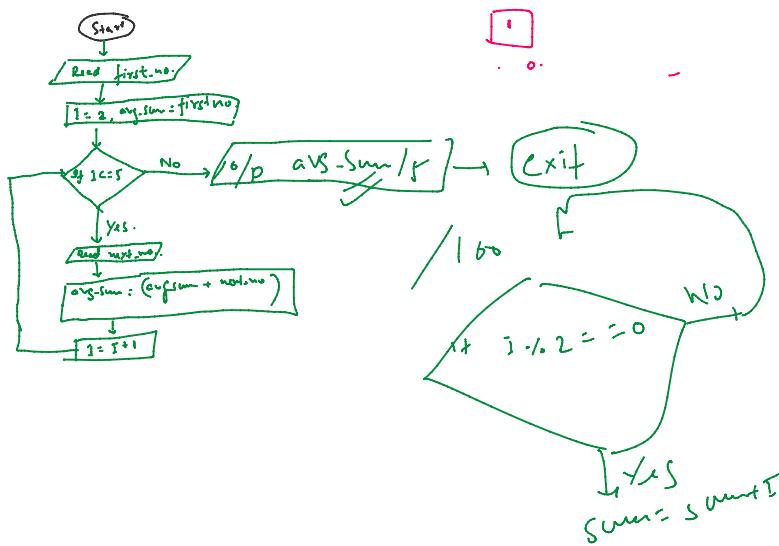
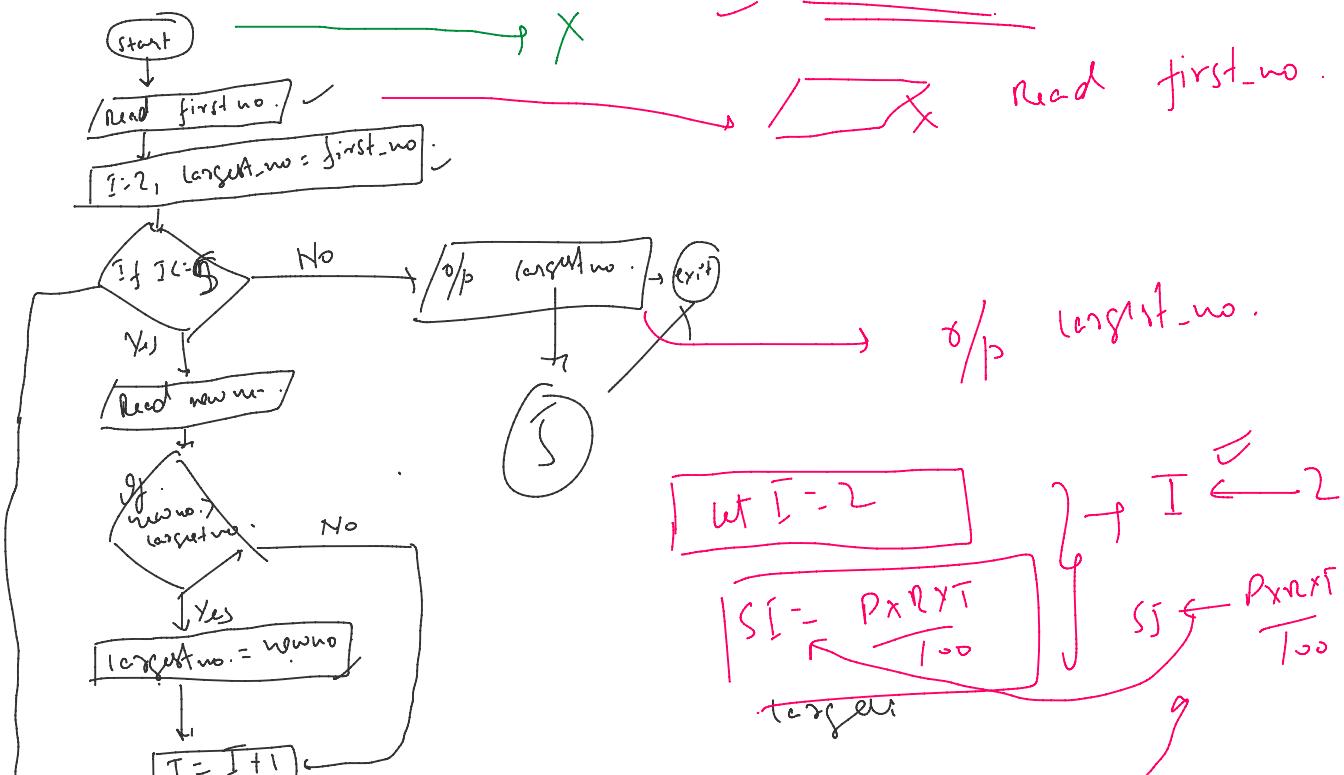


Find avg. of 5 numbers
 [f0] Input 5th no.

