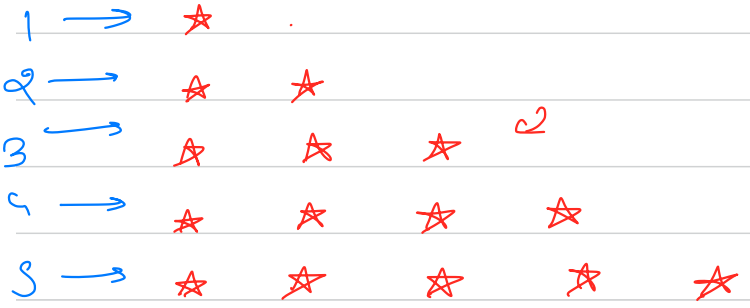
Q3 Given a number n, print the following pattern for n rows.



(n = 5)

Each star is separated by a space

print (<var>, end = " ") → Prints in same line

what should my text ends with

print ("*", end = " ")
print ("*", end = " ")

output → * *

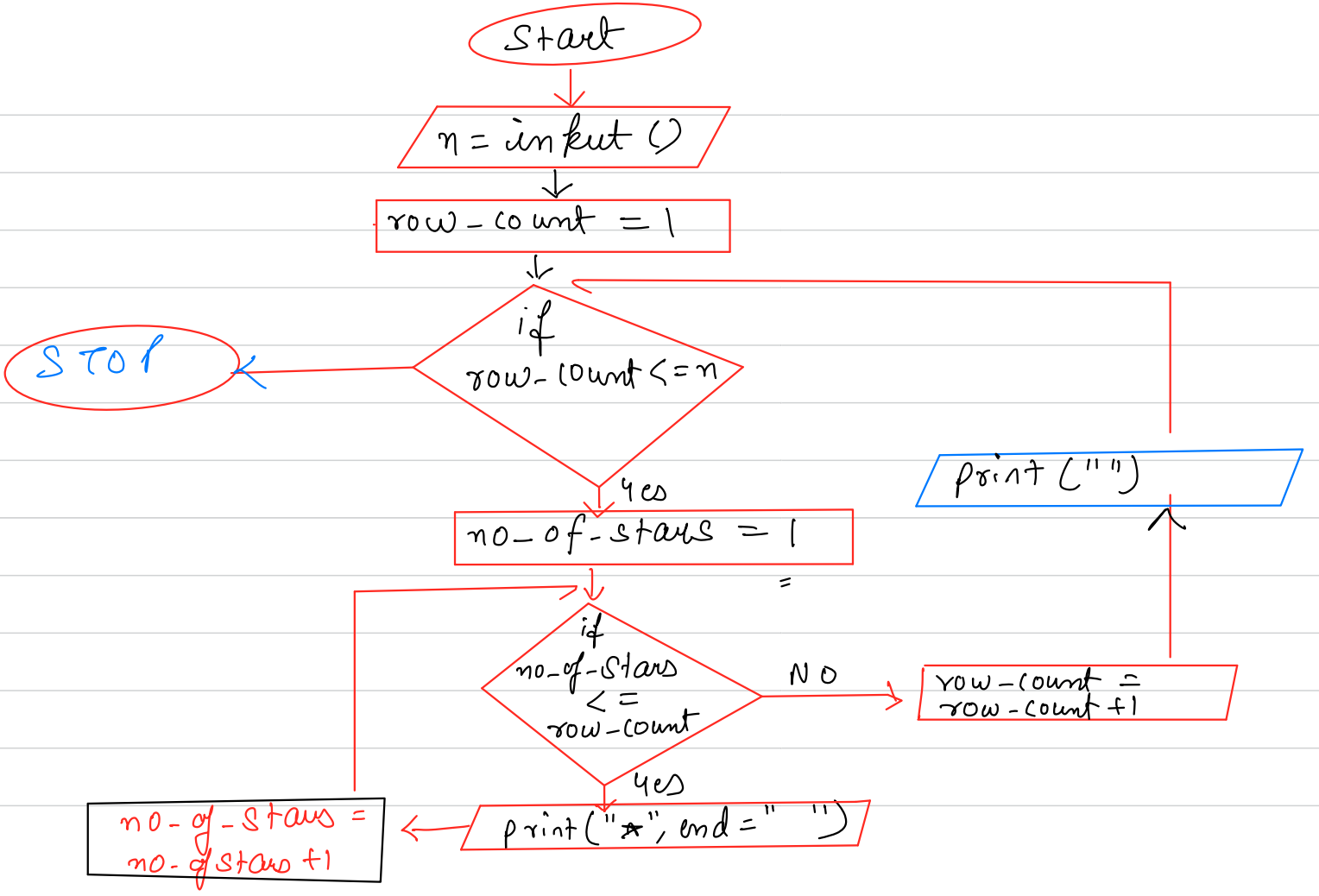
Whatever our row number is, we have that many stars in the row.

