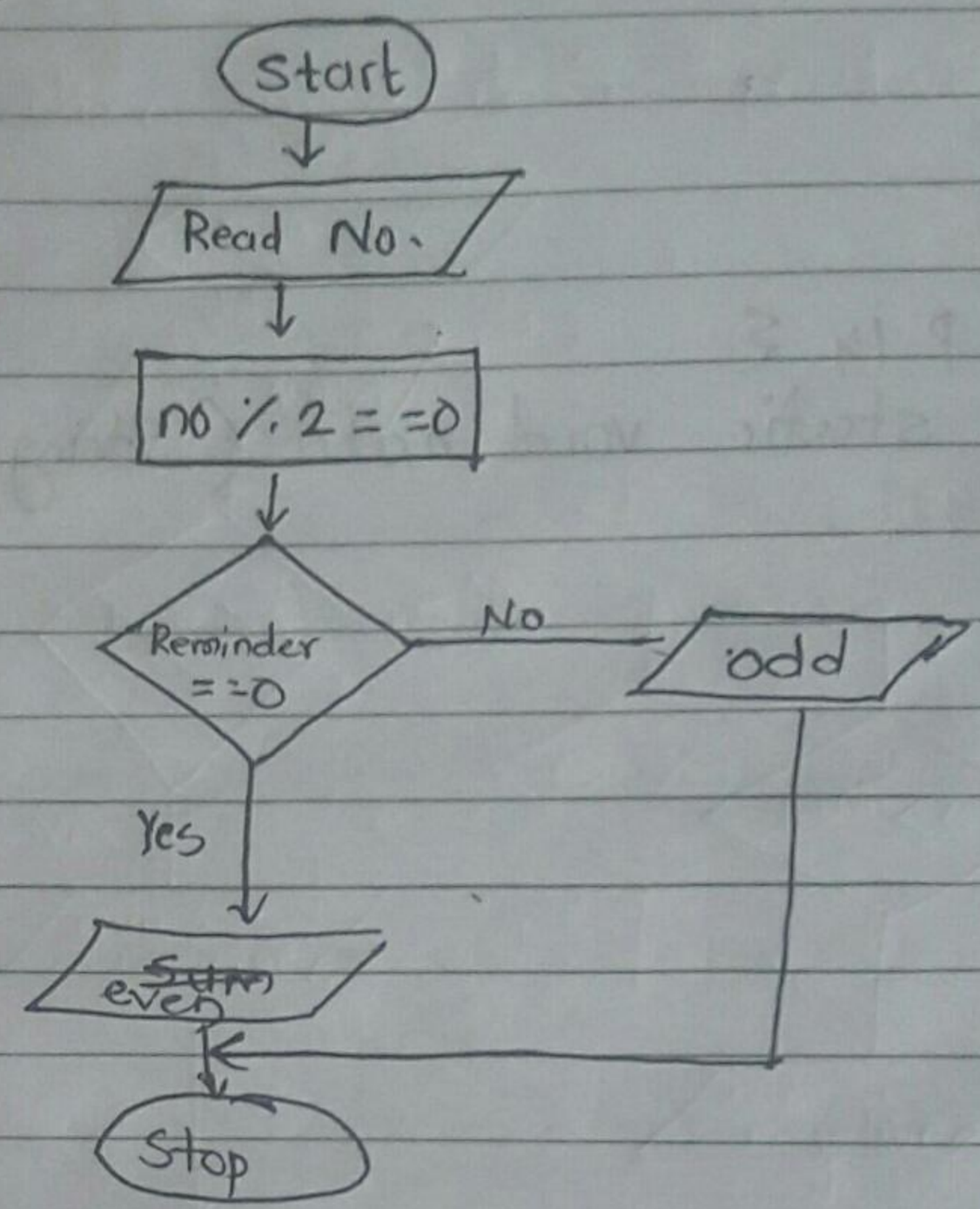
Assignment - 1

Q 1) Check if the given number is Even or Odd.

Flowchart →

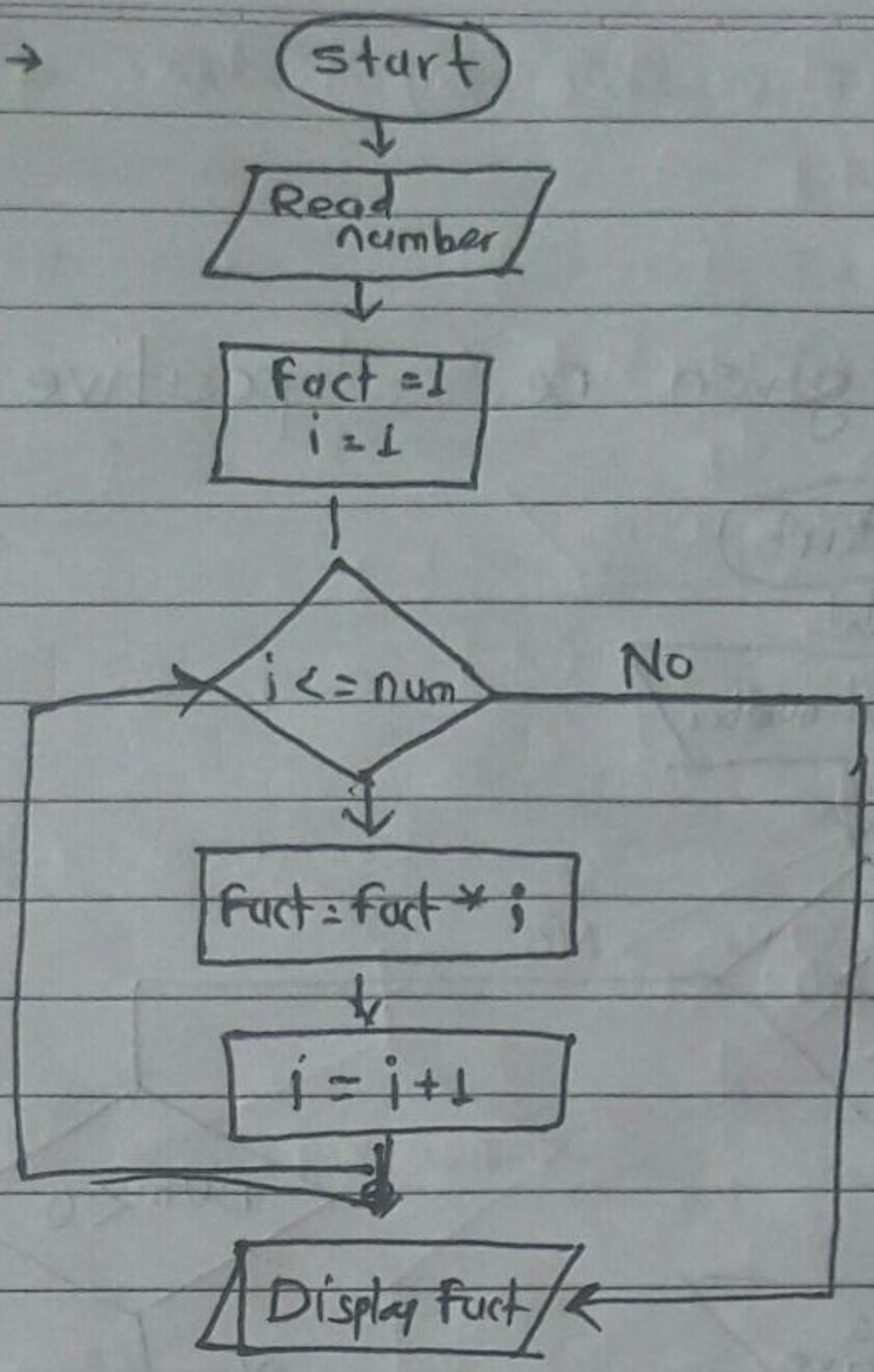


Algorithm → 1] start
2] Read no.
3] If no. is divisible by 2 then no. is even
4] no. is not divisible by 2 the no. is Odd

Q 2] Find factorial of given number.