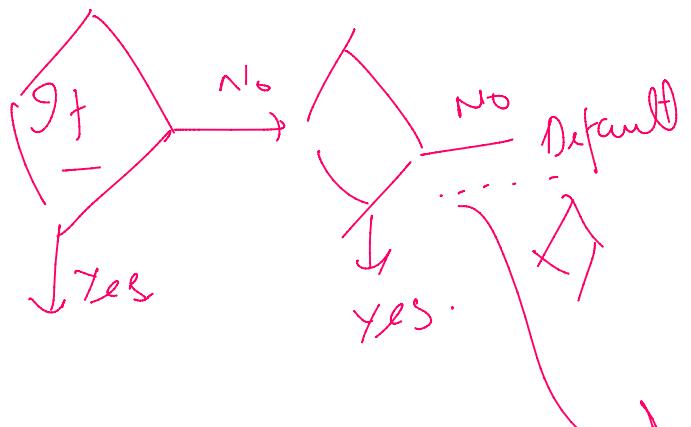


Pseudo code



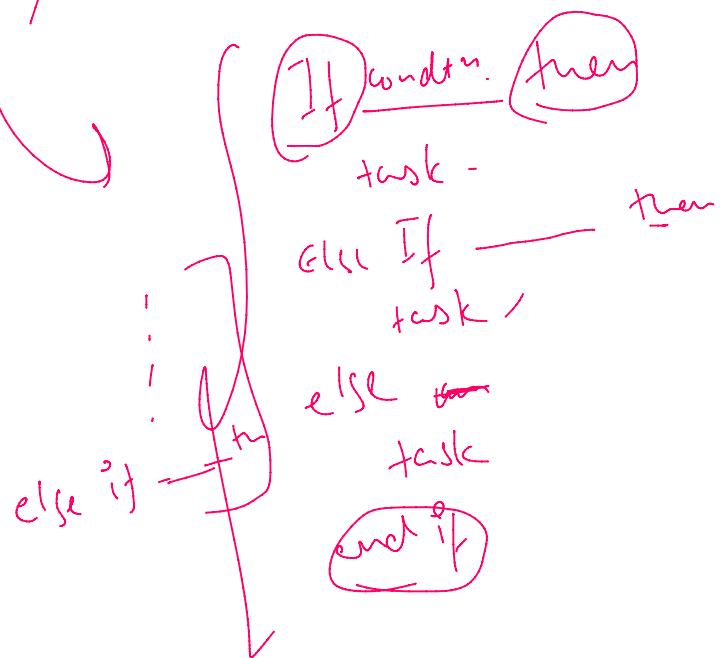
LHS Bucket = RHS value
 ← → assignment operator

conditional execution



Pseudocode :

If _____ then
task.
end if.



loop representation

while condition do
 task
end while / done

Requirement

write down its
pseudo code.



WLS

	1	2	3	4	5
→ 1	*				
→ 2	*	*			
→ 3	*	*	*		
→ 4	*	*	*	*	
→ 5	*	*	*	*	*

questions come, we must form their rows & columns.

{ Identify the task / requirement
by observation.

rows stars print

stars

1	1
2	2
3	3
!	!
!	!

{ convert given tasks into
format of code

psuedocode → item lines have pattern ki
read no-of-lines point kri hai.

counting ← 1
cur-row-no. ← 1

(5)

while cur-row-no <= no-of-lines do

stars ← 1

while stars <= cur-row-no do
 print "*" // print counting
 stars ← stars + 1, counting ← newline
end while. print "\n" → cur-row-no + 1

end while

exit

→ [--- *] rows

1 2 3 4 5

-	-	-	-	*
---	---	---	---	---

f know how

→ int main() { Start

i

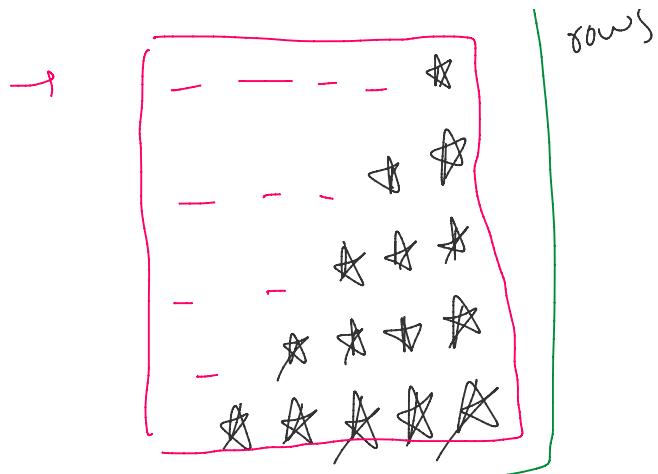
} task .
j + 1

return 0; } end.

