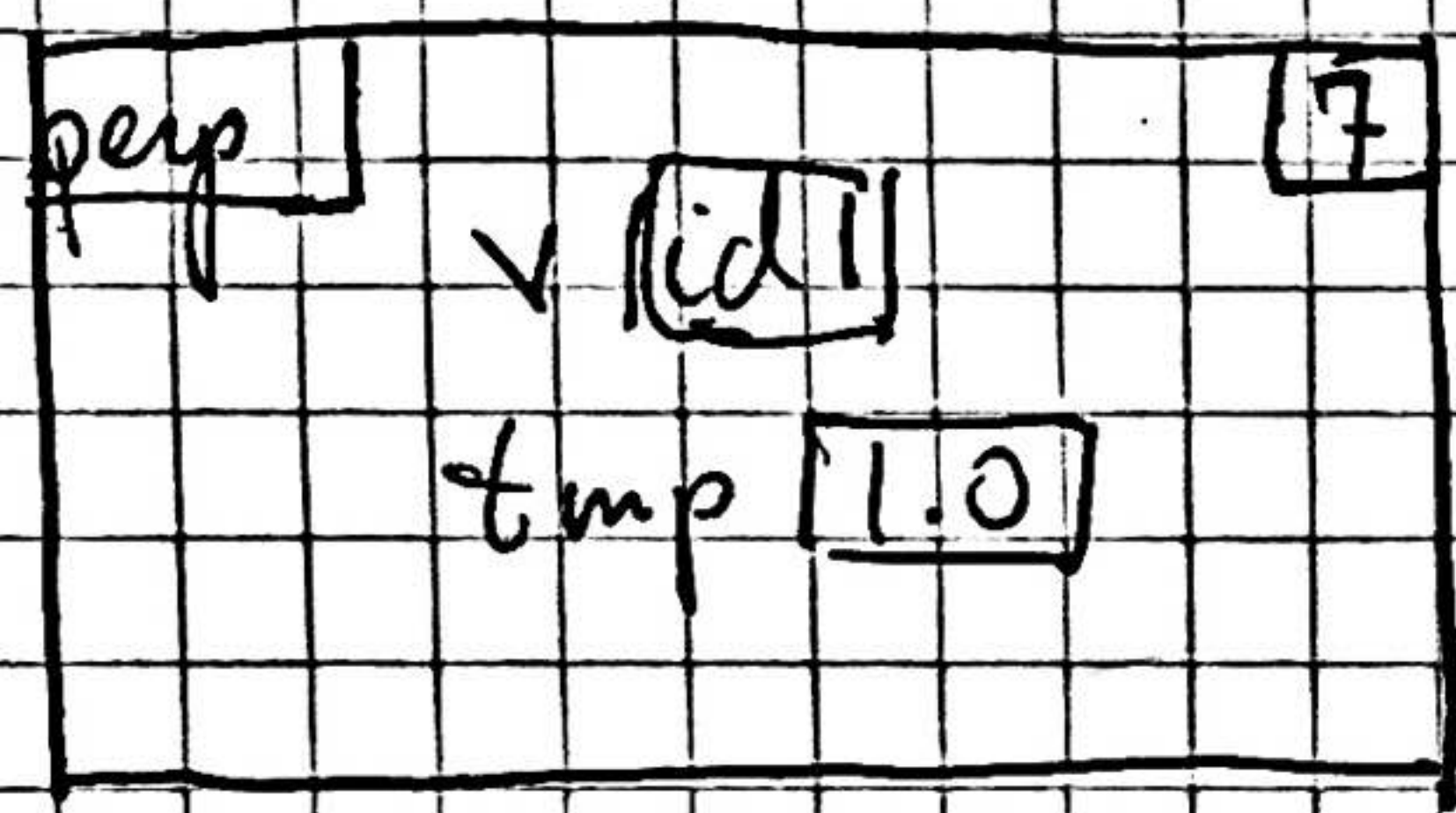
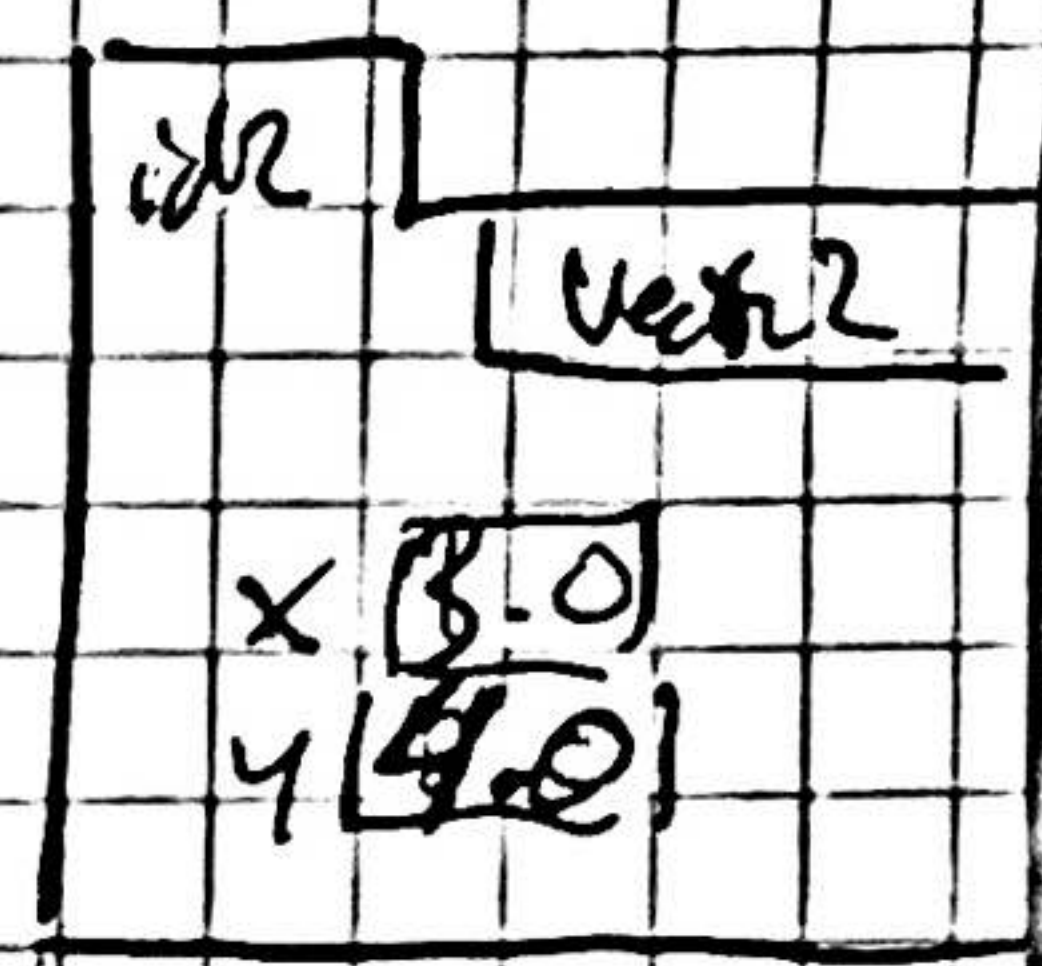