Using one single loop I can iterate on the row numbers.

Now in each iteration, whatever is my row_no. value, I print that many stars

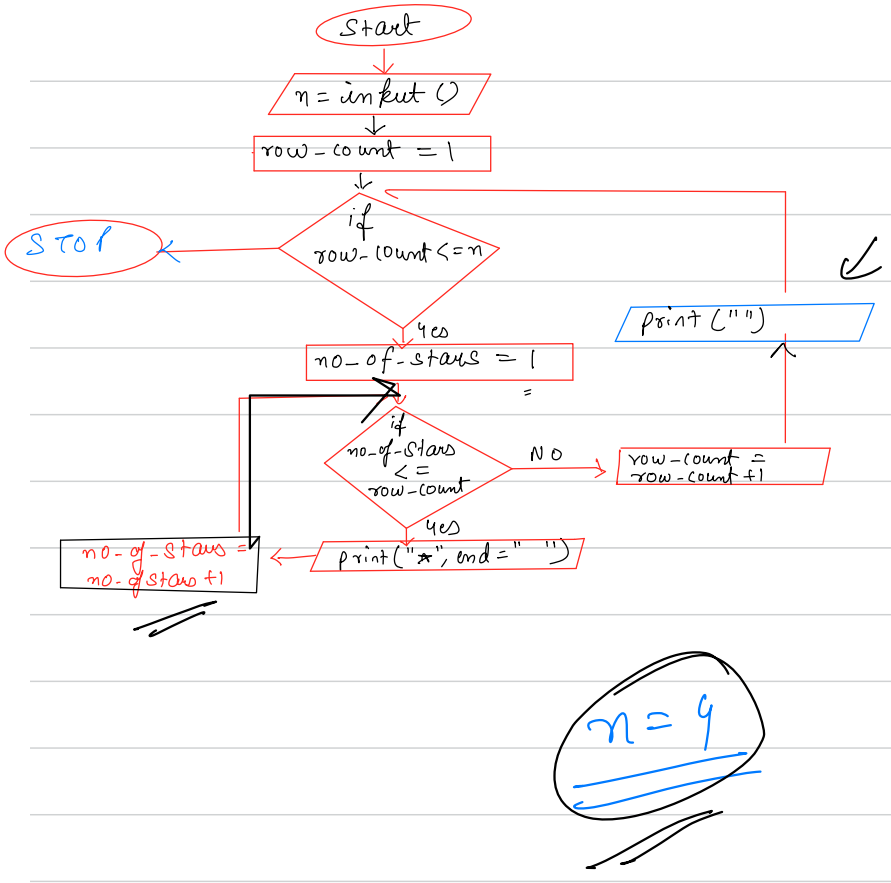
How many rows we need to print?

As soon as all the stars of any one row has been printed, increment row_count


Start
n = input ()
row_count = 1
if
row_count <= n
STOP
yes
no_of_stars = 1
if
no_of_stars
<=
row_count
NO
row_count =
row_count + 1
print ("")
yes
print ("*", end = " ")
no_of_stars =
no_of_stars + 1

if you don't pass any value to end, then cursor goes to next line.