cols

1st row ~ 5th col

start



no. of lines = 5
 cur-rownum. span

$$\begin{array}{l} 1 \\ 2 \\ 3 \\ 4 \\ 5 \end{array}$$

$$\begin{array}{l} 4 \\ 3 \\ 2 \\ 1 \\ 0 \end{array}$$

1	-	-	-	-	*
2	-	-	-	*	*
3	-	-	*	*	*
4	-	*	*	*	*
5	*	*	*	*	*

print
 star.

$$\begin{array}{l} 1 \\ 2 \\ 3 \\ 4 \\ 5 \end{array}$$

 row with
 ==
 Spans

for each row
 we have to print

1) spaces

2) stars.

cur-row-num \leftarrow 1
 with cur-row-num \leftarrow no-of-lines
close-up \leftarrow no. of lines = cur-row
 - 1 do

$s^+_{\text{vo}} \sim s^+_{\text{wl}}$

point "T"
Space

space & stars

$$= \begin{pmatrix} \text{no. of points} \\ \text{and - } x_{\text{vo}}, w \end{pmatrix}$$

$$S = 3 = 2$$

spars \boxed{x}

w

- no.)

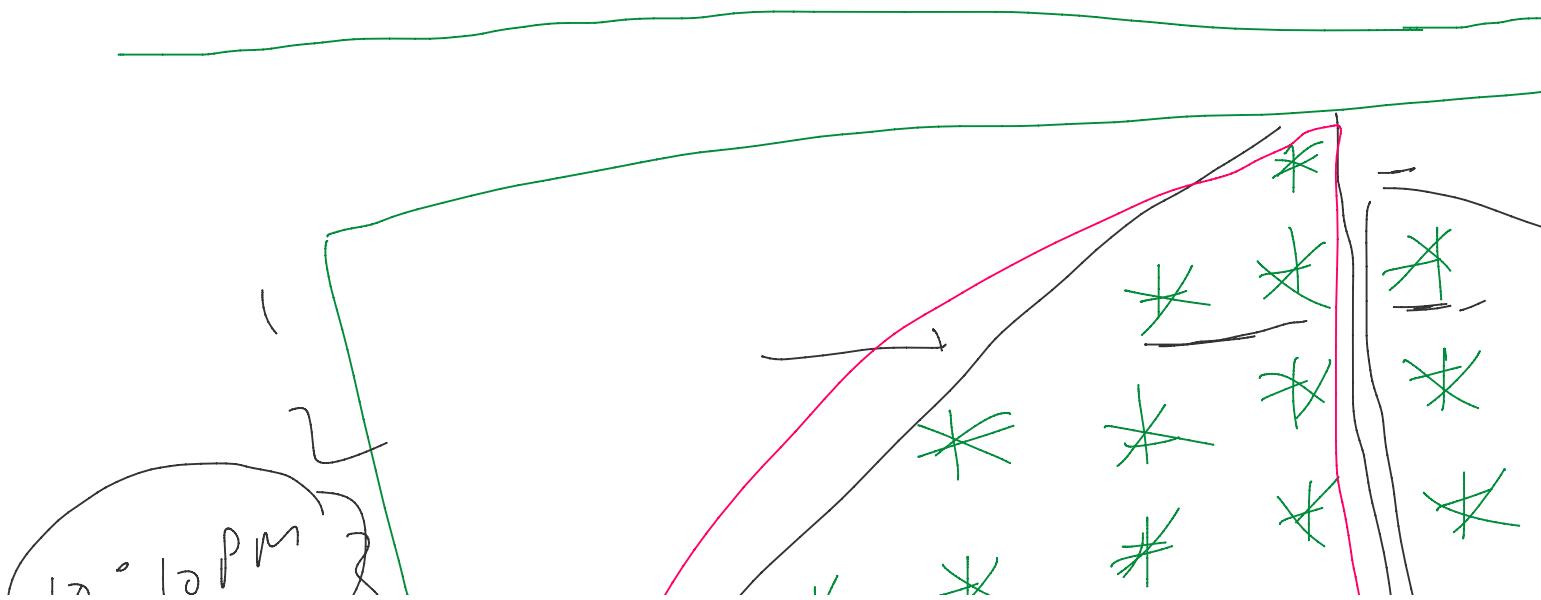
? \vdash for w .