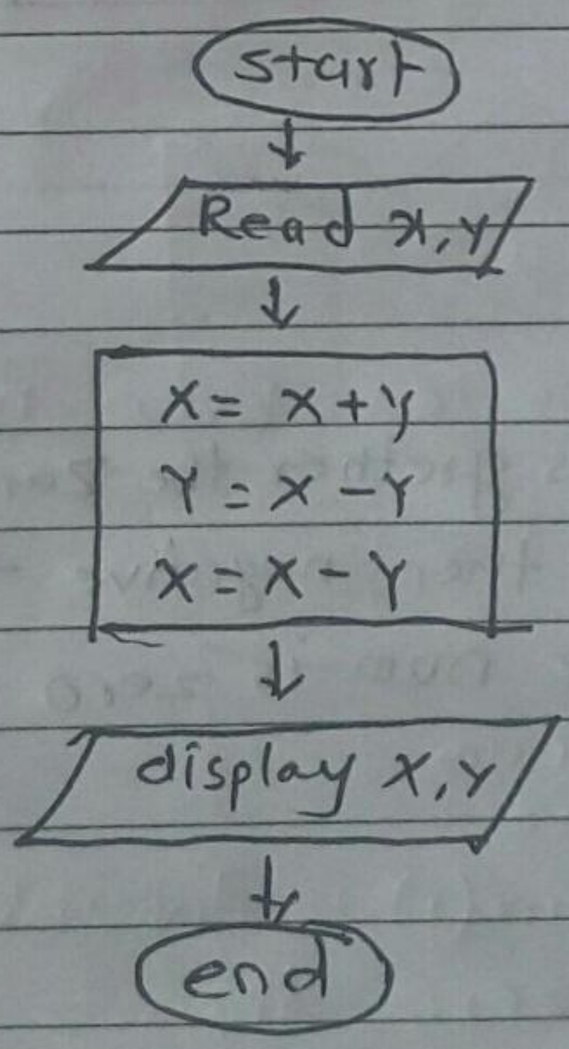
Algorithm → 1] start
2] Read num.
3] Fact = 1 , i = 1 set
4) Check i<= number it false go to stop
5) else fact = fact * i
6) then i = i + 1 again check condn. (step4)
7) display fact.
8) stop

Flowchart →



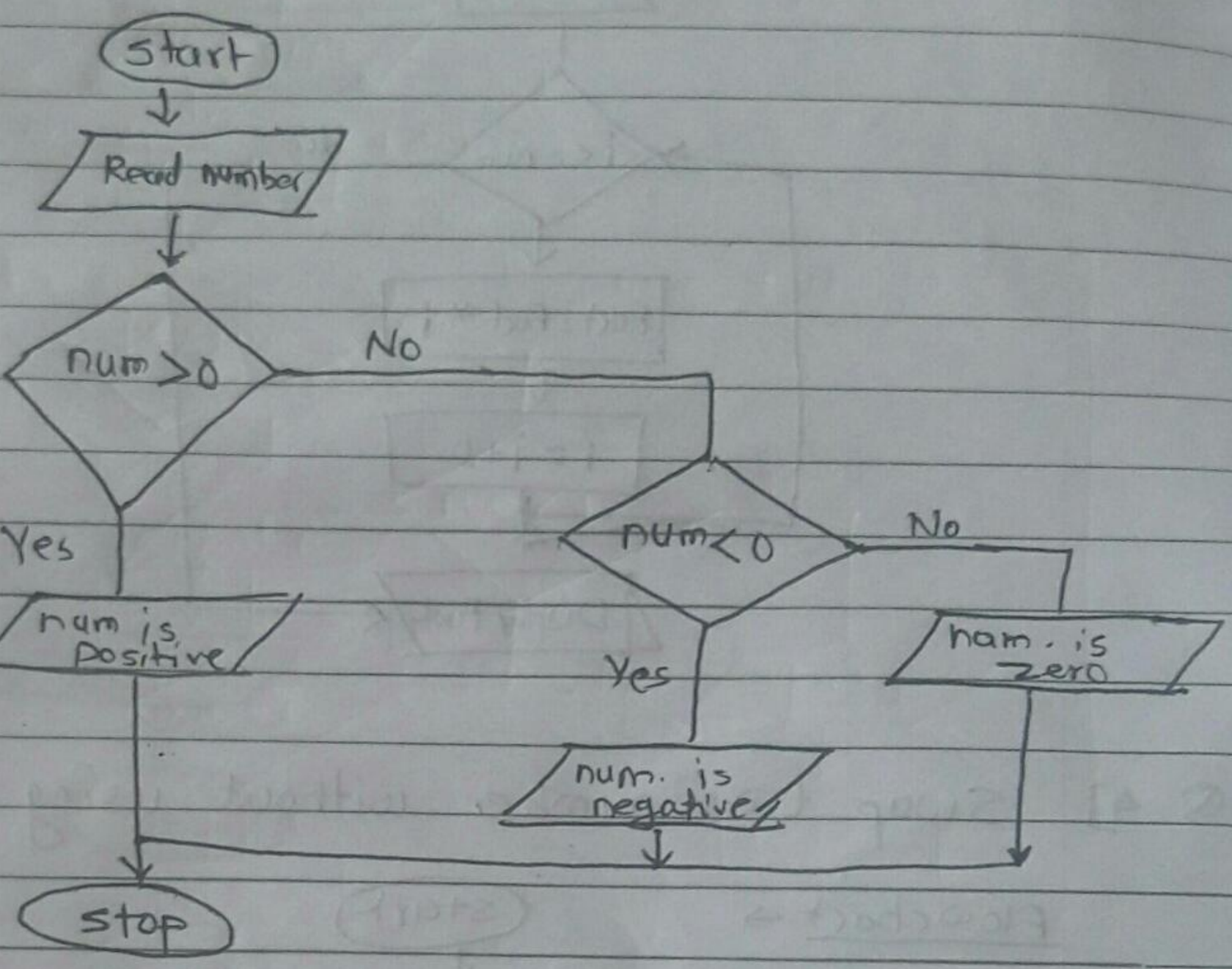
Q 4] Swap two number without using 3rd variable

Flowchart →



Q.5) Check wheather given no. is positive / negative

flowchart →



algorithm → 1) Start

2) Read num.

3) if num is grether the zero the positive & stop

4) if else num < 0 then negative & stop

5) else num is zero

6) end.

Q.6) Find wheather given number is leap year or not.

