

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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Smt 343  
Nicole Yatchan  
ny 73

(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(c)		

no change.

min	c	1.0	m	1.0	10
	b	2.0			
	a	3.0			

no change

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

no change.

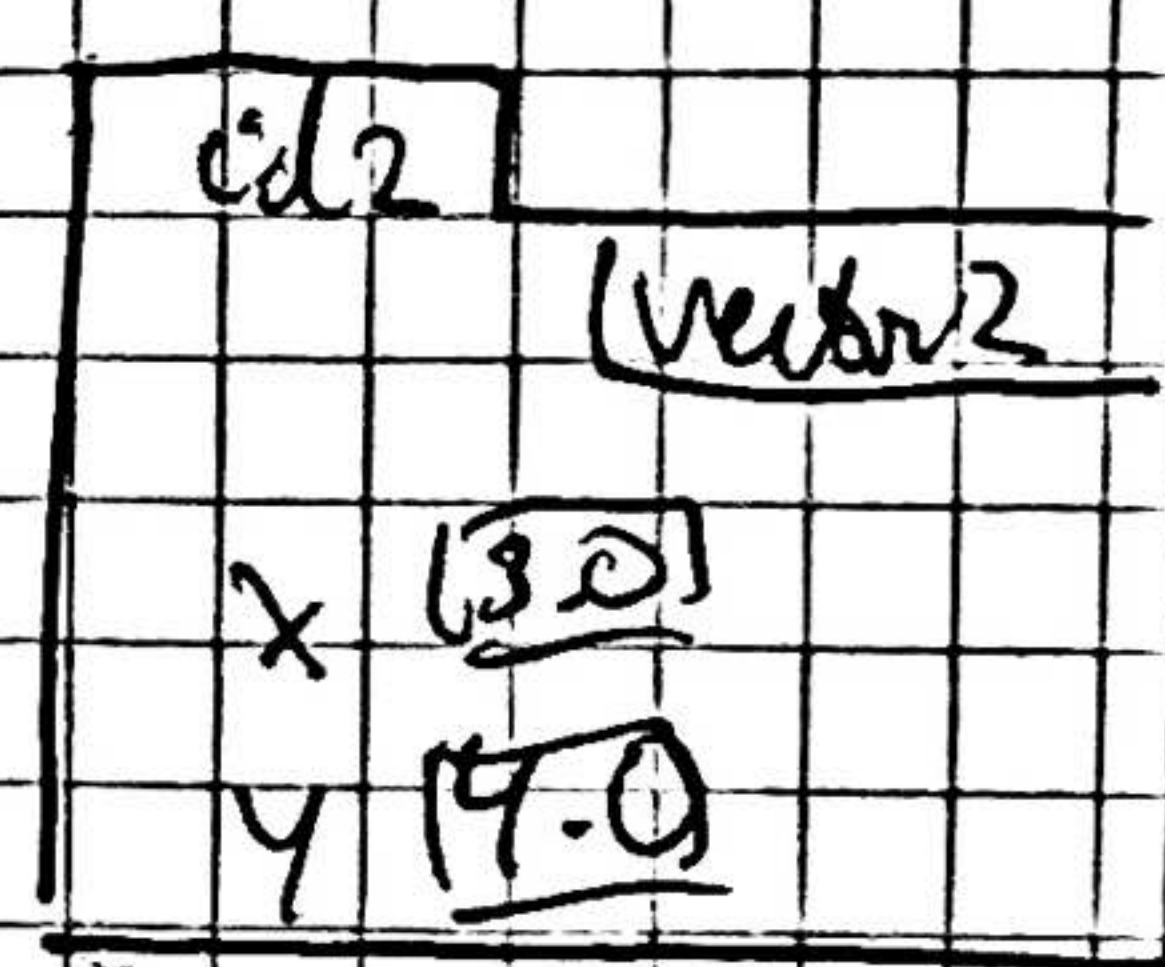
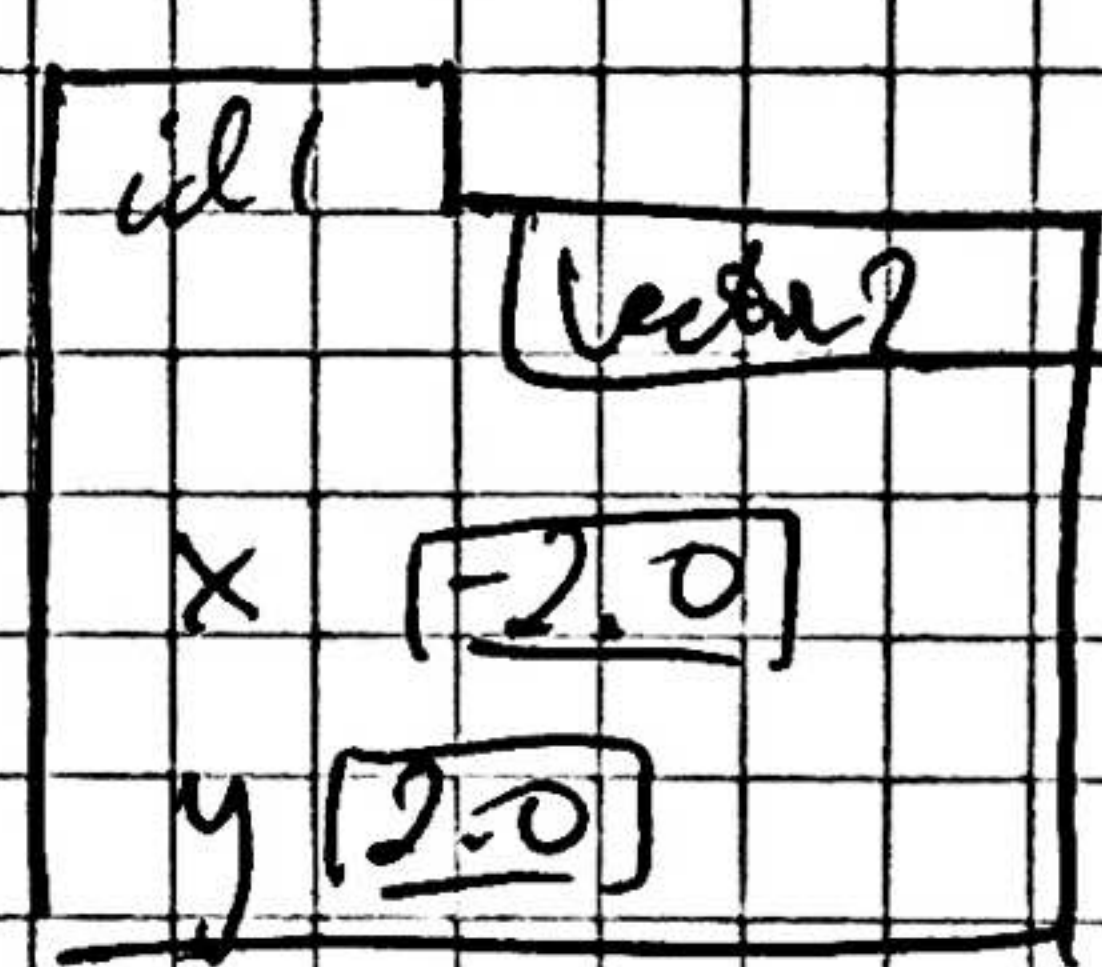