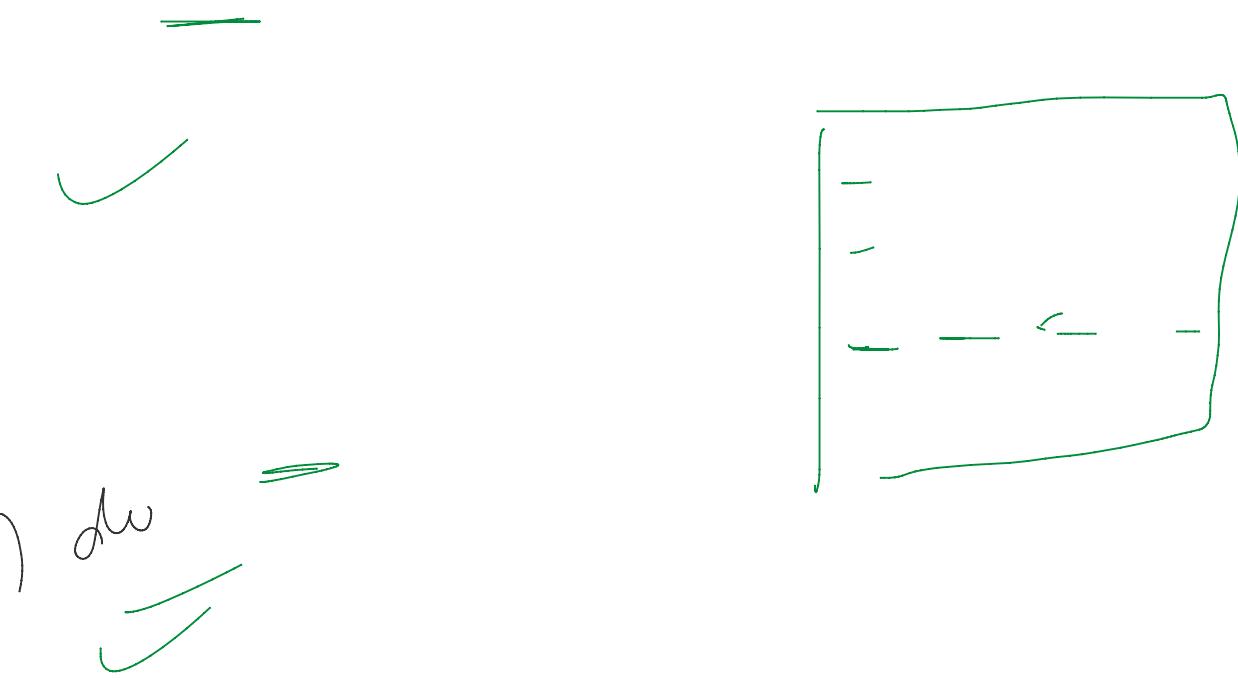
x_0

+-----

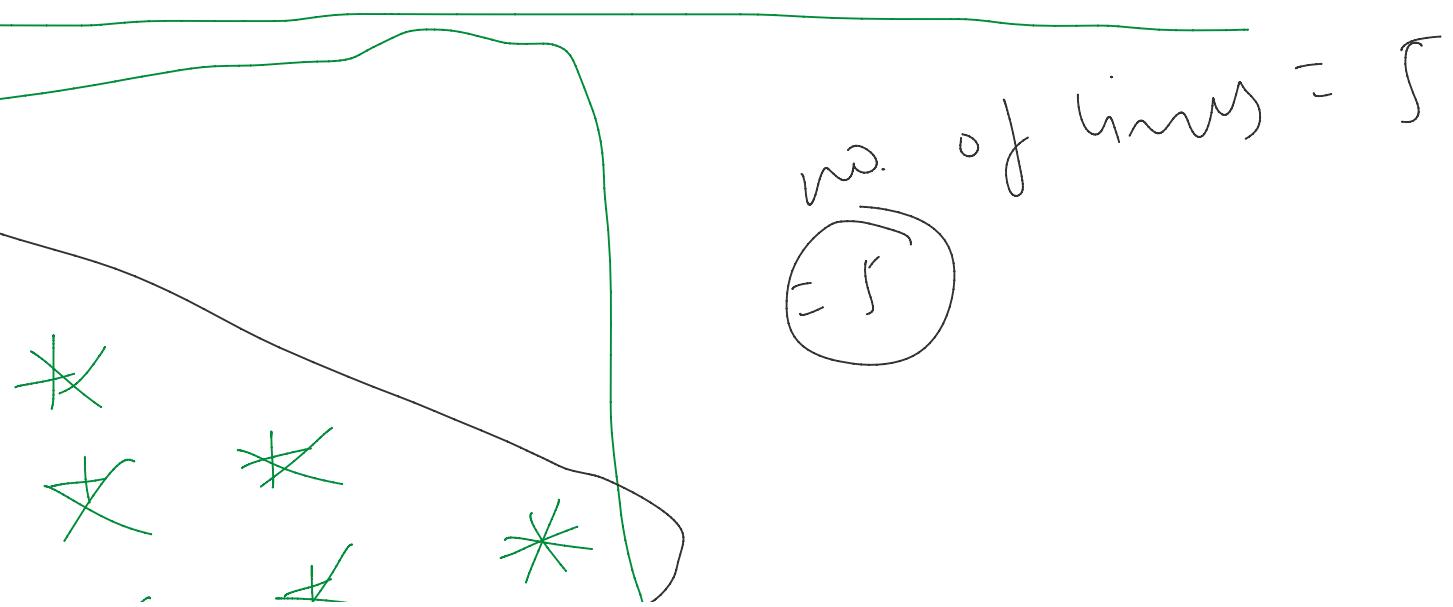
 Spcaus ← $\lfloor \log_2 \text{num} \rfloor$
 while ($\text{Spcaus} > 0$) do
 print "
 Spcaus ← Spcaus - 1
 end while