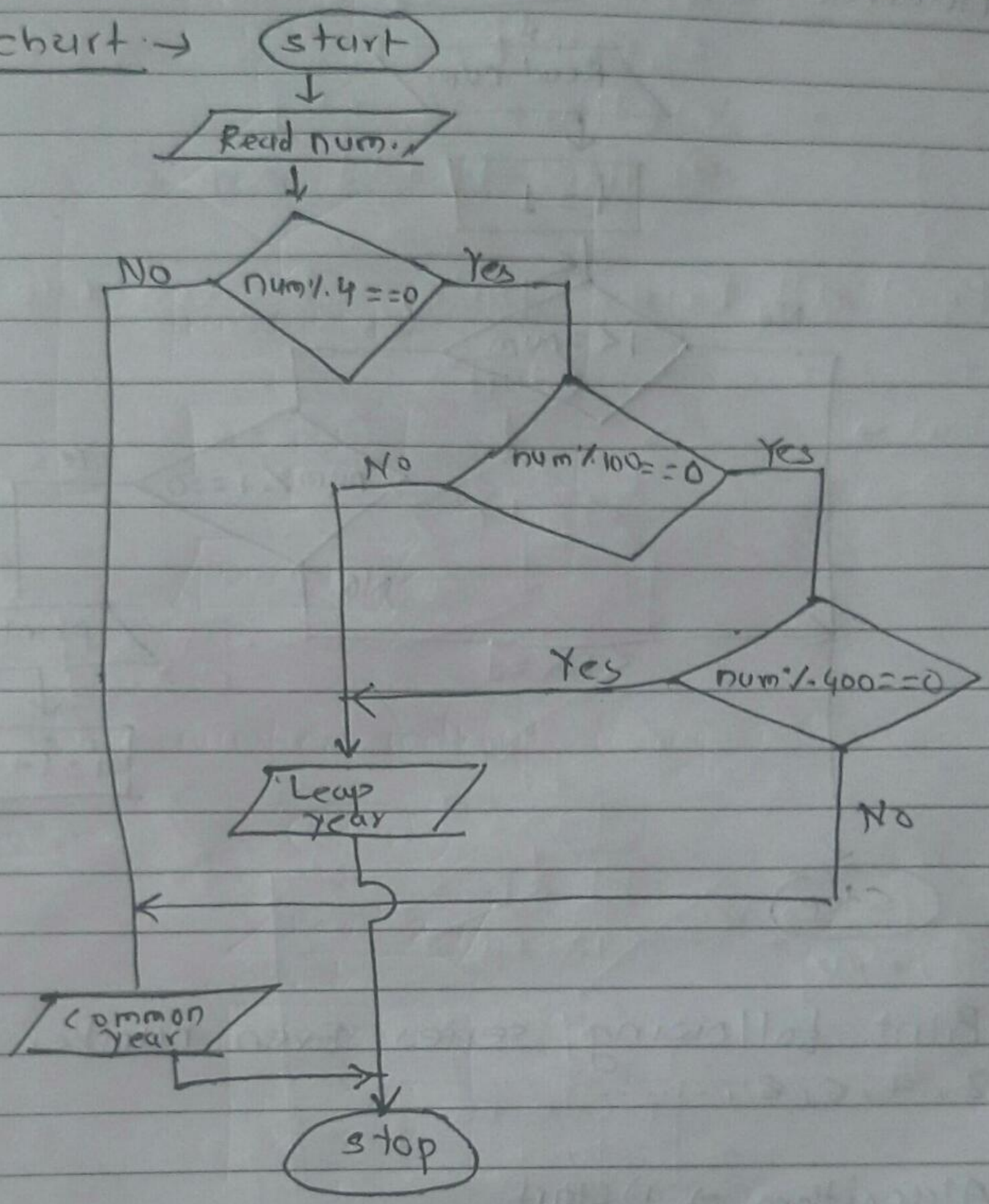
algorithm → 1) Start

2) Read number

3) Check number %.4 == 0

4) then check num %. 100 == 0 the not leap year
5) otherwise check num %. 400 == 0. when & reminder is zero the Leap year otherwise Not.

Flow chart →

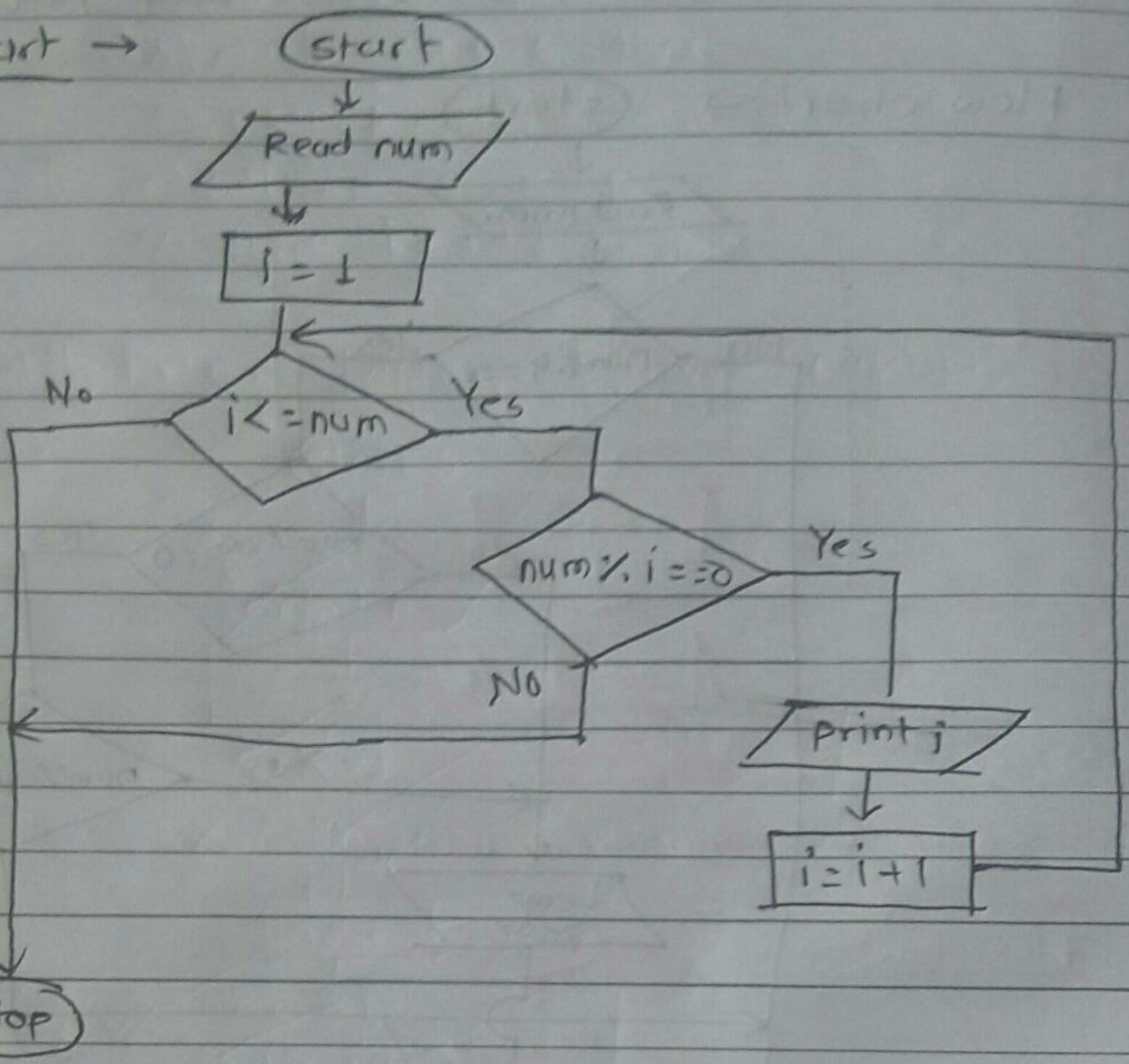


Q.9) Print all factors of given number.

