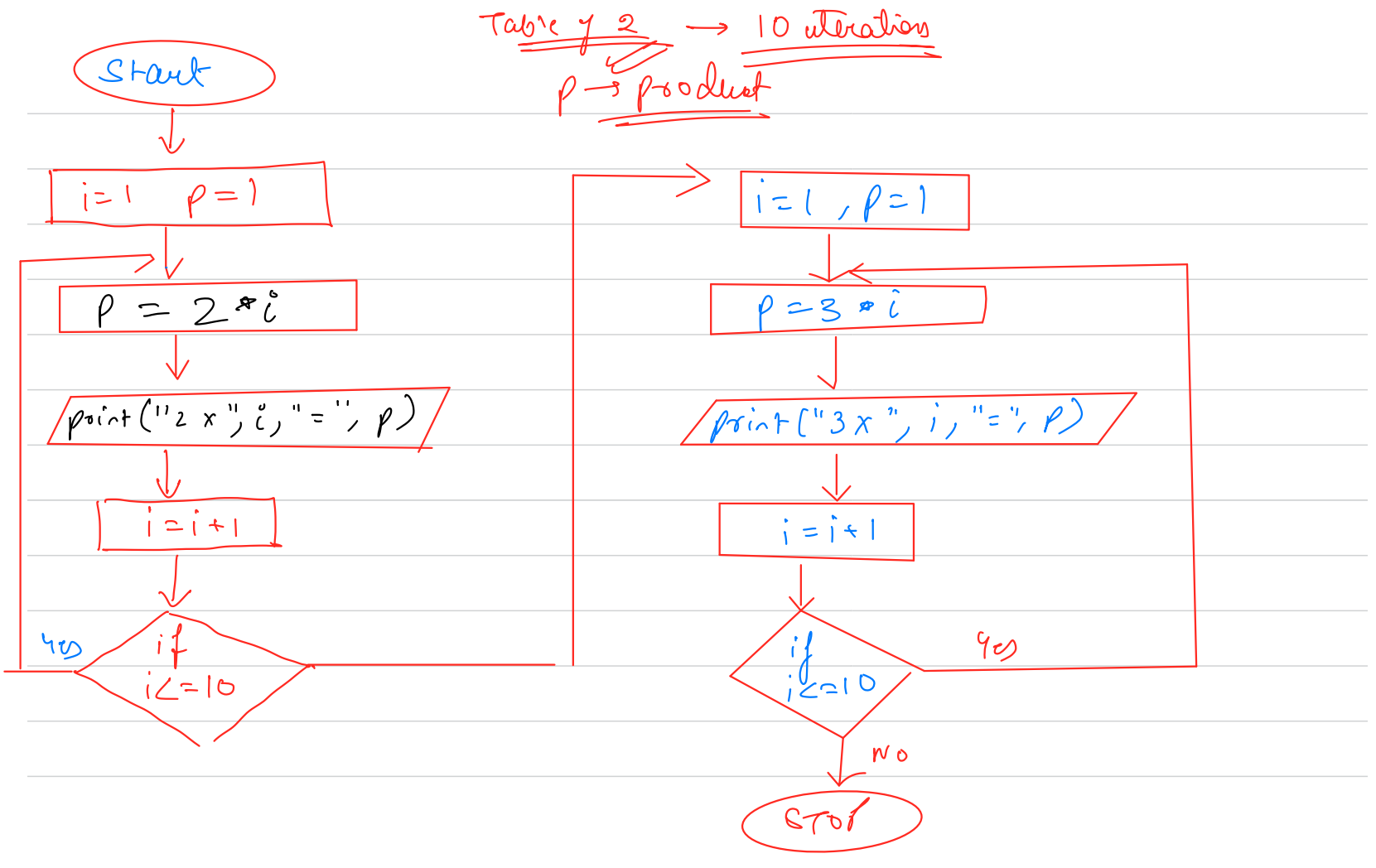


Table of 2 → 10 iterations
p → product
Start
i=1 p=1
p = 2 * i
print("2 x", i, "=", p)
i=i+1
if i<=10
yes
i=1 , p=1
p=3 * i
print("3 x", i, "=", p)
i=i+1
if i<=10
yes
no
STOP

Q:) Print the multiplication tables of 2, 3, 4 upto 10 iterations each.