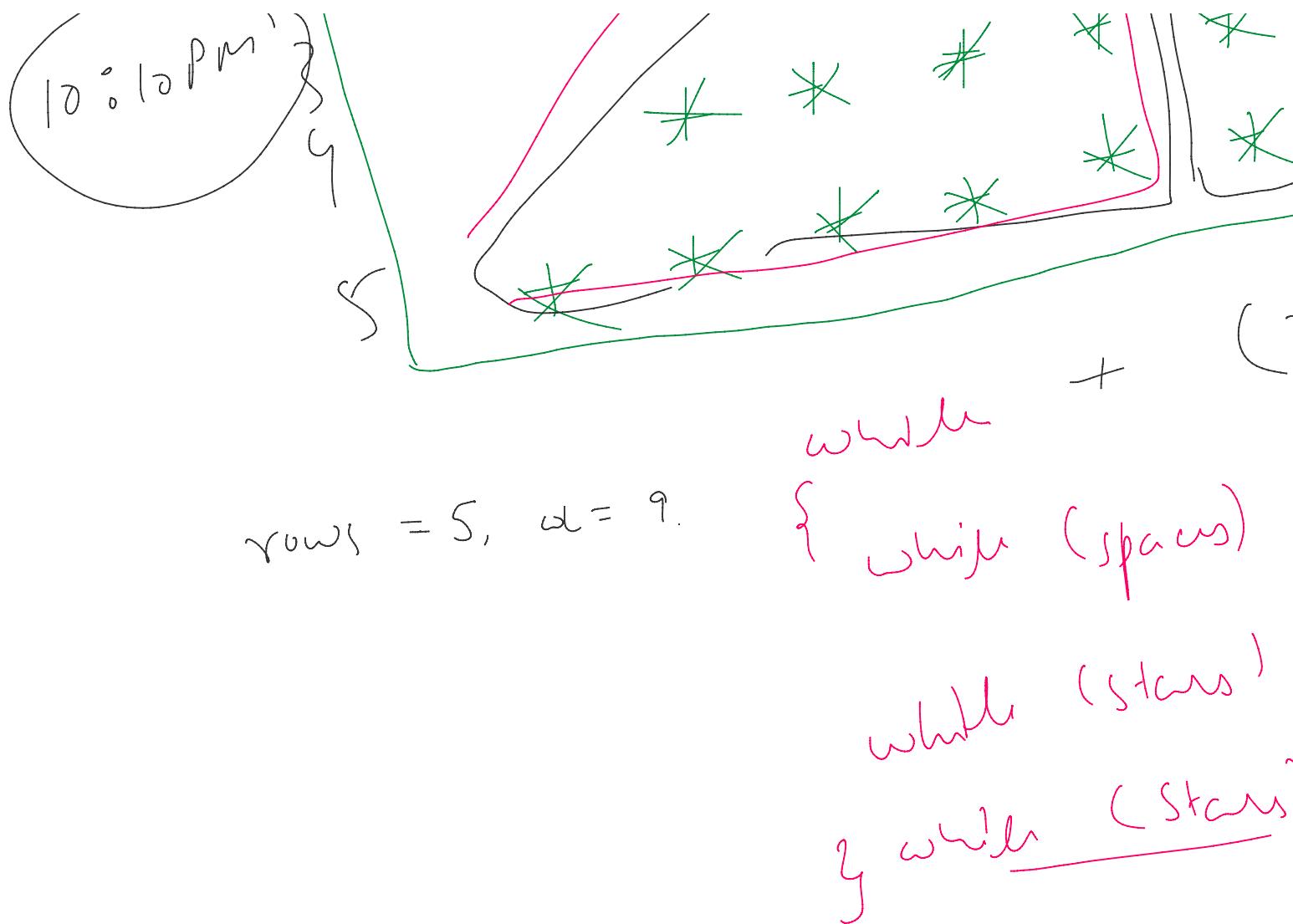
 star ← 1
 while (star <= cur-row) do
 print "*"
 star ← star + 1
 end while
 print "\n"
 cur-row ← cur-row - num
end while.