Algorithm → 1) start
2) Read number
3) set i = 1
4) i <= number check if it is not then stop.
5) i <= number then check input number is divisible by i or not

6) number is divisible by i then print
7) then i = i + 1

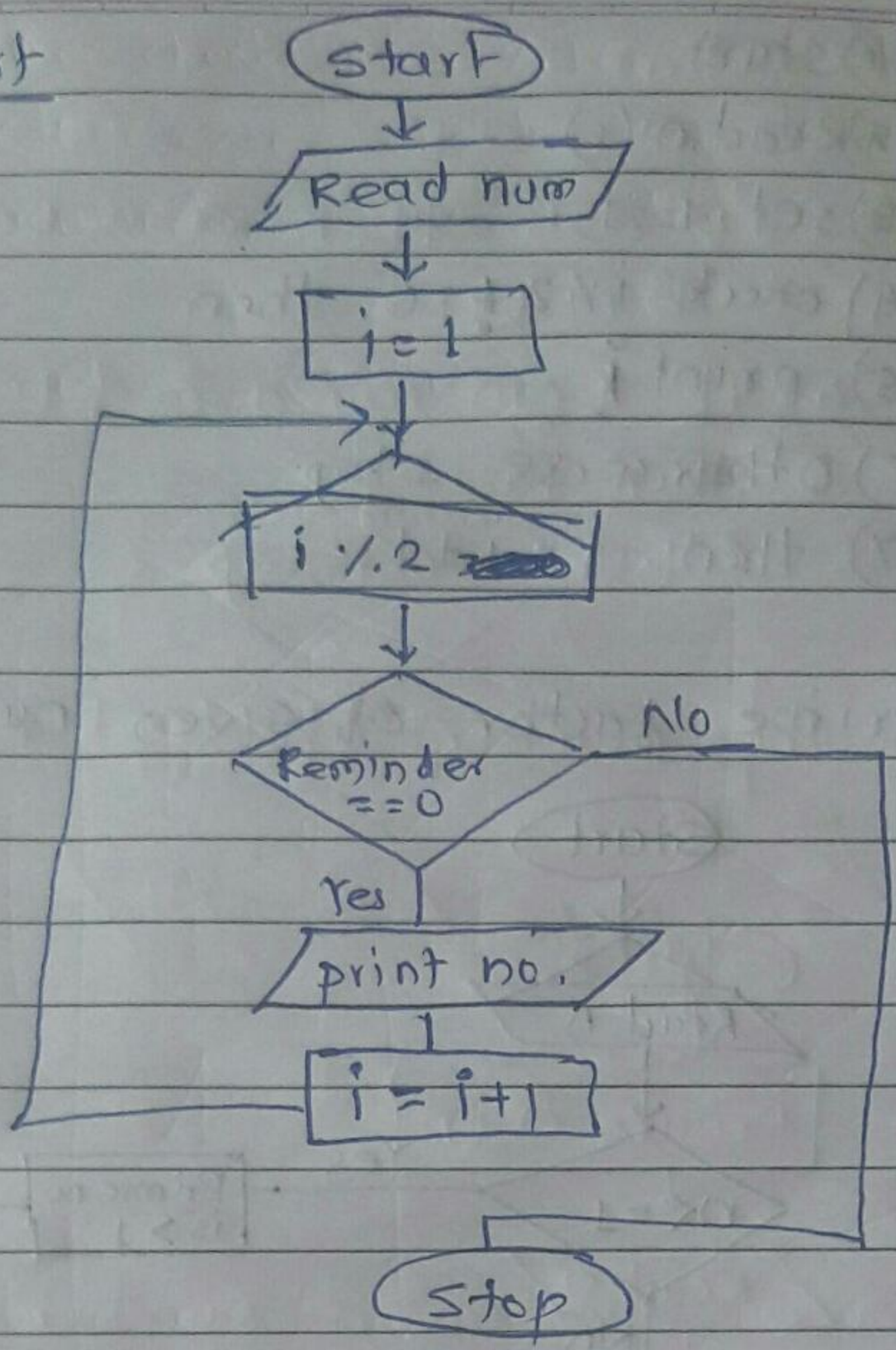
Flowchart →



19] Print following series Even number series
2, 4, 6, 8, ...

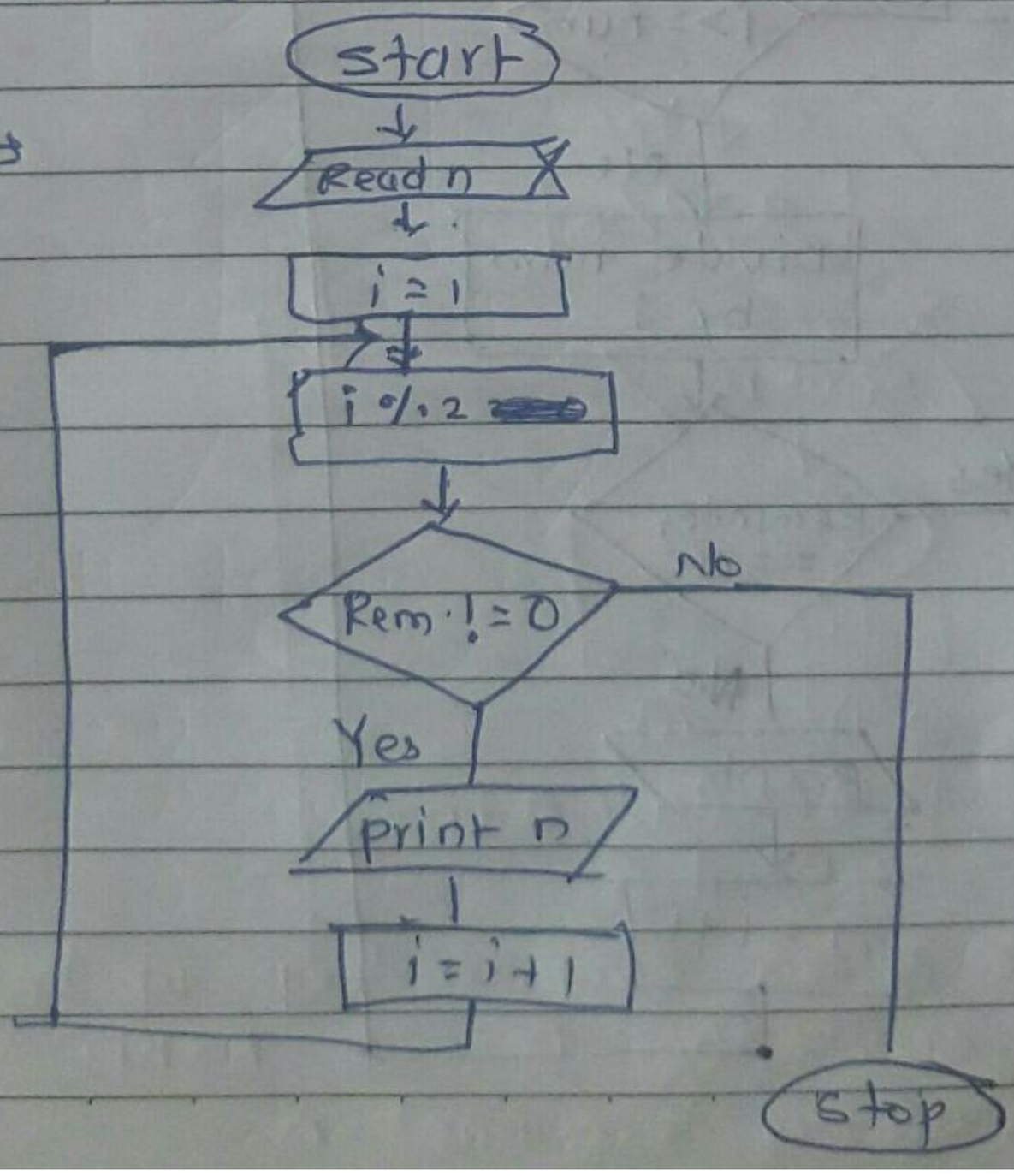
Algorithm → 1) Start
2) Read num
3) Set i = 1
4) If num(i) is divisible by 2 and reminder is zero then
5) Display num(i)
6) then i = i + 1