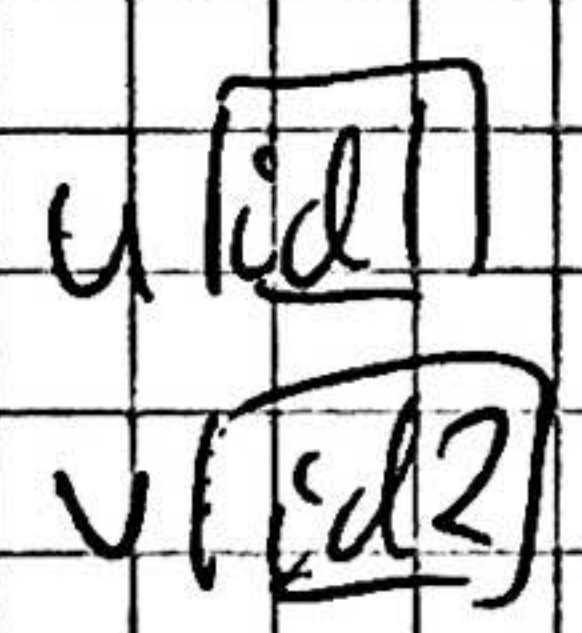
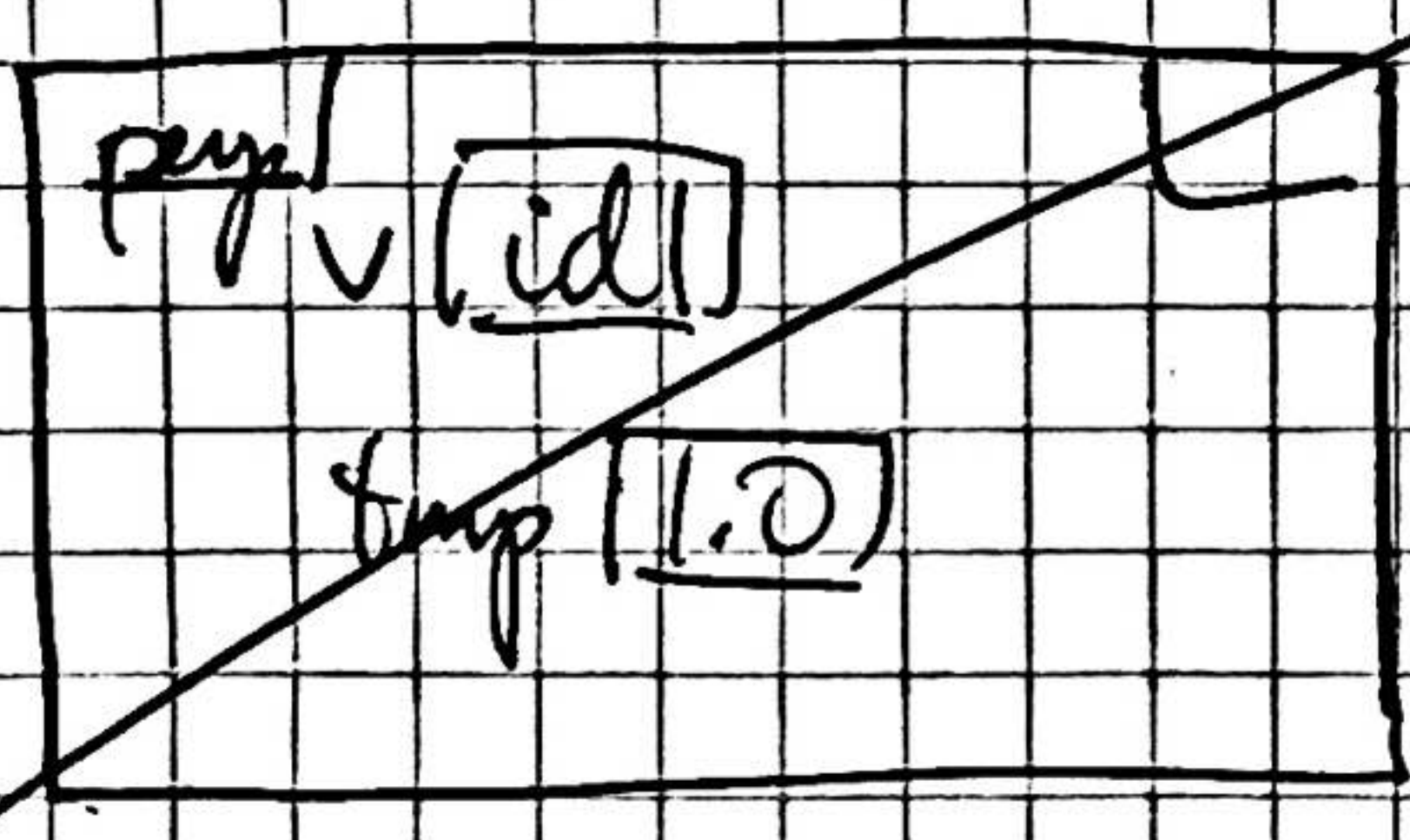
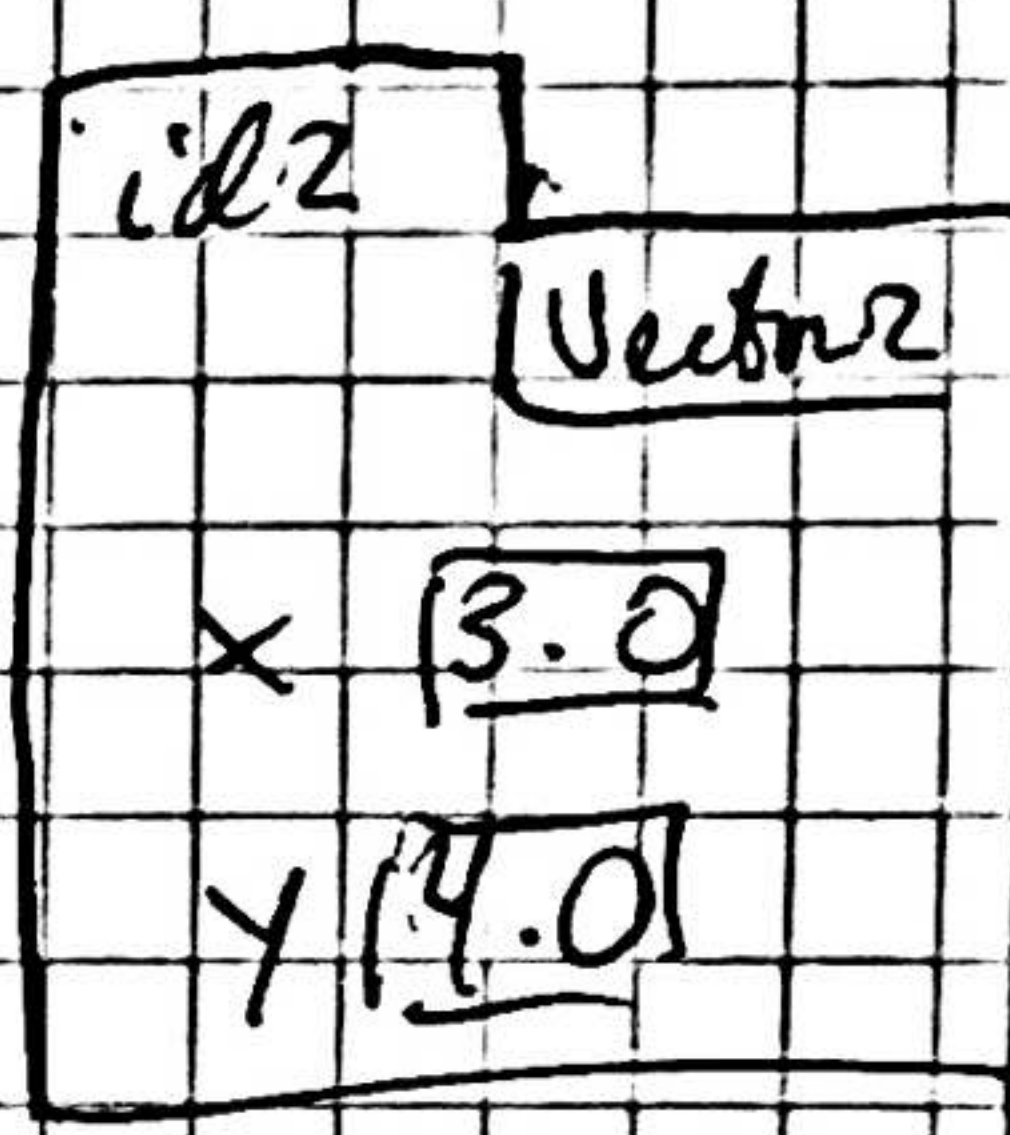
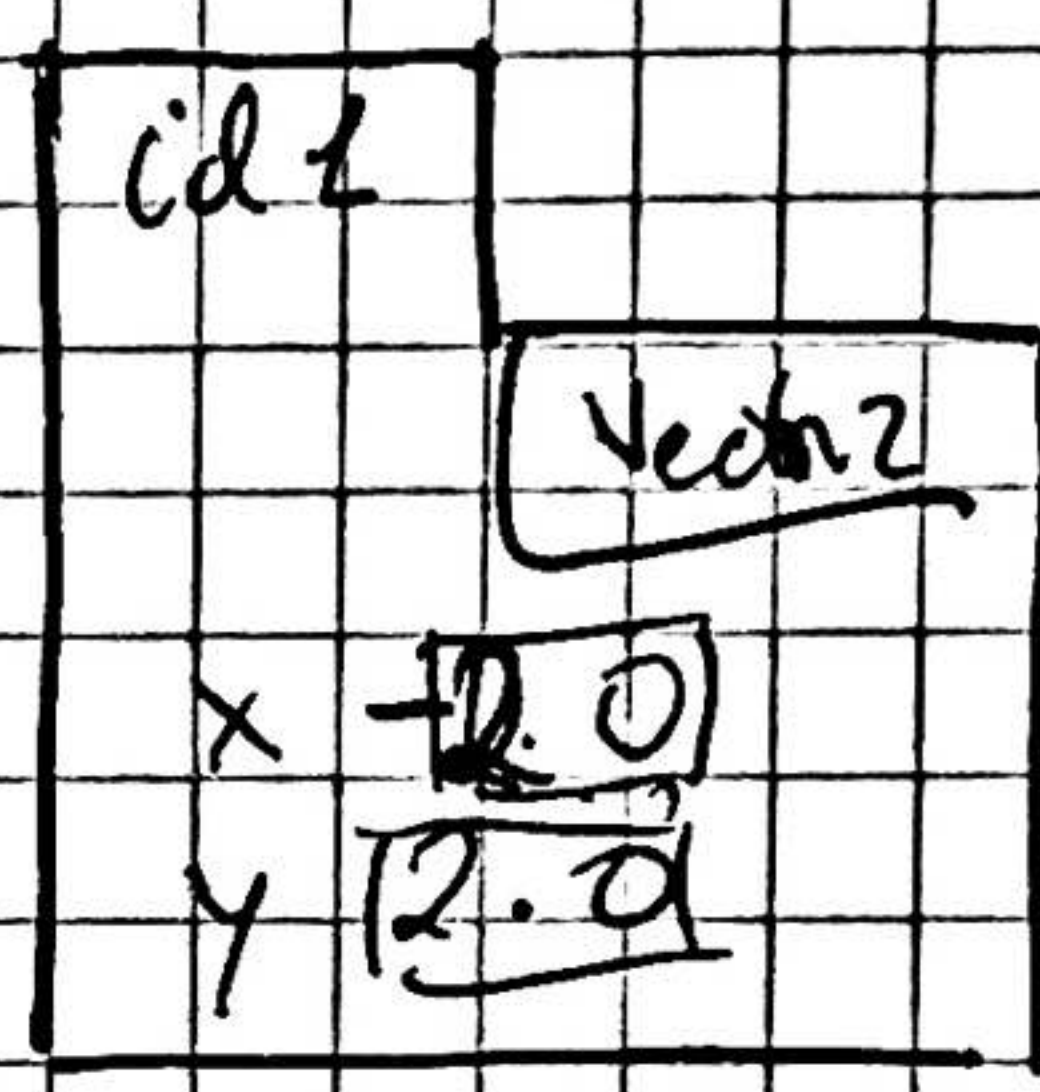
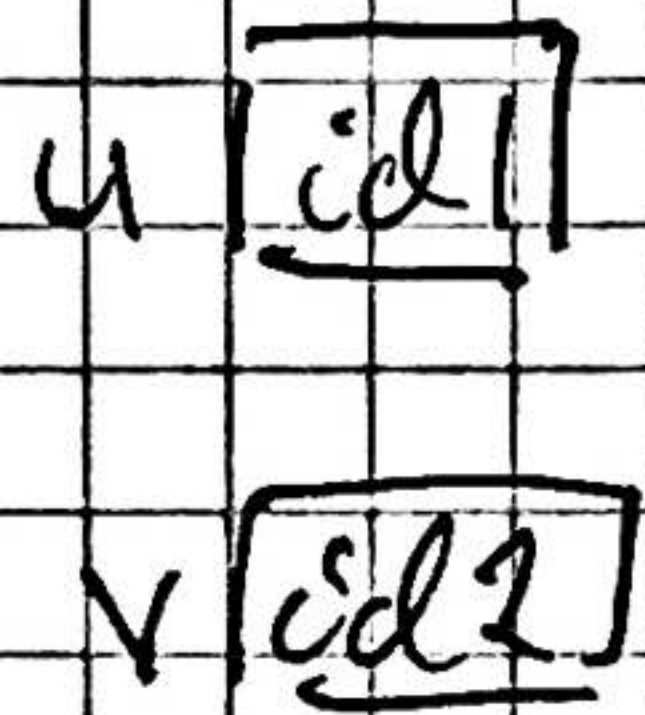