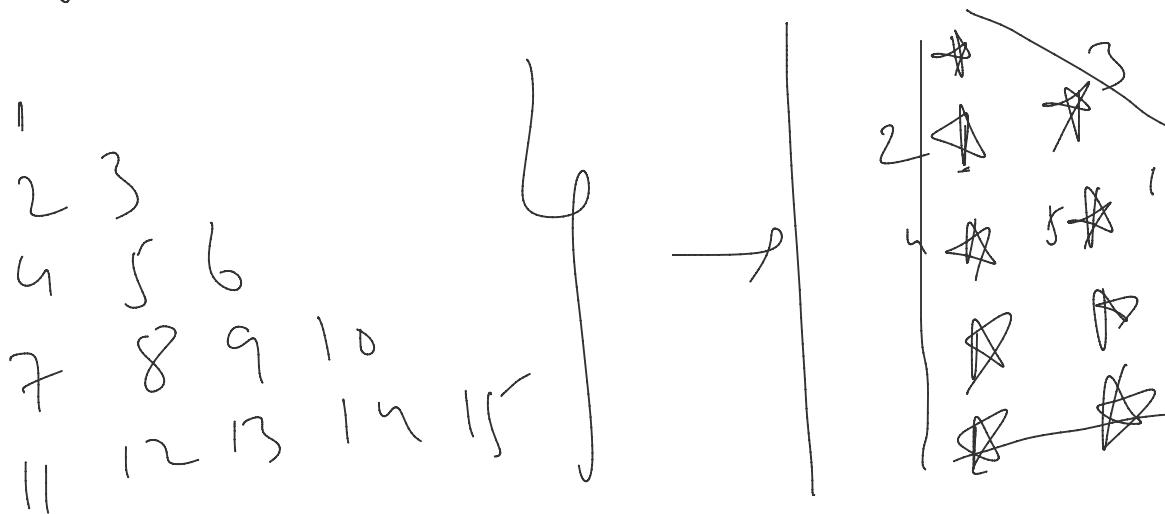
$\rightarrow +1$

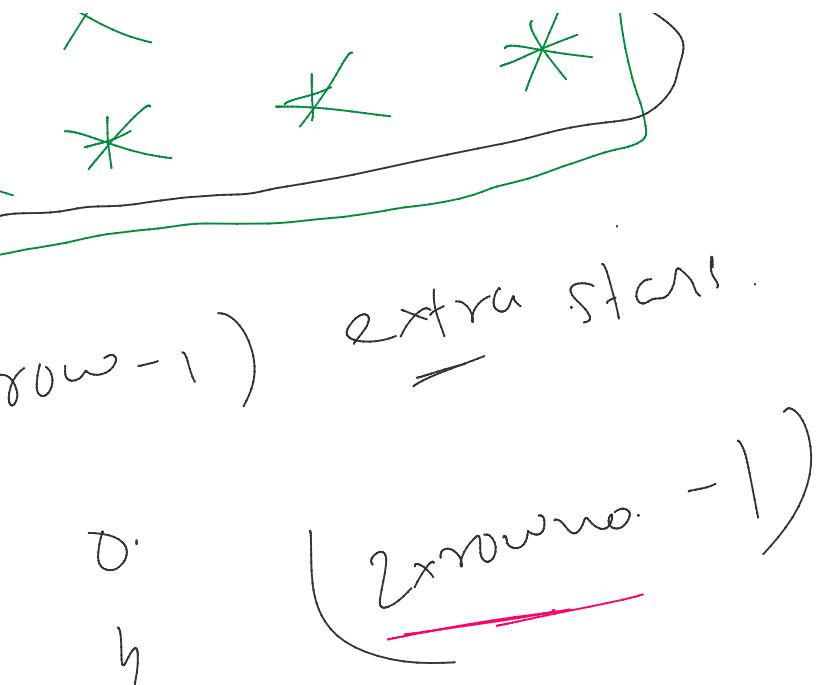




1

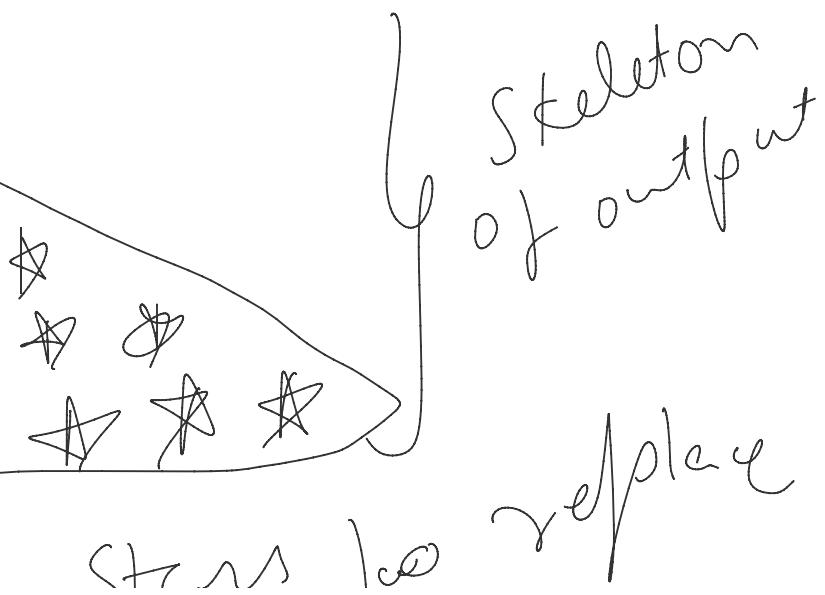
Whenever there are many α 's & β 's try to solve it for α & β only.





