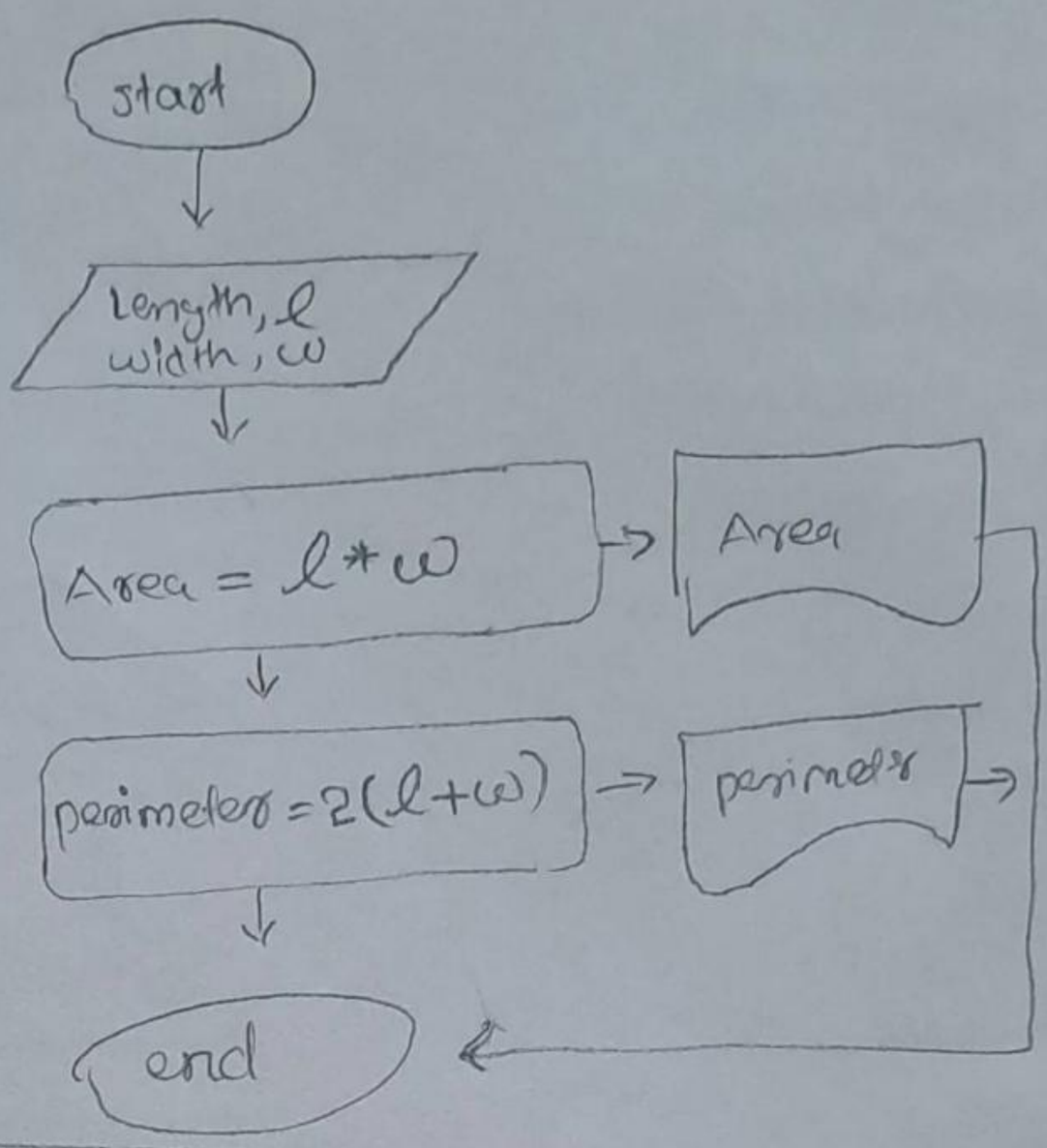
Homework - 2 (Adi - ZAW NAING, Student no. : 2210213562

①

1. start
2. read, length & width
3. Area = length * width
4. perimeter = 2(length+width)
   perimeter
5. end



②

ax^2+bx+c

a, b, c - constant

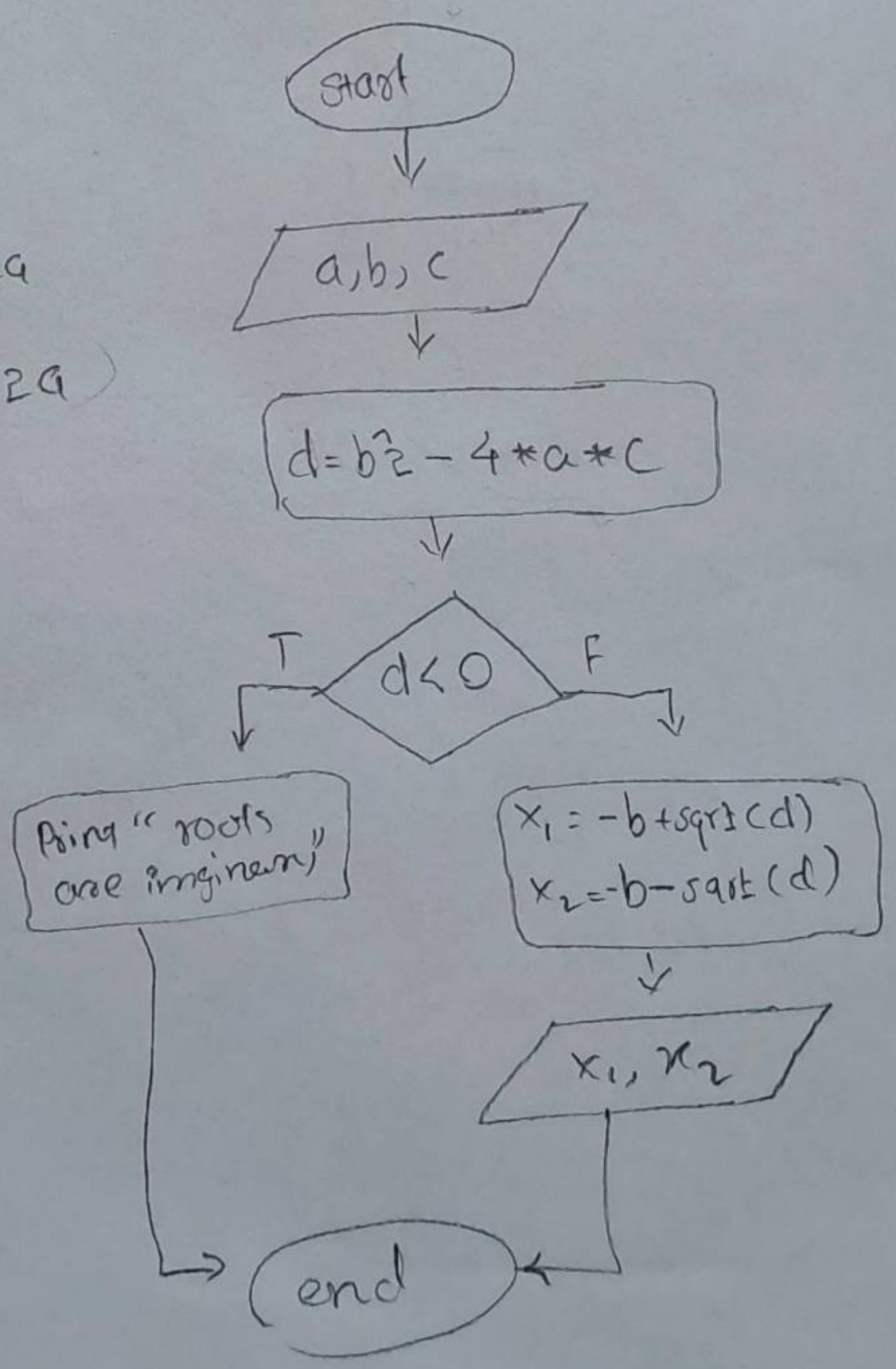
$X_1 = (-b+\sqrt{a^2-4ac})/2a$

$X_2 = (-b-\sqrt{b^2-4ac})/2a$

$D = b^2 - 4ac$

if $D<0$ then
  roots are imaginary

else,
  roots real



(3)

