Lecture 1

Thursday, 26 March 2020 9:07 PM

Hi Everyone

We will start in

→ Hindi + English

→ English

Hindi

→ 7 - 9

→ 7 - 10

google Form

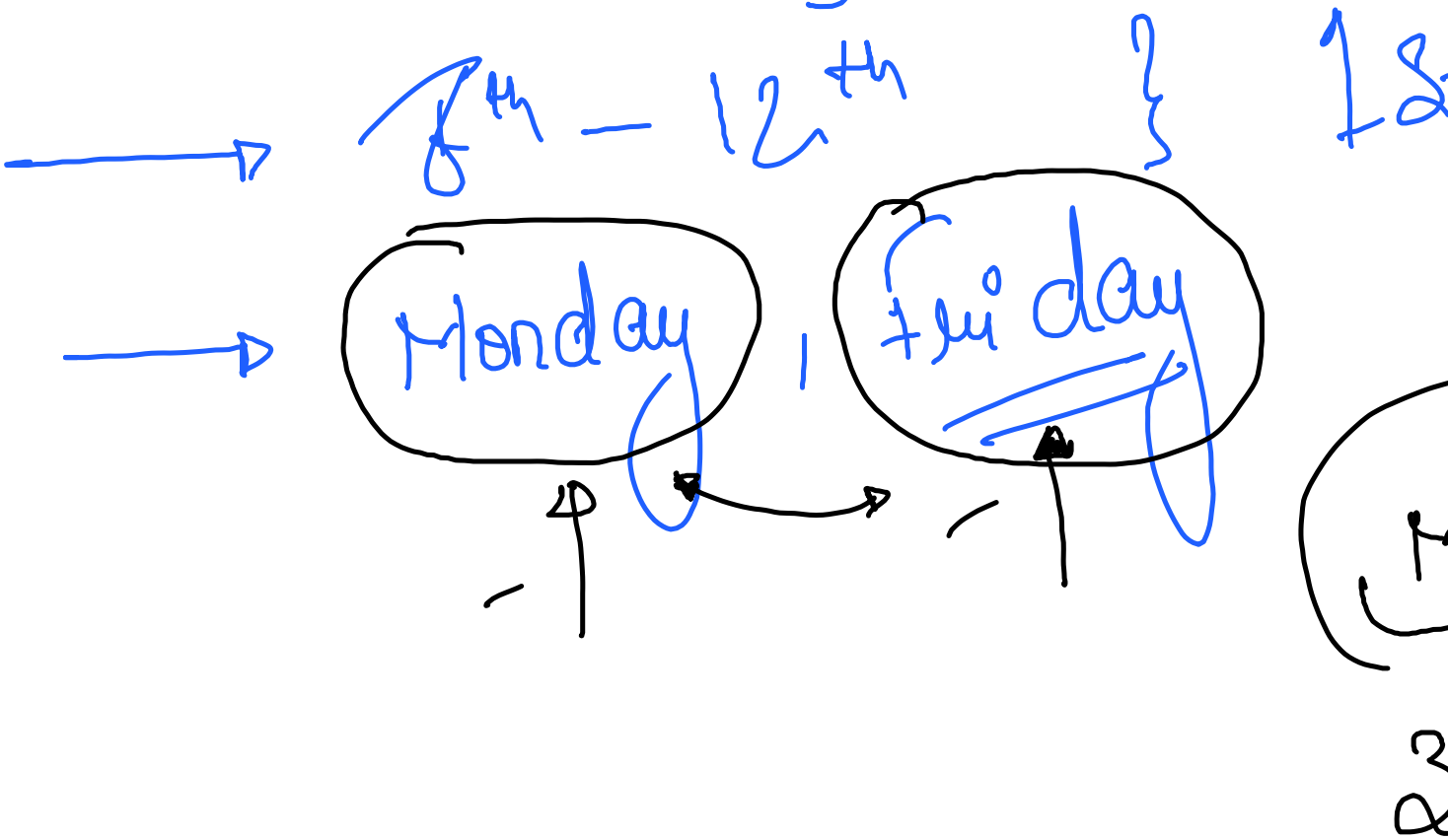
5 mins

8 - 11

6 - 9

5 - 8

4 - 7



→ recorded videos

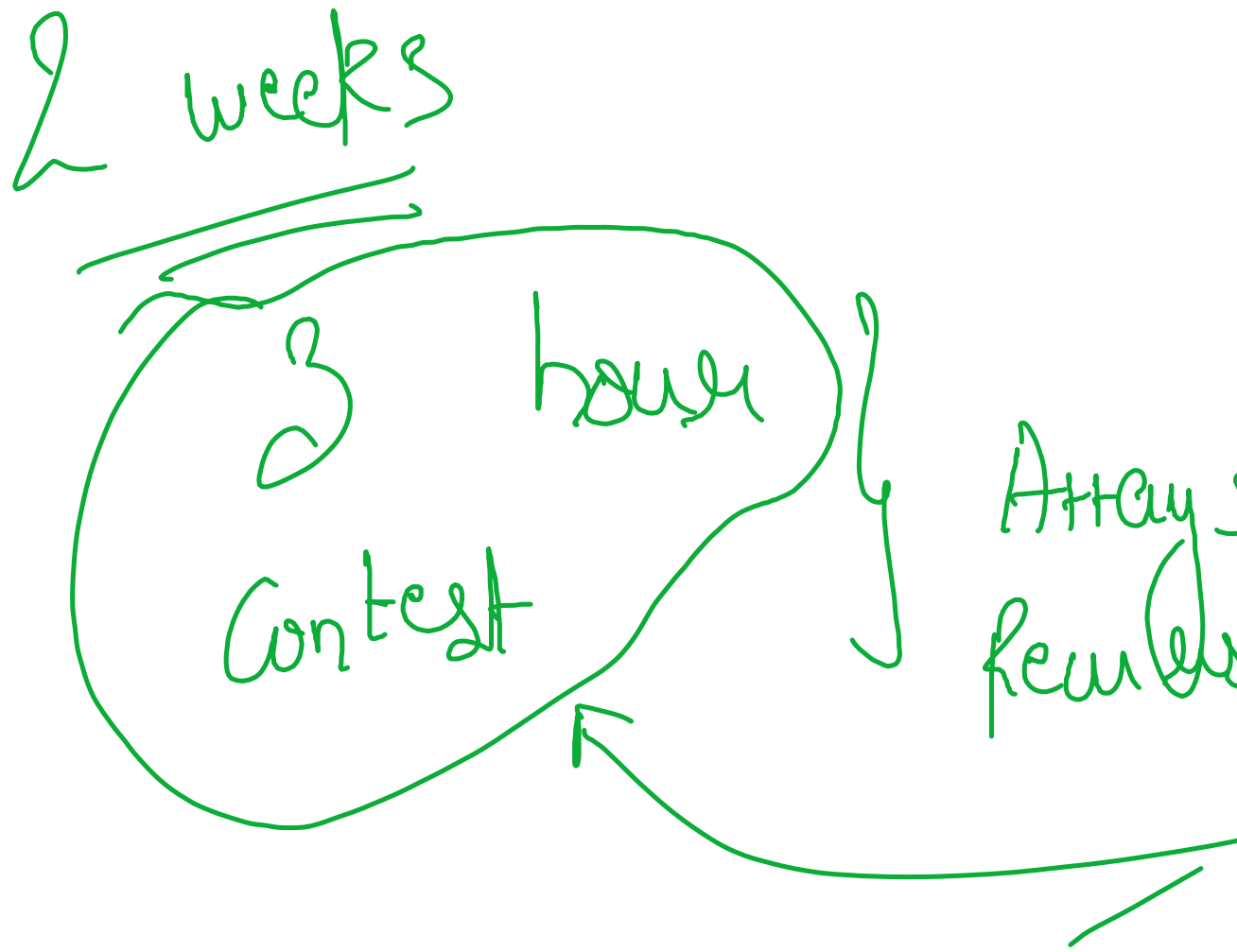
t week

13th April
2nd
1, Tues. Th, Fri

hours

Whatsapp link

Pranav.Khandelwal@Codin



online . codingblocks . com

Hackerblocks →

→ 9953004 7 9

8
sion } → 5

IDE

Sublime / Atom

VS Code

cb.lk / install

→

After class

1 Co-mentor

2 TAs →

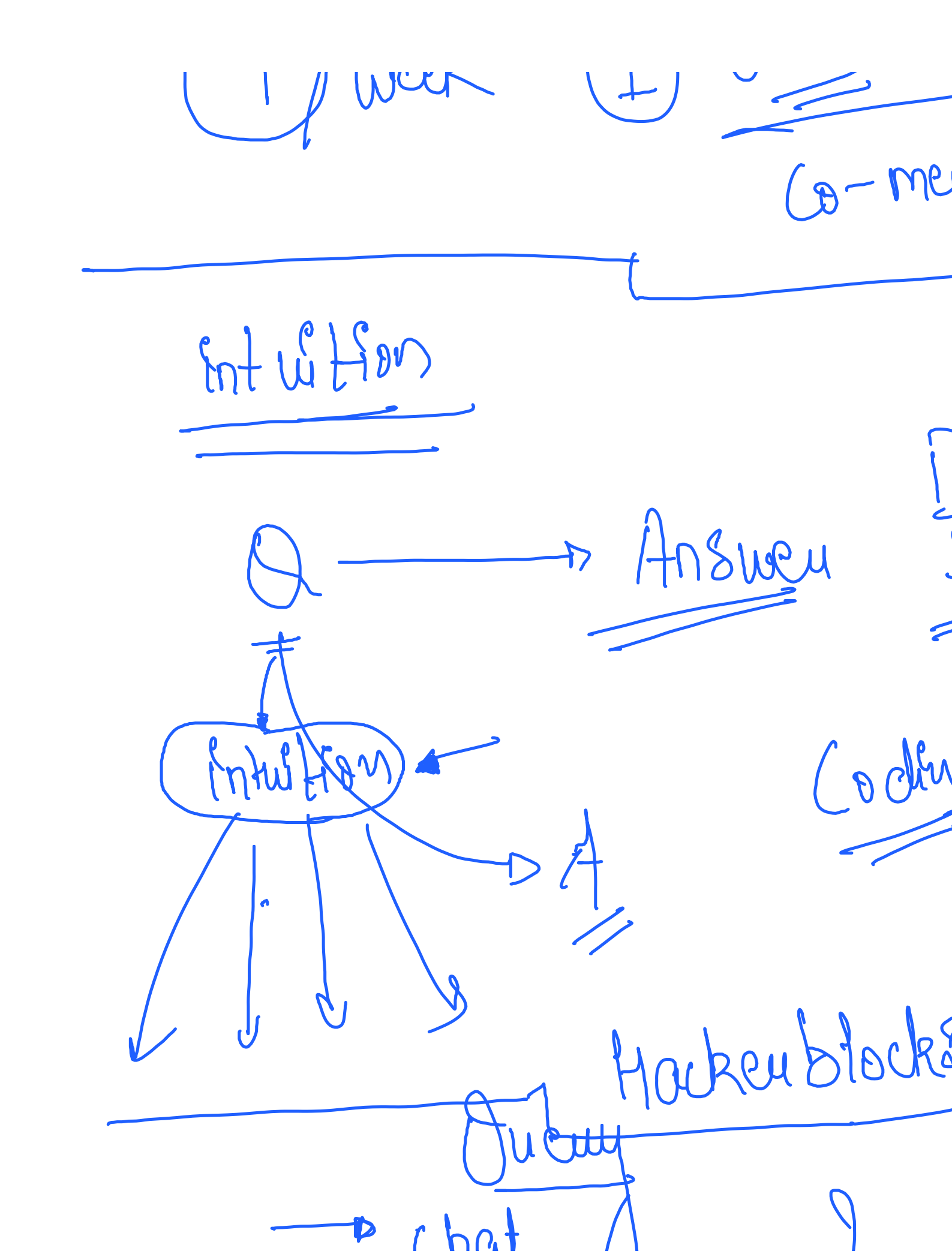
4 Y. sob

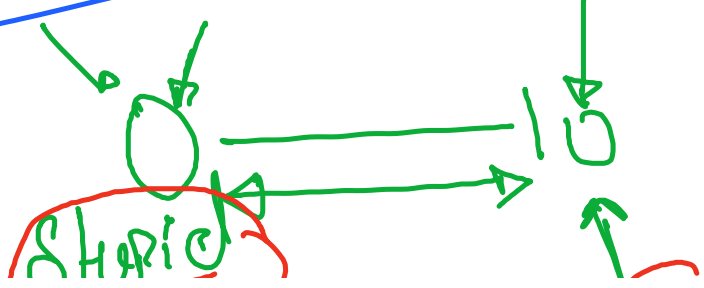
1 doubt. E