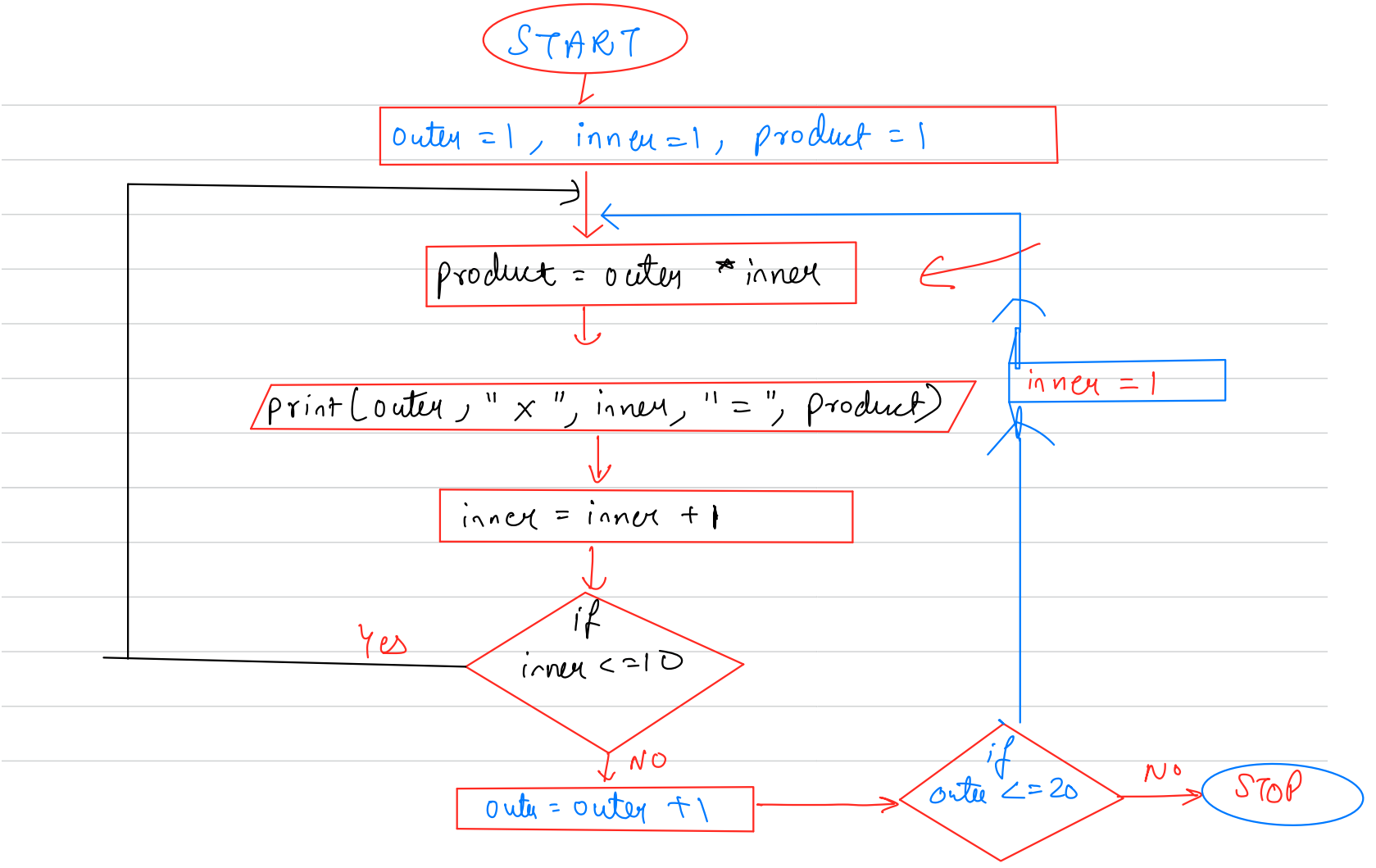
Nested loops

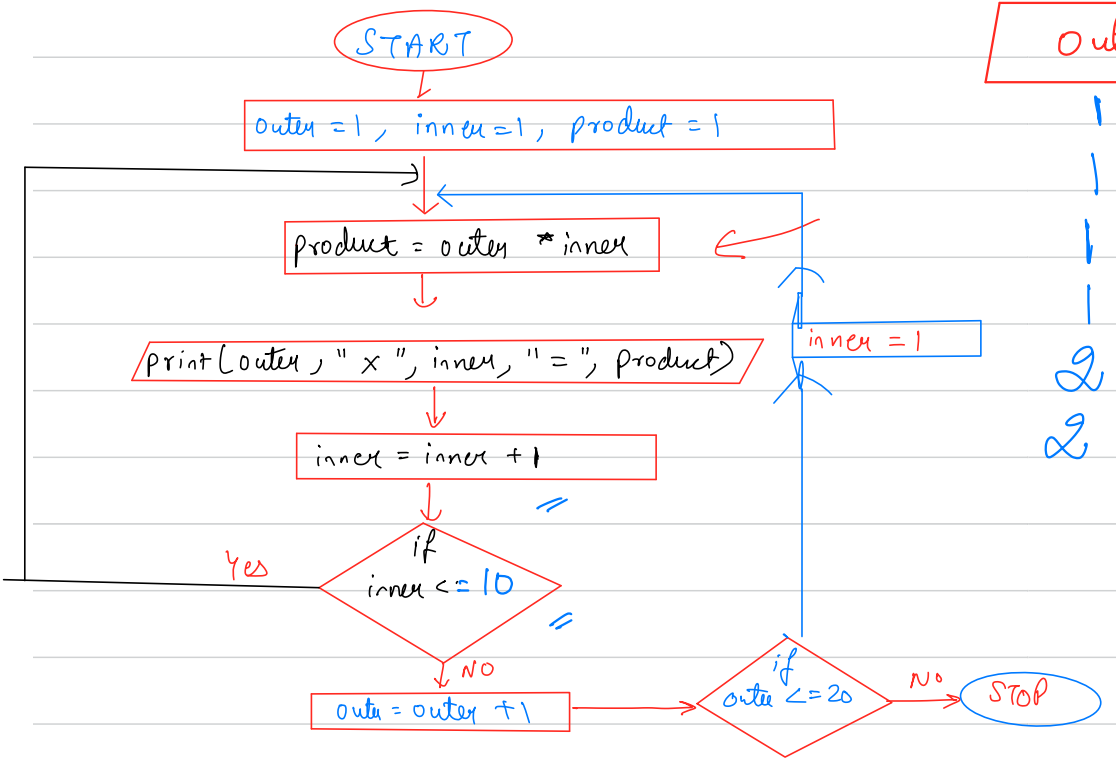
→ 2 components

→ Outer loop
↳ this will manage for which no. we want the table to be printed

→ inner loop
→ the exact table of current number

outer


START
outer = 1 , inner = 1 , product = 1
product = outer * inner
print(outer , " x " , inner , " = " , product)
inner = inner + 1
if
inner <= 10
Yes
NO
