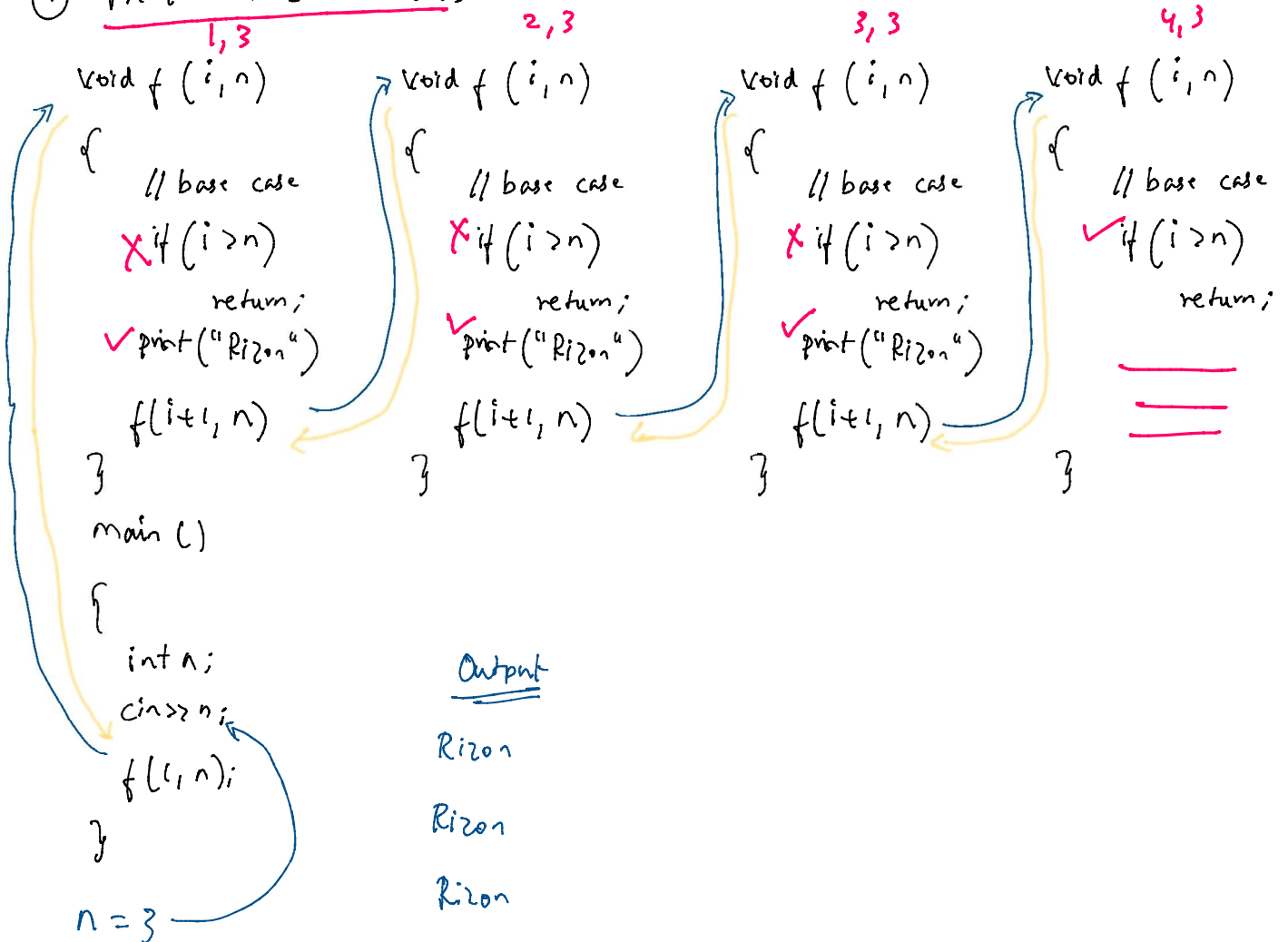


2. Problems on Recursion

Basic Recursion Problem

① Print Name n Times.