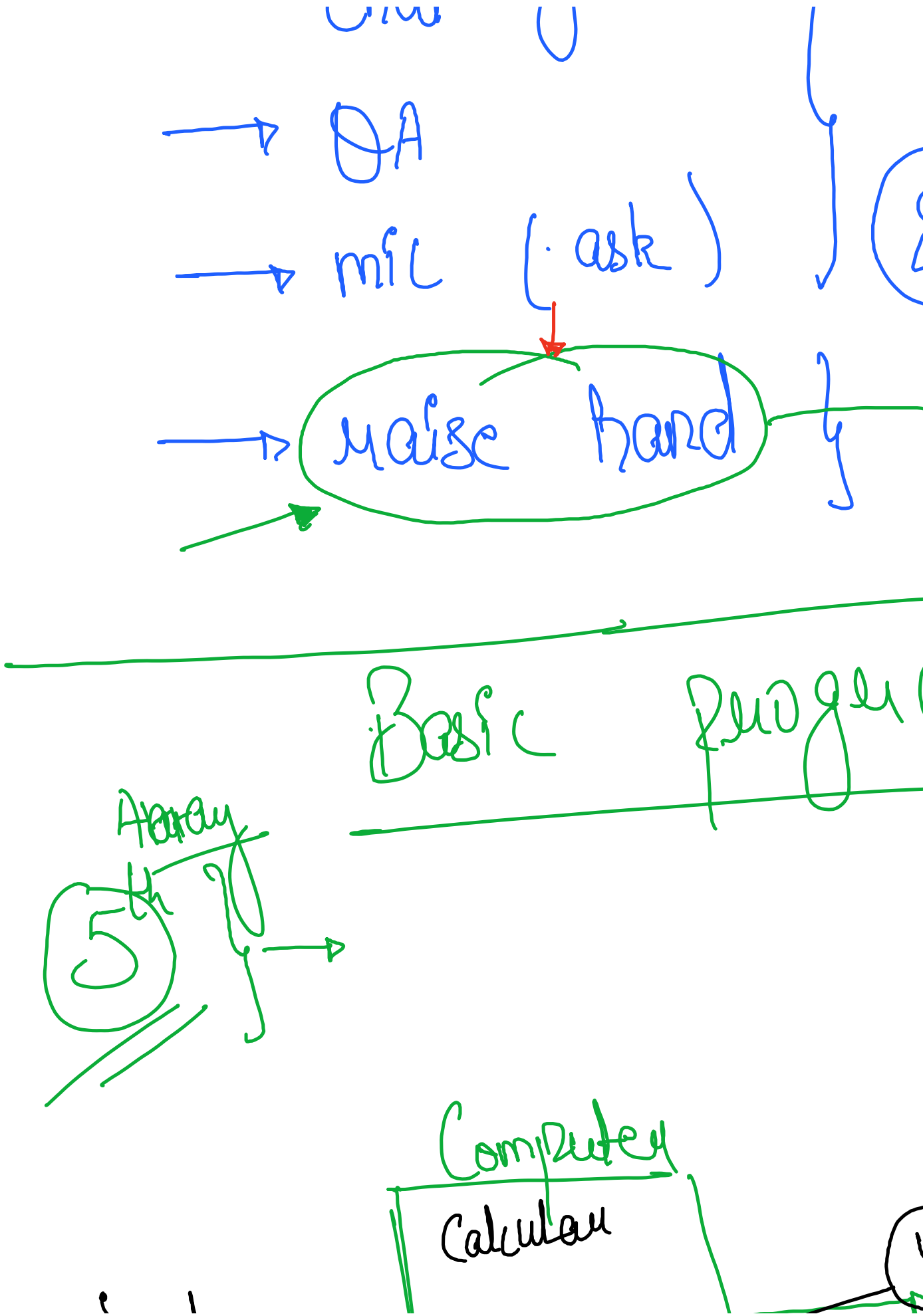
blocks

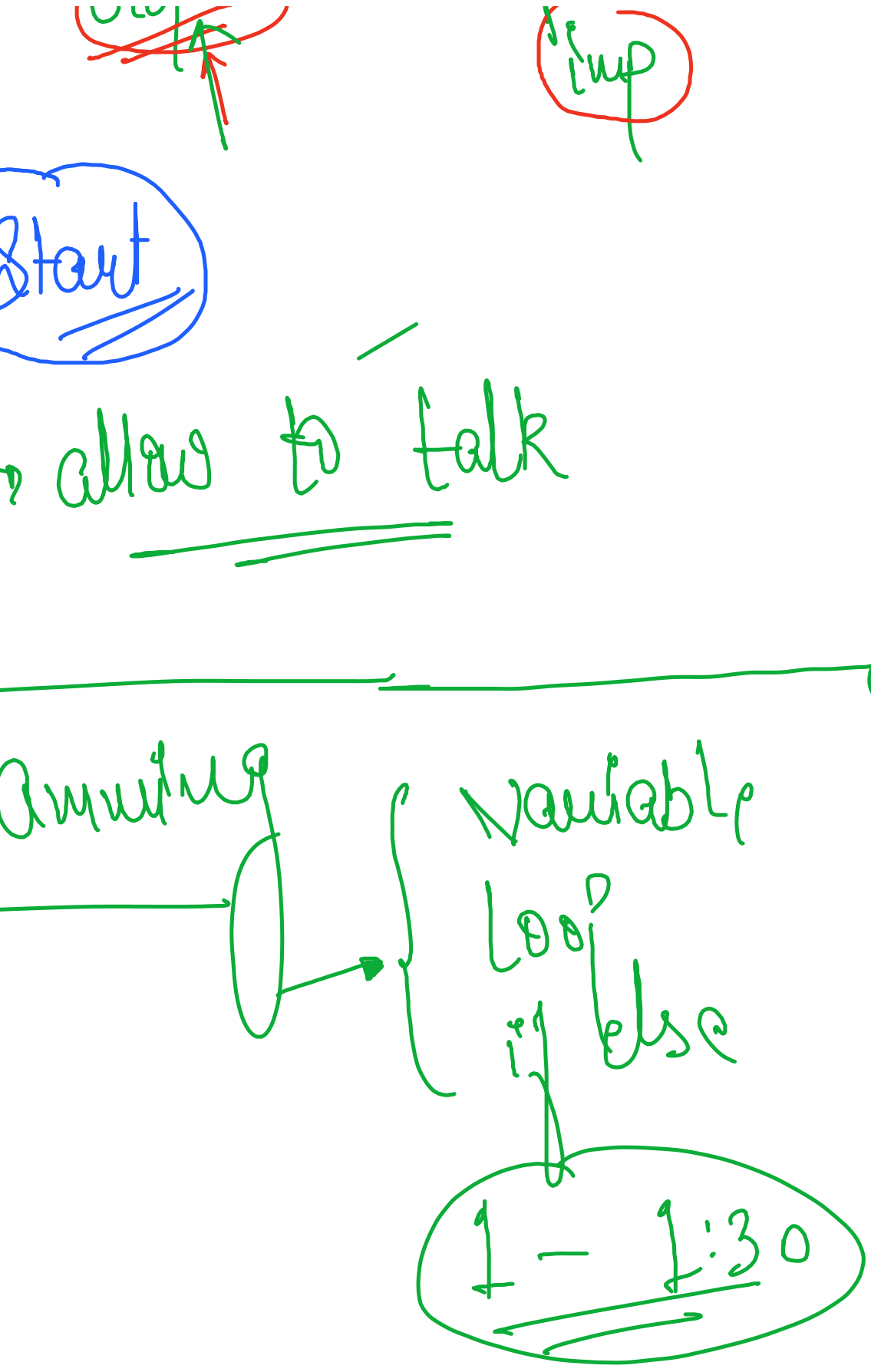
Teacher Assitant

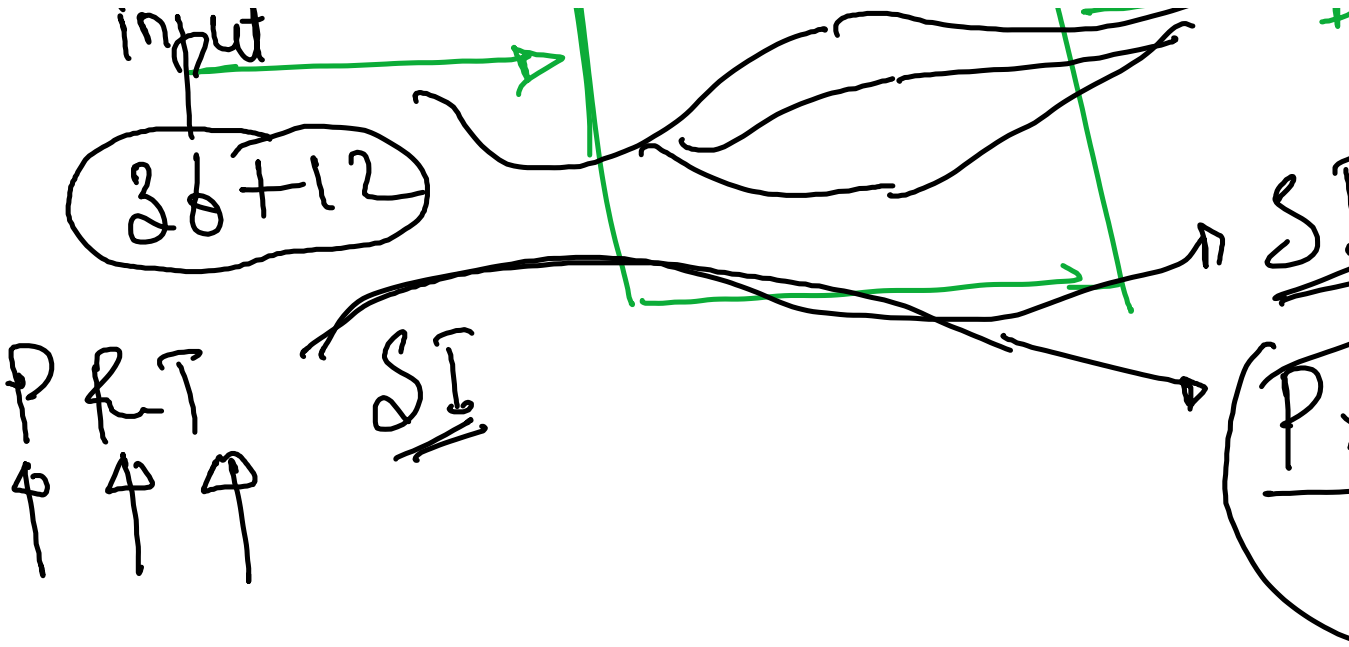
ssion


Intuition
Q
Answer
Intuition
A
Hackerblocks
Queue




OA
mic
(ask)
raise hand
Basic
Array
5th
Computer
Calculator


Start
allow to talk
Variable
Loop
if else
1 — 1:30



Set instruction

Pizza

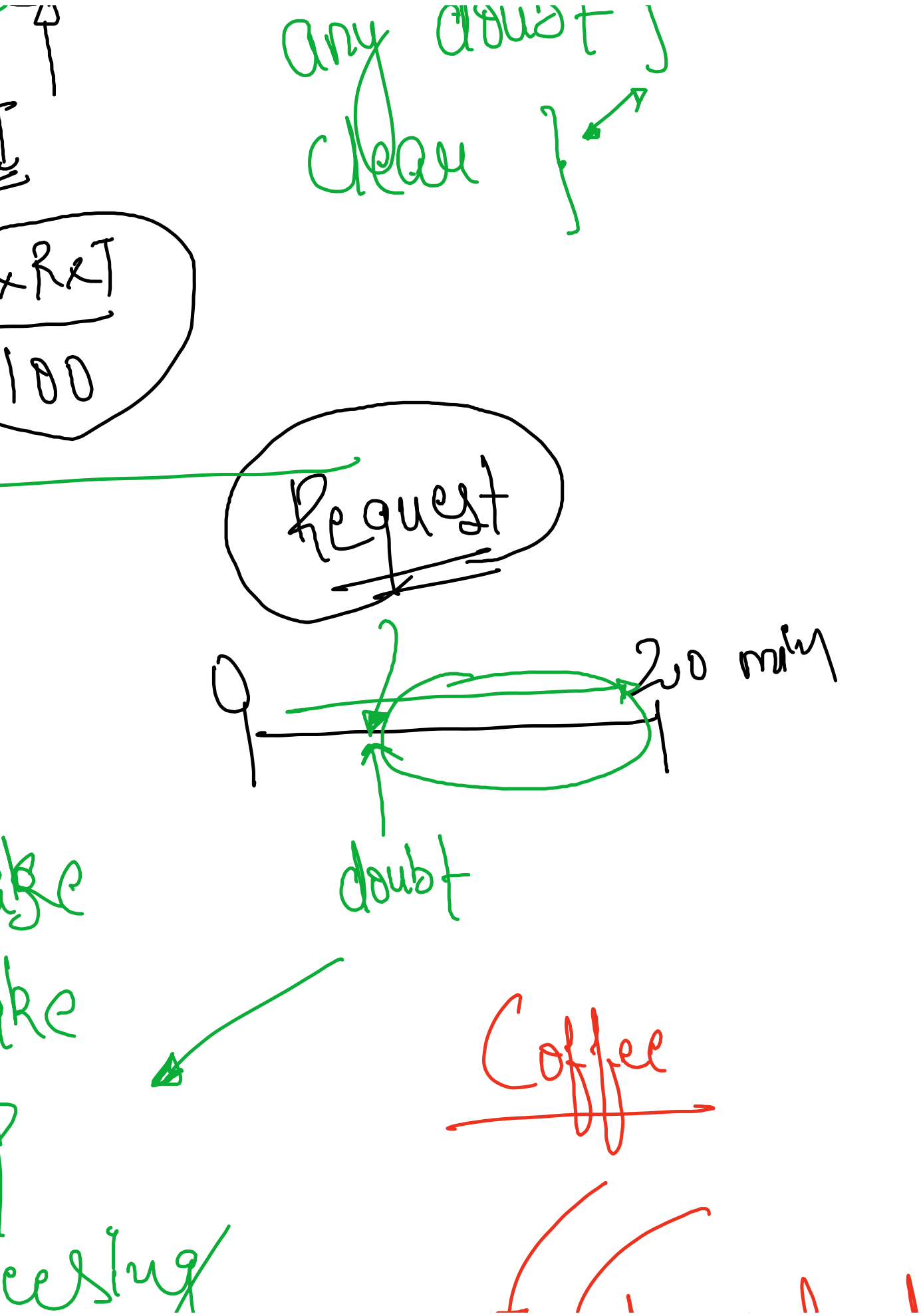
→ Base

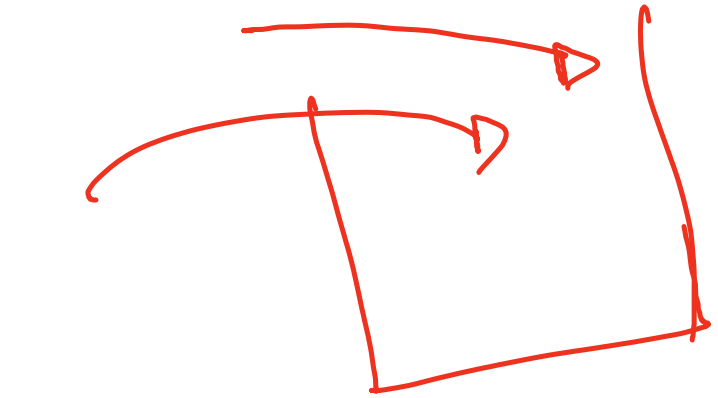
→ Cheese

→ topping

→ Rate

①	Ba
②	Ba
③	to
④	ch


any doubt
clear
Request
20 min
doubt
Coffee

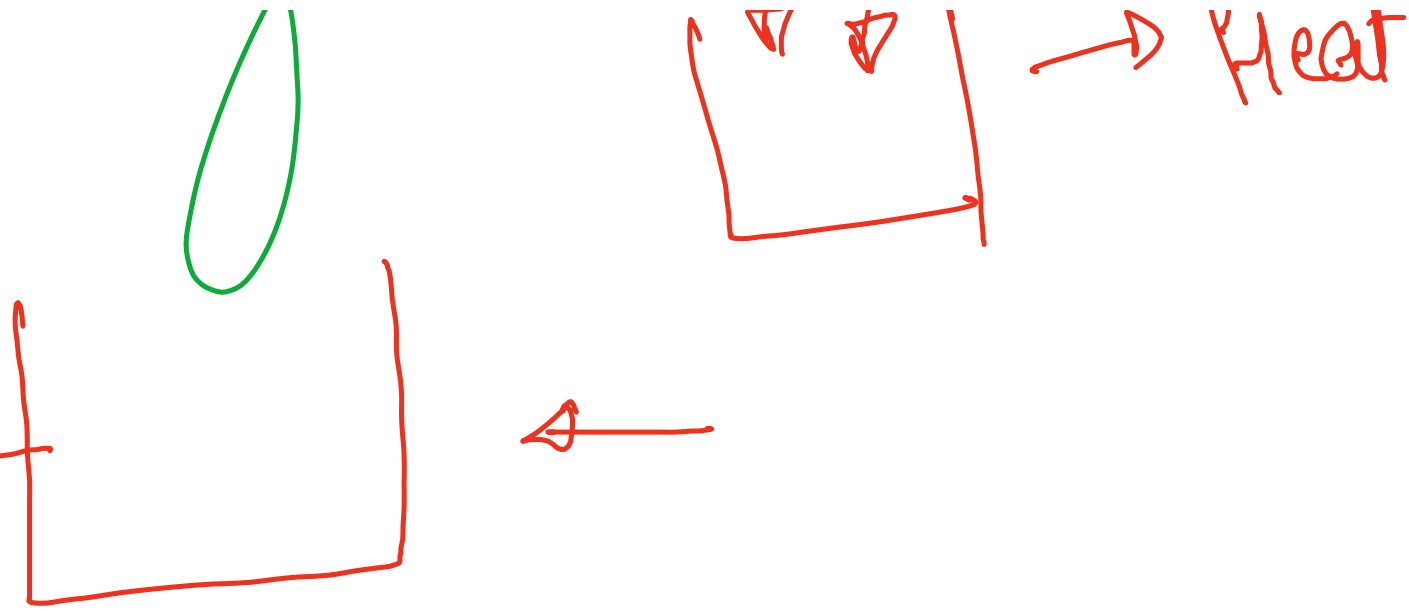


Heating

SI

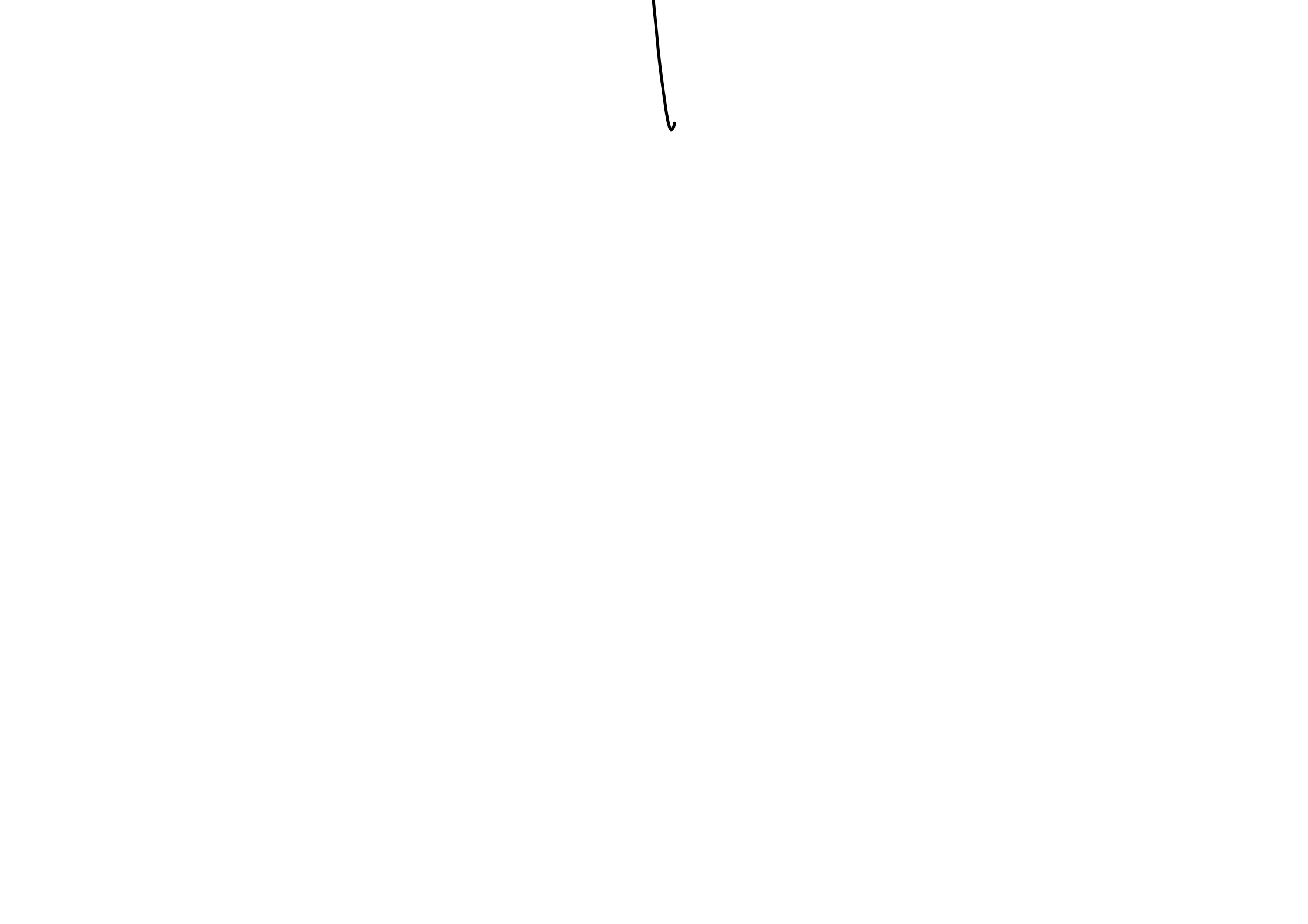
P.