Start

Input Hello

counter = 1

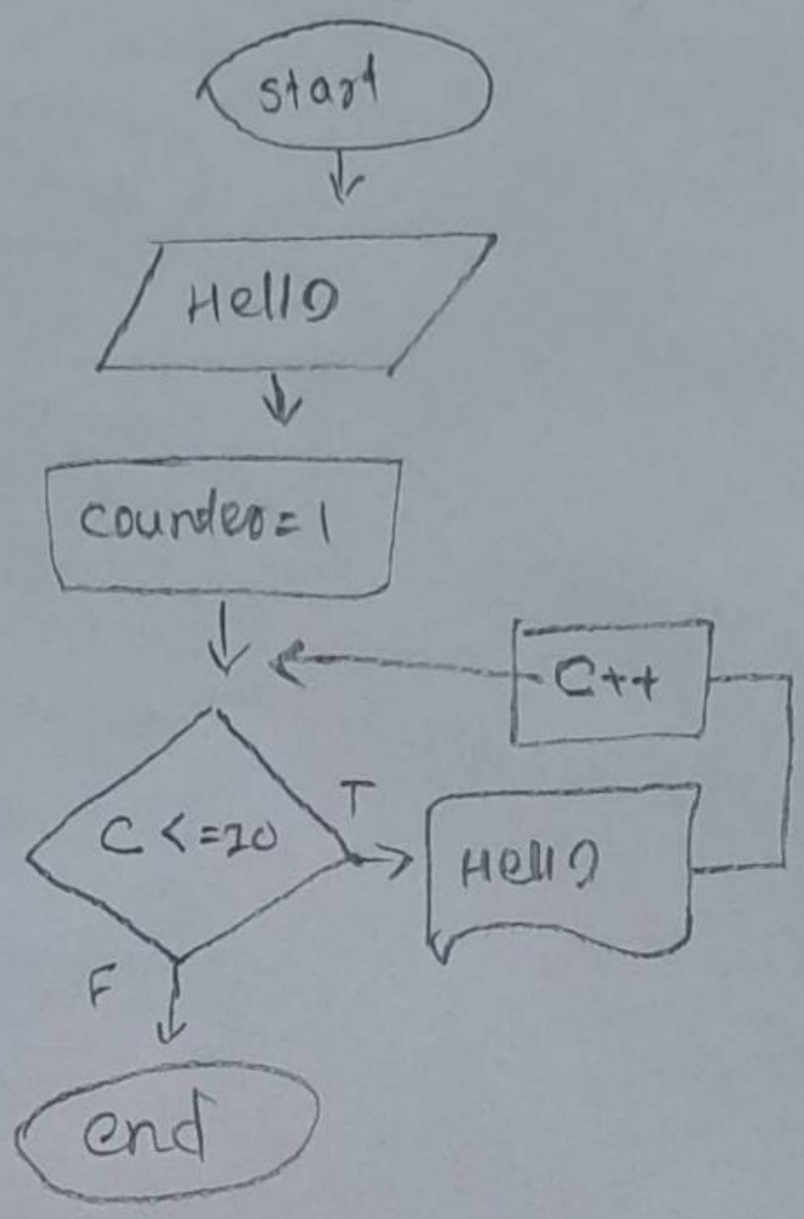
counter <=10, then

Hello, output

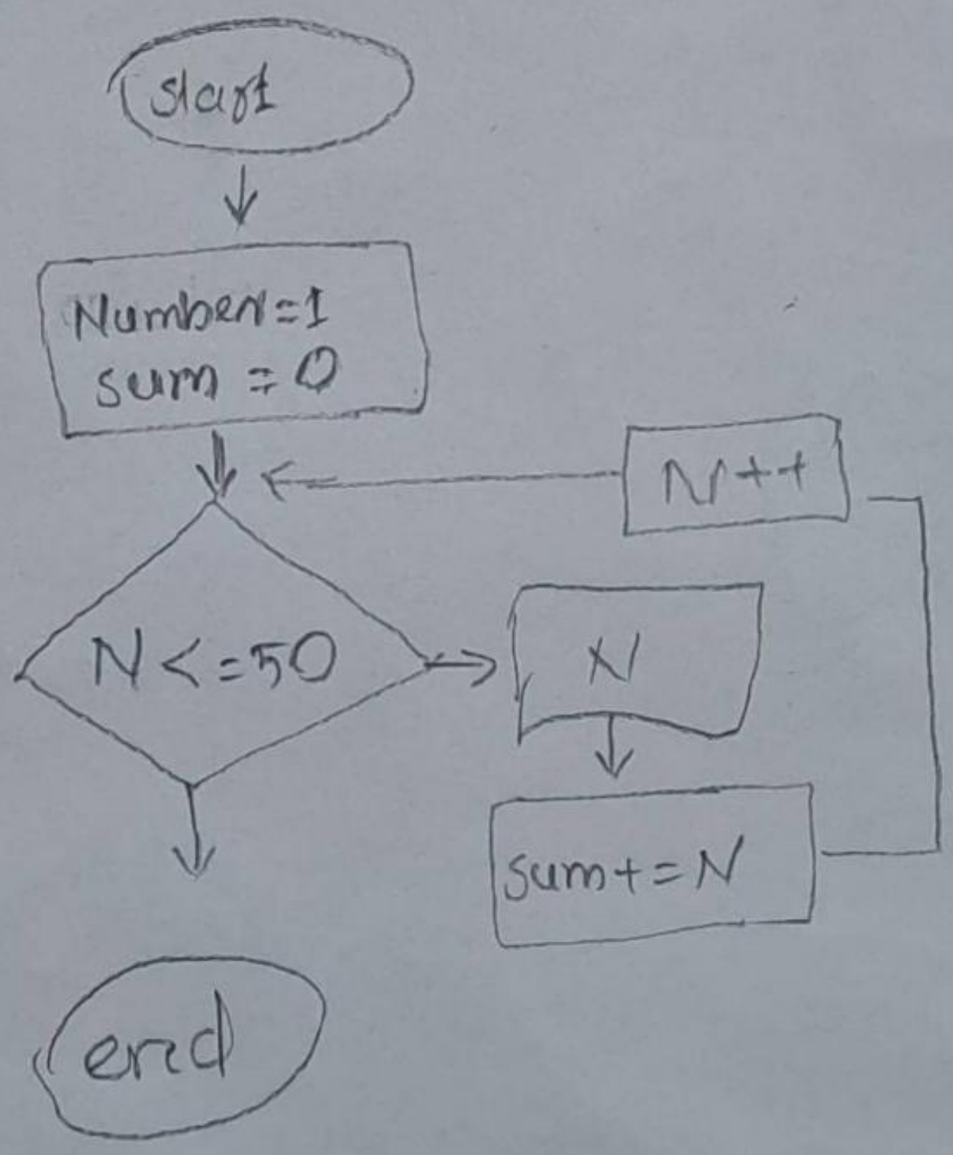
Counter++

else

End

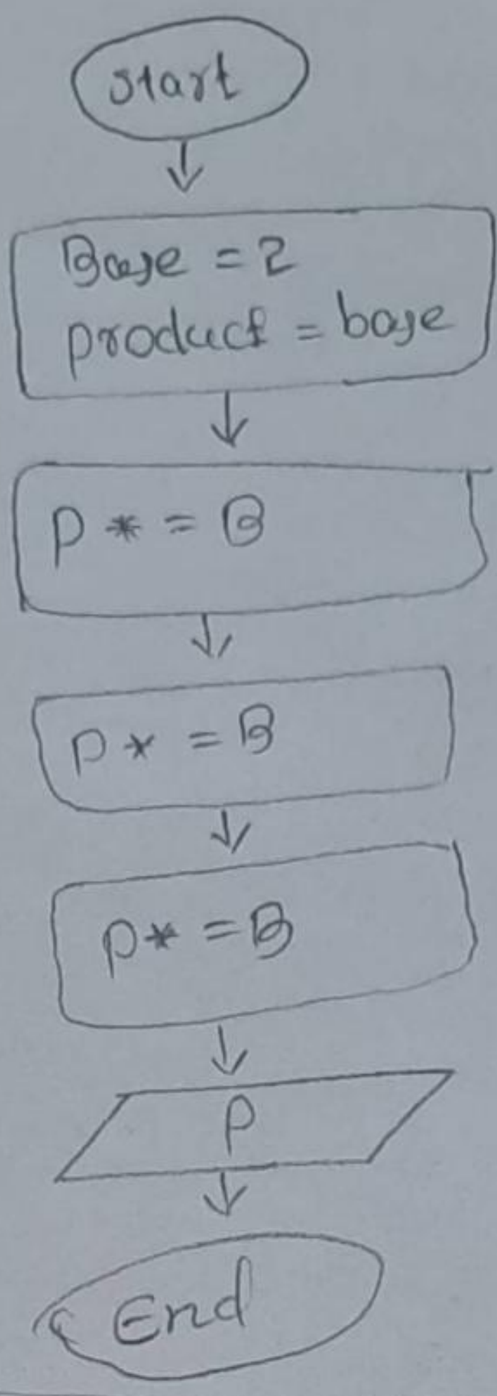


(4)