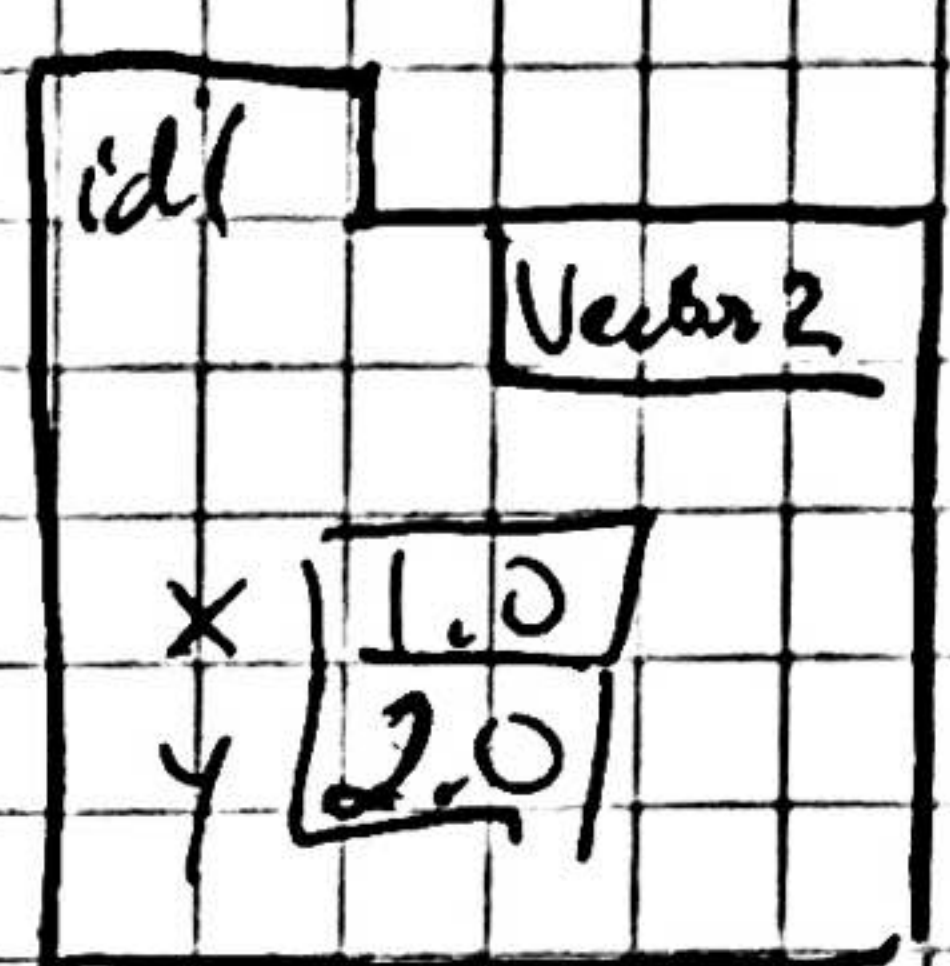