Flowchart



20] Print following series ODD number series
1, 3, 5, 7, 9, ----

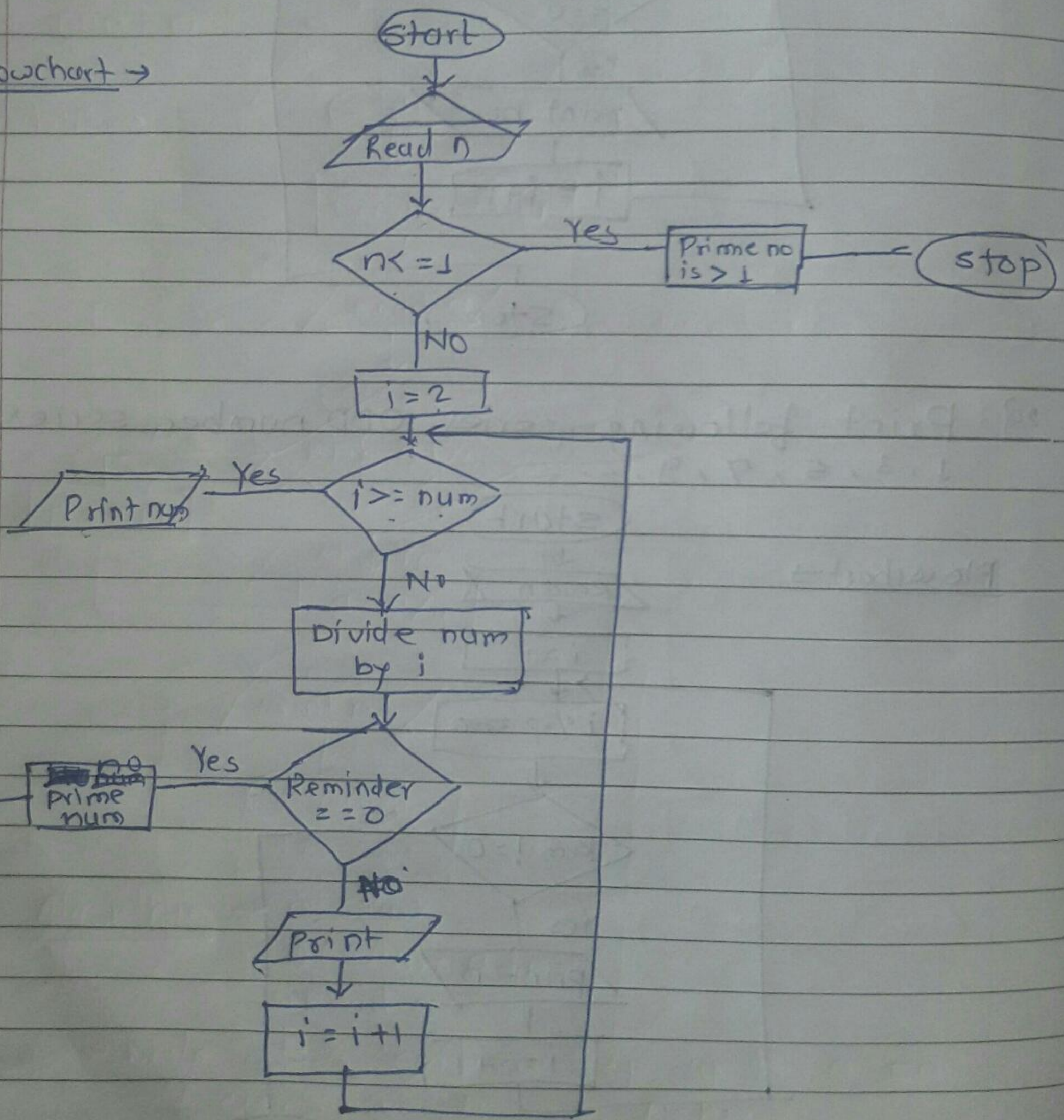
Flowchart →



Algorithm → 1) start
2) Read n (i)
3) set i = 1
4) check i % 2 != 0 then
5) print i
6) otherwise stop
7) then i = i + 1

18) Print all Prime factor of given number.

Flowchart →



Algorithm → 1) start

2) Read n.

3) n<=1 then stop

4) set i=2

5) i>=n then print number

6) Otherwise n/2

7) Reminder ==0 then stop

8) Otherwise print num

9) then i = i+1

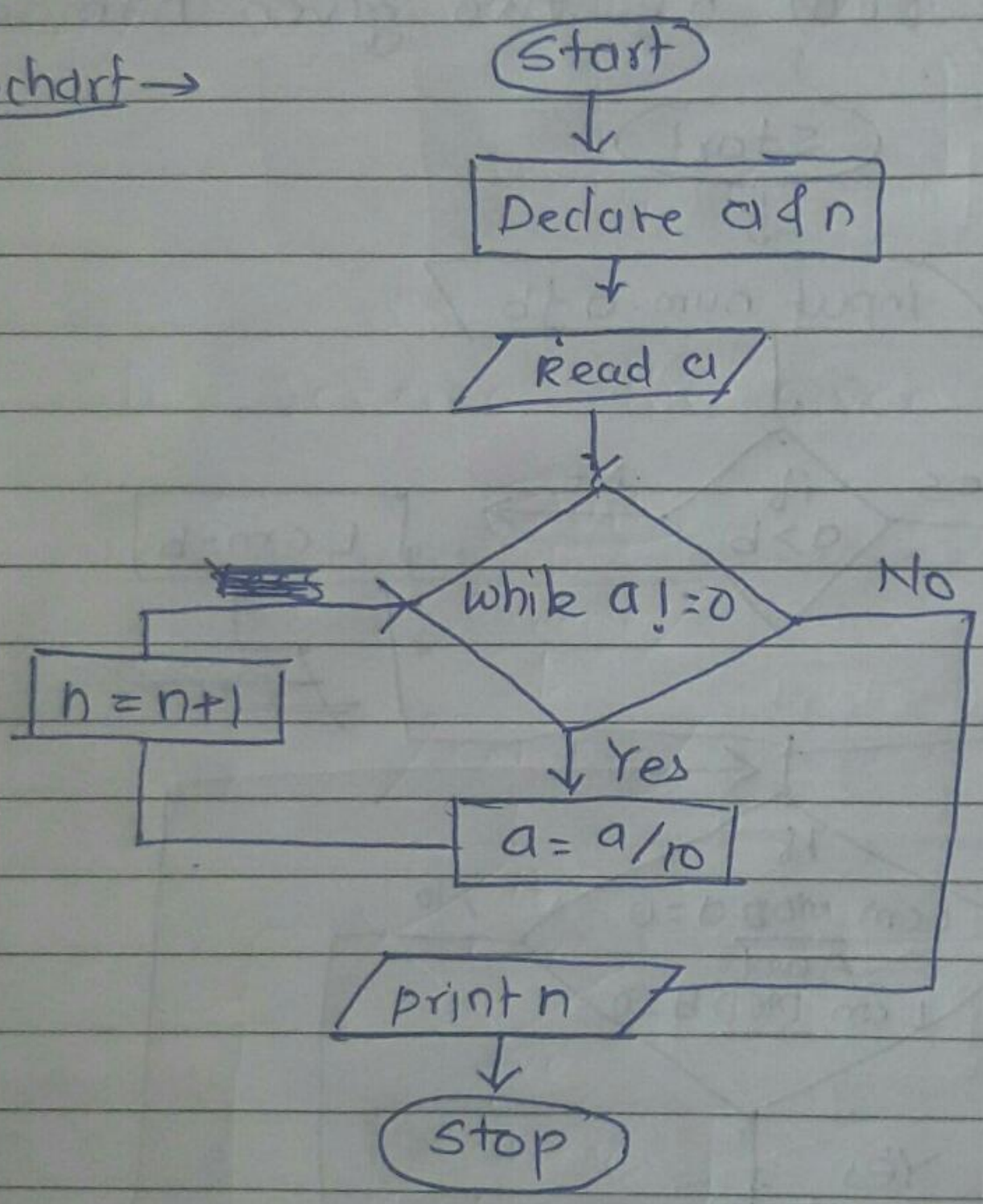
15] Program to LCm of two given number.