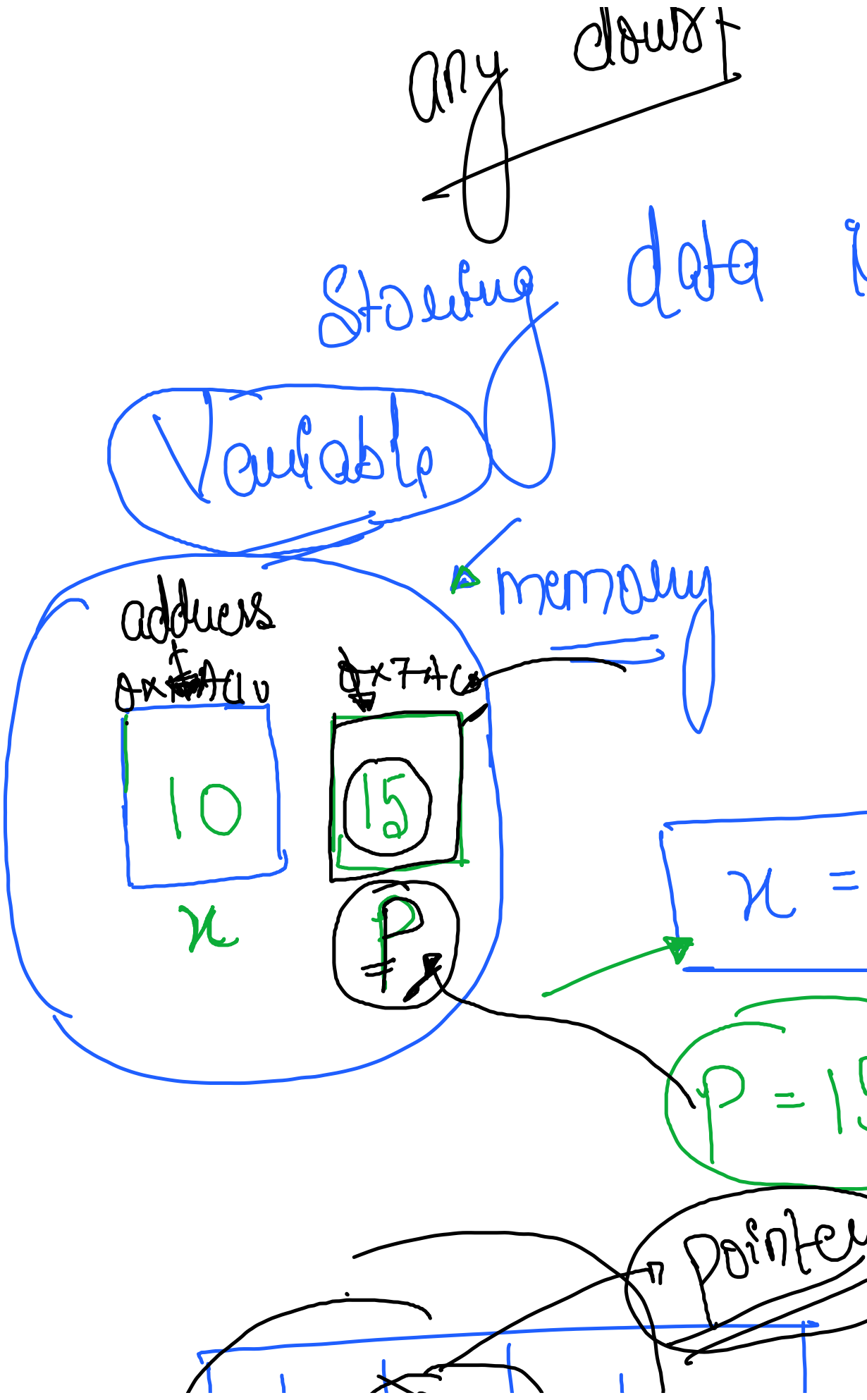
$$\frac{P \times R \times T}{100} \equiv SI$$

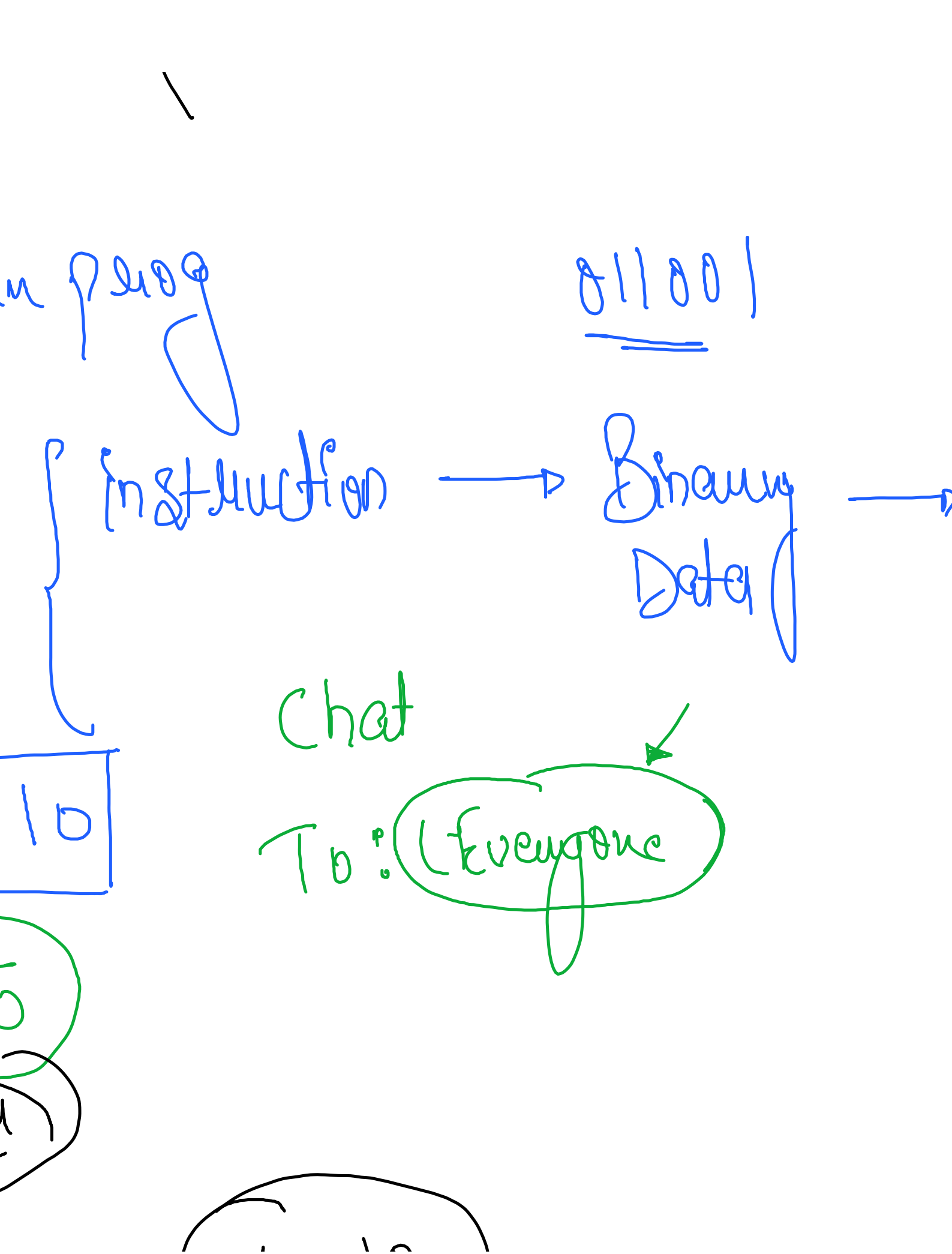


48
52
3
6
91

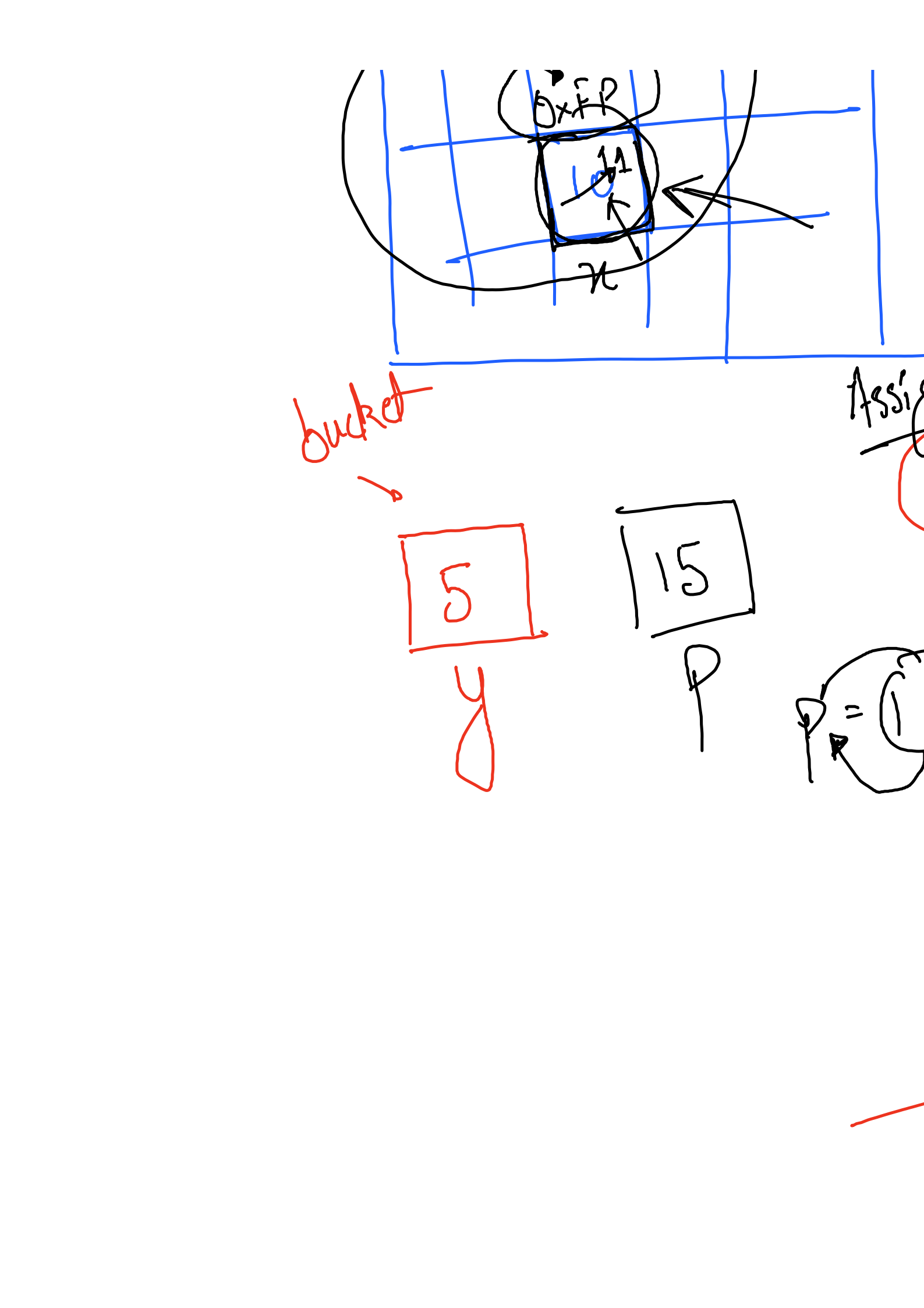
91
52
48
6
3

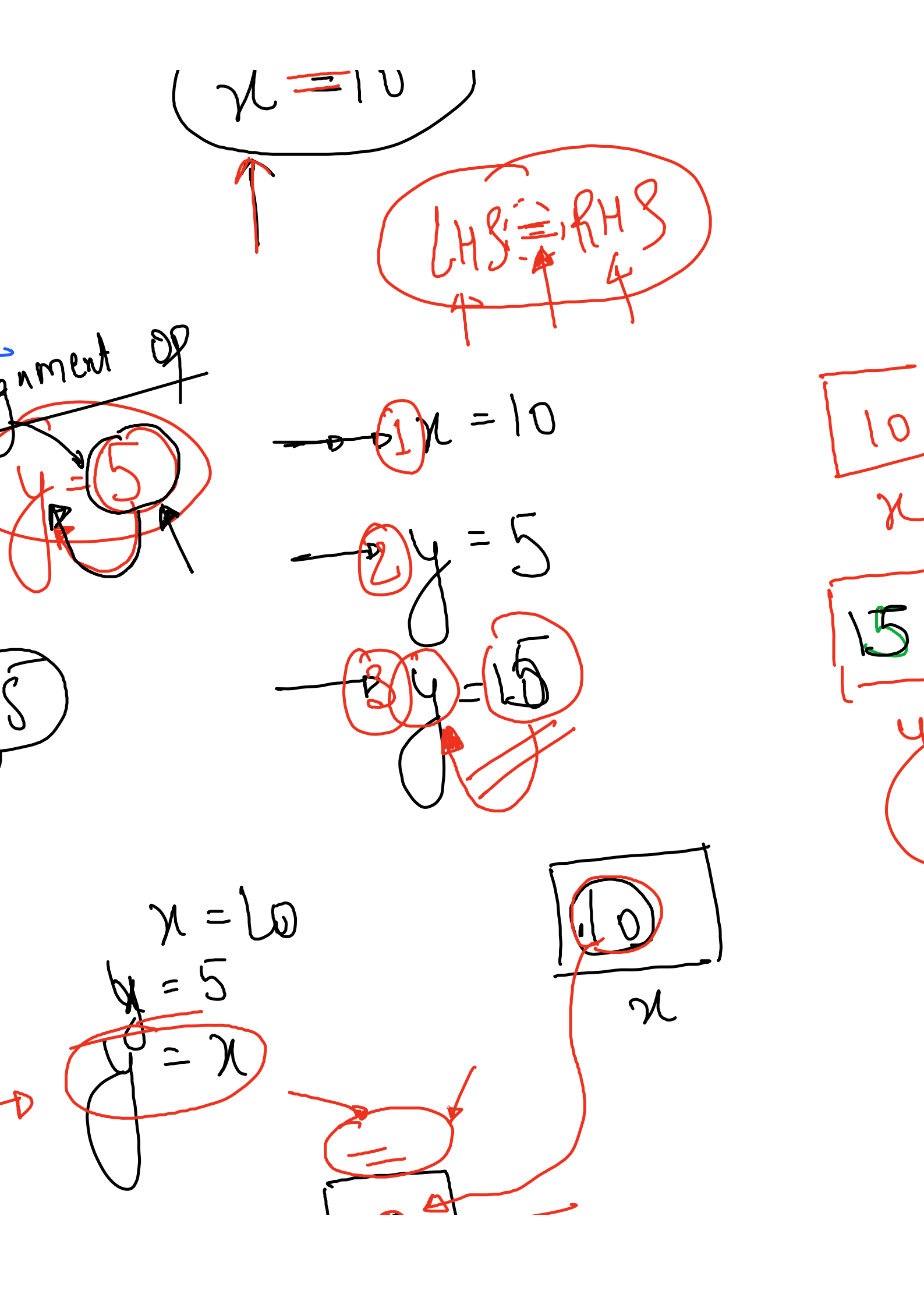


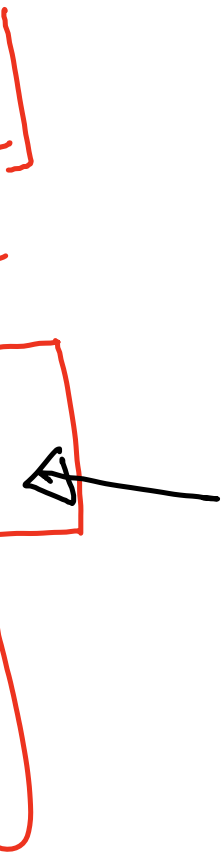

any
Storing data
Variable
memory
address
10
15
x
P
P = 15
Pointer


Instruction
Binary Data
01100
Chat
To: Everyone
10

output / result


0x1P
10
11
N
bucket
5
y
15
P
=


x = 10
LHS = RHS
nment op
y = 5
1 x = 10
2 y = 5
3 y = 15
10
x
15
y
x = 10
y = 5
y = x
10
x



Any doubt ?

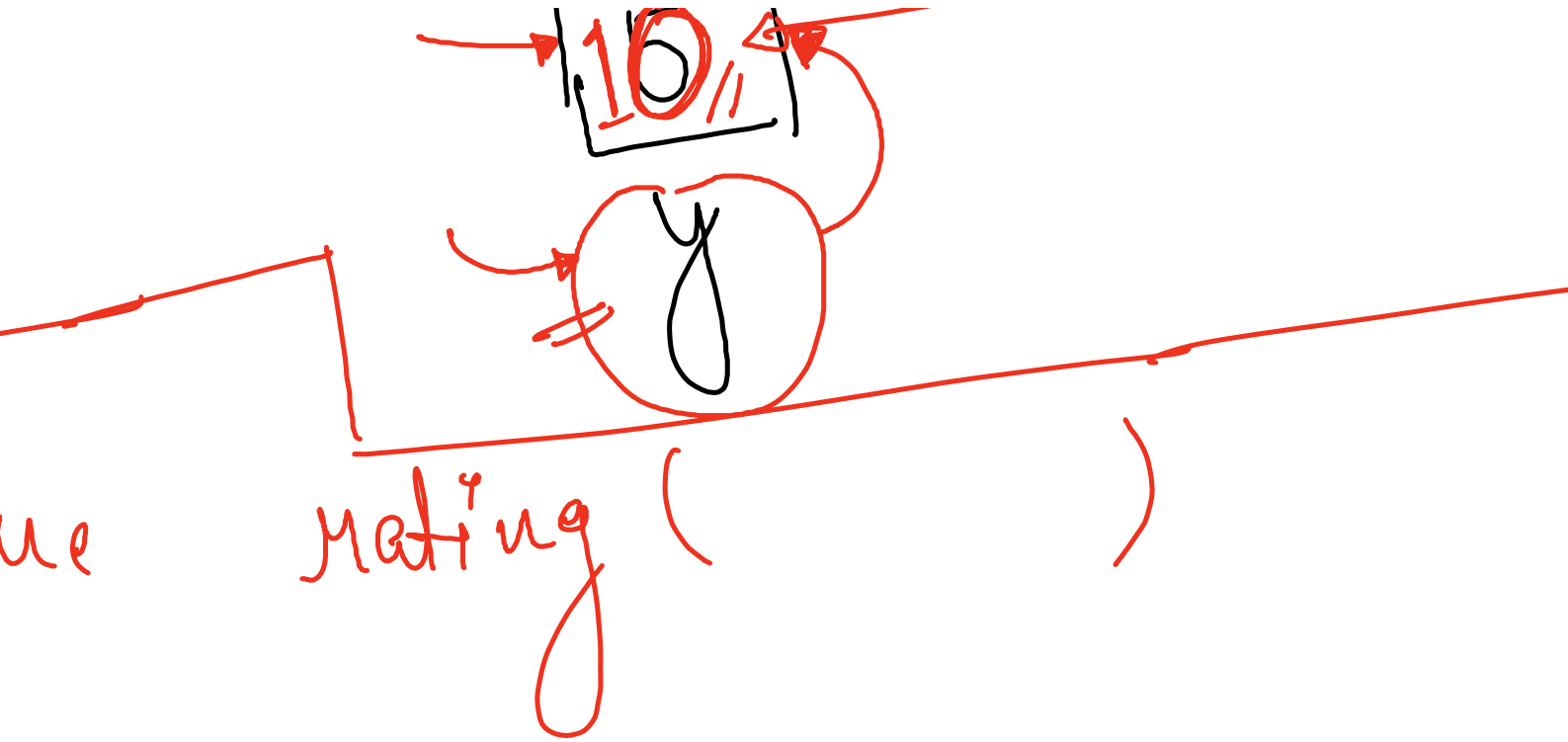
After this lecture

$x =$

y

$y =$

(1) Reading



ue mating ( )