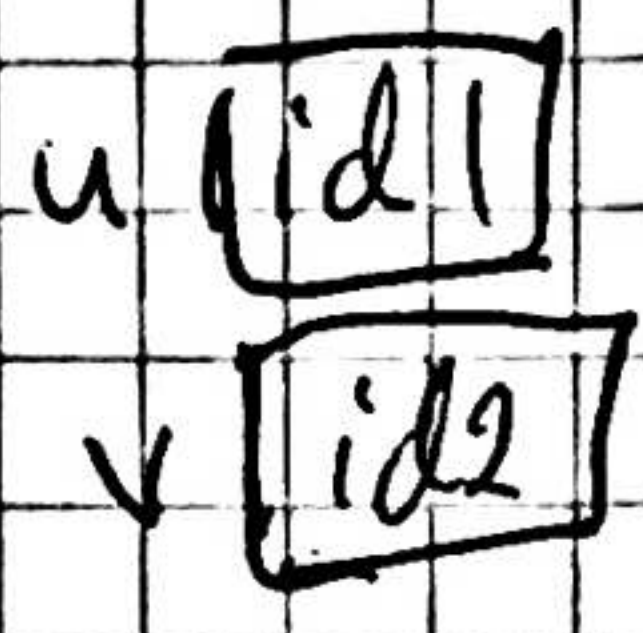
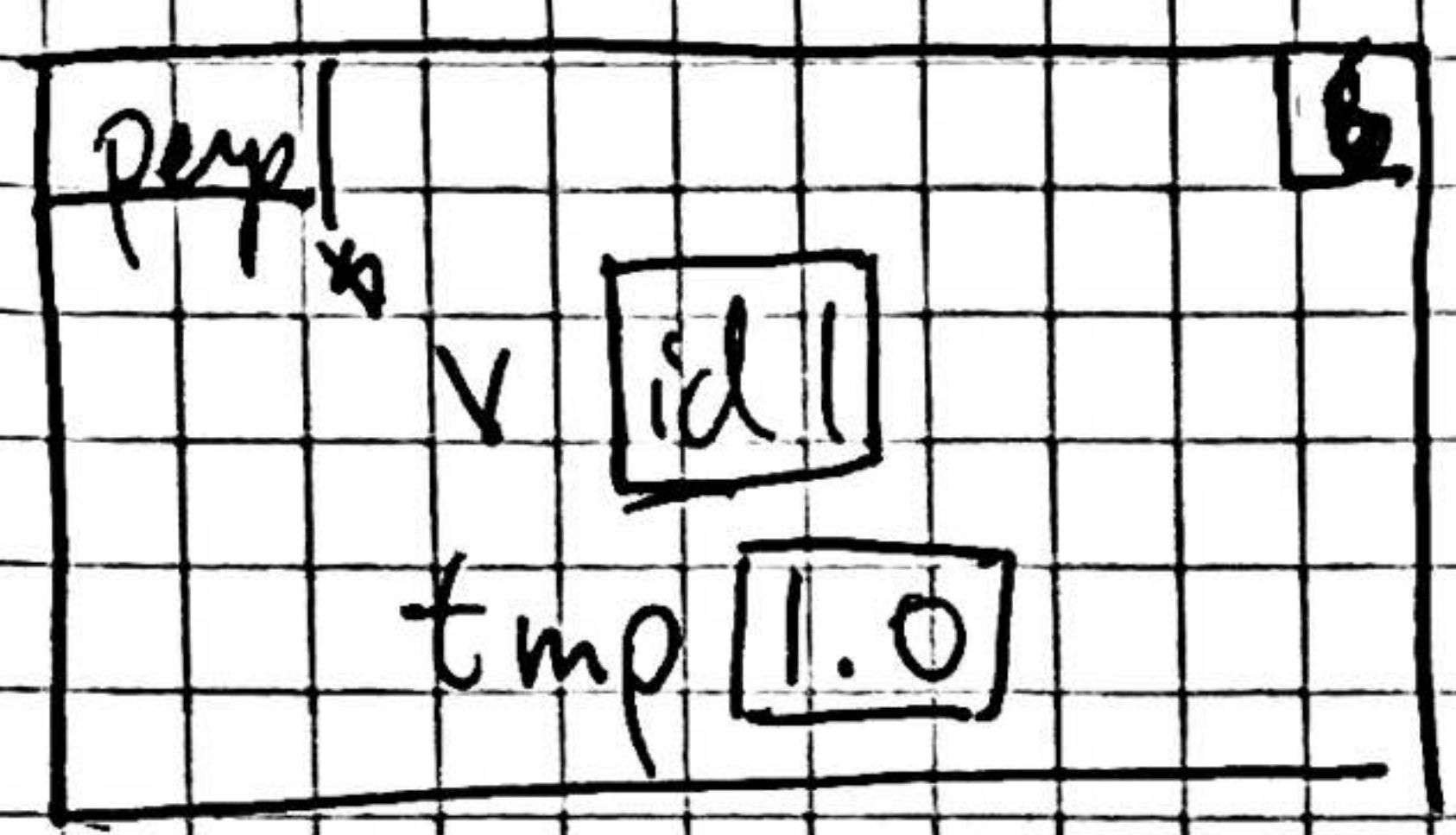