Flowchart →

Algorithm → 1) Start
2) Read n
3) If a>b then a is Lcm otherwise b is Lcm
4) if Lcm mod a=0 & Lcm mod b=0 then print
5) Otherwise stop

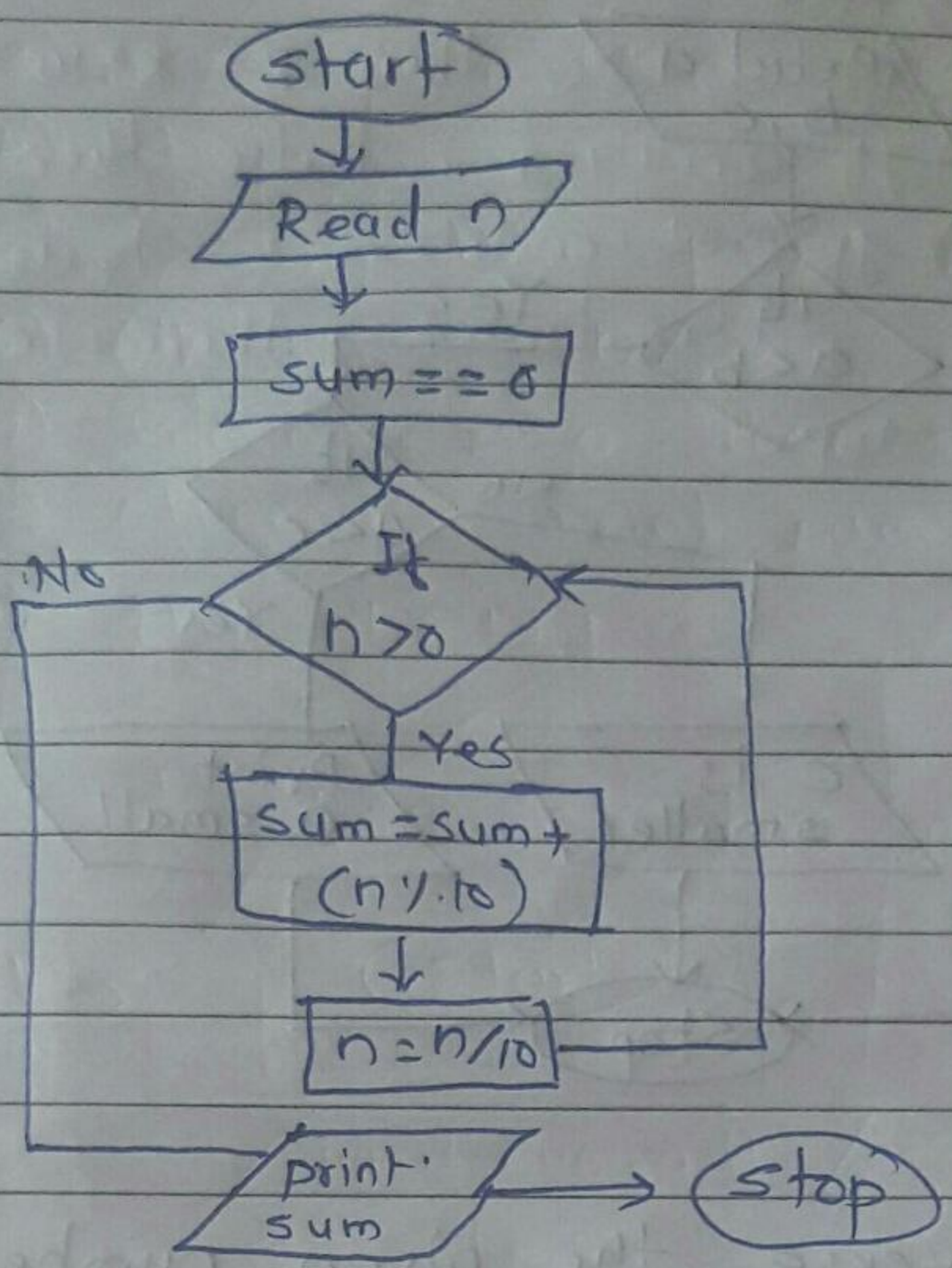
8] To count the number of digit ~~of digit~~ in number

Flowchart →



Algorithm → 1) start
2) Declare a & n=0
3) Read a
4) While a!=0 continue loop up to a=!=0 & count the n n=n+1
5) If a==0 then print n
6) Stop

10) To find the sum of digit of given number.



Algorithm → 1) start

2) Read number n

3) Set sum == 0

4) Compare n if n>0 then sum + (n % 10) &
n = n/10 otherwise print sum

5) stop

11) To find smallest no. of given 3 no.