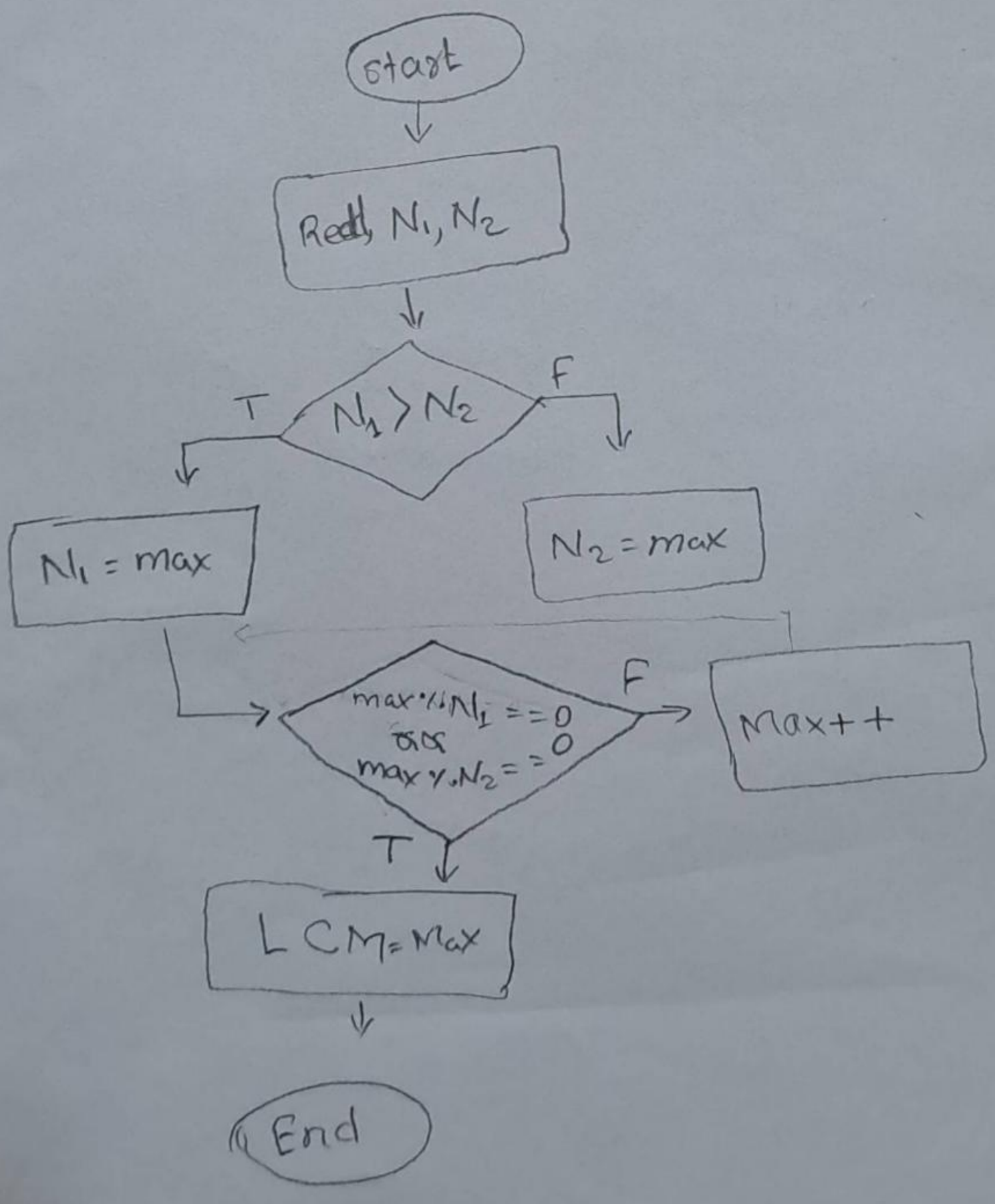
(5)

1. start
2. Base = 2
3. product = base
4. product *= base
5. product * = base
6. product * = base
7. product
9. End