$= l_D$

$= \delta^-$

$= \kappa$

P, R, T

Google

input P

input R

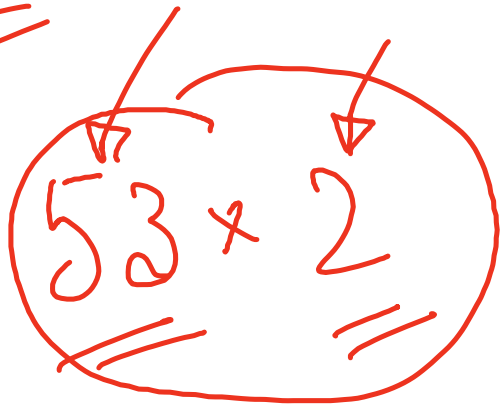
input T

P = 100 R = 5 T

(2) Printing

P, R, T

$\perp$

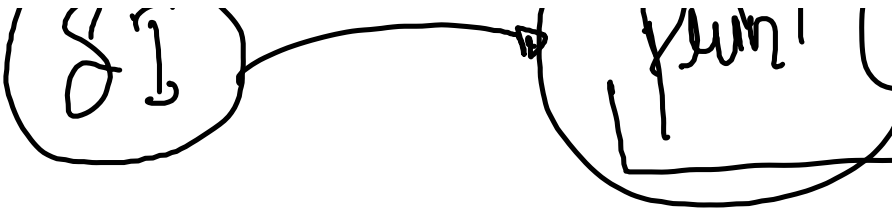
$\Rightarrow$ 

100

5

2

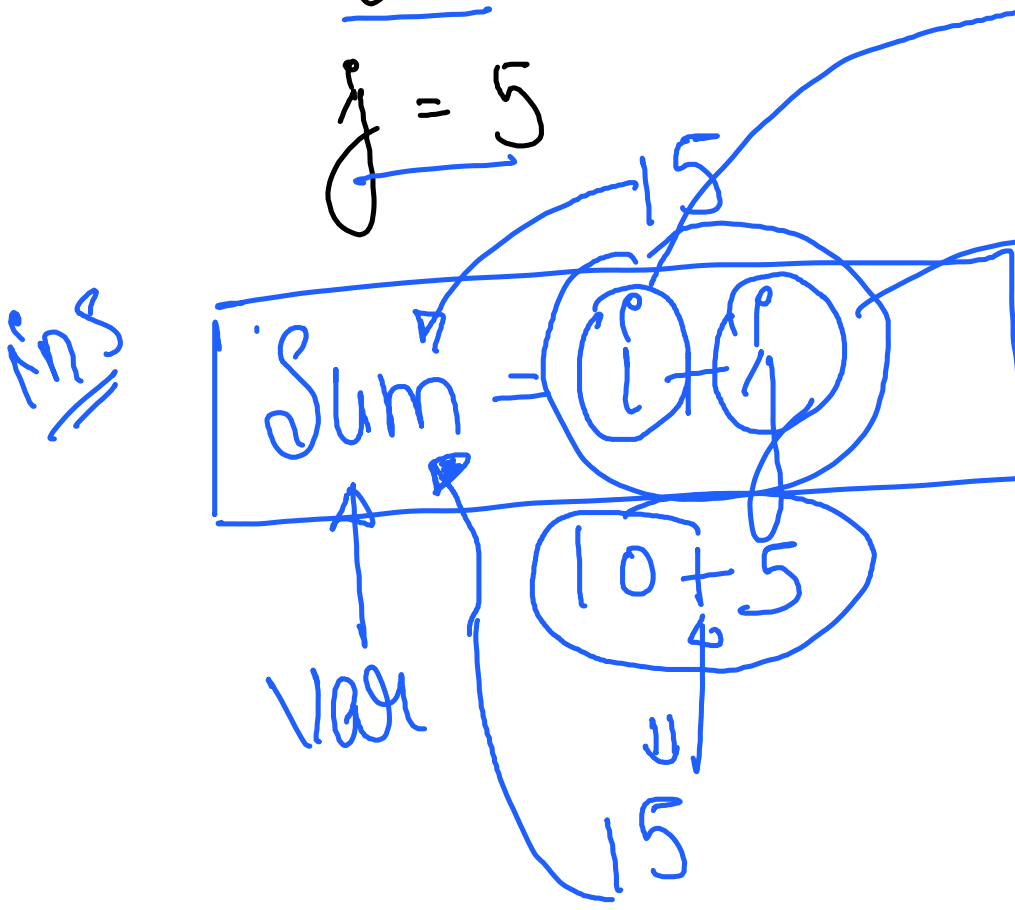
$= 2$



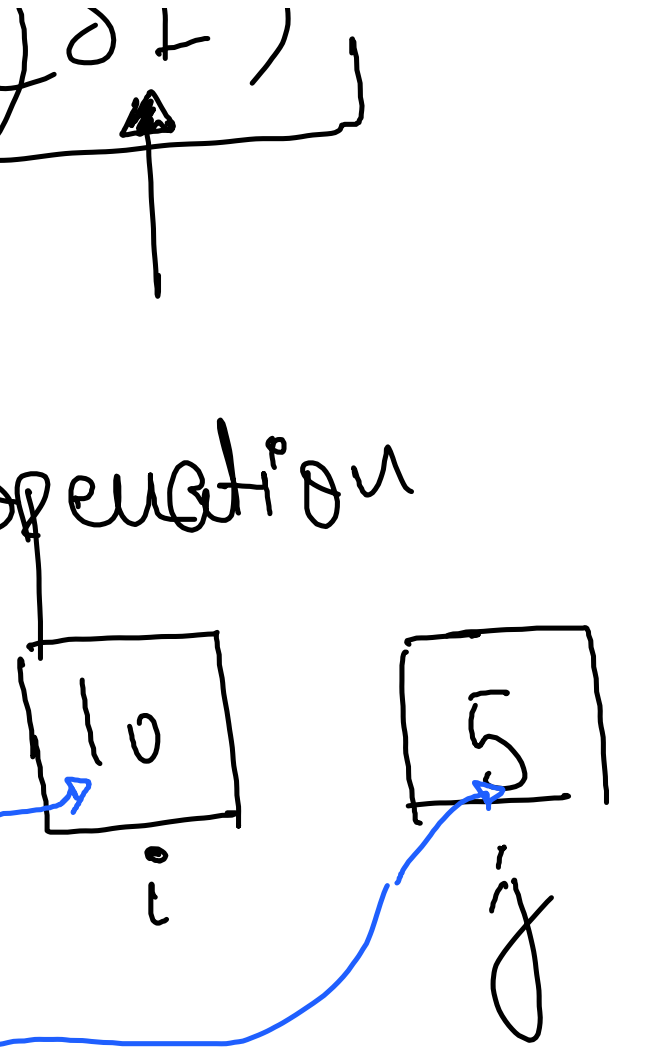
3 Arithmetic

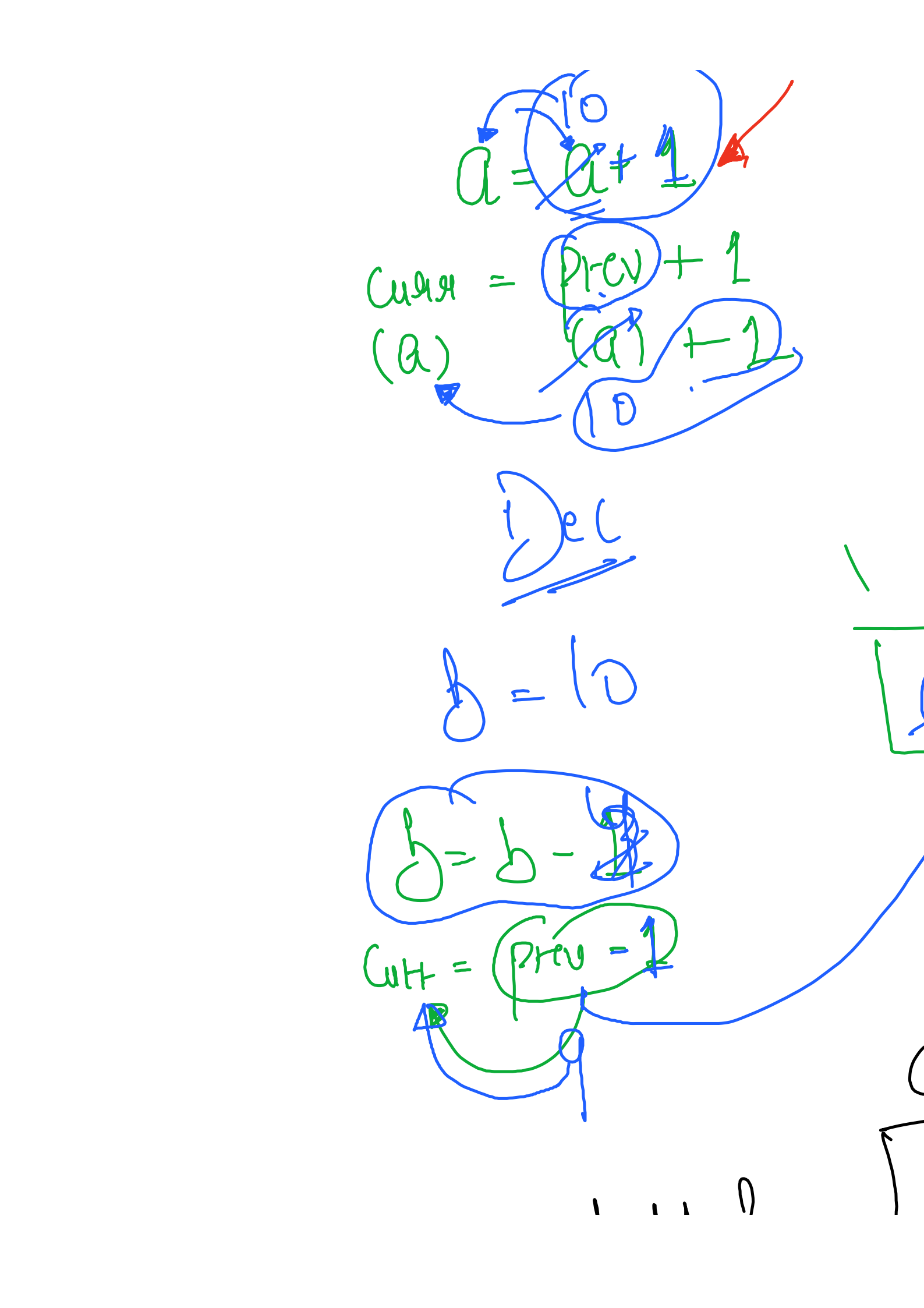
i = 10

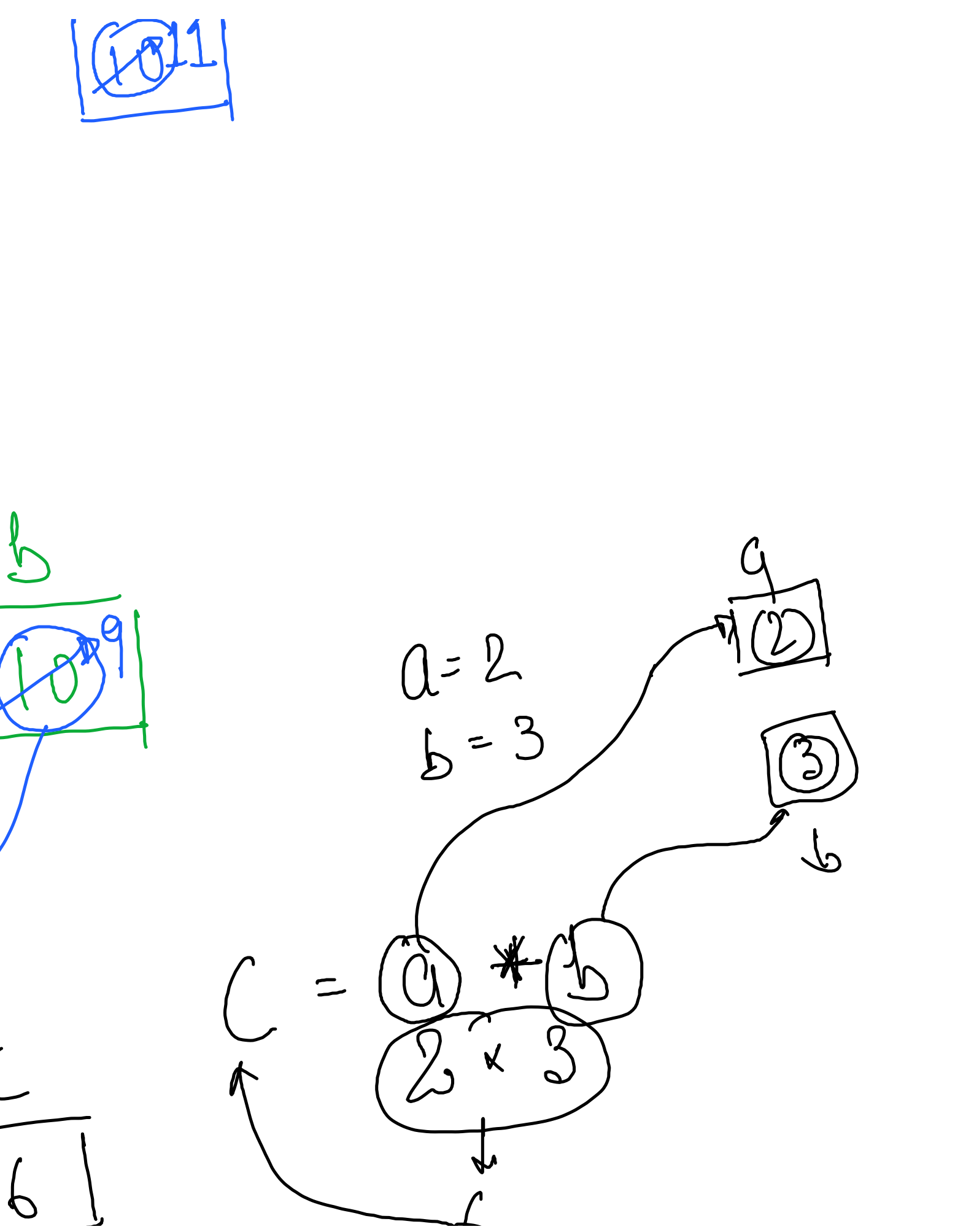
j = 5



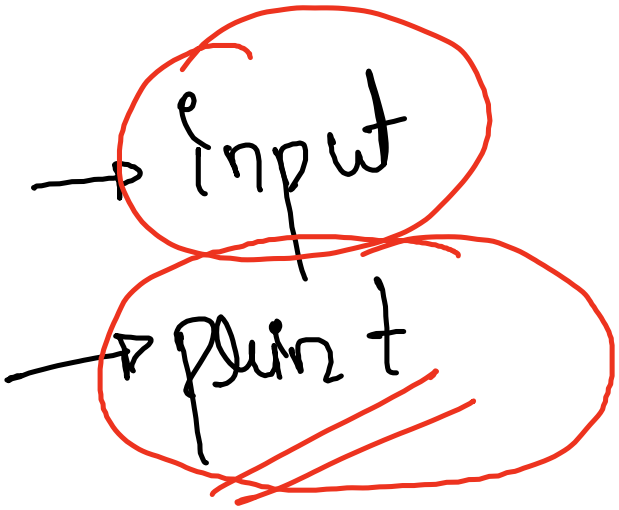
a = 10 + 1


10
5
i
j
15
Sum


a = a + 1
Сила = prev + 1
(a) (a) + 1
Dec
b = 10
b = b - 1
Сил = prev - 1


a
2
a = 2
b = 3
3
b
C =
a
*
b
2 x 3
c

any doubt!