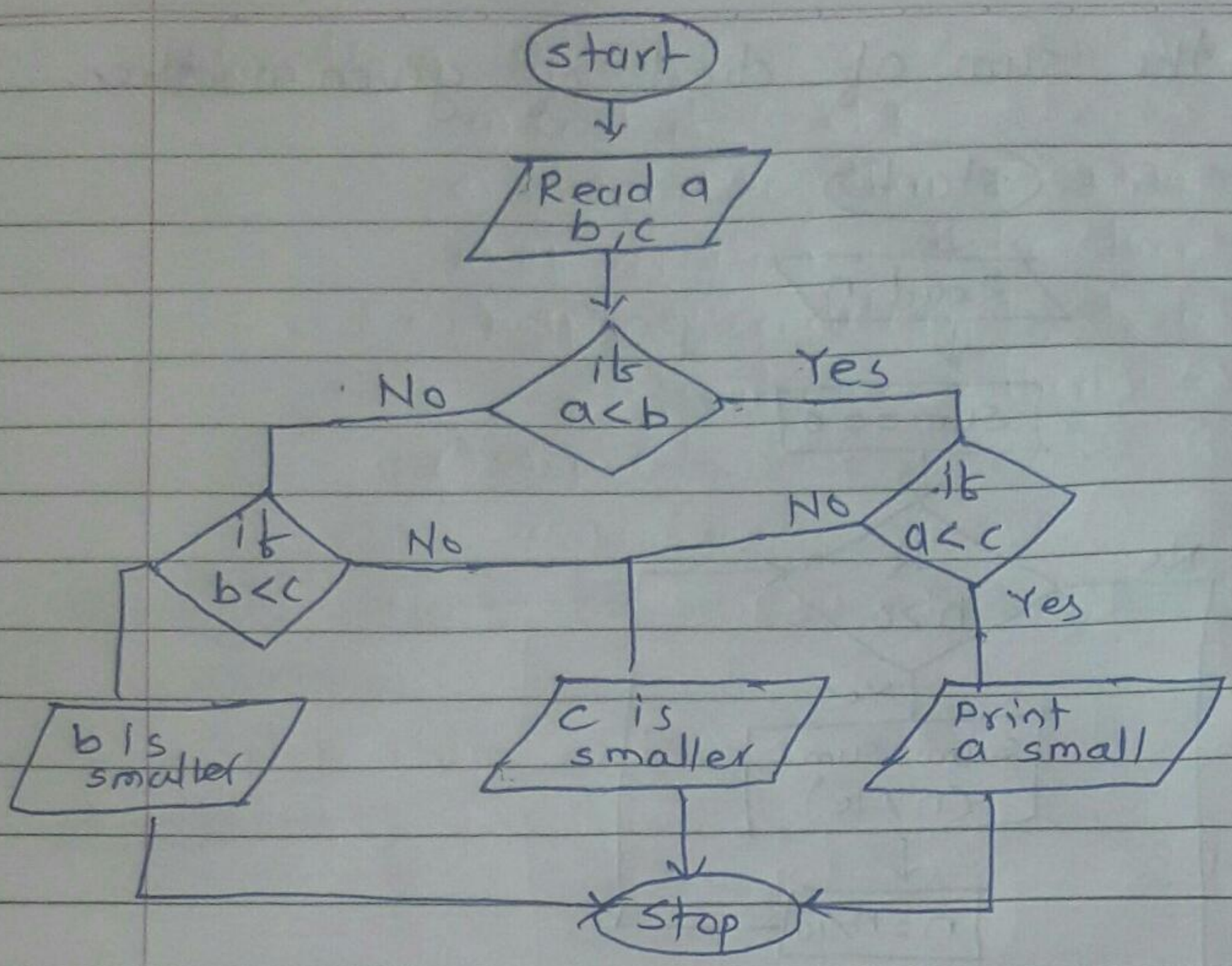
Algorithm → 1) start

2) Read a, b, c

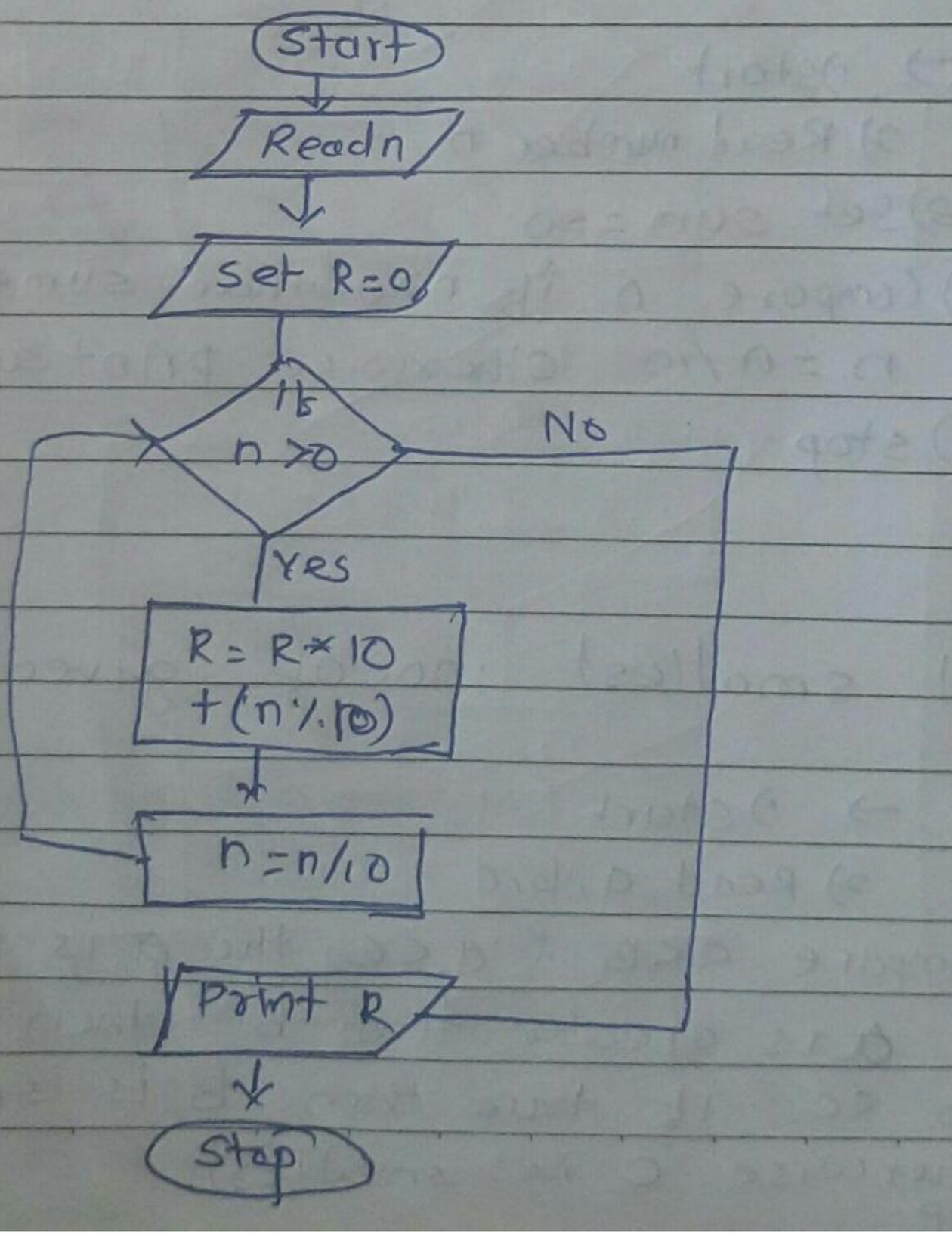
3) compare a<B & a<C the a is smallest

4) If a is greater than b then compare
b <c if true then b is smallest
otherwise C is smallest.

5) stop.



13) To reverse the given number.