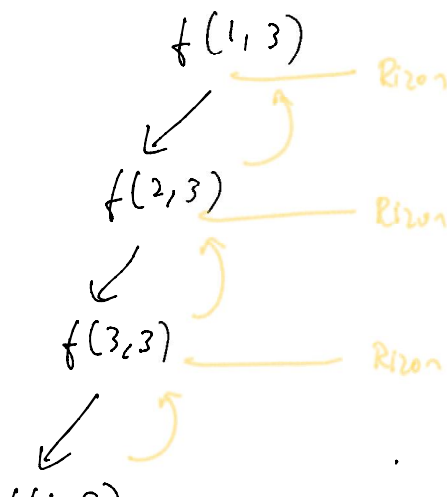


Output

Rizon

Rizon

Rizon



T.C $\Rightarrow O(n)$

S.C $\Rightarrow O(n)$ (Stack Space)

$f(3, 3)$

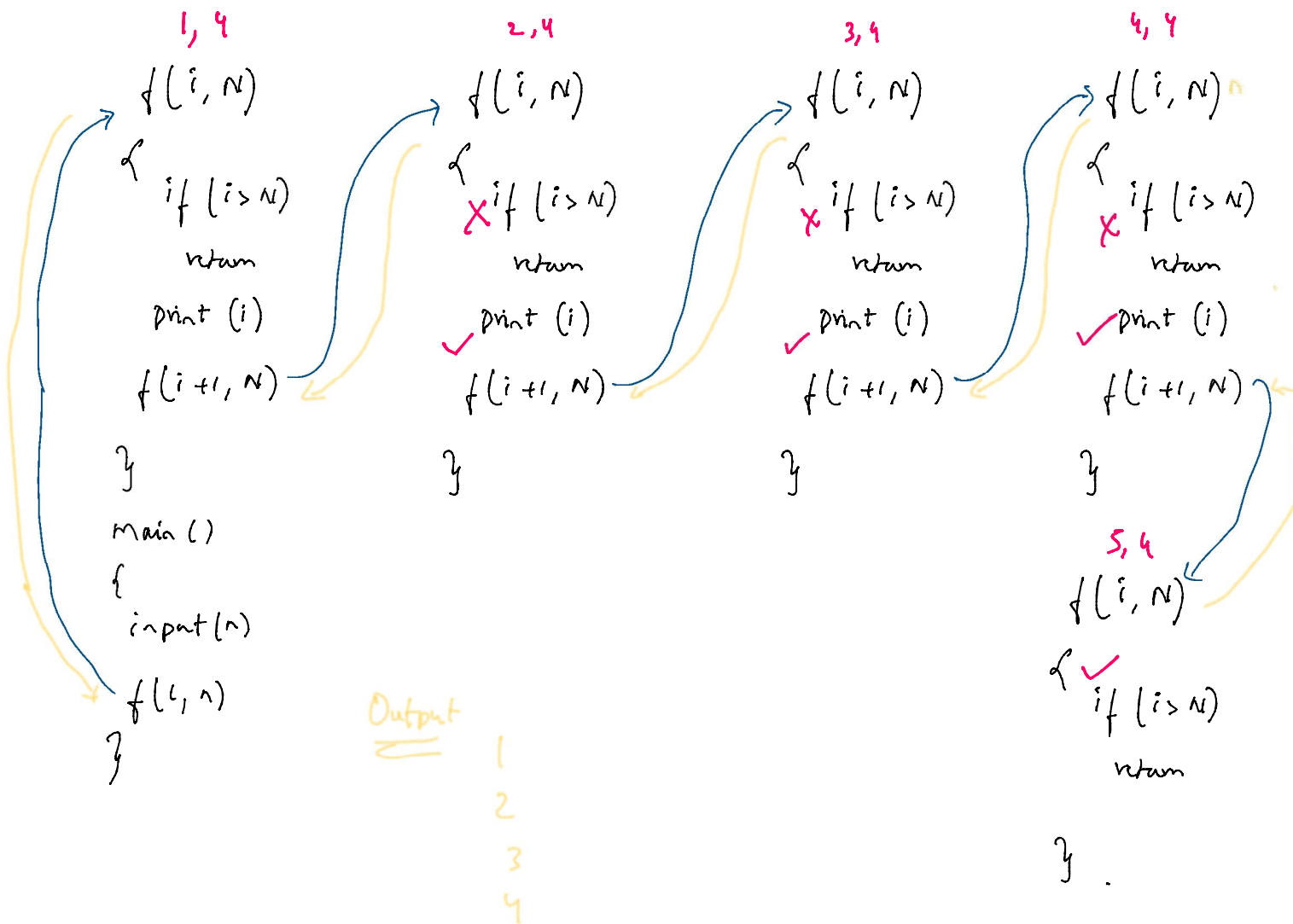
$f(4,3)$

$f(3,3)$
 $f(2,3)$
 $f(1,3)$

Stack

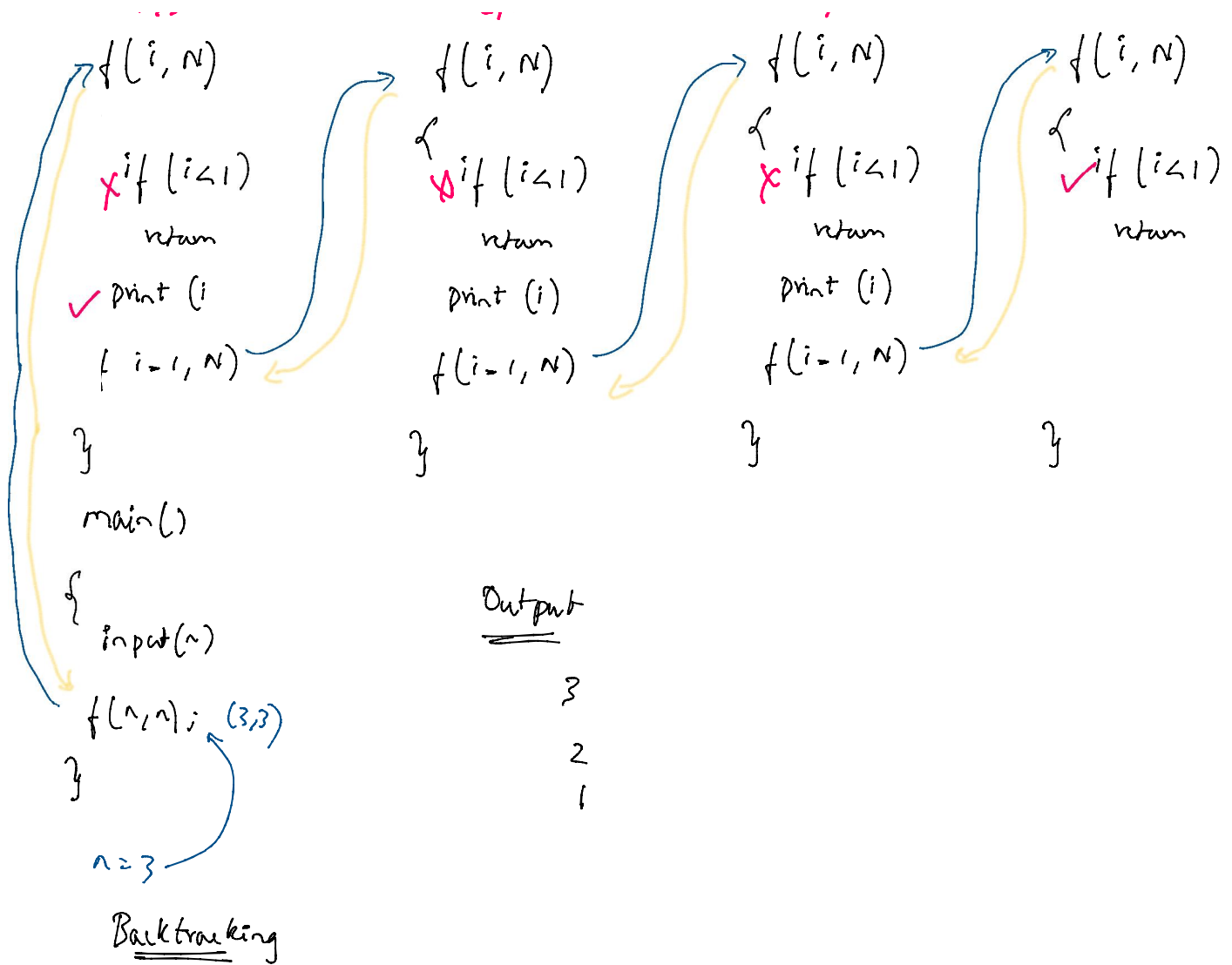