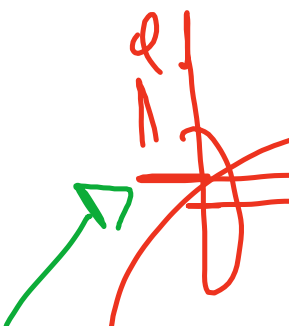


(4) Conditional

Situation

Wind ×

friend ✓



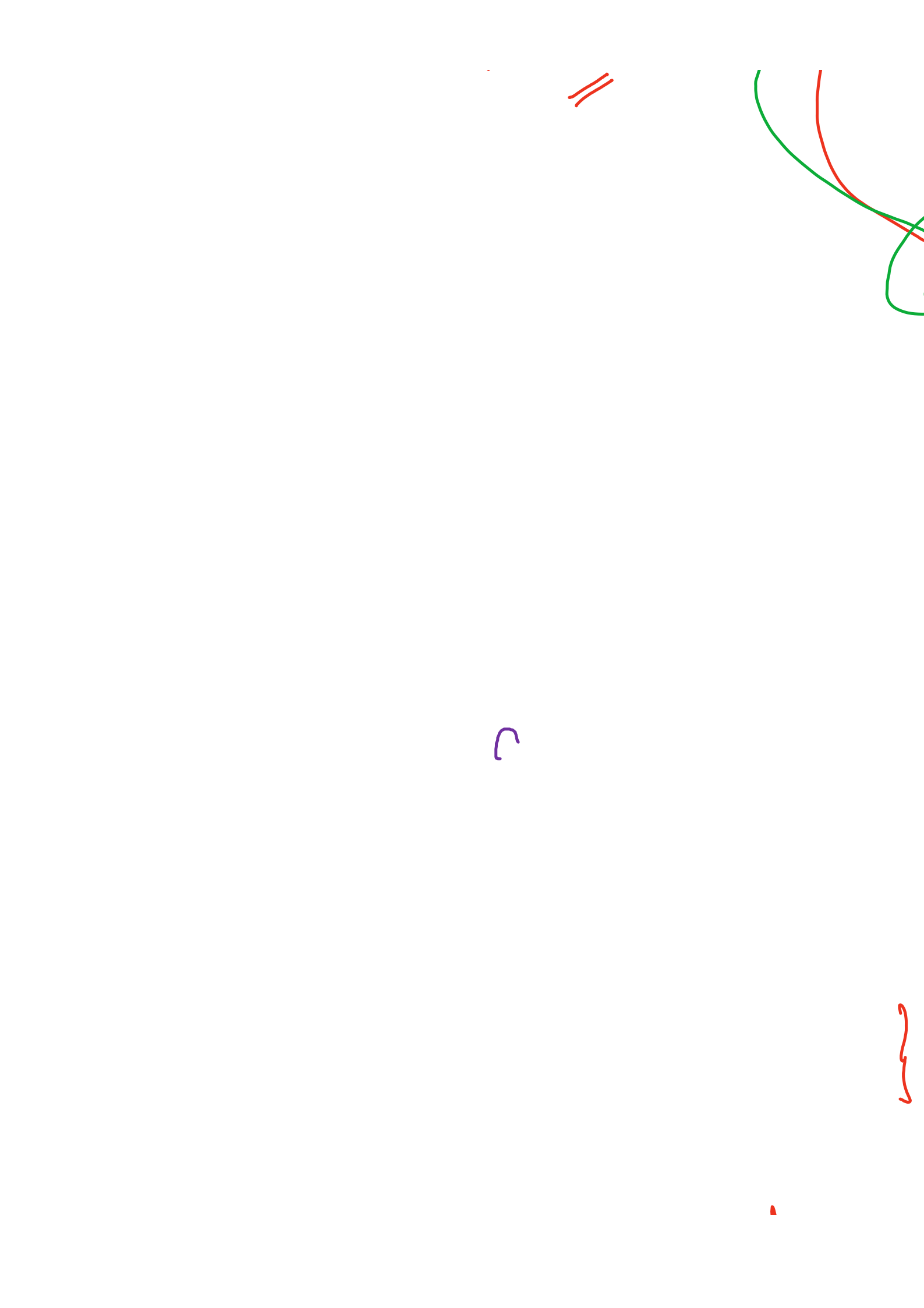
assign

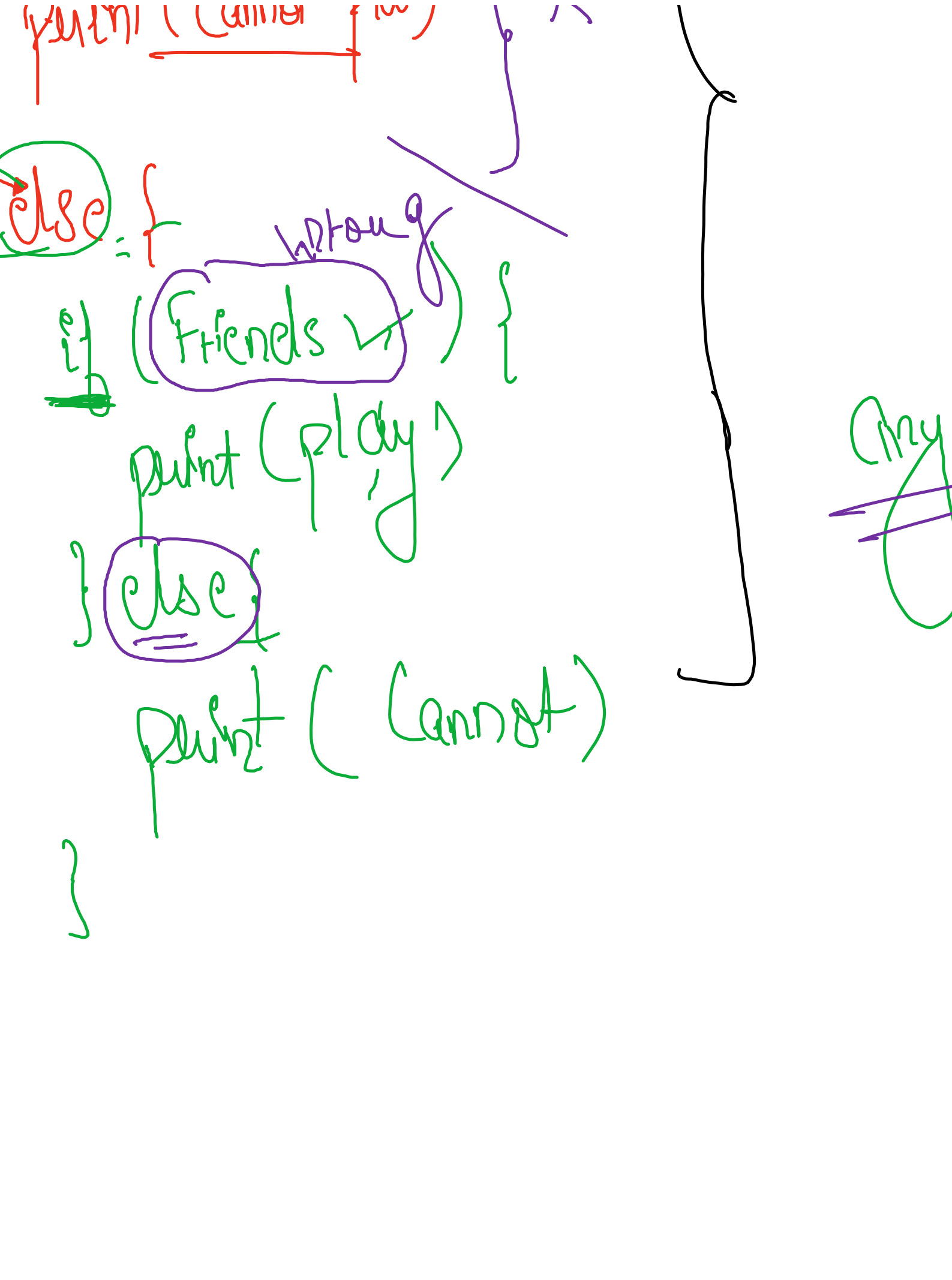
c = a / b

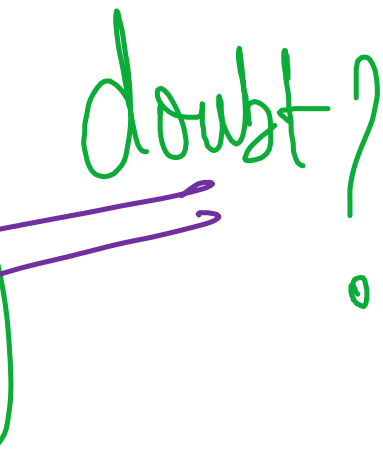
a = 4
b = 2

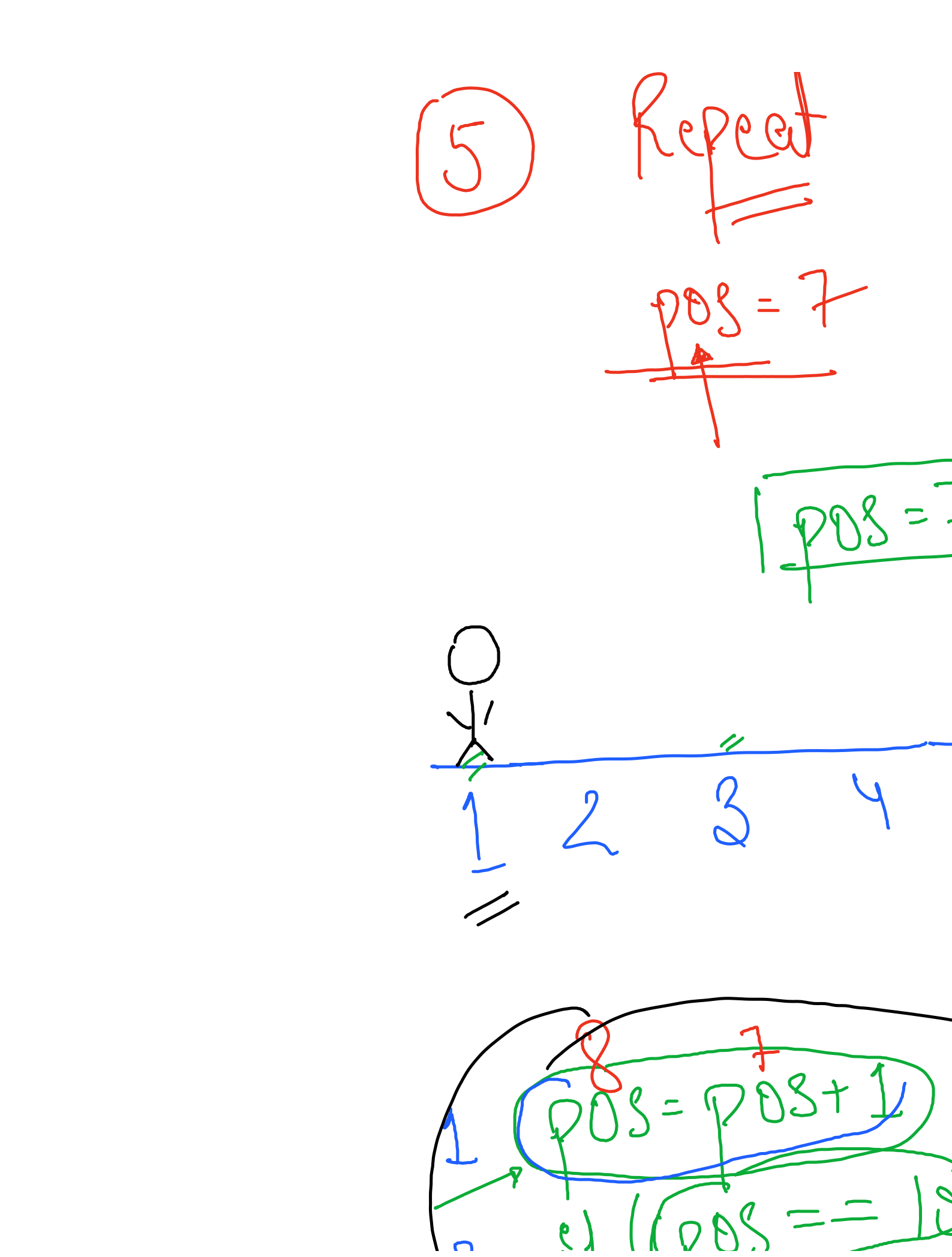
Bad mutatoy

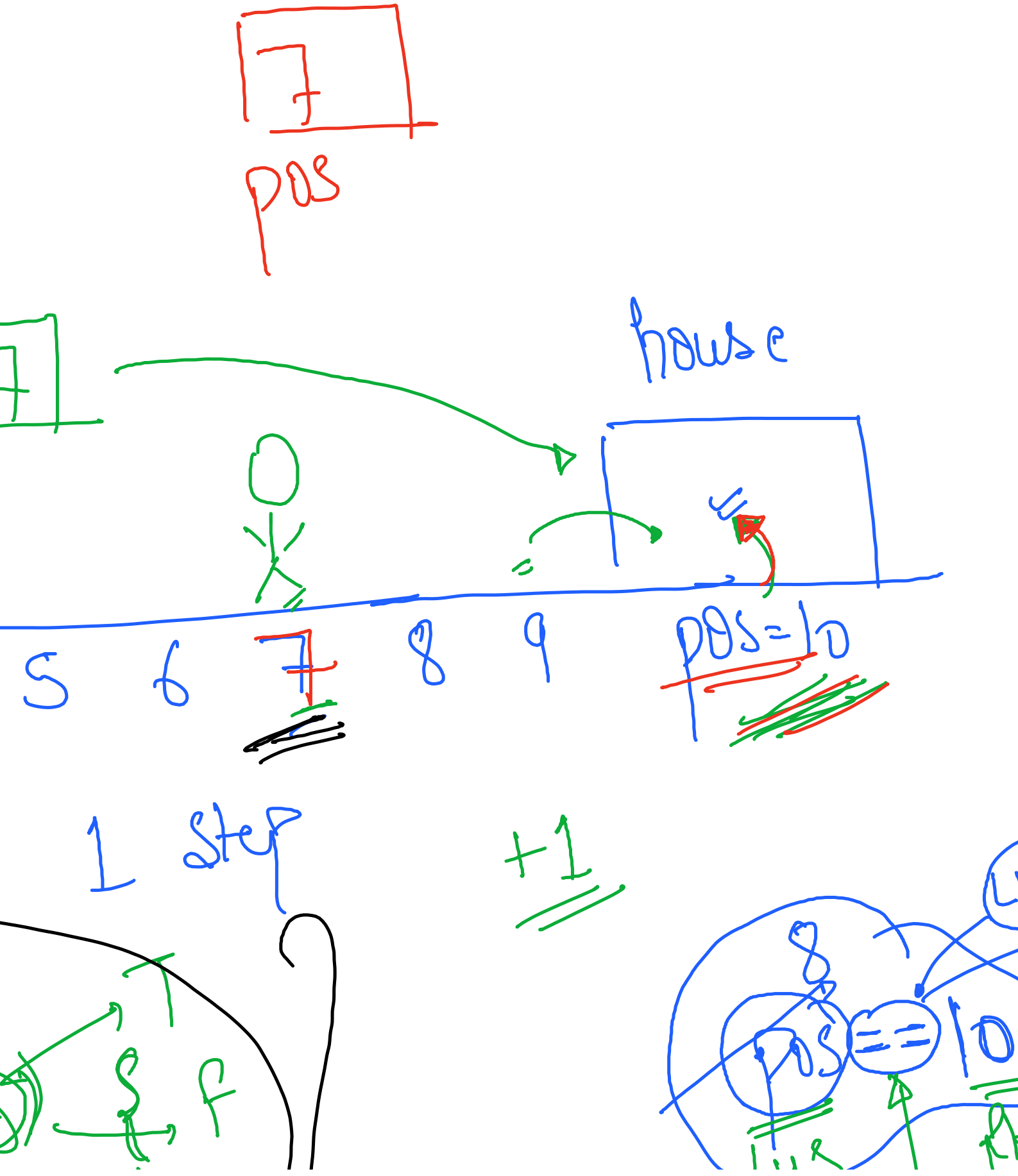
Wind



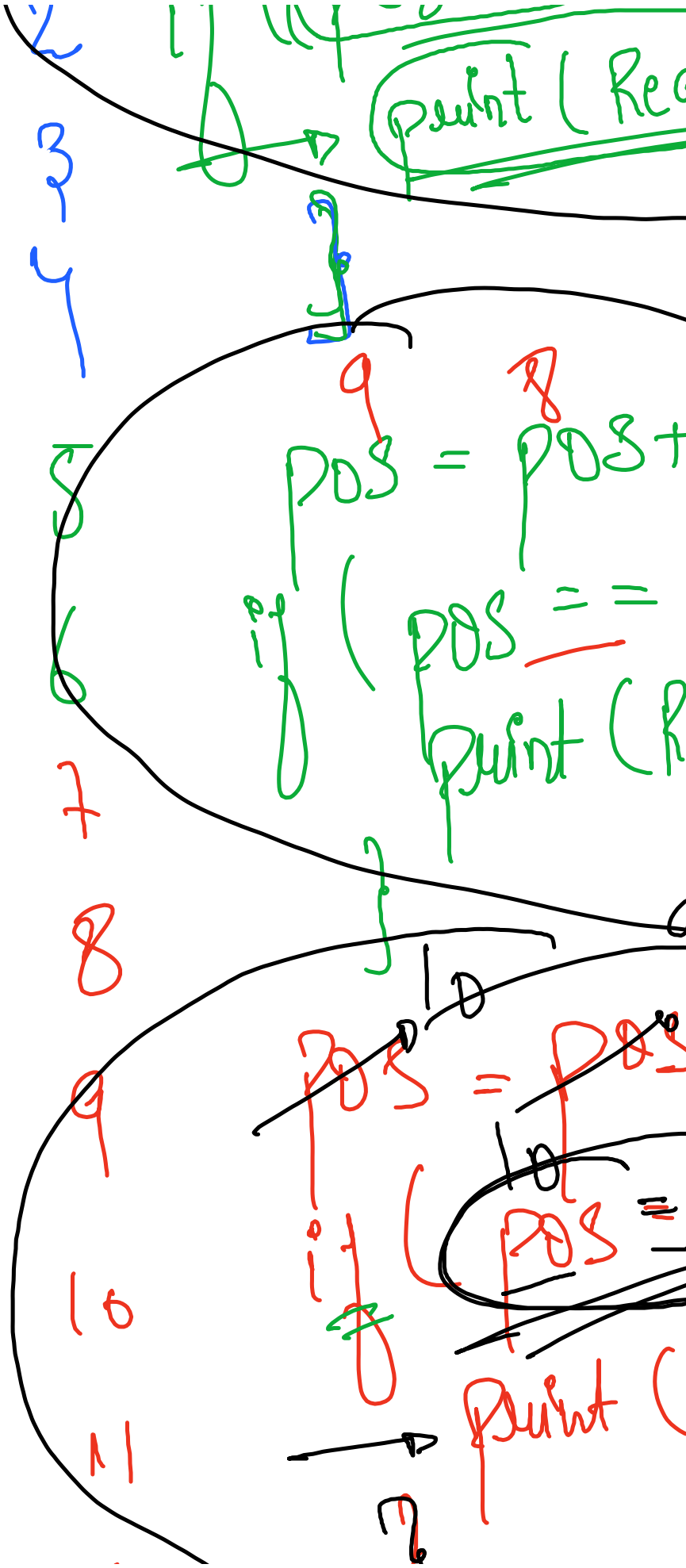

else {
if (Friends)
print (play)
} else {
print (cannot)
}

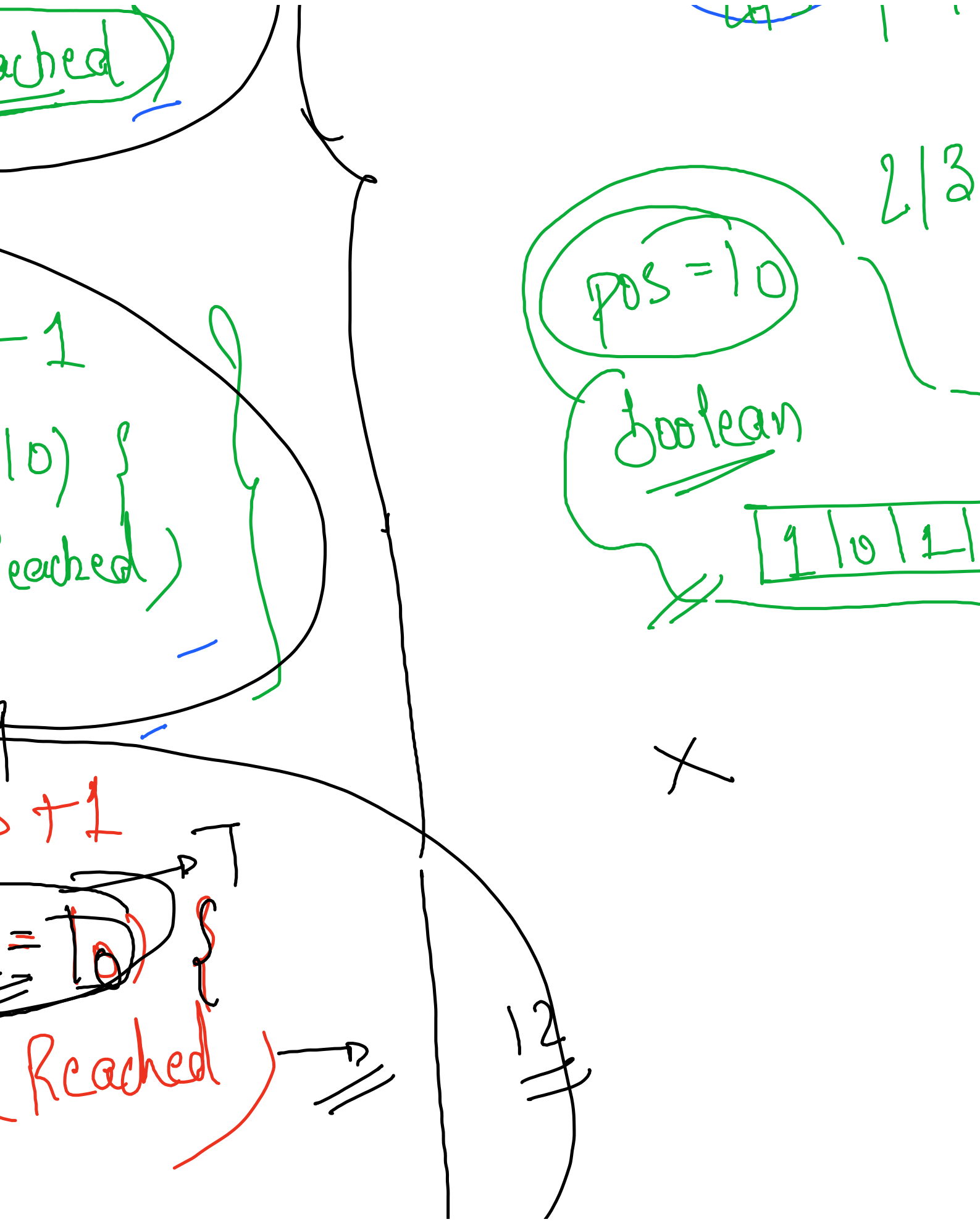

doubt?