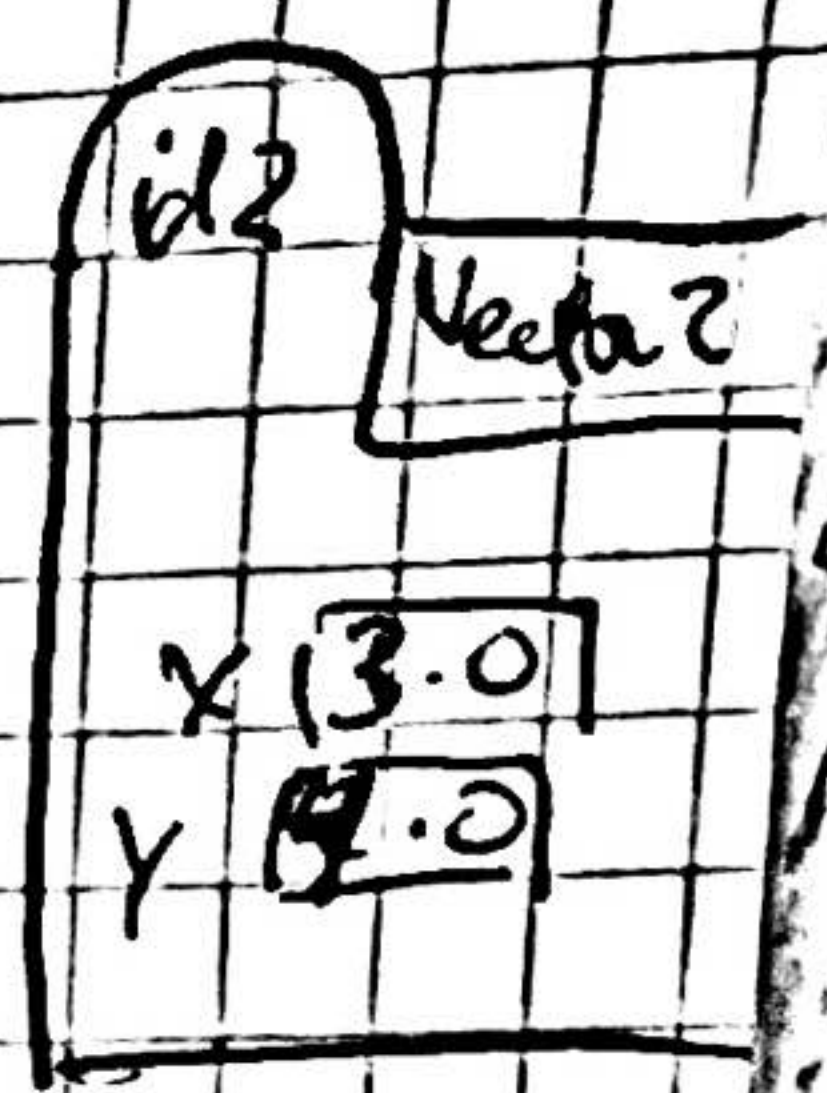
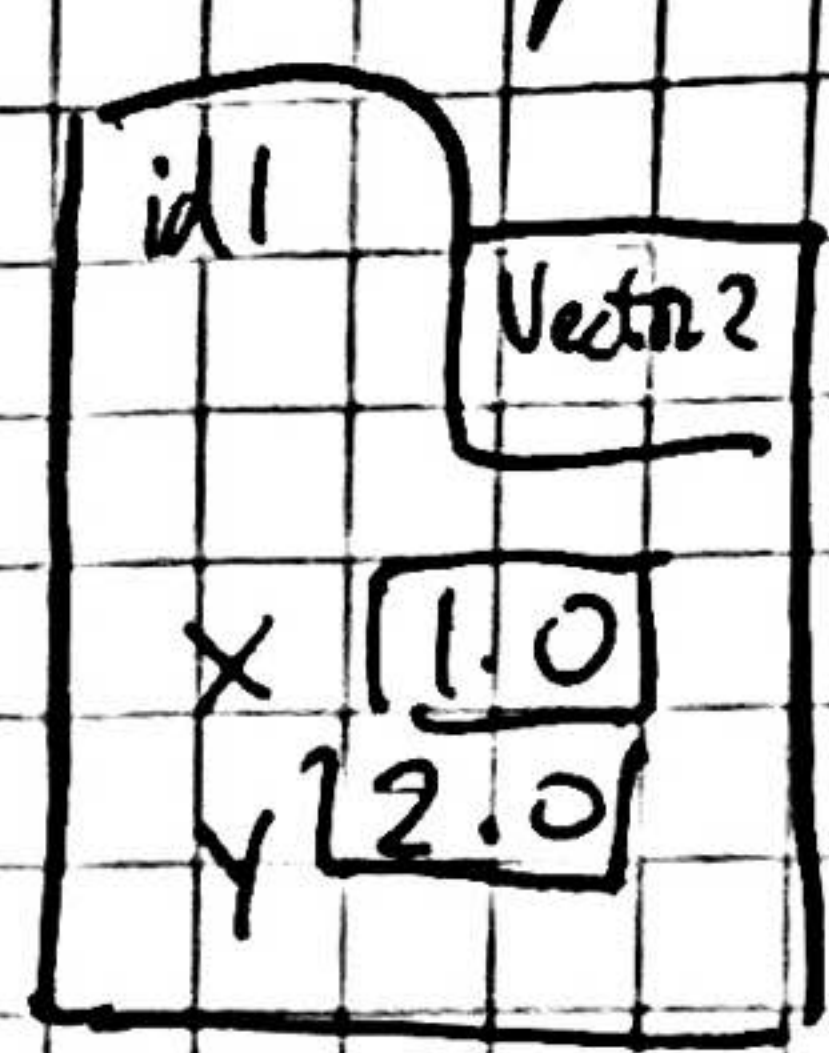