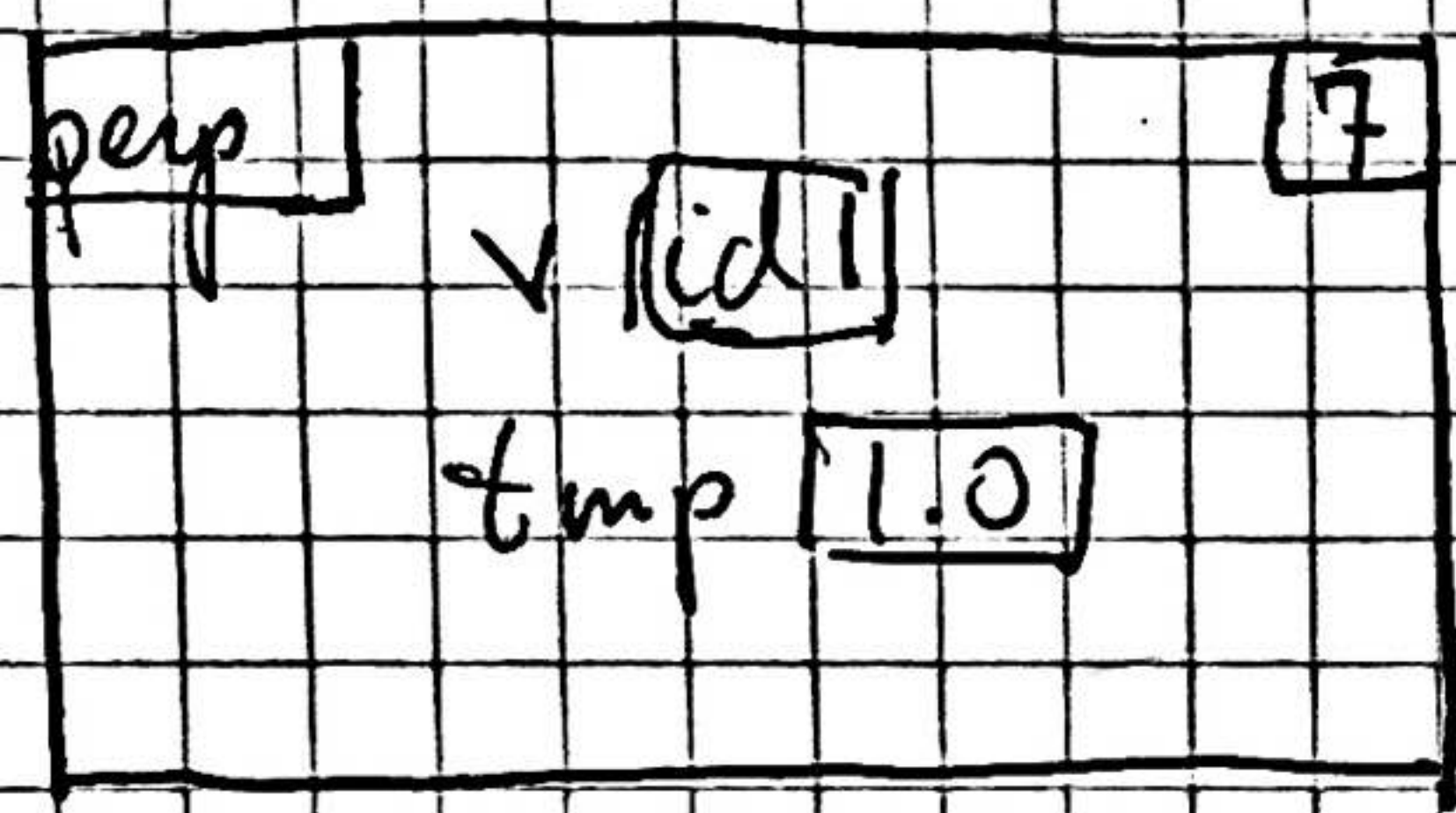
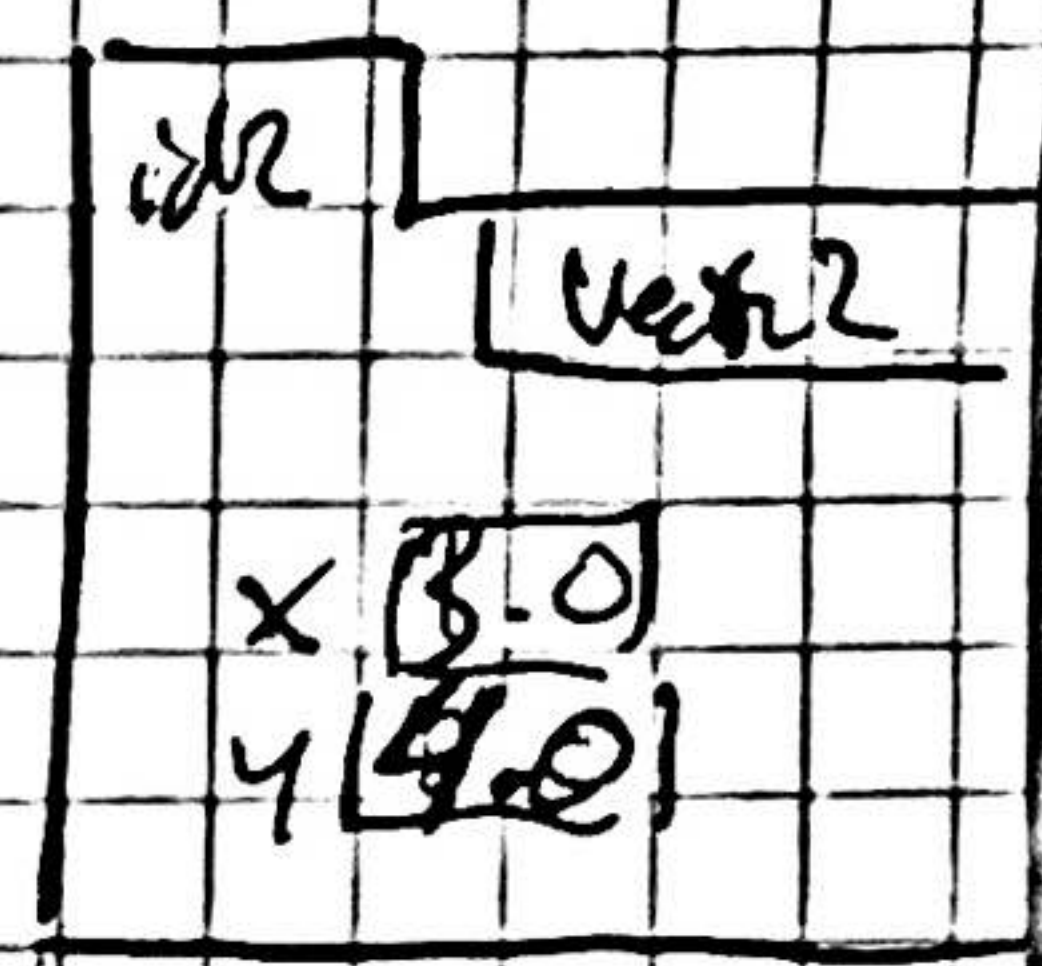
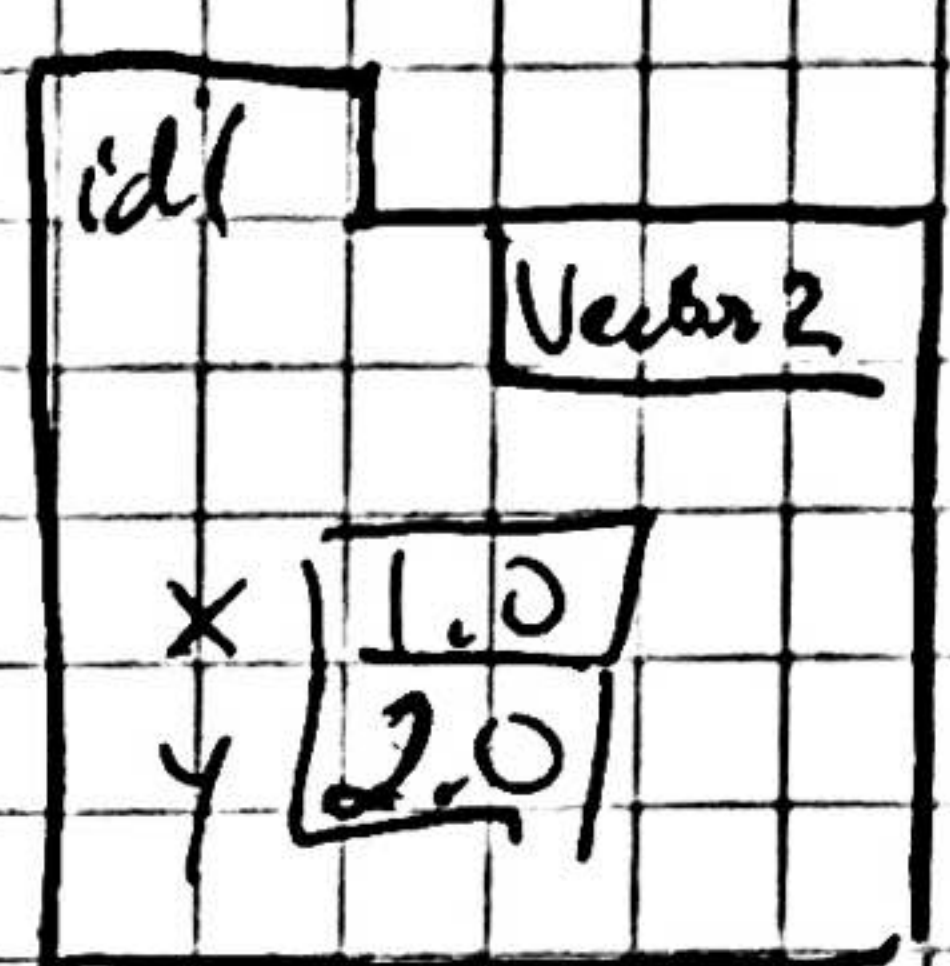
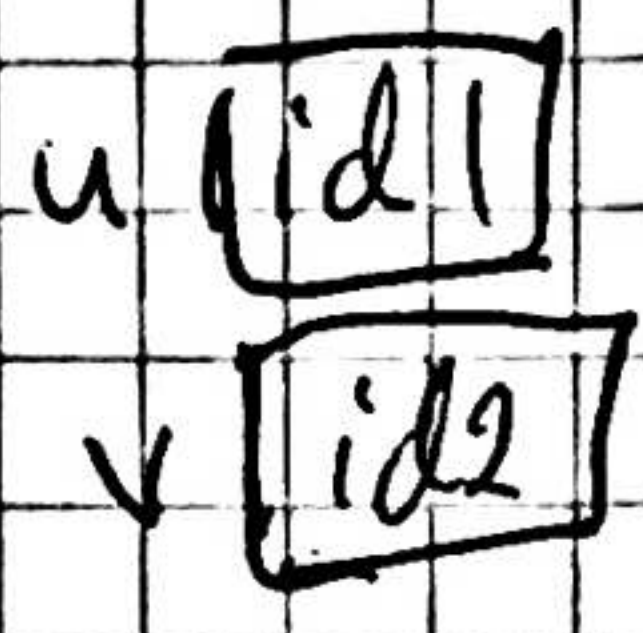
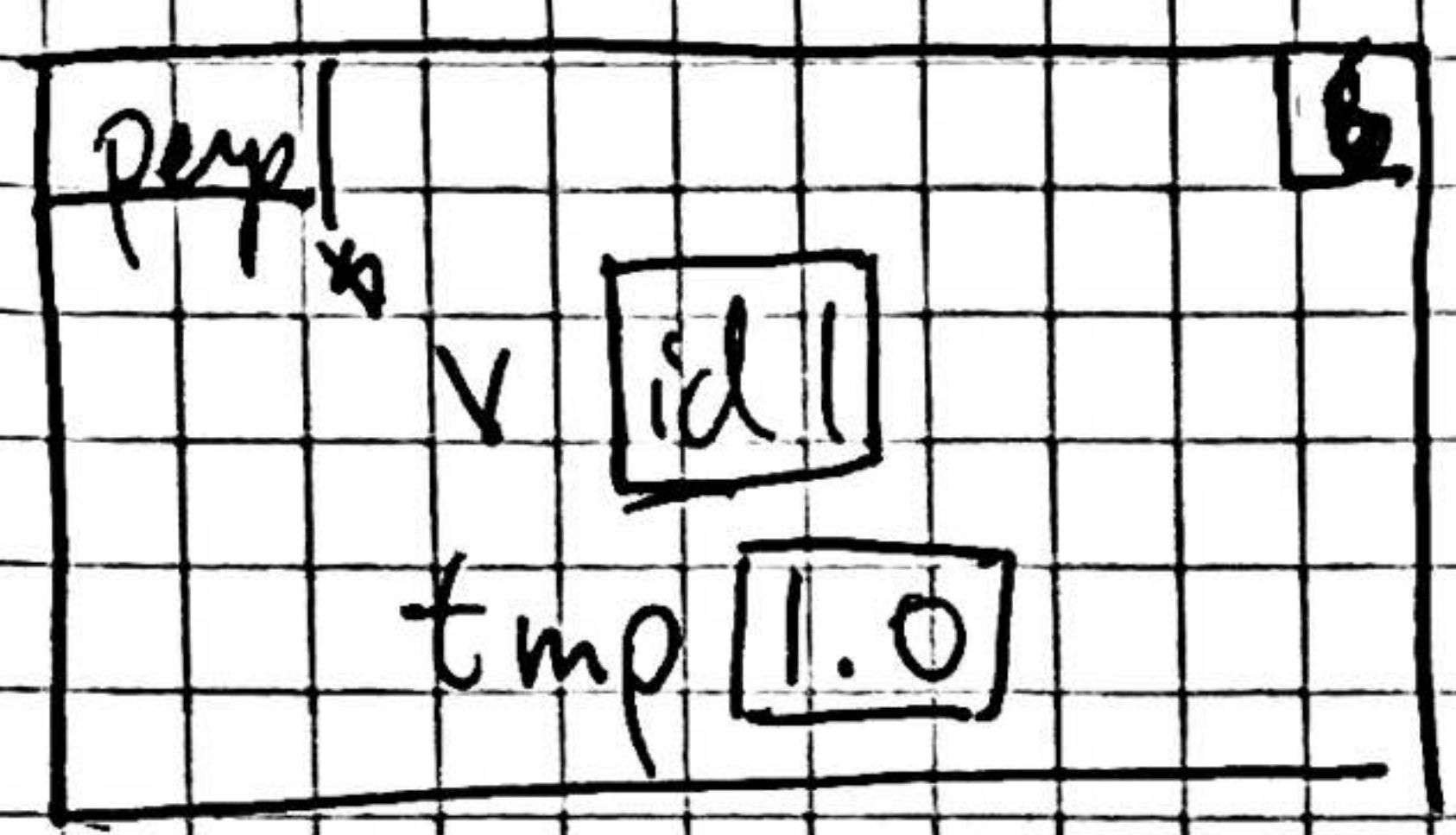