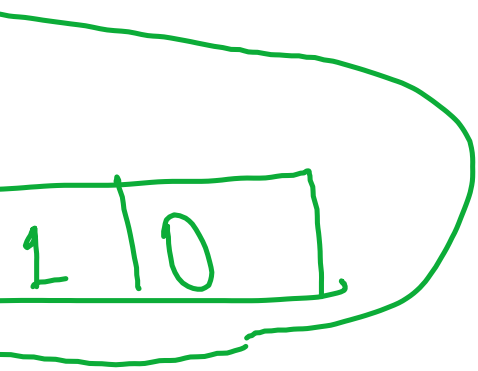

5
Repeat
POS = 7
POS =
1
2
3
4
8
7
POS = POS + 1
1
POS ==

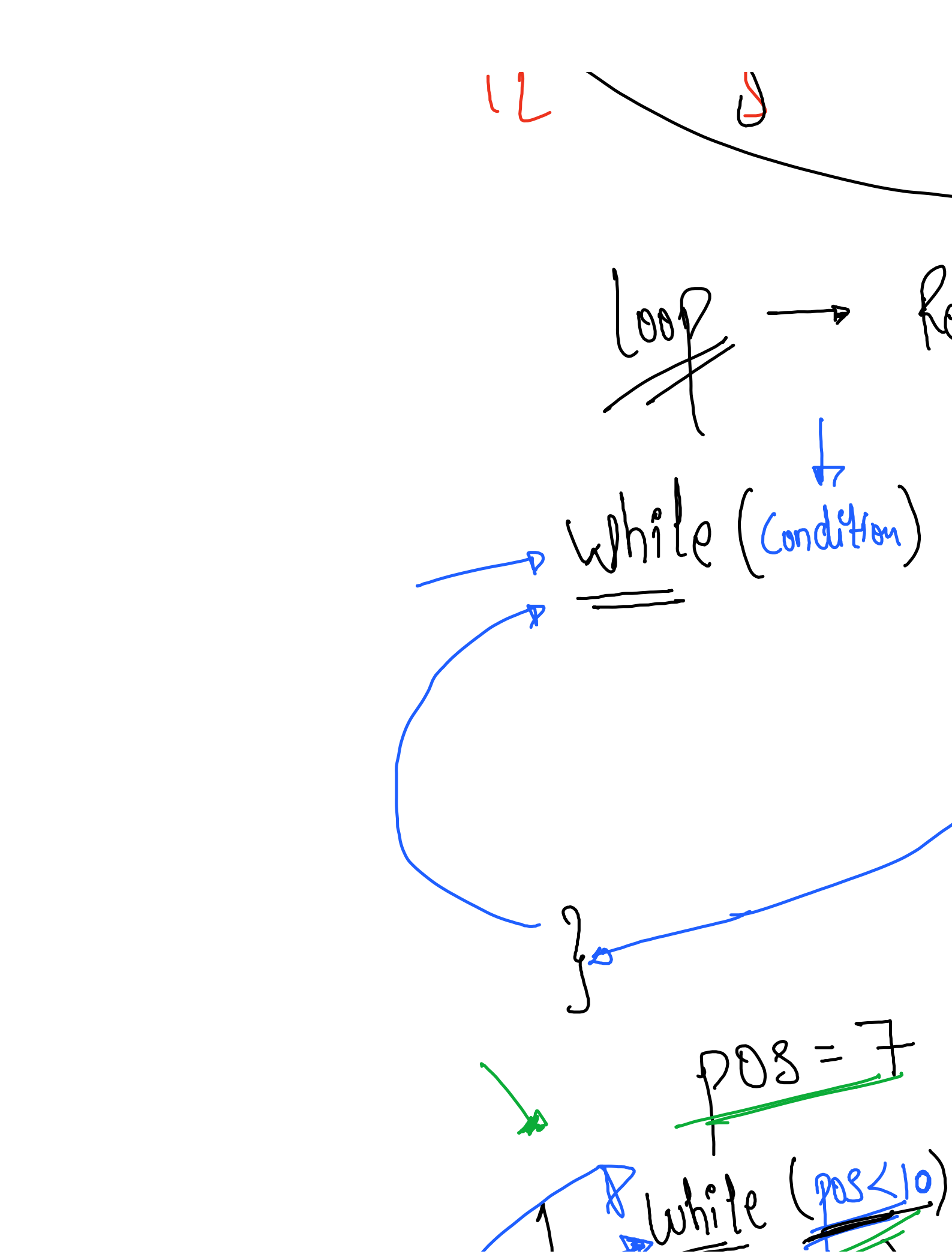

7
pos
house
5
6
7
8
9
pos==10
1 step
+1
$
f
pos==10

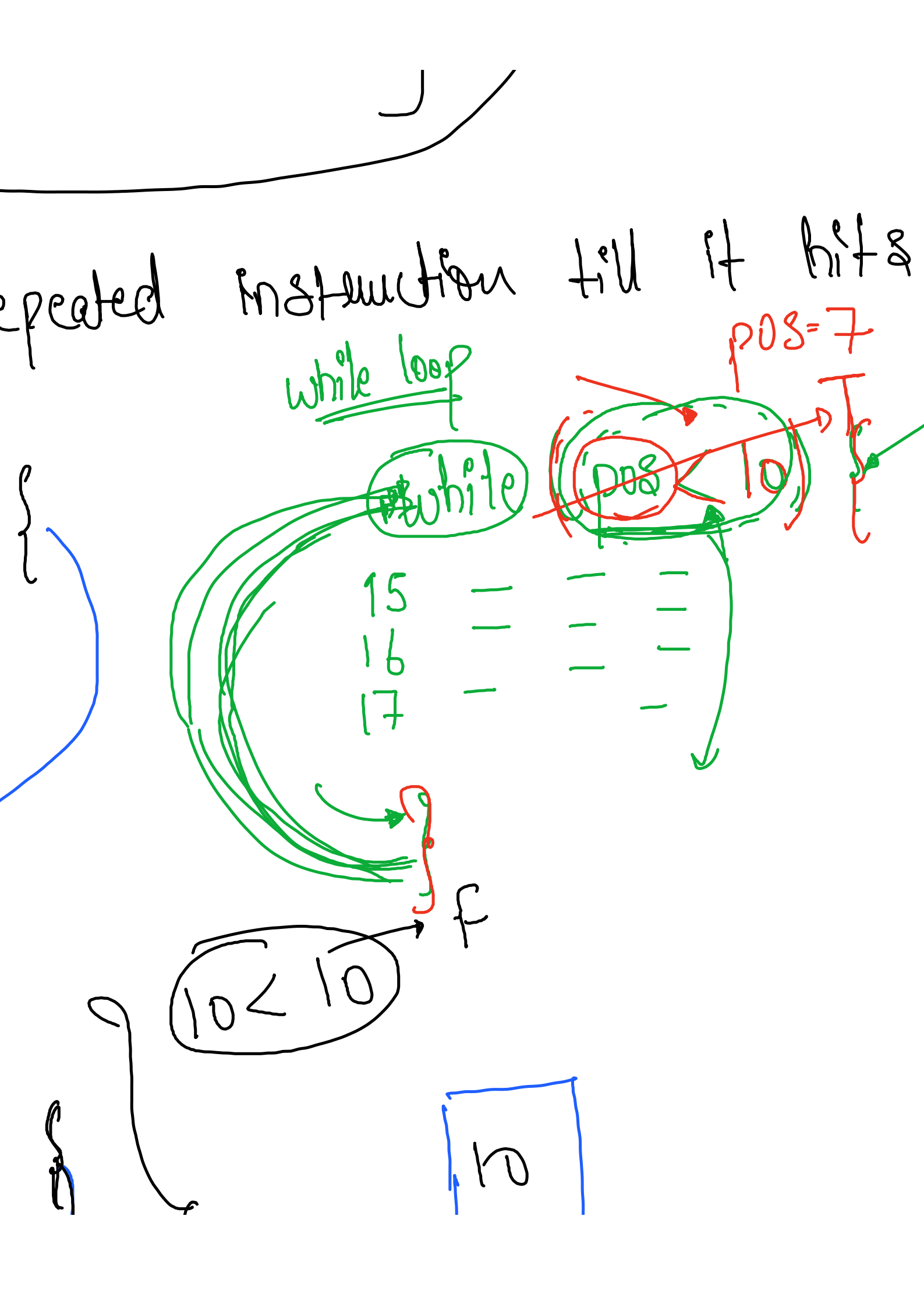

HS =RHS


printf (Re
POS = POS+
if (POS ==
printf (R
POS = POS
if (POS ==
printf (

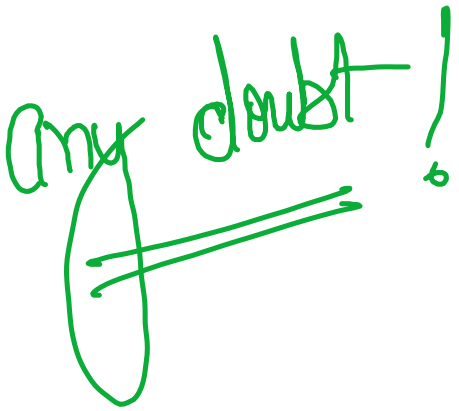

ached
-1
10) {
eached)
+1
10)
Reached
2|3
pos=10
boolean
1|0|1
12

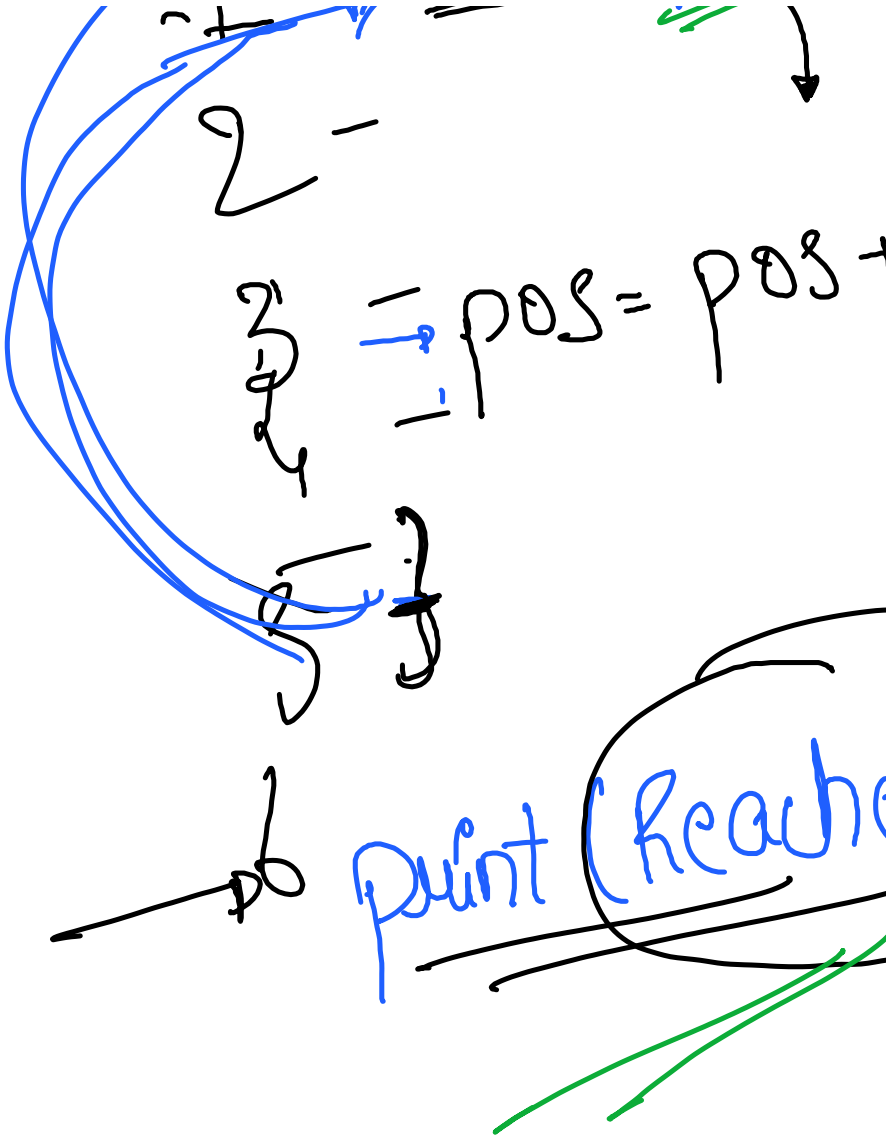

1
0


Loop
While (Condition)
}
POS = 7
While (pos<10)


epeated instruction till it hits
while loop
while
pos
10
pos=7
15
16
17
10< 10
f
10