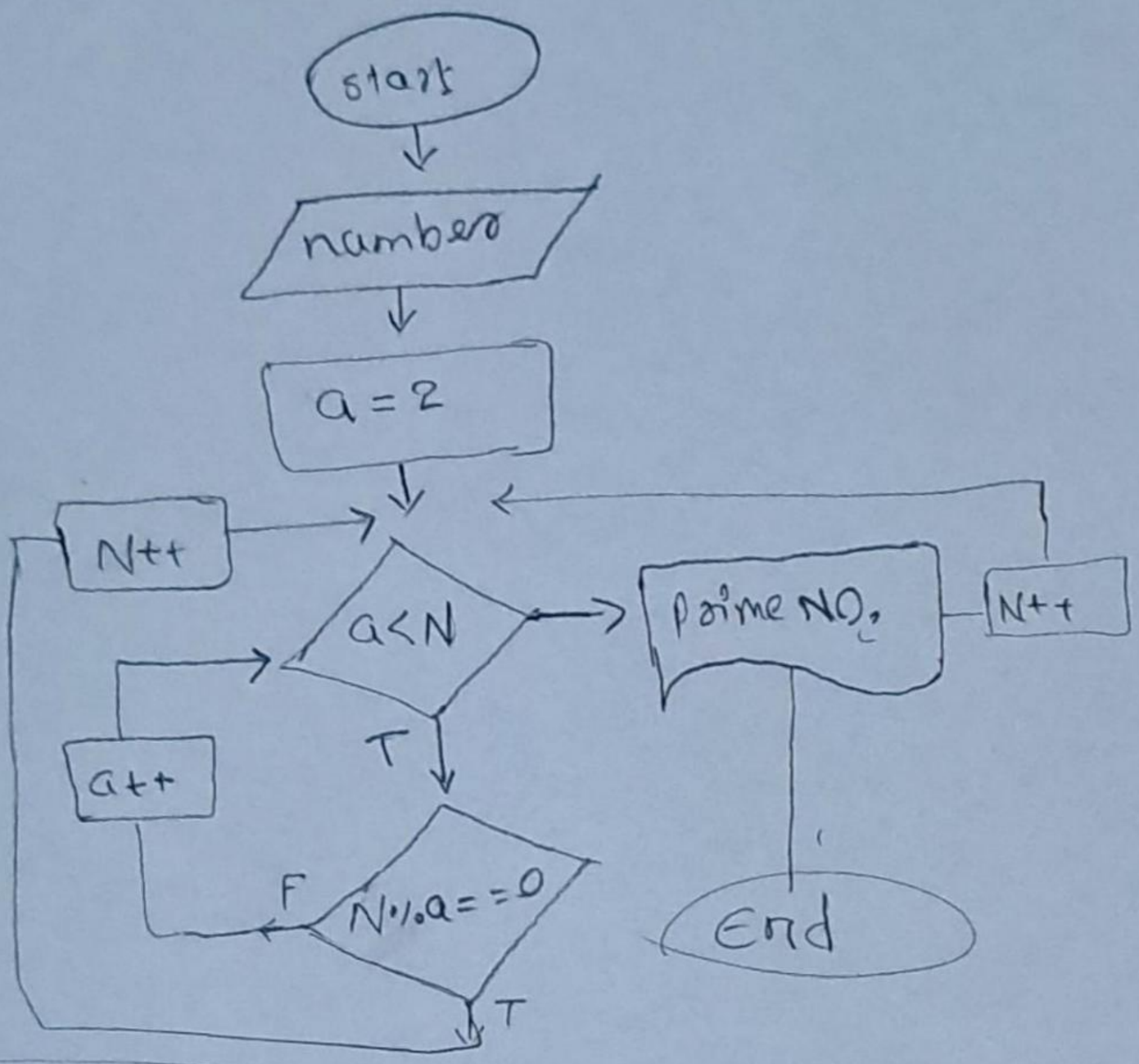


P = P×B
2 = 2×1 = 4

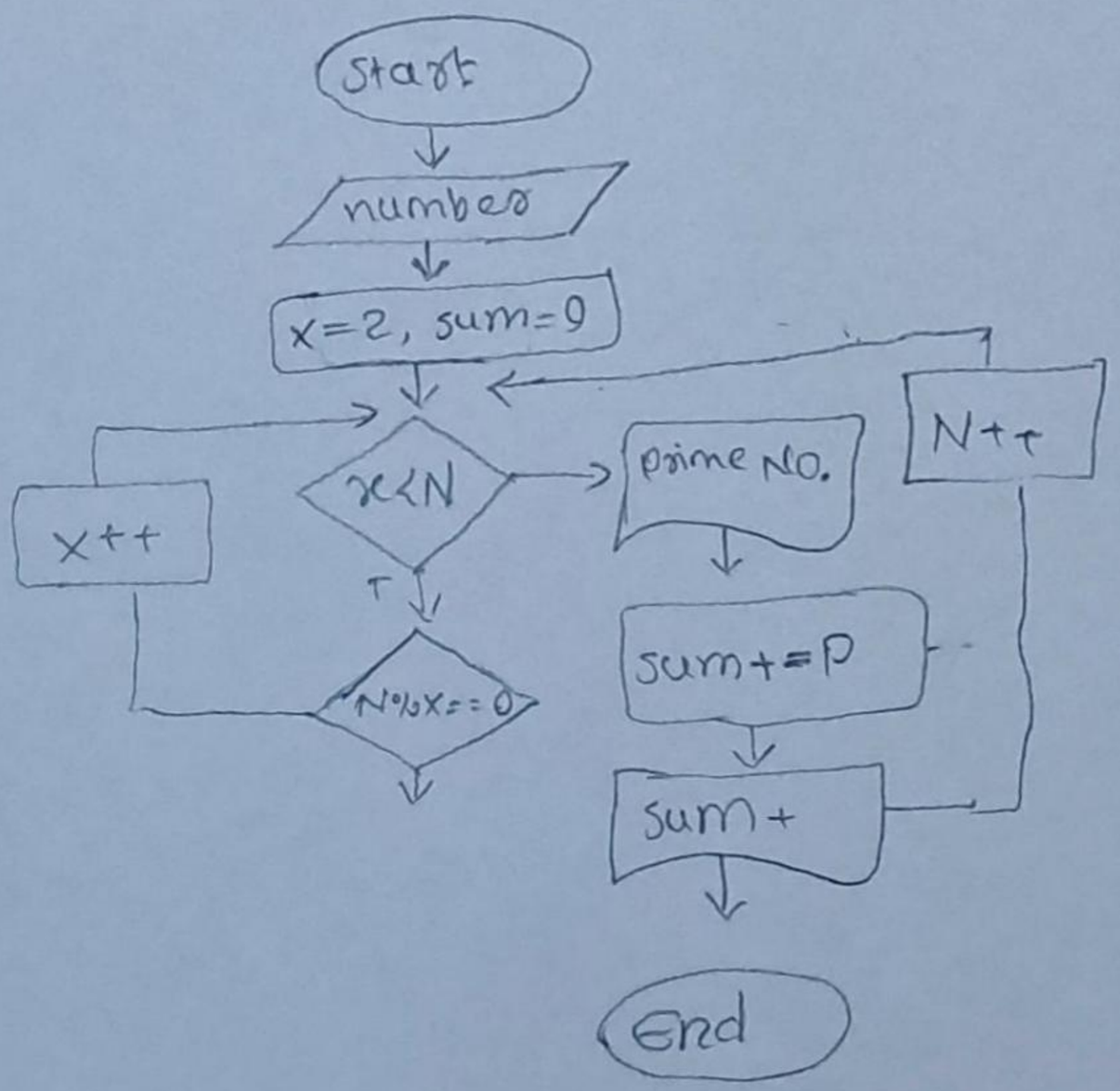
(6)



(7)



(8)



(9)

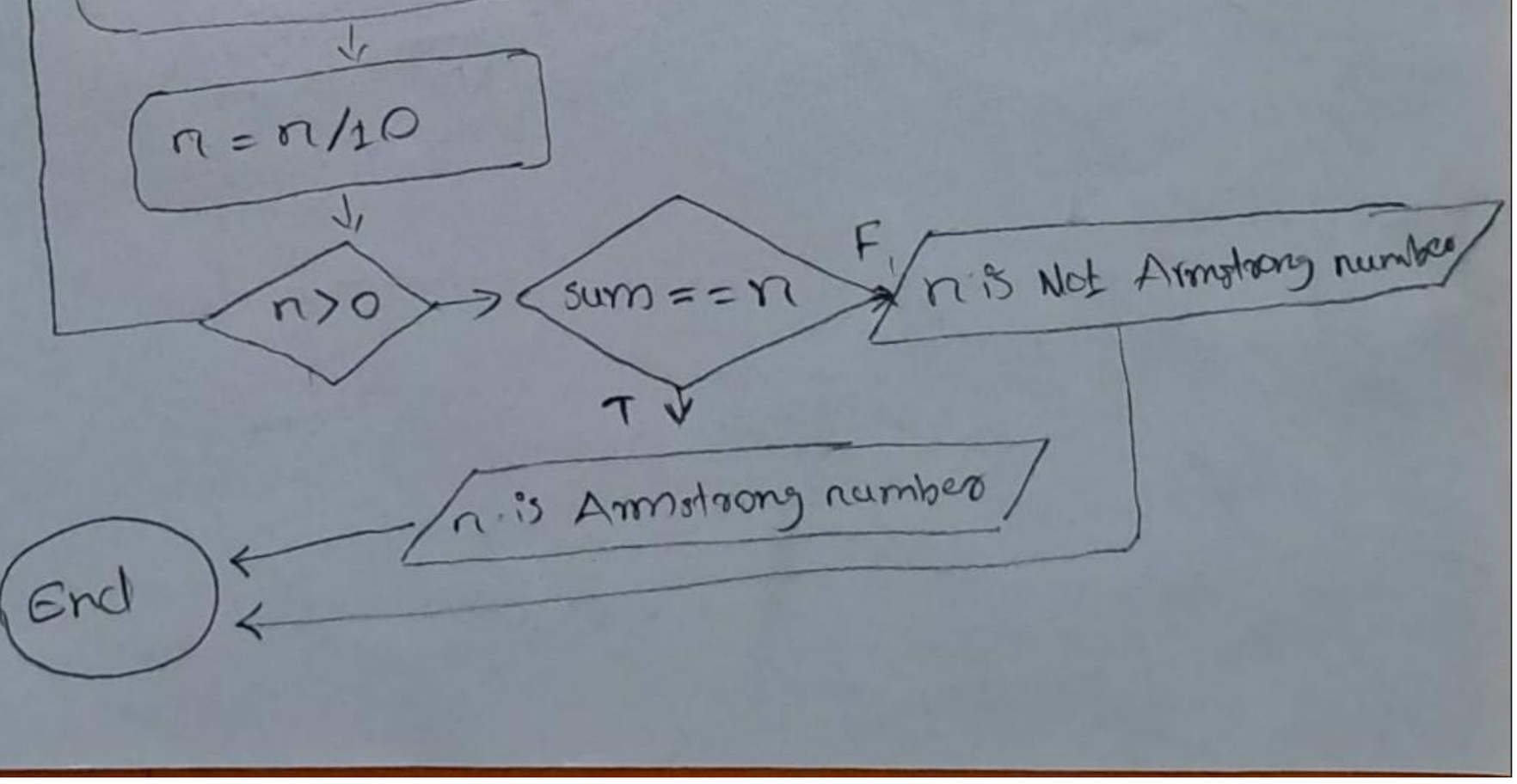
1. start
2. read n
3. sum = 0
4. number = n
4. rem = n % 10
5. sum = sum + (rem * rem * rem)
6. n = n/10
7: Repeat steps 4 to 6 until n > 0
8: is sum = number then
   Print "n is armstrong number"
   else,
   Print "n is not armstrong number".
9. stop.