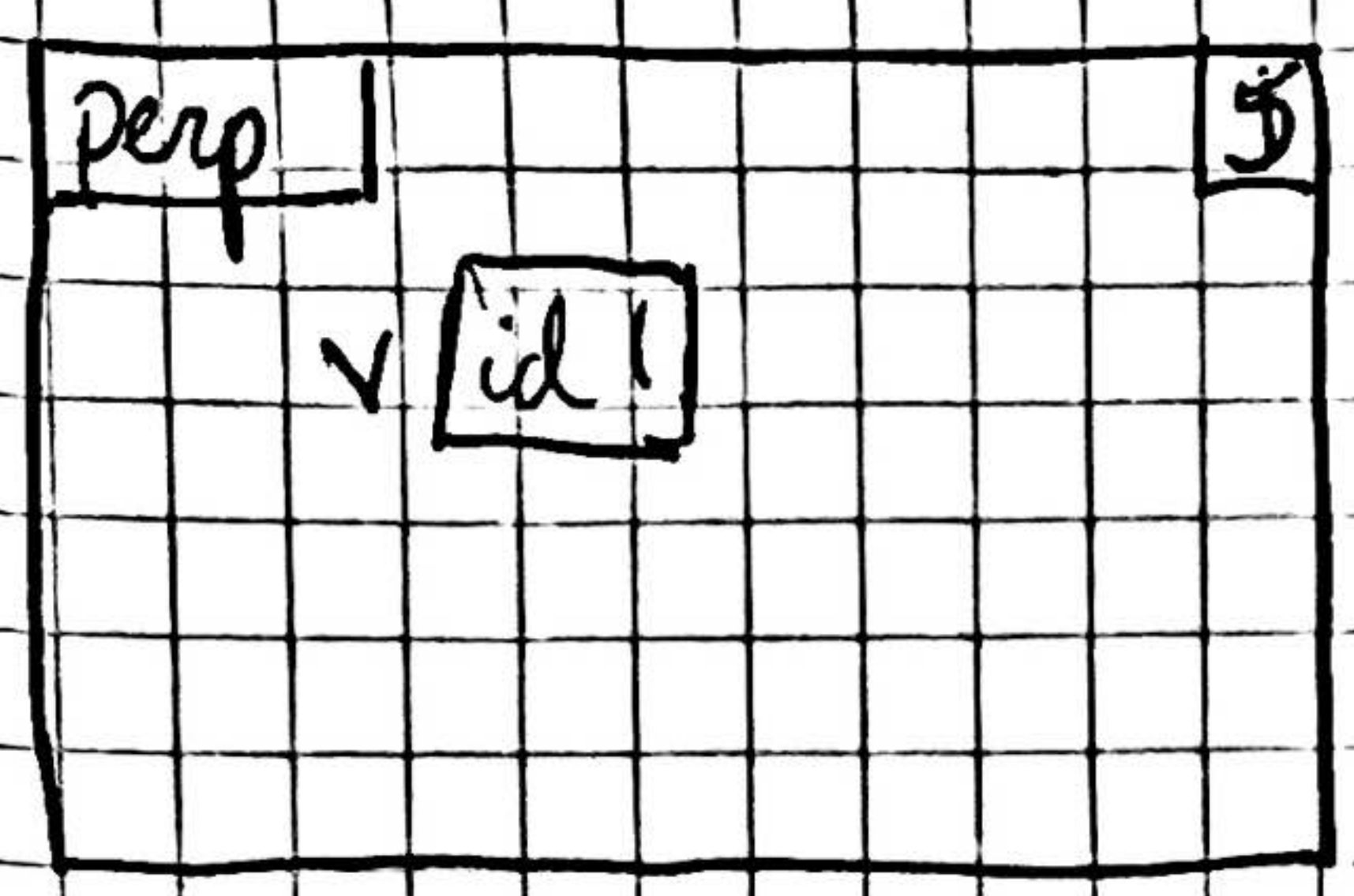
no change.