Conditions

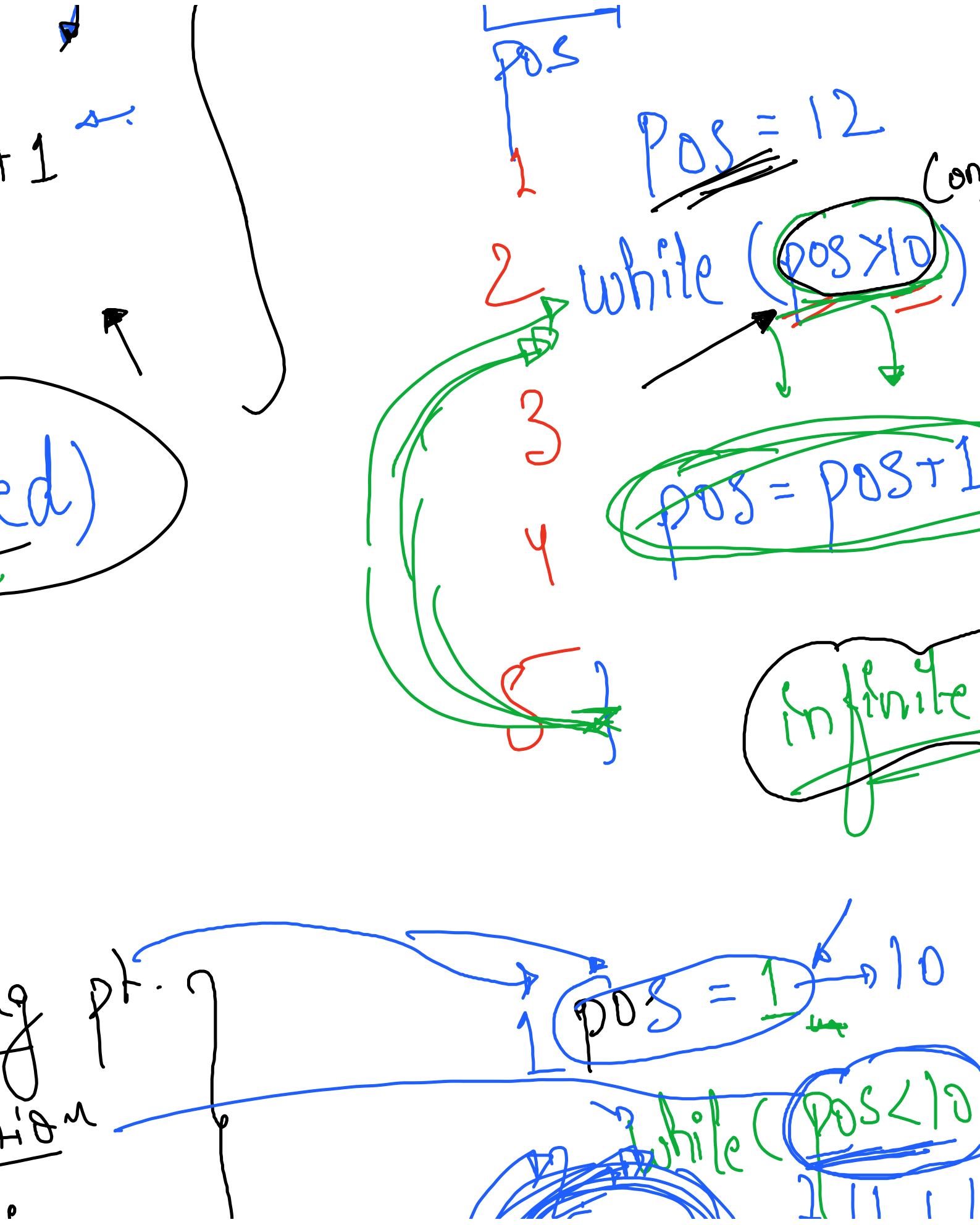


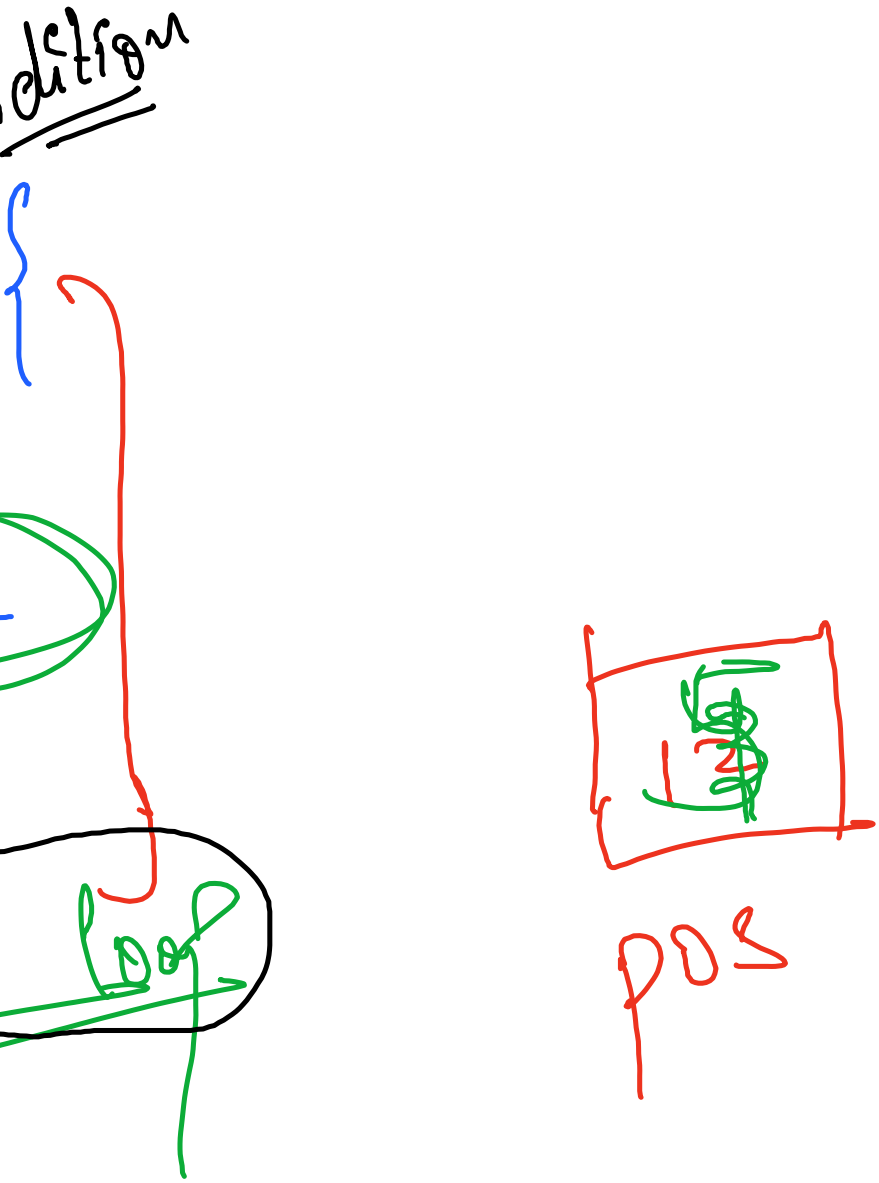


Loop

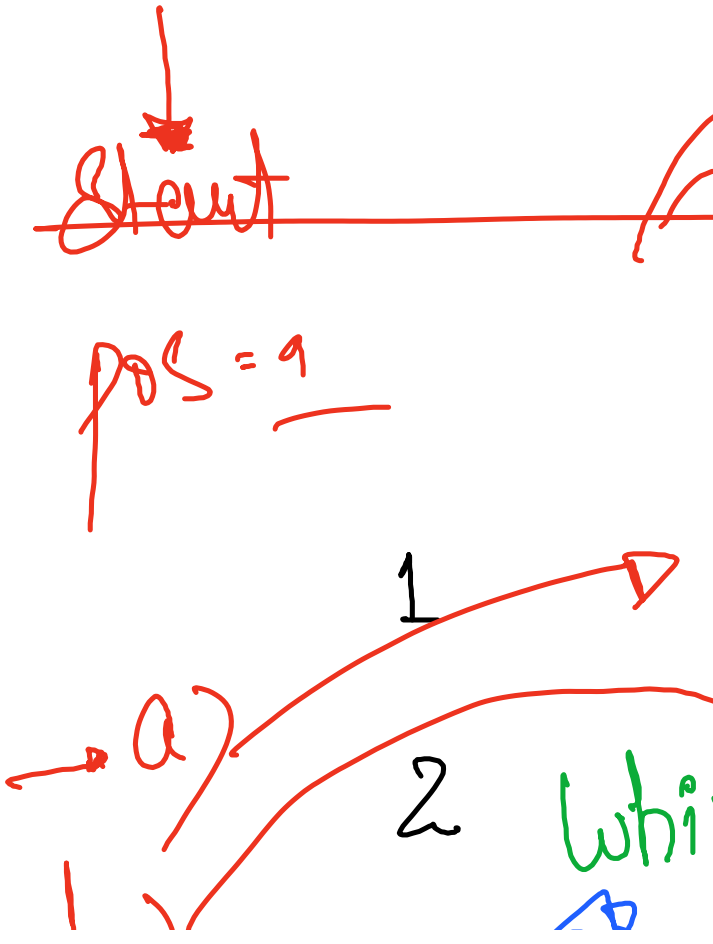
3 → a) Startin

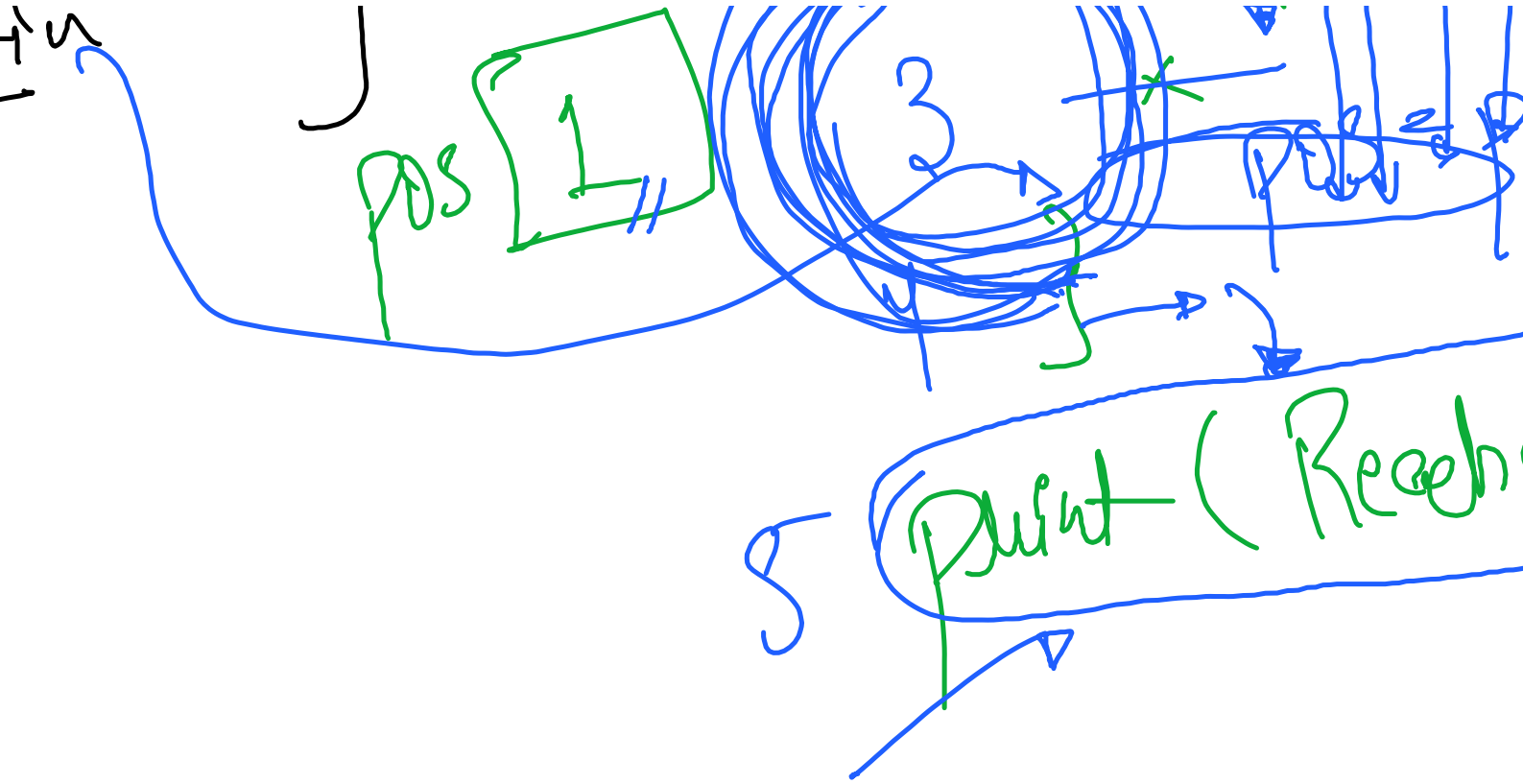
b) Condi

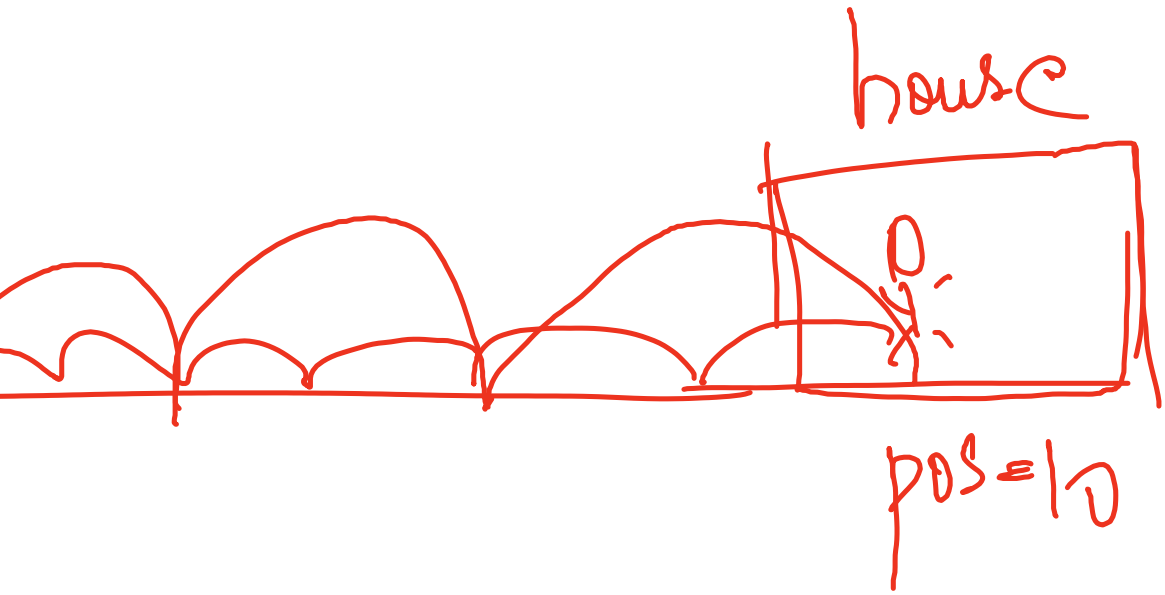

pos
Pos = 12
while (pos>10)
pos = pos+1
infinite
pos = 1
while (pos<10

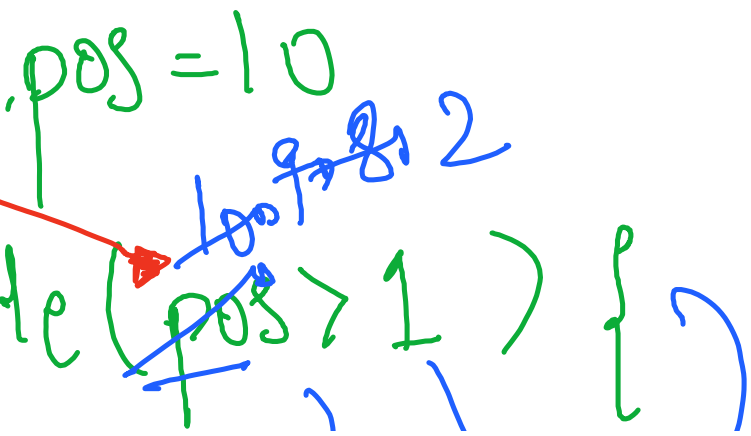

pos

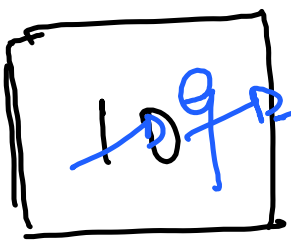
c) update

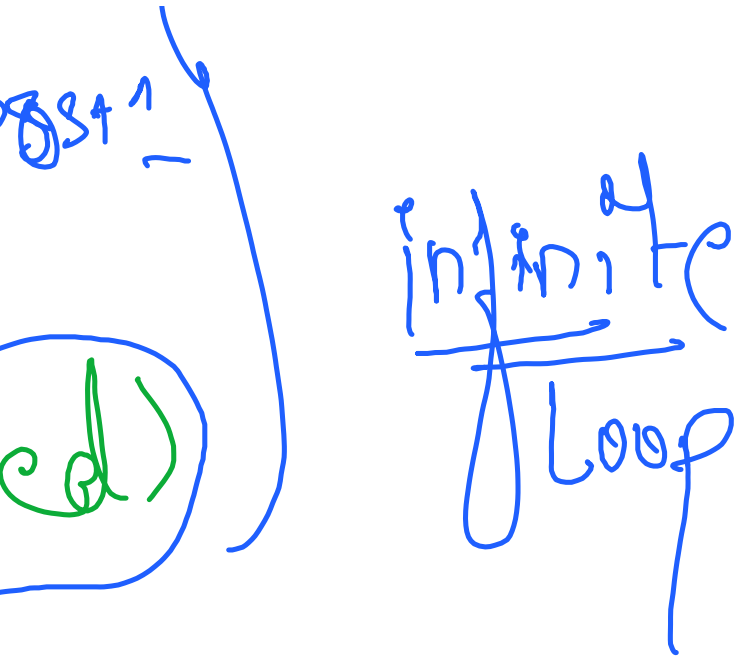



pos
1
3
5
print (Reach

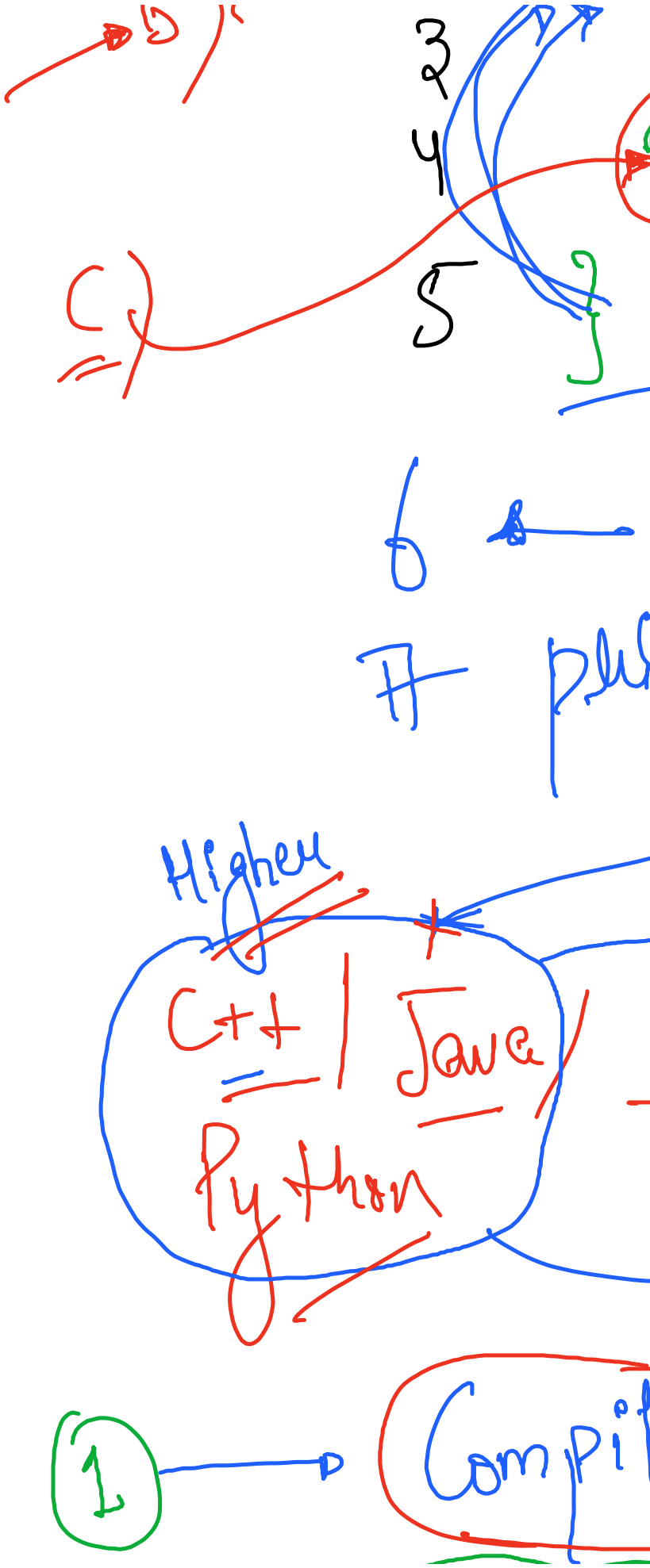

house
pos=10

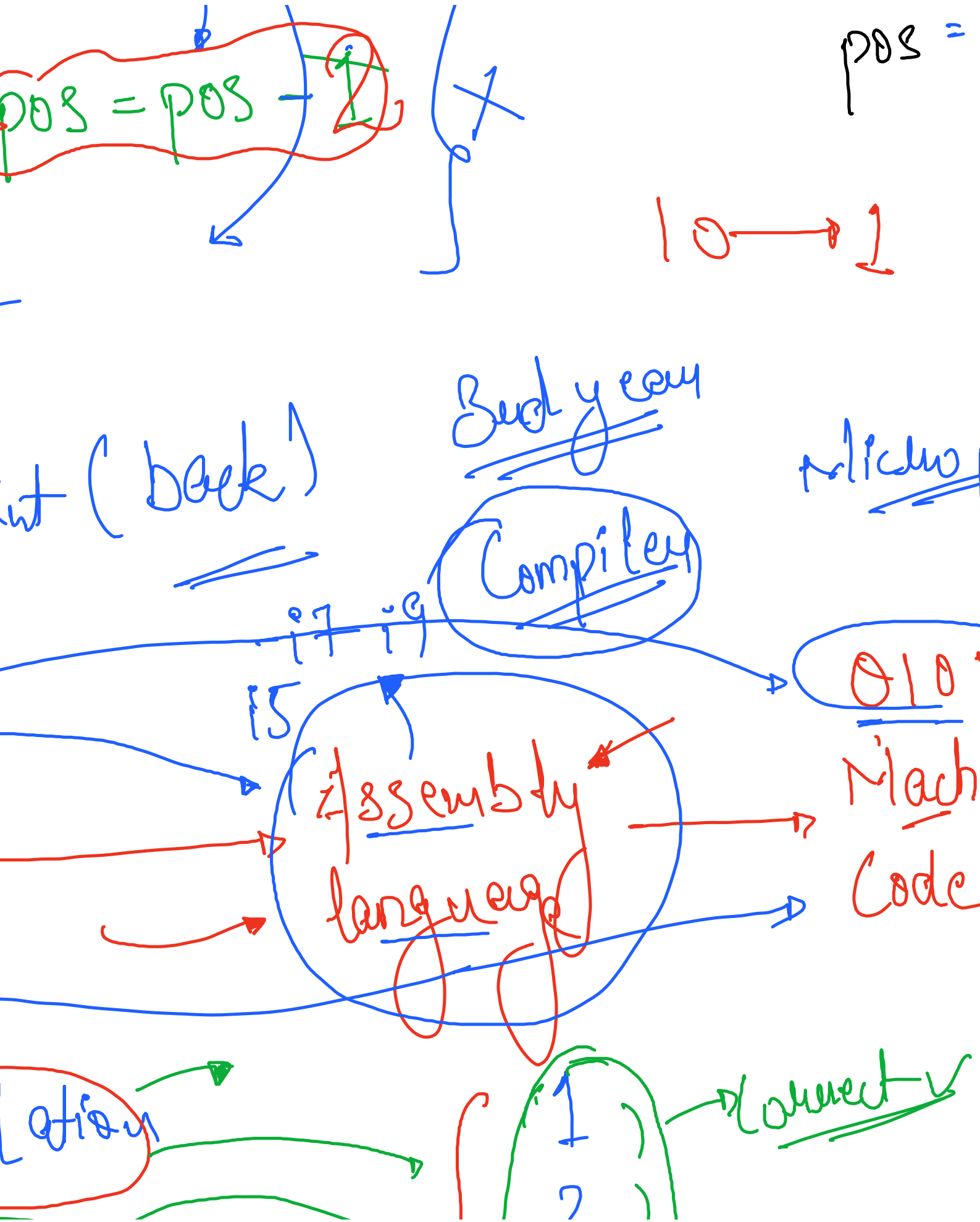

pos=10
pos 2
pos > 1



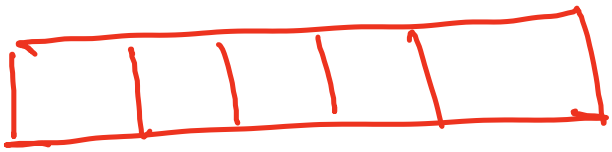


infinite Loop