153 = $1^3 + 5^3 + 3^3$ = 153

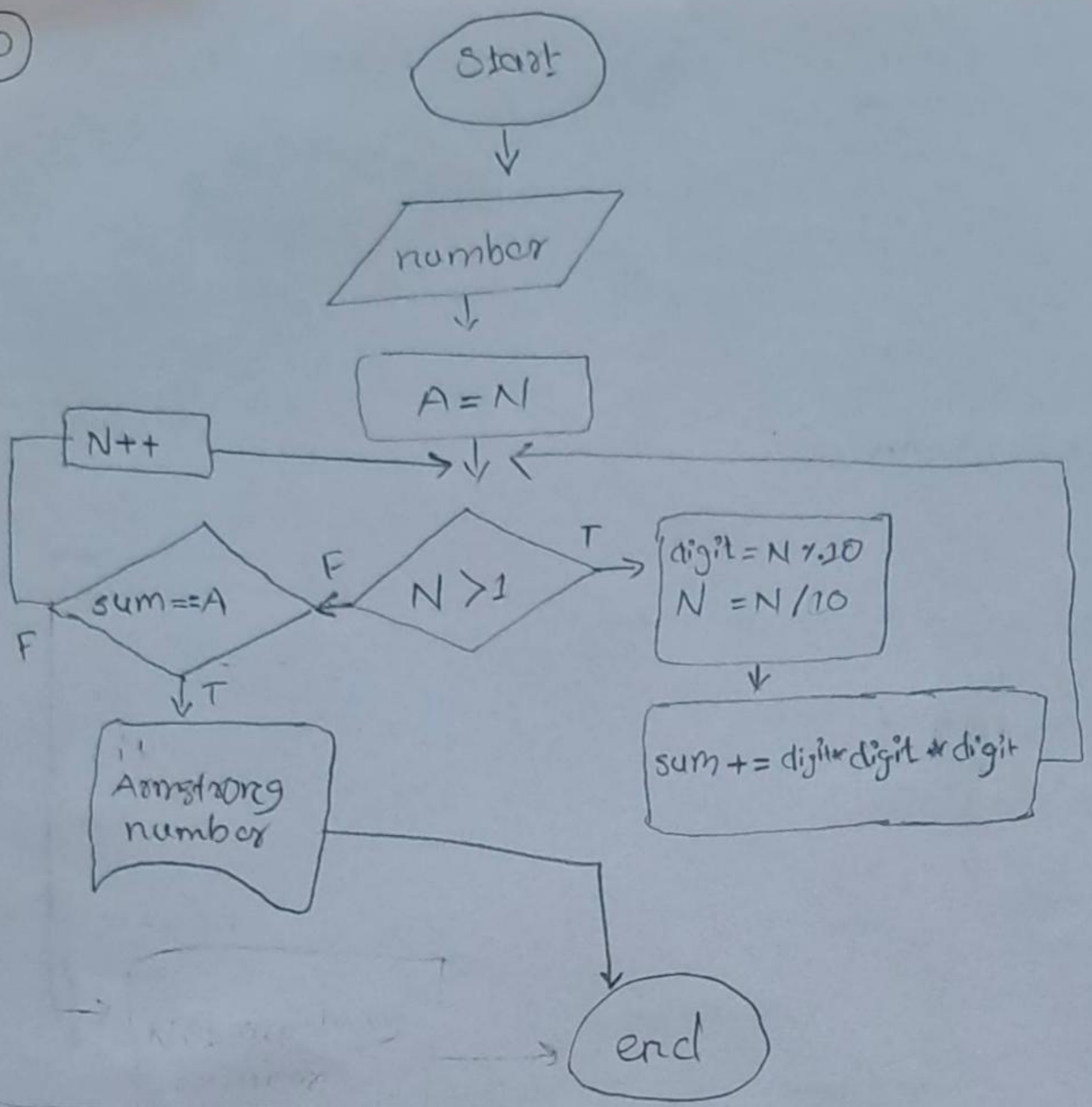
15
10 | 153
   | 10
   | 53
   | 50
   | 3 → (3³)

10

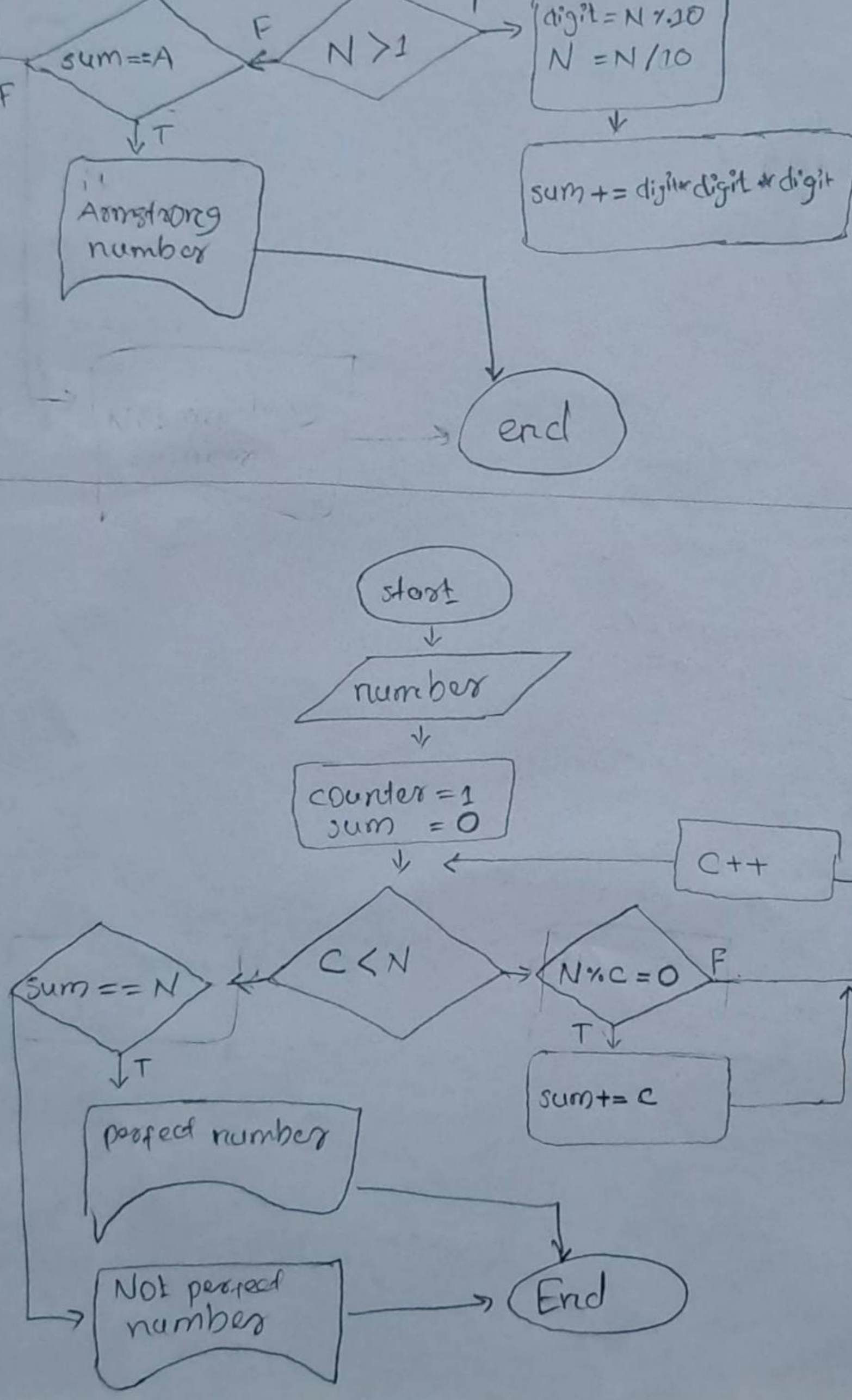
1
10 | 15
   | 10
   | 5 (5)