Else,
whatever you pass to end, cursor goes next.



n = 4

Display

row-count	no of stars
1	1
2	2
2	2
2	1
2	2
2	3
3	1
3	2
3	3
3	4
4	4

Q. Given a value n, print the following pattern for n rows

(n = 5)

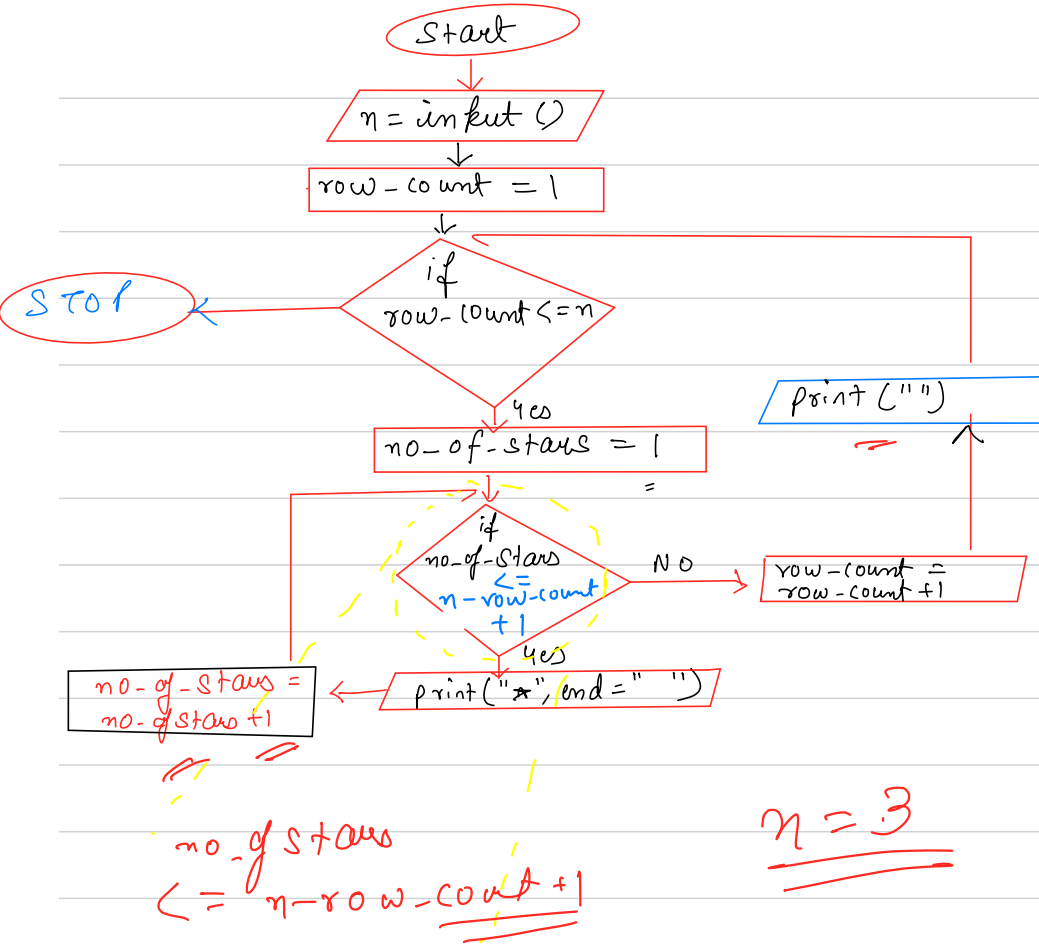
$n = 5$

$5 - 1 + 1$

$5 - 2 + 1$

row	Stars
1	5
2	4
3	3
4	2
5	1

stars <= n - row + 1



row_count	no. of stars
1	1
1	2
1	3
1	4
2	1
2	2
2	3
3	1
3	2
3	
4	

no_of_stars <= n - row_count + 1

n = 3

Q⇒ Given a value of n, print the following pattern for n rows

```
1
2 2
3 3 3
4 4 4 4
5 5 5 5 5
```