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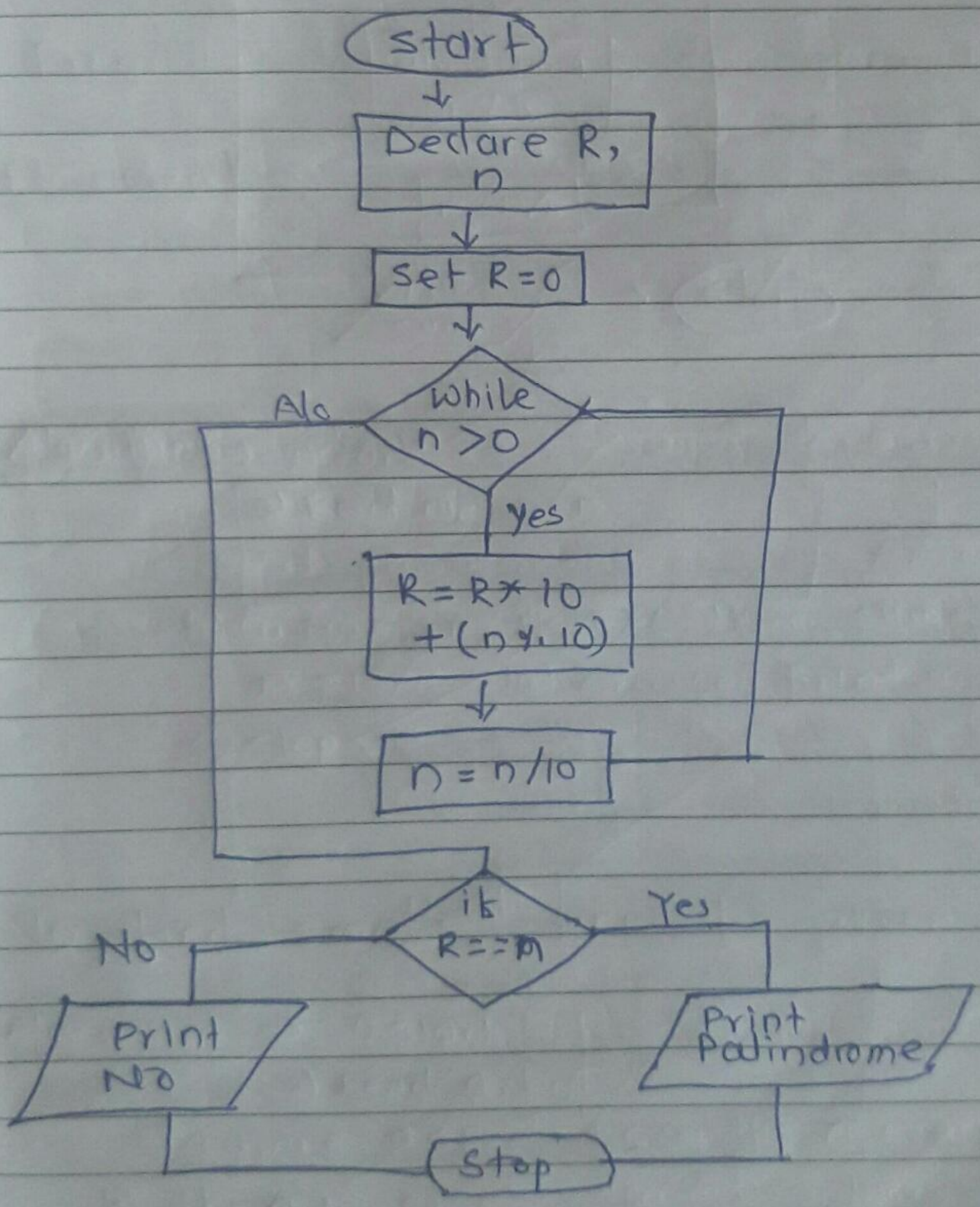
Algorithm → 1) start
2) Read n & set R=0
3) while n>0 then R=R*10+(n%10) & n=n/10
4) If condition false then print R value
5) stop.

17) To find out the number is palindrome or not.



Algorithm → 1) start

2) Read n & set R

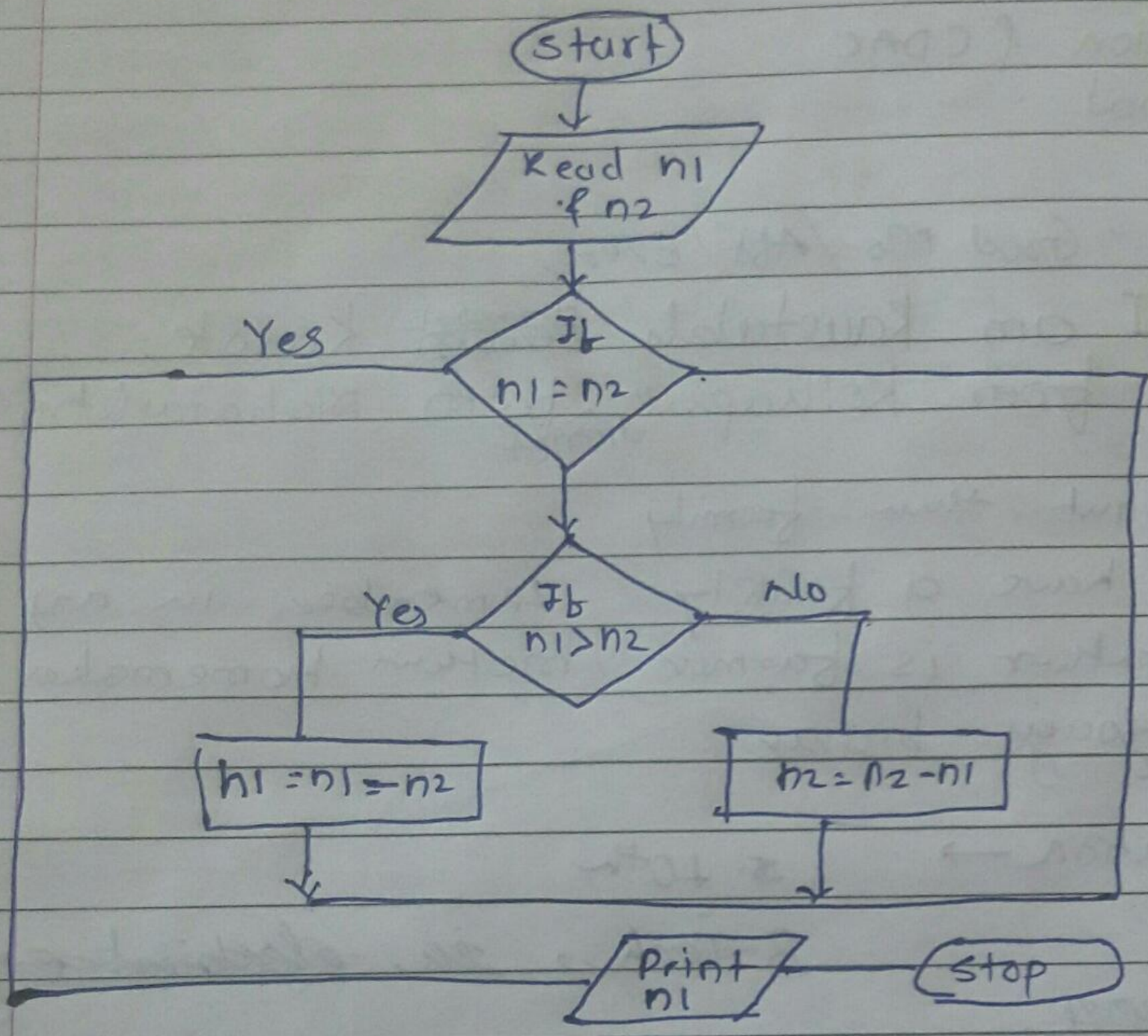
3) while n>0 then R = R*10 + (n%10) & n = n/10

4) If condition is false then check R == n

5) If 2nd condition is true then no. is palindrome otherwise no.

6) stop.

14) To find out GCD of given two number.



① start
② Read n1 & n2
③ Check upto n1 = n2 if it is true print n1
   & it is false then check code & &
⑤ Compare n1 > n2 if it is true the n1 = n1 - n2
   otherwise n2 = n2 - n1 continue loop
⑤ stop