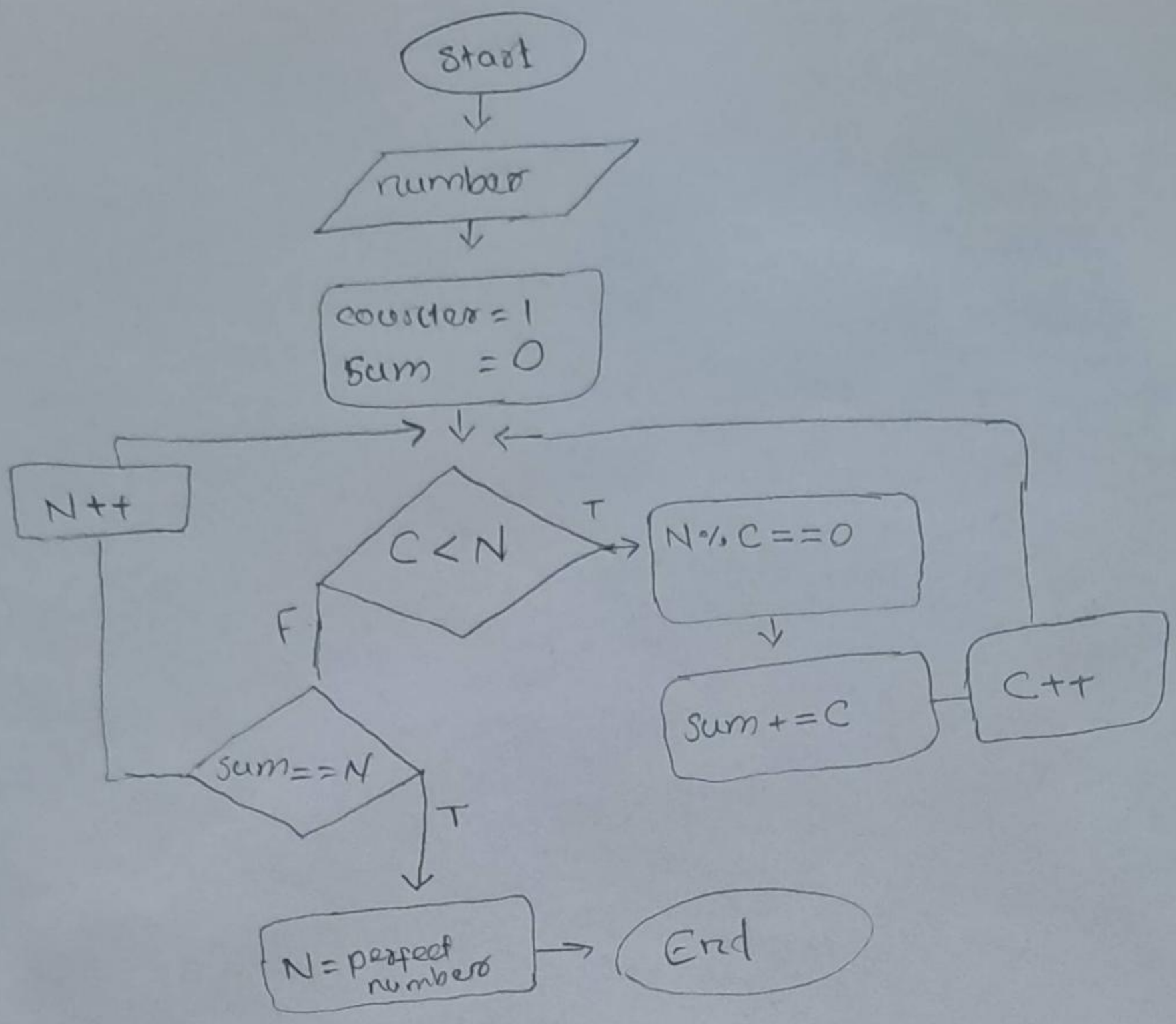
(10)



(11)



(12)



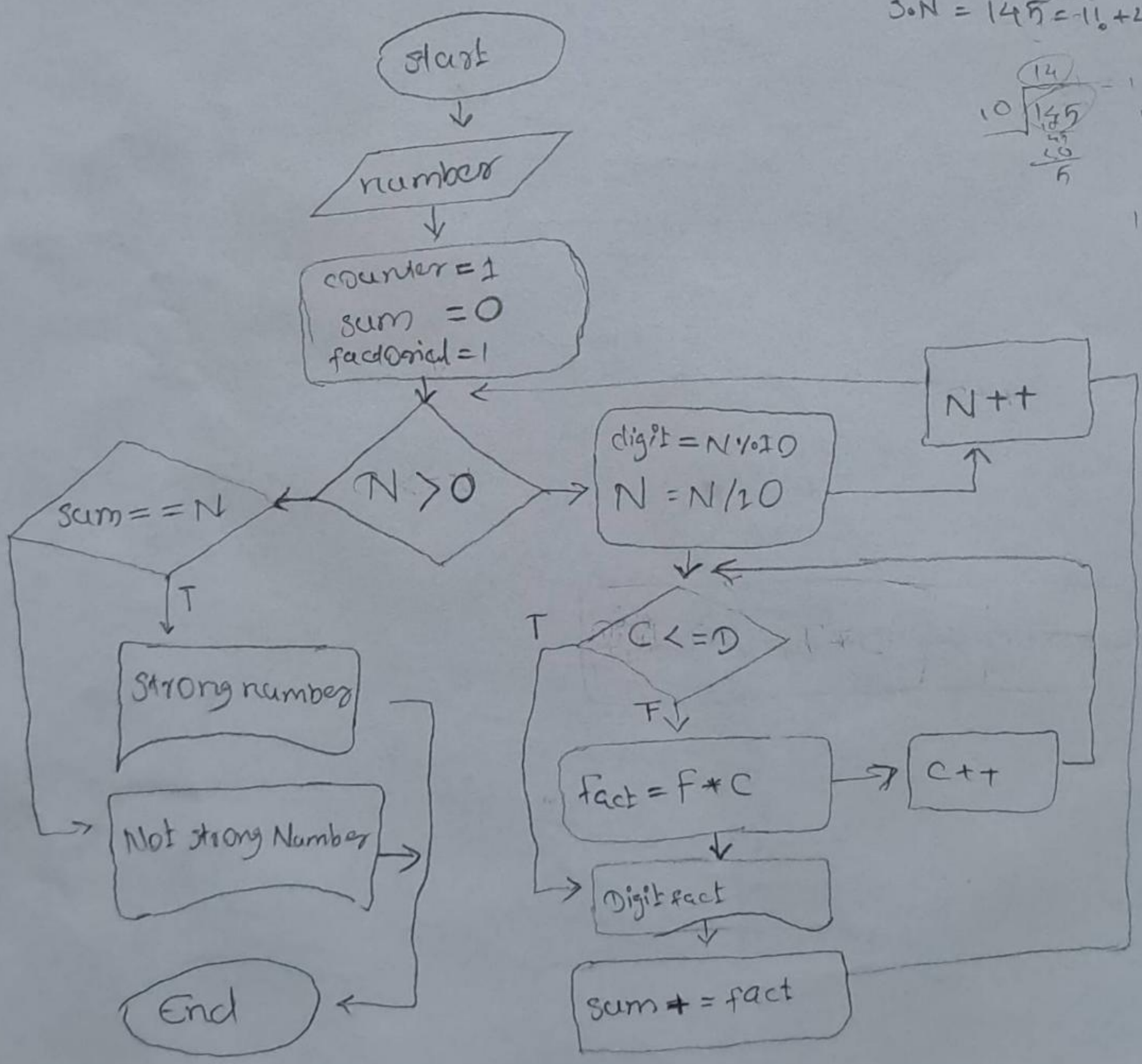
(13)