min	c 1.0	m 1.0	
b	2.0		
a	3.0		
		return 1.0	

no change.

Part 1

Global Space



(used python tutor)

Page 80

perp2 5

Global Space
u id1
v id2

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ny 73

Heap Space
id1 Vector2
x 1.0
y 2.0

id2 Vector2
x 3.0
y 4.0

perp2 9
v id2

u id1
v id2

id1 Vector2
x 1.0
y 2.0

id2 Vector2
x 3.0
y 4.0

id3 Vector2

perp2 10
v id2
u id3

u id1
v id2

id1 Vector2
x 1.0
y 2.0

id2 Vector2
x 3.0
y 4.0

id3 Vector2
x 0.0
y 0.0

perp2 11
u id3
v id2

u id1
v id2

id1 Vector2
x 1.0
y 2.0

id2 Vector2
x 3.0
y 4.0

id3 Vector2
x -2.0
y 0.0

perp2 12
u id3
v id2 return u

u id1
v id2

id1 Vector2
x 1.0
y 2.0

id2 Vector2
x 3.0
y 4.0

id3 Vector2
x -2.0
y 1.0

perp2 12
u id3 return id3
v id2

u id1
v id2

id1 Vector2
x 1.0
y 2.0

id2 Vector2
x 3.0
y 4.0

id3 Vector2
x -2.0
y 1.0

~~perp2
u id3 return id3
v id1~~

~~u id1
v id2~~

id2 Vector2
x 1.0
y 2.0

id3 Vector2
x -2.0
y 1.0

~~id3 Vector2~~