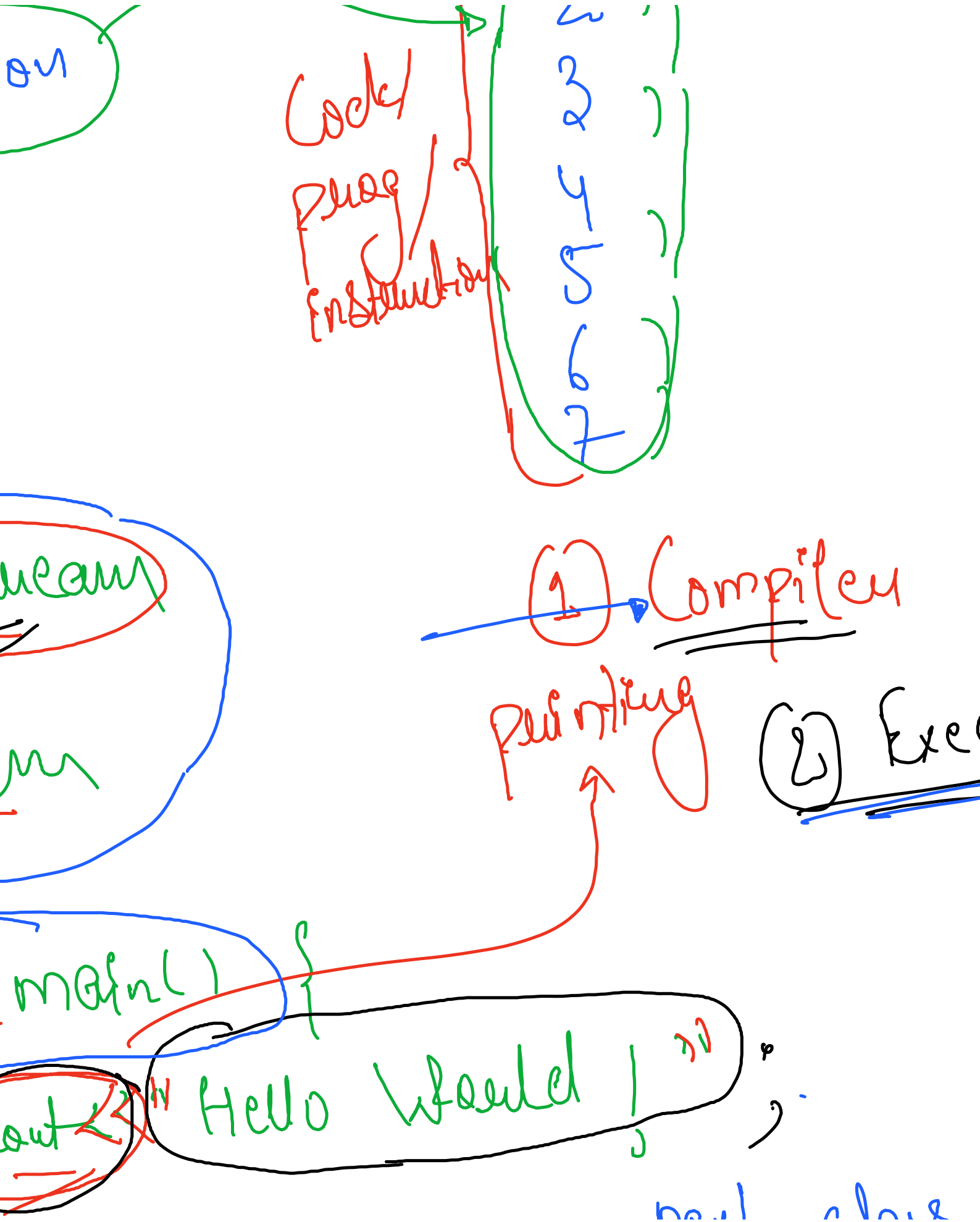

3
4
5
6
Higher
C++
Java
Python
1

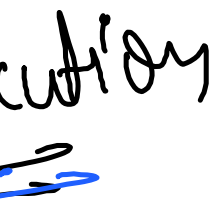

pos = pos + 1
pos =
10 → 1
(back)
Compiler
i7 i6
15
assembly
language
Mach
Code
Connect

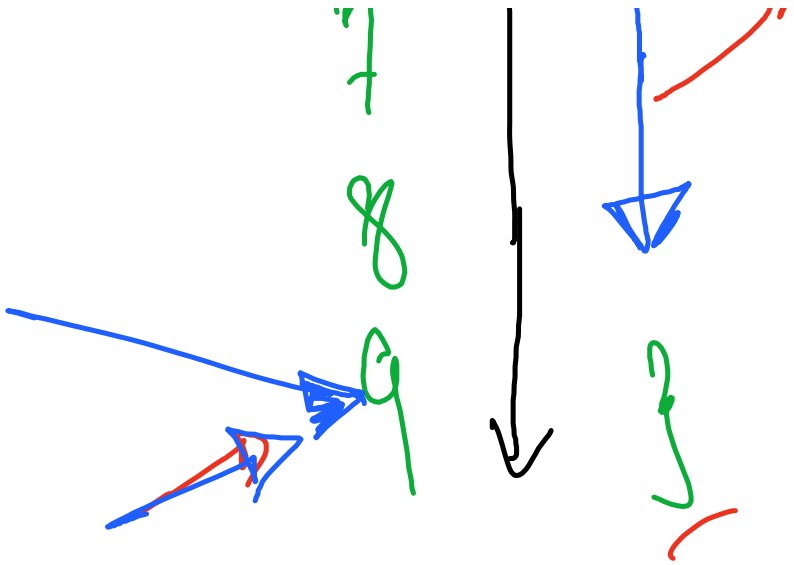
1




Execut
inst
1
2
3
4
5
6
int


Clock
Pulse
Instruction
1
2
3
4
5
6
7
1. Compiles
printing
2. Exec
main()
Hello World!





kind = 1

friends =

return 0;

int
float
bool
char

4th function

wind = 0

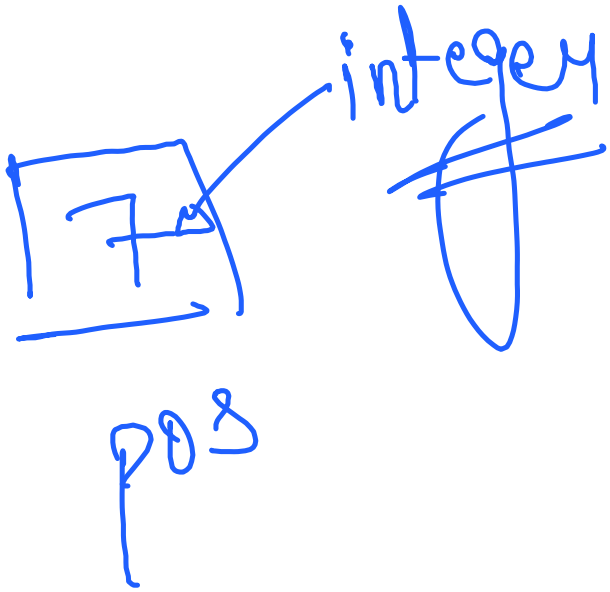
wind = 0

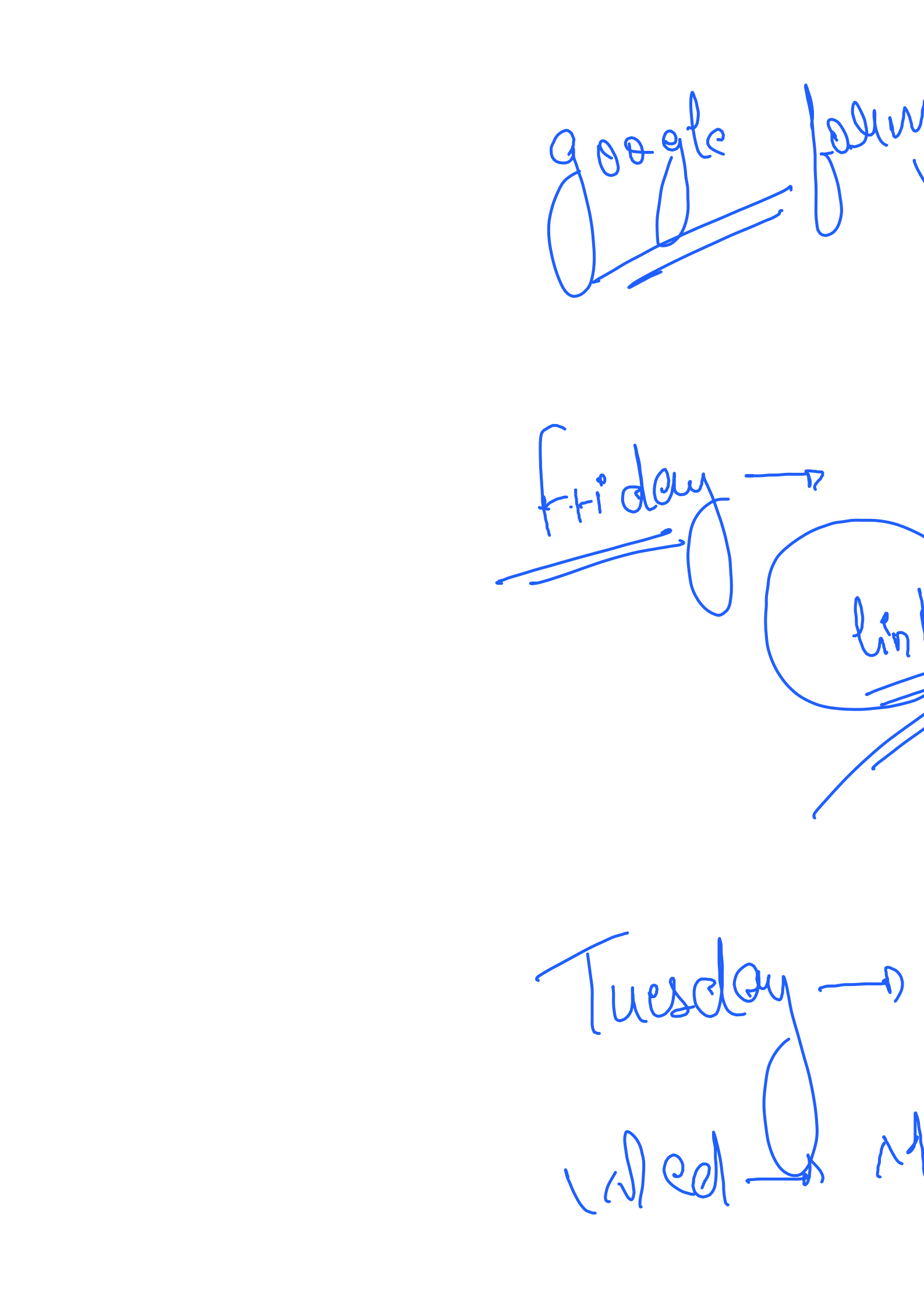
1 → 2 → 3

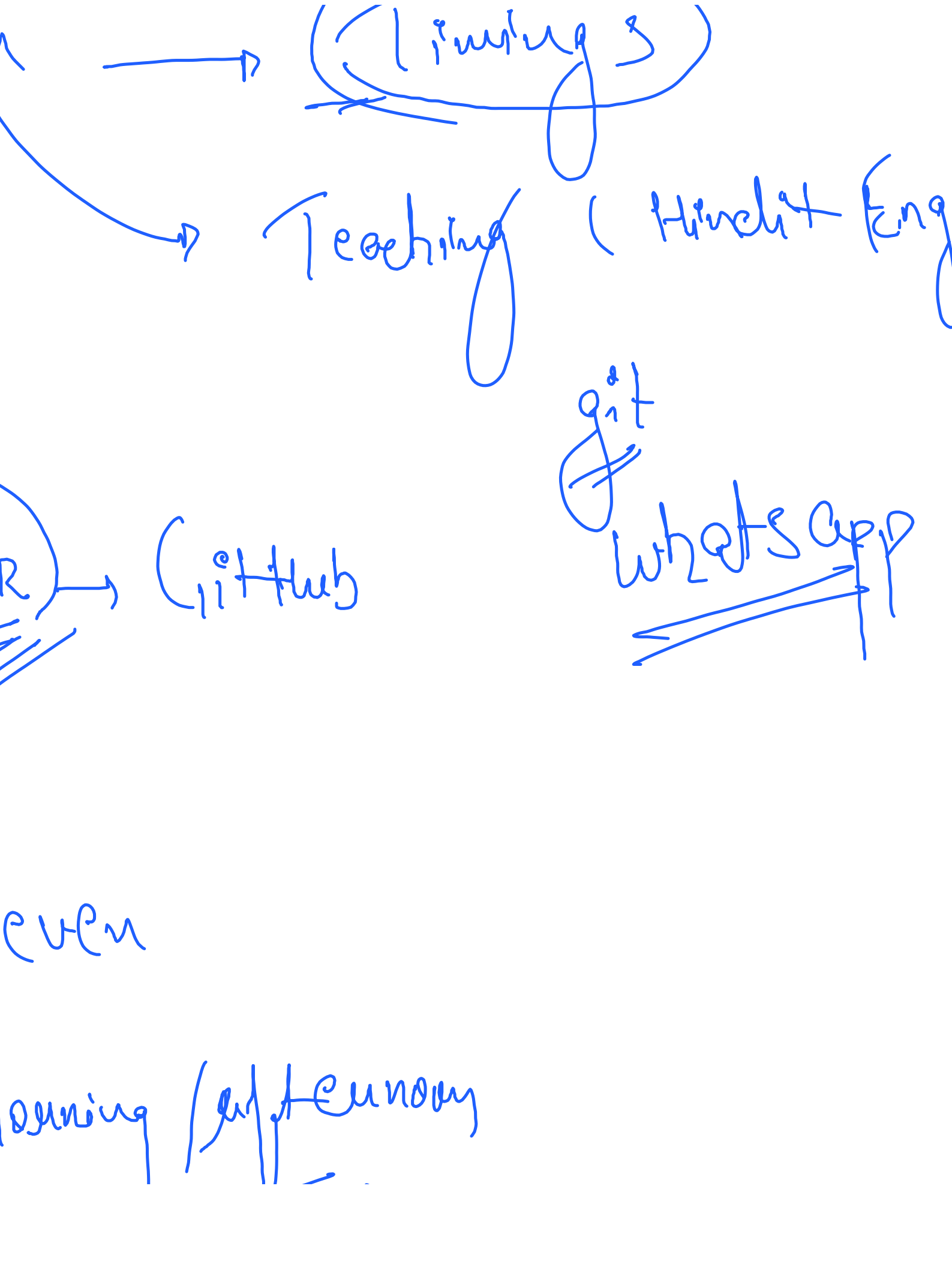
if (wind ✗

friends > 0

pos = 7




Google
Friday
Tuesday


Teaching
git
GitHub
WhatsApp

lish)

3 hours