3.N = 145 = 1! + 4! + 5! = 145

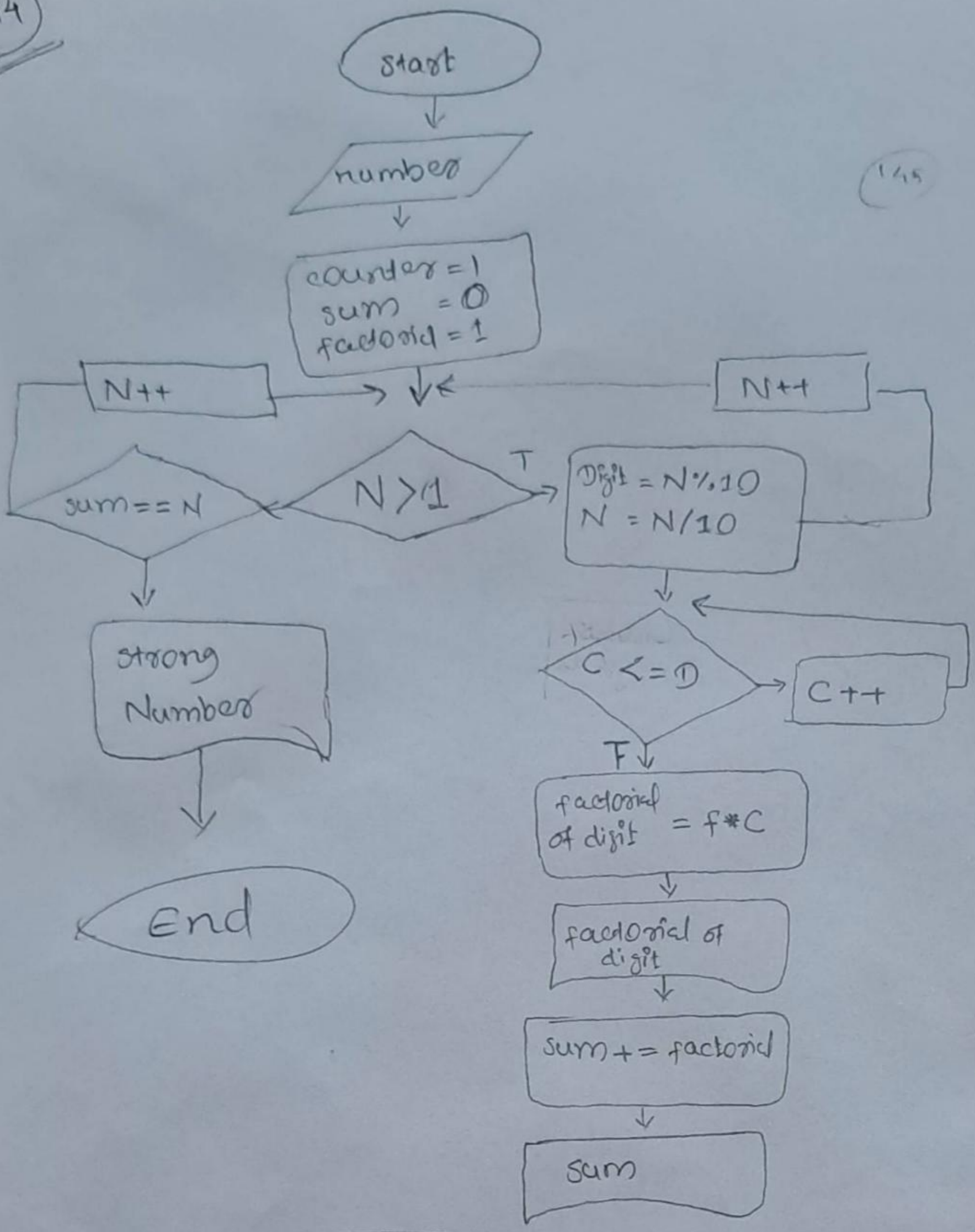
14 | 10
10 | 145
40
5

1 | 10
10 | 14
10
4

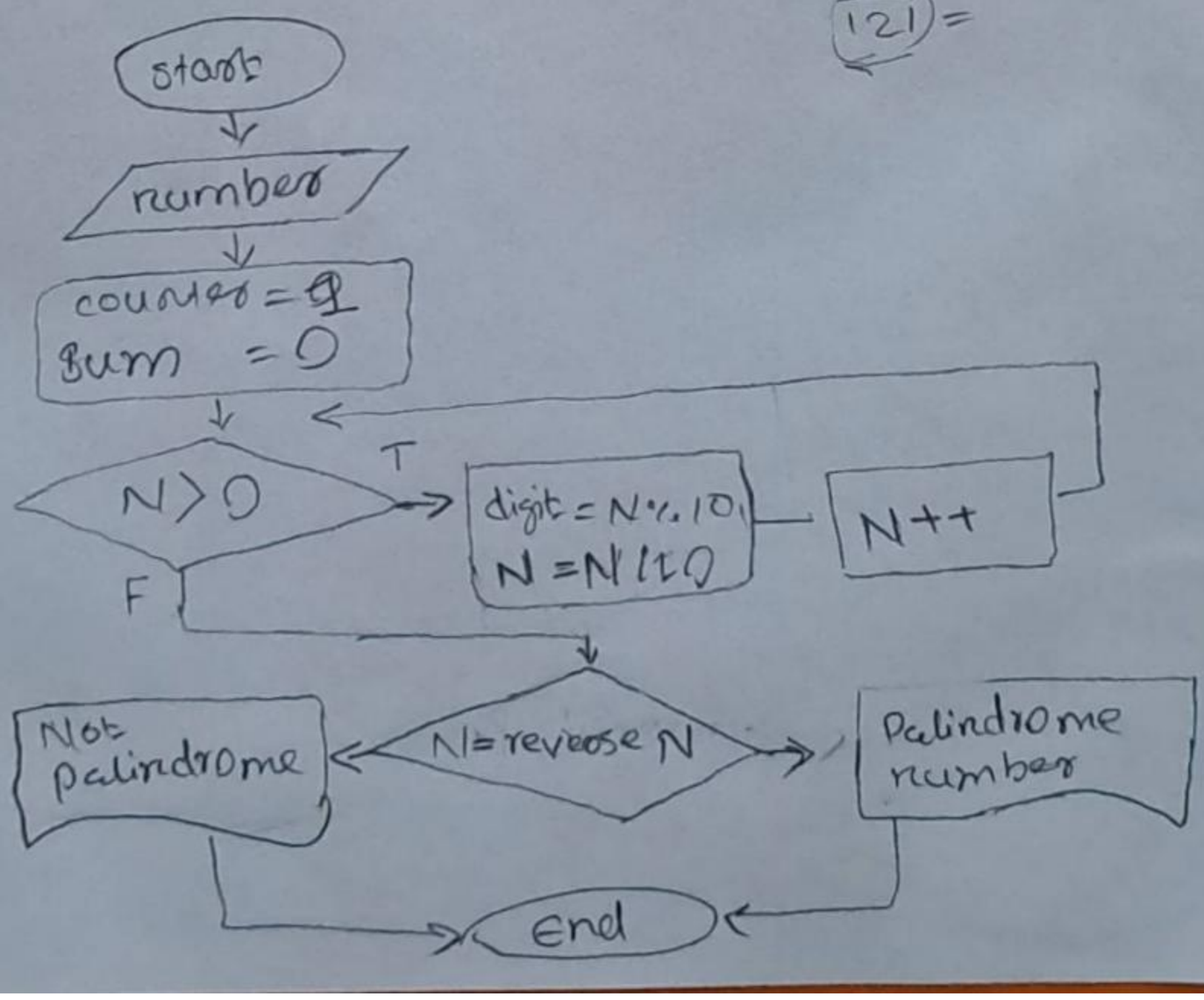
1, 4, 5



14



15

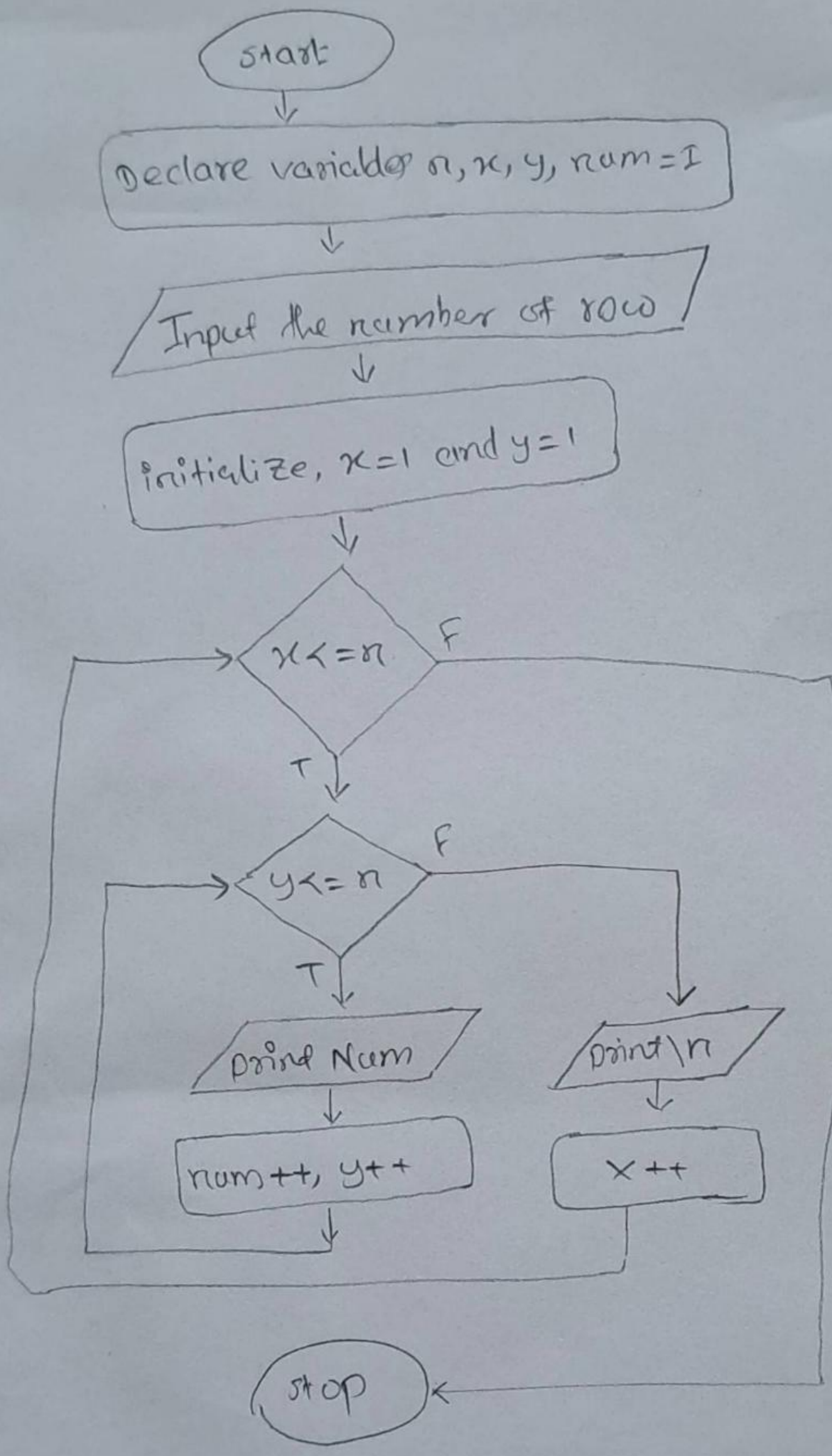


121 =

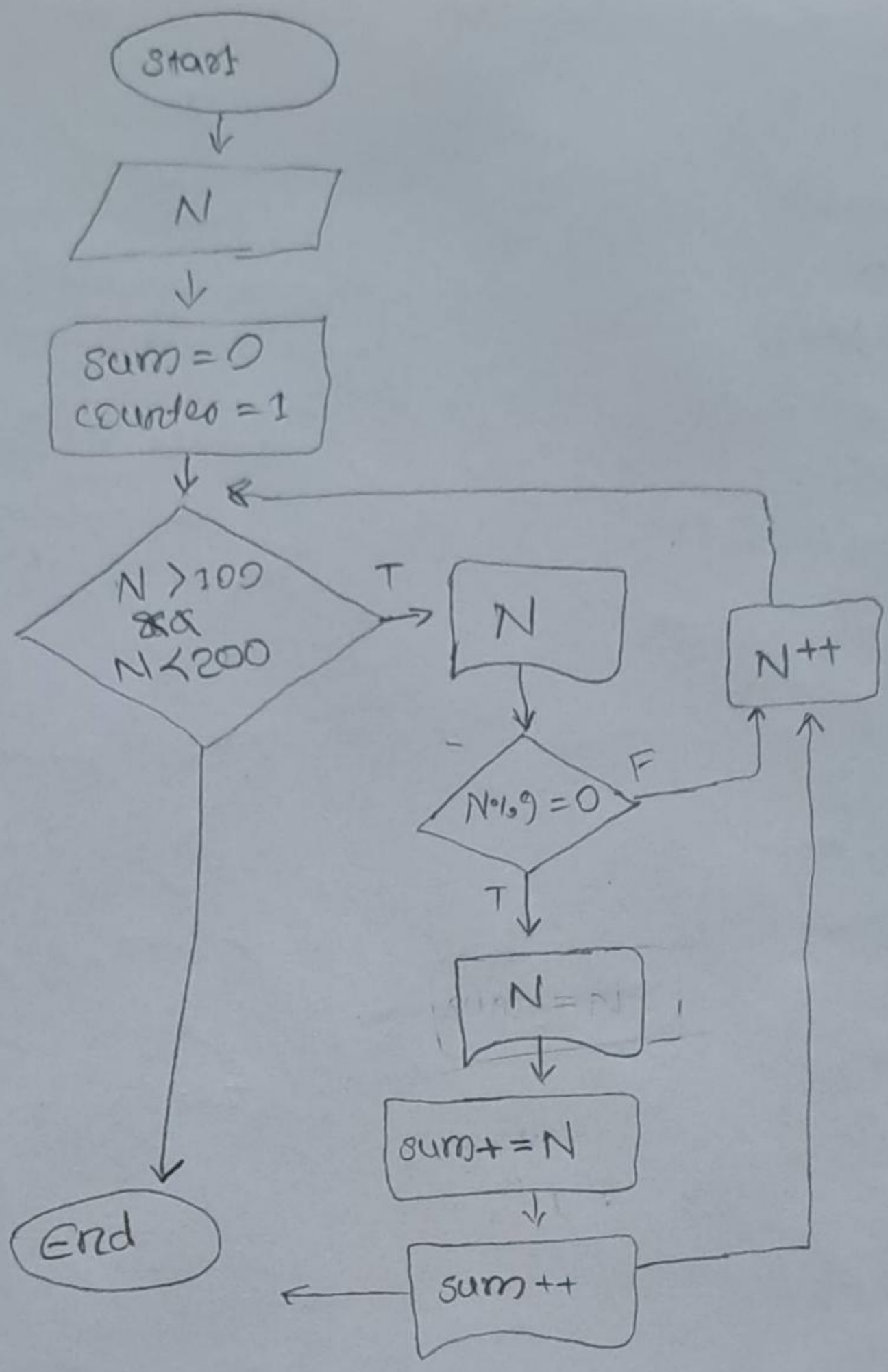
1

(18)

Floyd's Triangle



22



(25)

Pascal's Triangle

1. Start
2. Declare variable
   x, y, n, a, z, s
3. Enter the limit
4. Initialize the value of variables,
   s = n, x = 0, y = 0, z = 5
5. Do the following operation in loop
   (a) x = 0 to n
   (b) a = 1, x++
   (c) z = s to 0
   (d) print space
   (e) z--
   (f) y = 0 to x
   (g) print a
   (h) a = a*(x-y)/(y+1)
   (i) y = y+1
   (j) go to nex line
6. Repeat the process to n
7. Print the final required triangle
8. stop.