→ you → extra stem.

held in pattern,



11 12 13 14 15 16

This number is ~

formula source

read lines

rows ← 1

want ← 1

while rows <= lines

star ← 1

while (star <= rows

print want

want ← want + 1

star ← star + 1

end while

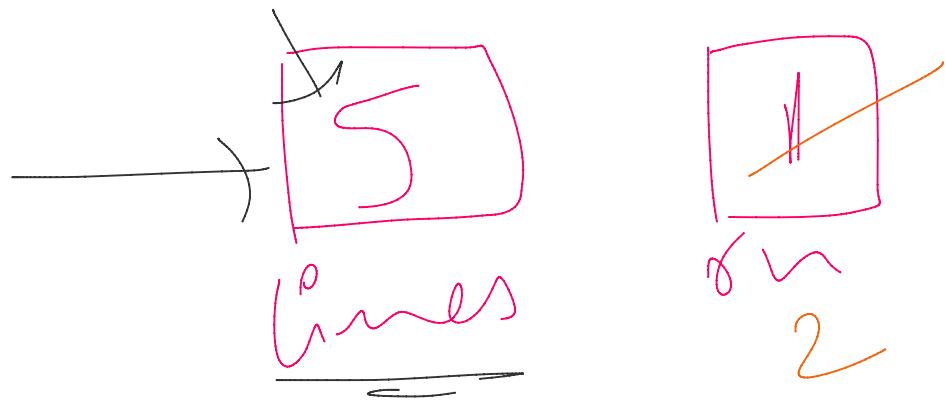
print '\n'

rows ← rows + 1

end while

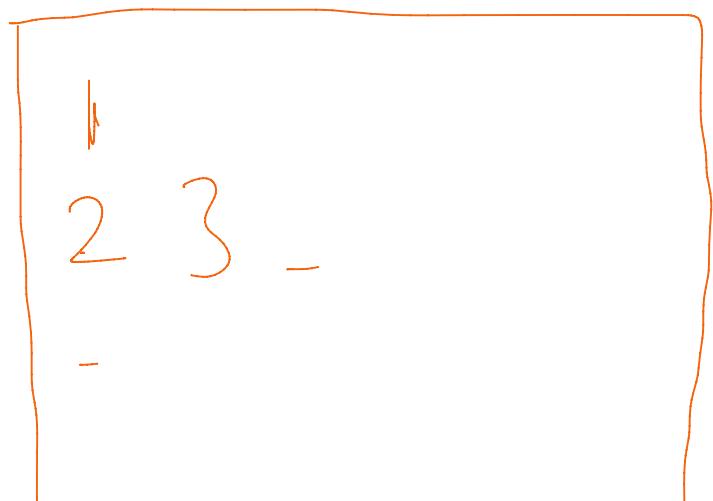
Stars to γ^0

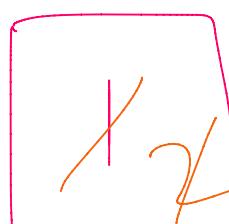
place known noise
noise

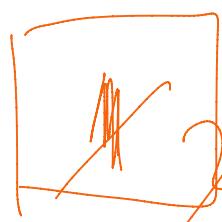


do
~) do
+)
w + 1

identifying
↑
memory
selection
with computer




1 2 3 4
ct :)


1 2 3 4
star 3

w w

256 → characters. →

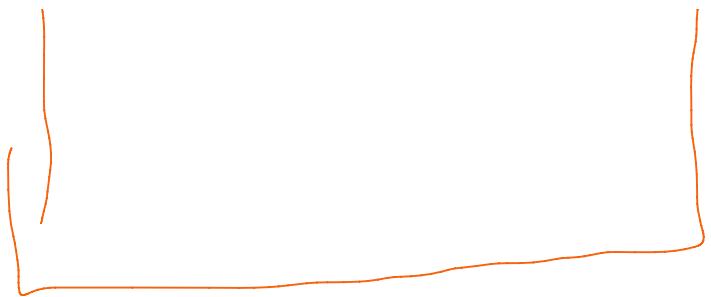
$A = \begin{pmatrix} 65 \end{pmatrix}$ →

67 32 15
1 0 0

read lines.

print '*''

'c' , 'y' → v
.,,



a-z (0-9)
 A-Z
 special symbols,
 currency symbols }

input → (65) → (A)

8 9 2 1
6 0 0 1 → (A)

Lines → Integers.