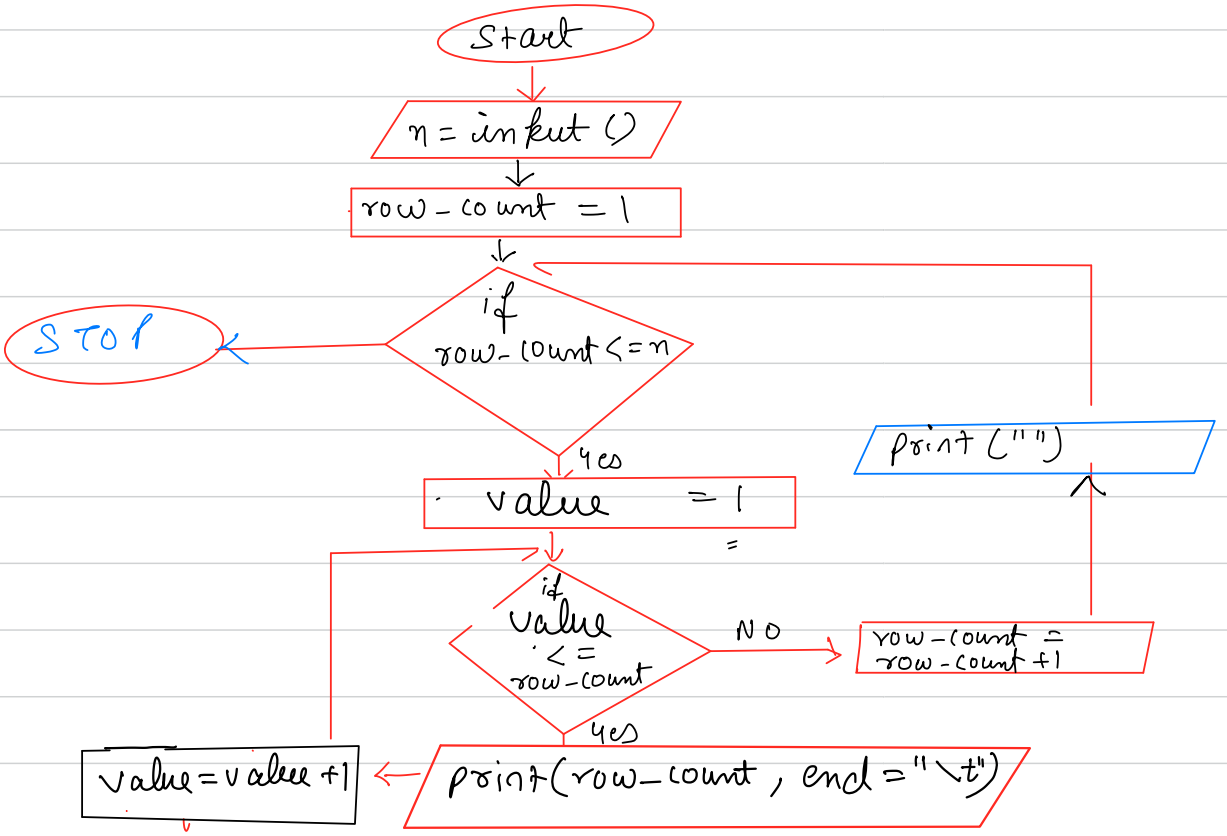
(n=5)

2 numbers are separated by a tab space

print("1", end="\t")