outer = outer + 1
inner = 1
if
outer <= 20
NO
STOP



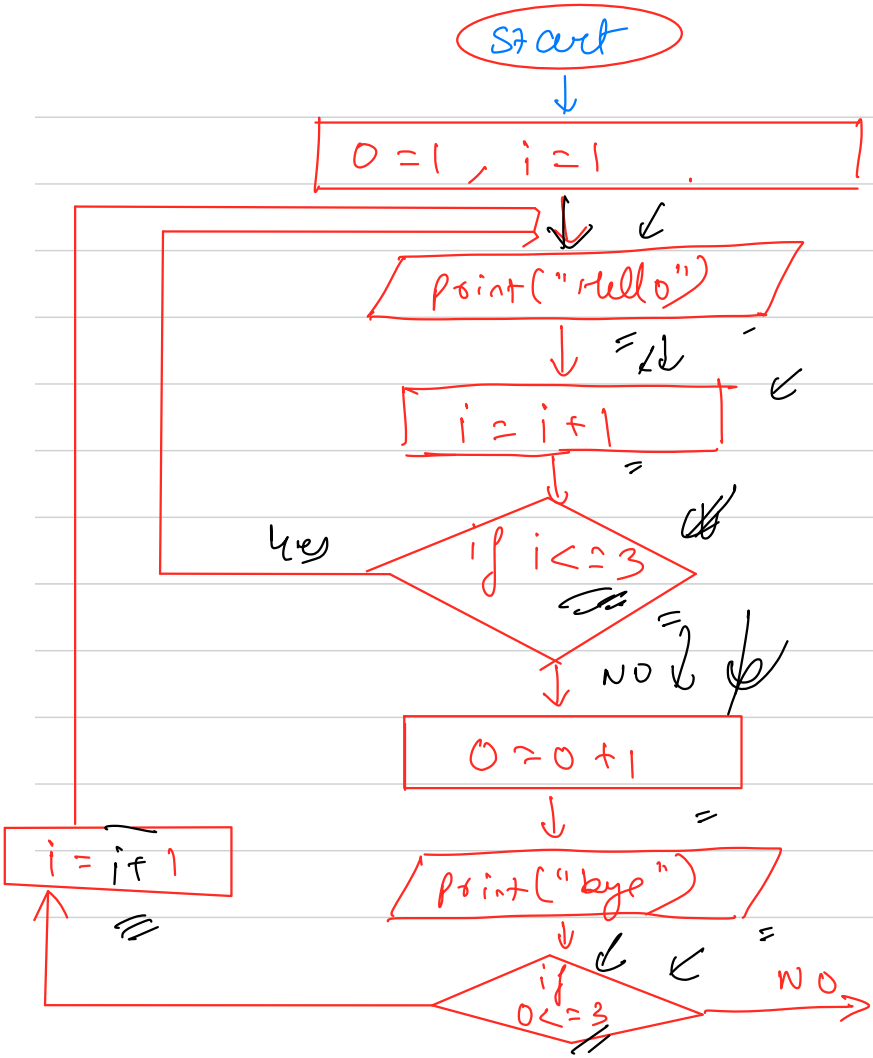
outer	inner	product	display
1	1	1	1 x 1 = 1
1	2	2	1 x 2 = 2
1	3	3	1 x 3 = 3
1	4	4	1 x 4 = 4
2	1	2	2 x 1 = 2
2	2	4	2 x 2 = 4

Q→ How many times the inner loop will run??

→ 200

Q→ How many times the outer loop will run??

19



O	i	Display
1	1	Hello
1	2	Hello
1	3	Hello
2	4	Bye
2	5	Hello
3	6	Bye
3	7	Hello
4	8	Bye