* → Binary Notation

binary store

'a' $y \rightarrow$

'abc'

(1, 2, 12,) $y \rightarrow$

-1, -2, -12 y

10.23 $y \rightarrow$ 80

B.N.S.

bits

switch
on/off

1 / 0

we start from 0
128 64 32 16 8

7 6 5 4 3 2

each bit represents

0th bit represents

1st

2nd

Binary

0

Binary

1

→ Binary



Binary

(0, 1)

1 byte = ? bits

8 bits

Byte is

1 2 1
— | — |
| 0 bit

if a power of '2'

4 → 1 byte

→ 0 → 00000000

→ 1 → 00000001

2 → 00000010

3 → 00000011

→ 2

2^1

2^2

(13)

8 4

2 2 0 ✓ ✓

12 + 1 +

33, 37, 27,

IDE

→

Integrat.

vs code, sub

Setting up sublime + x + f
scratch for C++
C++ + comp. prog
ex. videos

2
0

13

17

Development Environment

slimntext), Unix, Linux.
↳ Terminal.
↳ Text editors
InviNT, vim, neviN, x
nano, emacs,
gedit.

rem
im
17

(7)
 and some ex. videos
 which they show how
 you use

declaration of variable
 to make a certain
 name.

definition of variable
 a value into

initialization of variable
 initialization

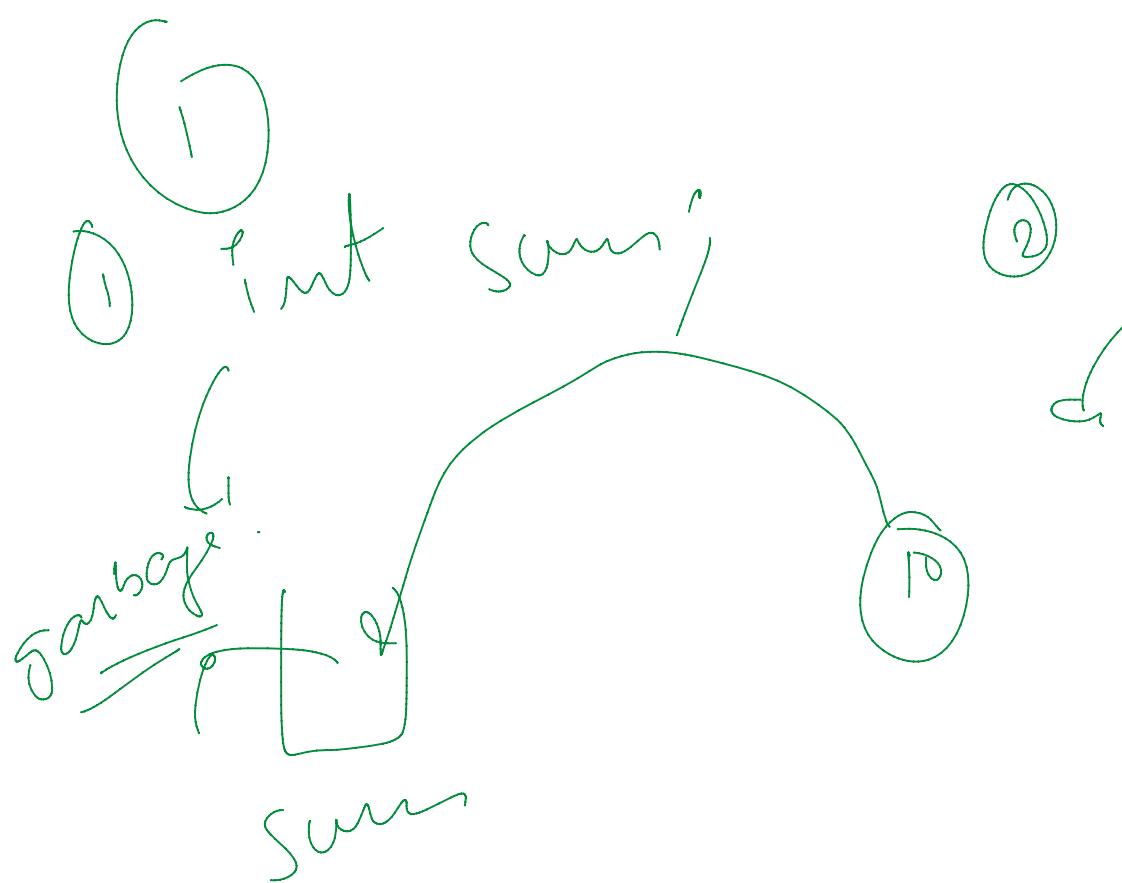
variable :- telling compiler
type of bucket with certain

whi:- defining or putting
in a declared bucket.

whi:- declaration +
in 1 step

int sum

definition



In a single block
of a variable can or

w > s +

(2)

sum = 10 ;

(3)

int sum = 20;

(2)

sum

/ scope of var
only be declared in l.