\t → tab space

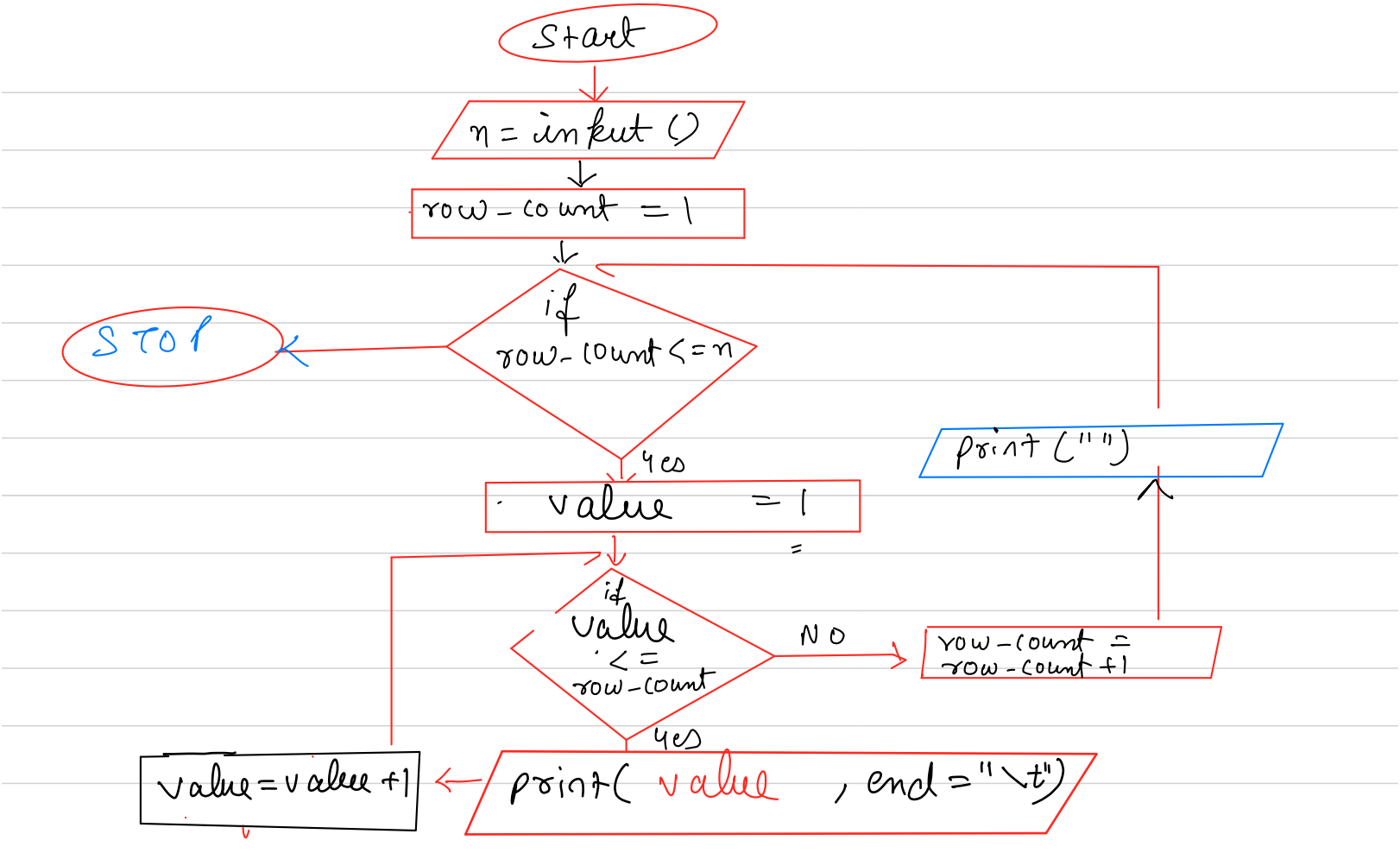
" " → space


Start
n = input ()
row-count = 1
if row-count <= n
STOP
yes
value = 1
if value <= row-count
NO
row-count = row-count + 1
print ("")
yes
print (row-count, end = "\t")
value = value + 1

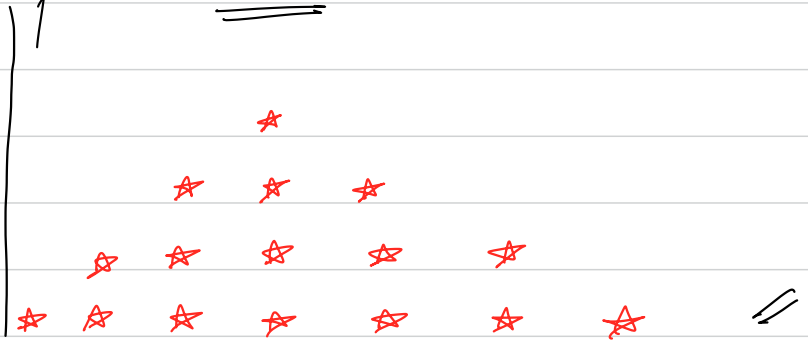
Q:) Given a value of n, print the following pattern for n rows

```
1
1 2
1 2 3
1 2 3 4
1 2 3 4 5
```

(n = 5)


Start
n = input ()
row-count = 1
if row-count <= n
Stop
yes
value = 1
if value <= row-count
NO
row-count = row-count + 1
print ("\n")
yes
print(value , end = "\t")
value = value + 1

Q: Given a value of n, print the following pattern for n rows



n = 4

True → afternoon (3 pm)

False → Every (7 pm)