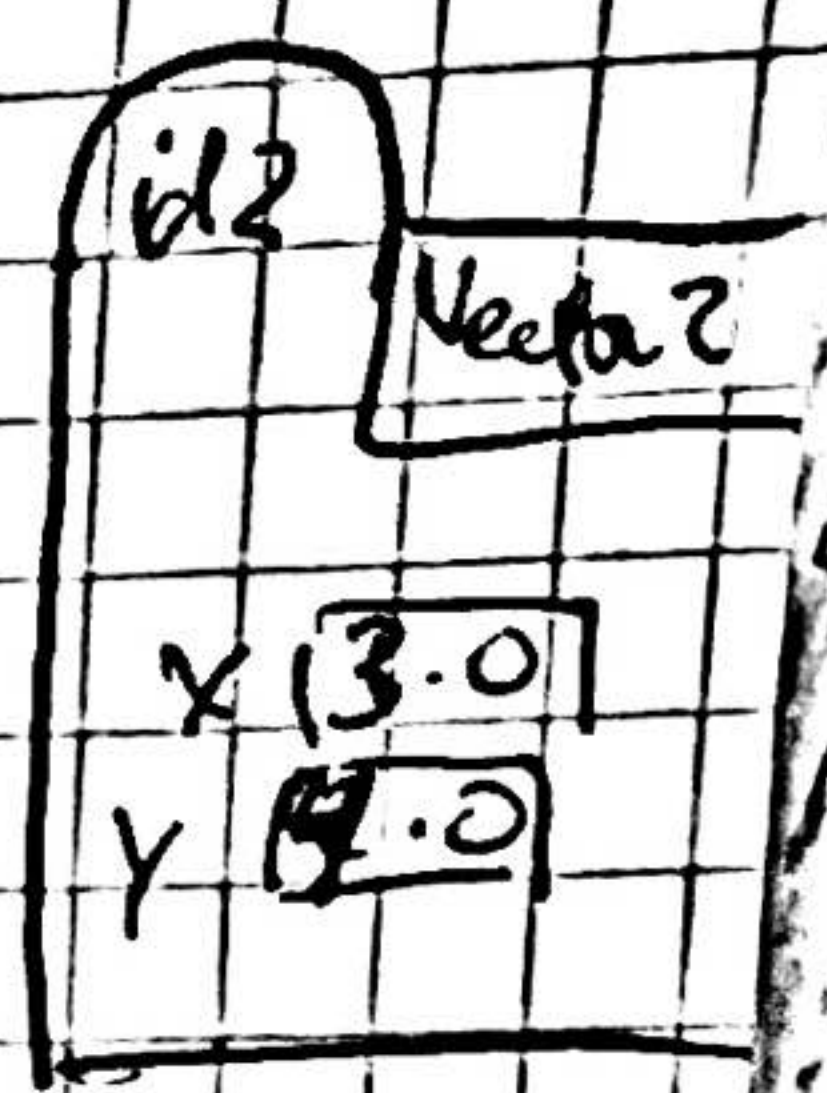
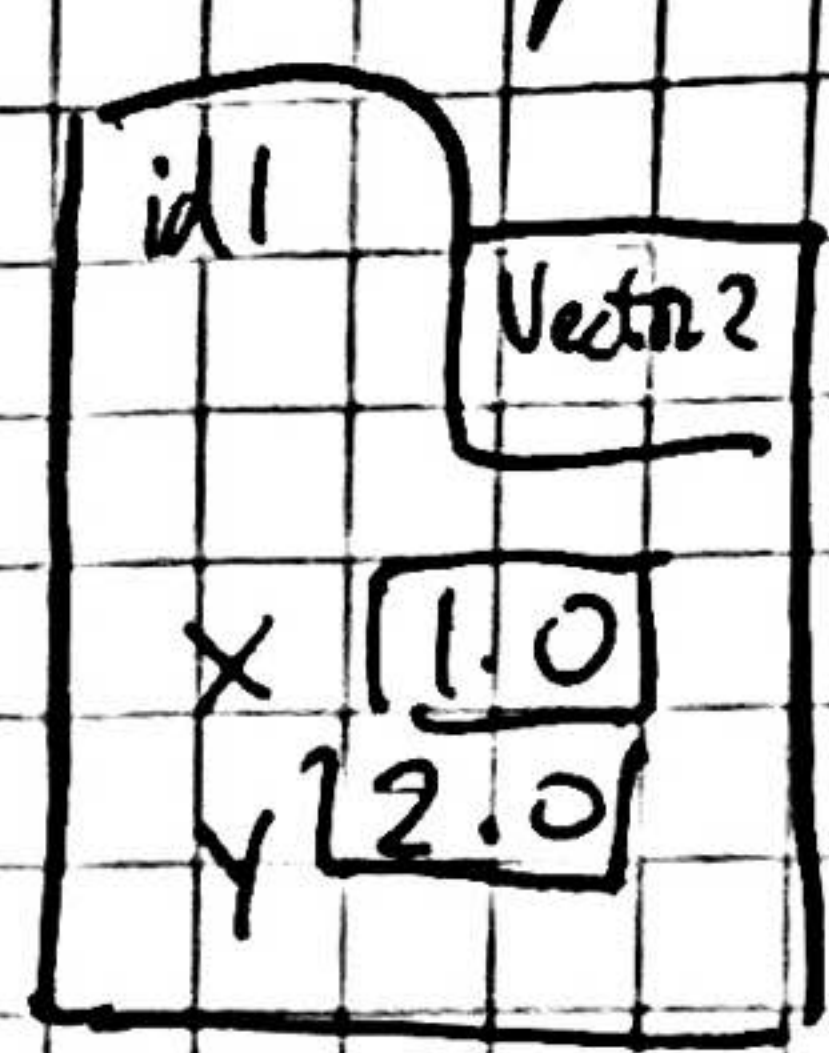
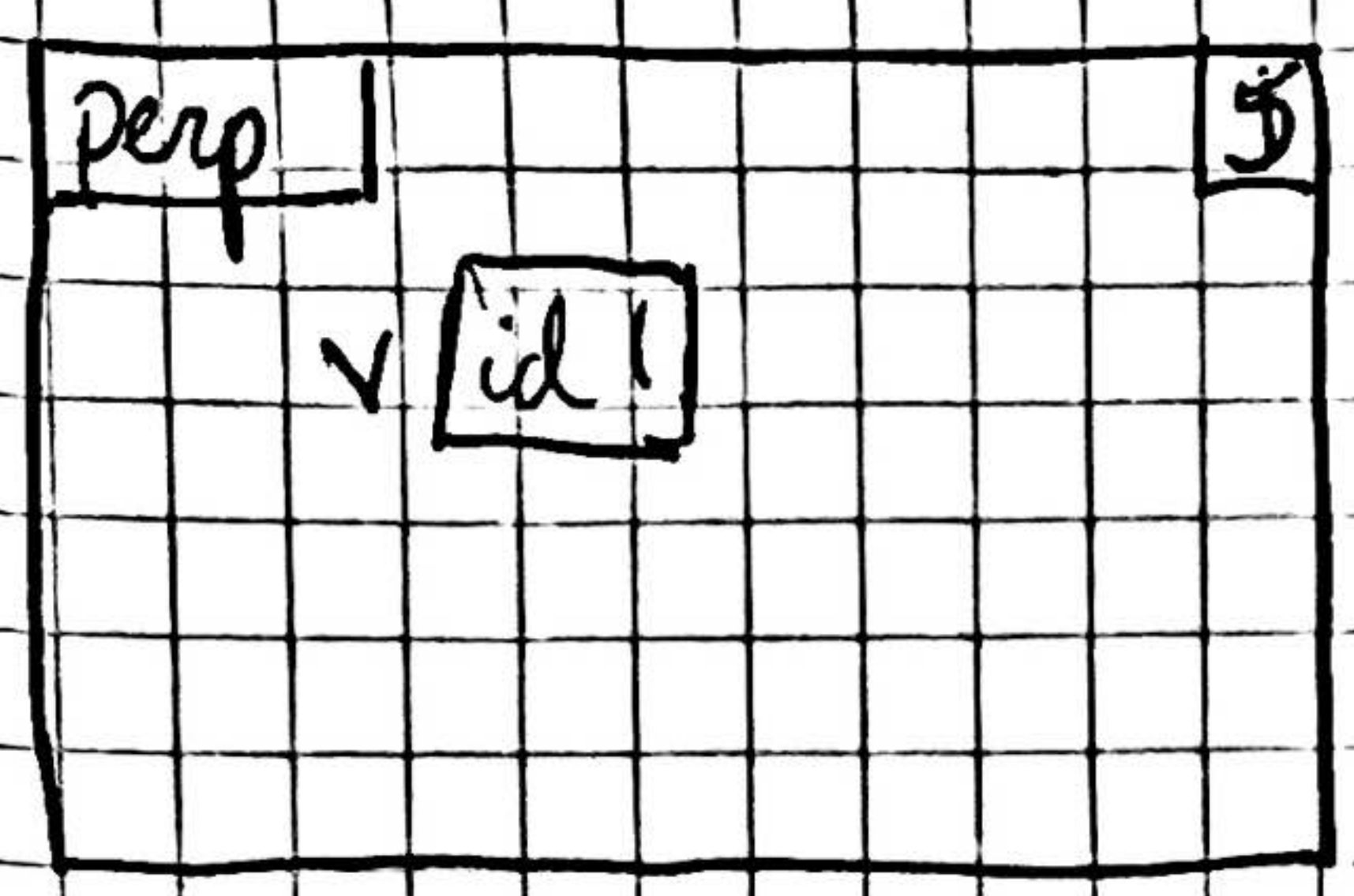
min	c	1.0	m	1.0	
	b	2.0	return	1.0	
	a	3.0	<del>return 1.0</del>		

no change.



# Part 1

## Global Space



(used python tutor)



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perp2 5

Global Space  
u id1  
v id2

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8m1343  
Nicole Yatskon  
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~~



"""

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"""

def dist(x,y):

"""Returns: The number line distance between x and  
y

Example: dist(2,5) returns 3

Example: dist(5,2) returns 3

Parameter x: the starting point

Precondition: x is a number

Parameter y: the ending point

Precondition: y is a number

"""

a = y - x

|

if a < 0:

-a = b

else

return b