② Print linearly from 1 to N

$N=4$ Output $\Rightarrow 1 \ 2 \ 3 \ 4$

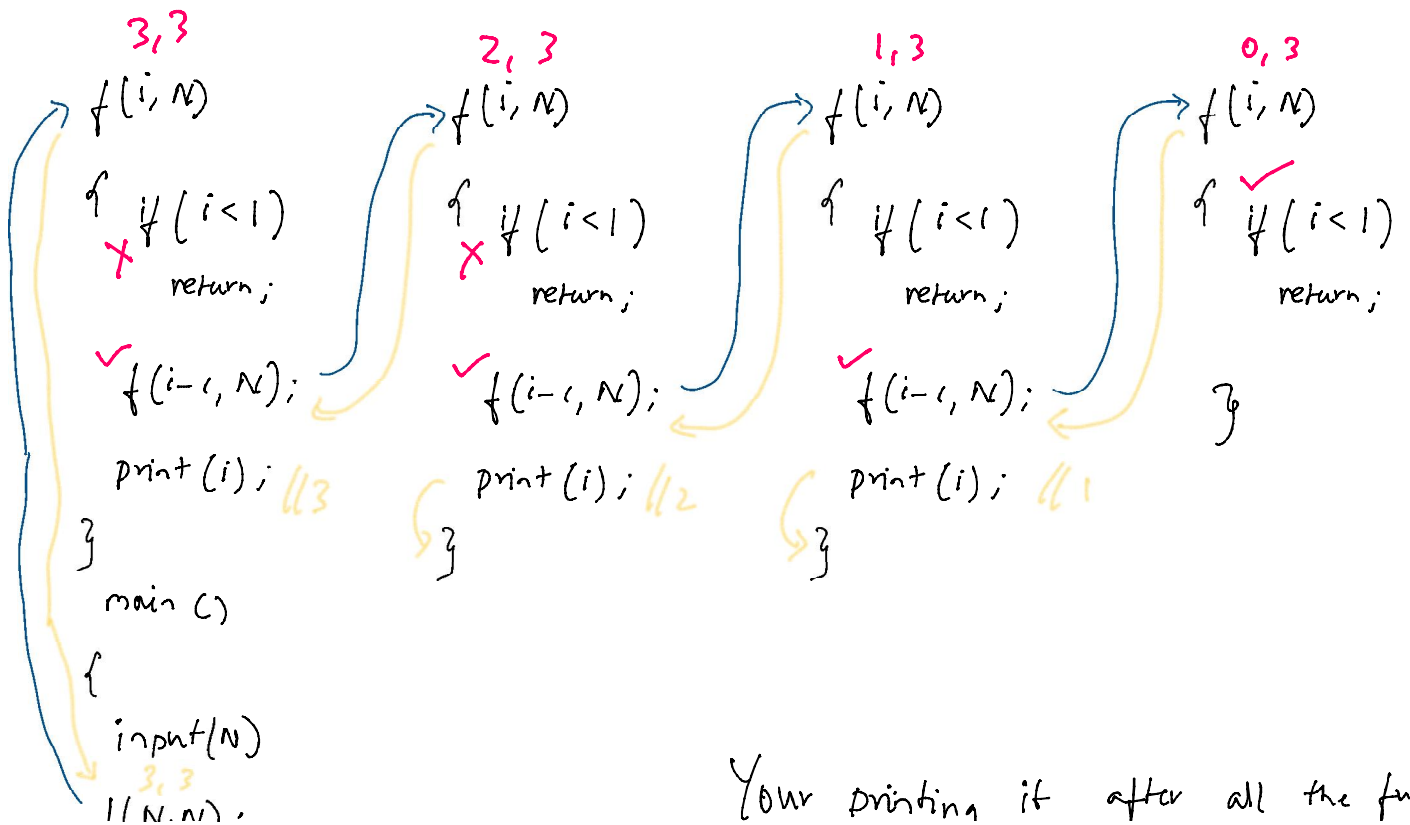


③ Print $N \rightarrow 1$ $N=3 \Rightarrow 3 \ 2 \ 1$

3, 3 \rightarrow $f(i, N)$ 2, 3 \rightarrow $f(i, N)$ 1, 3 \rightarrow $f(i, N)$ 0, 3 \rightarrow $f(i, N)$



①: Print from 1 to N but without using ' $++$ ' $\Rightarrow f(i+1, N)$.



Your printing it after all the function

input(N)
 3, 3
 f(N, N);
 }
 n = 3

Your printing it after all the function
 can get over. (Opposite side we did)

Output

1

2

3

Q: Print from N to 1 without using '-1' $f(i-1, N)^X$

