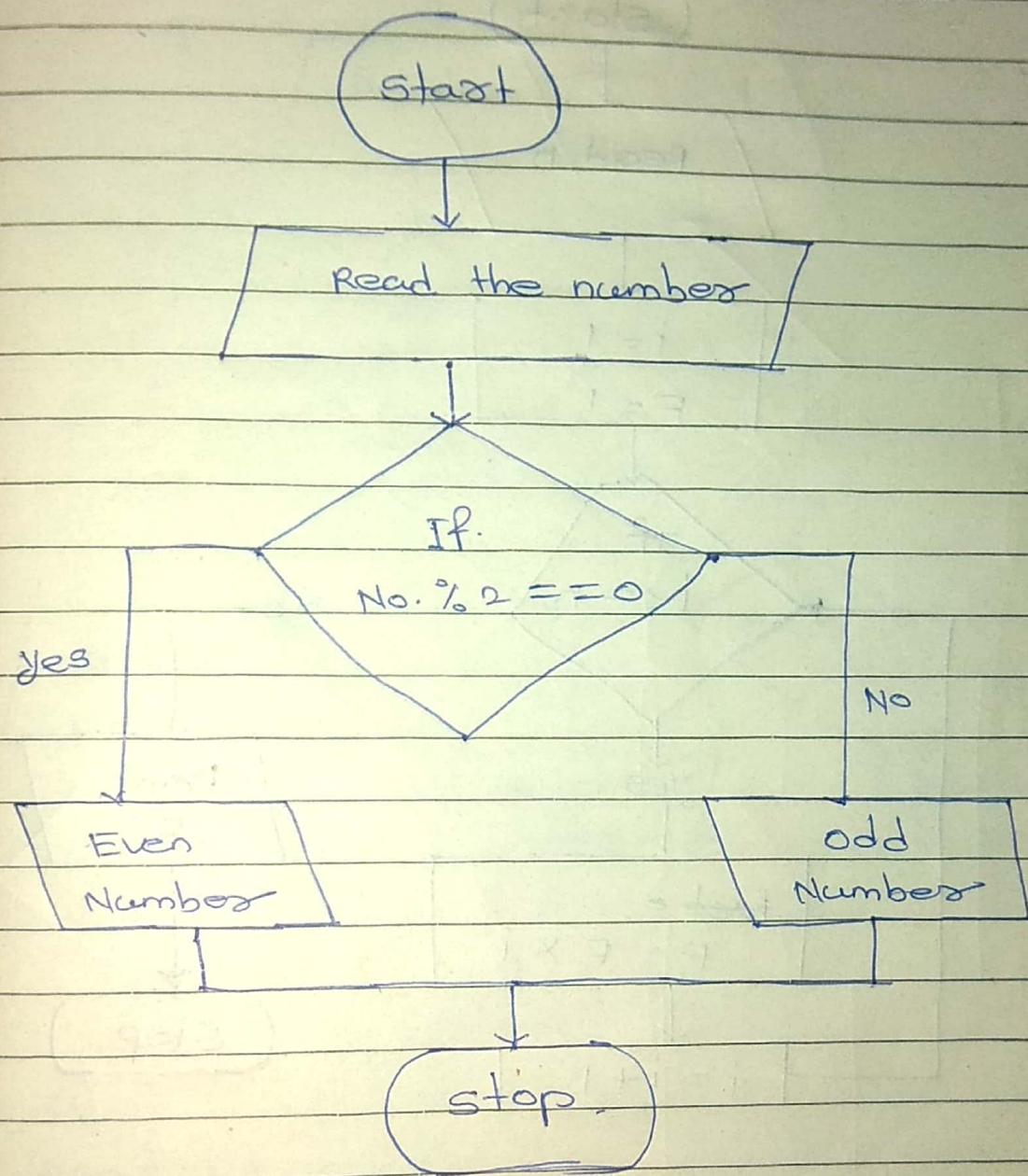


① check if the given number is even or odd



read number

remainder = number % 2

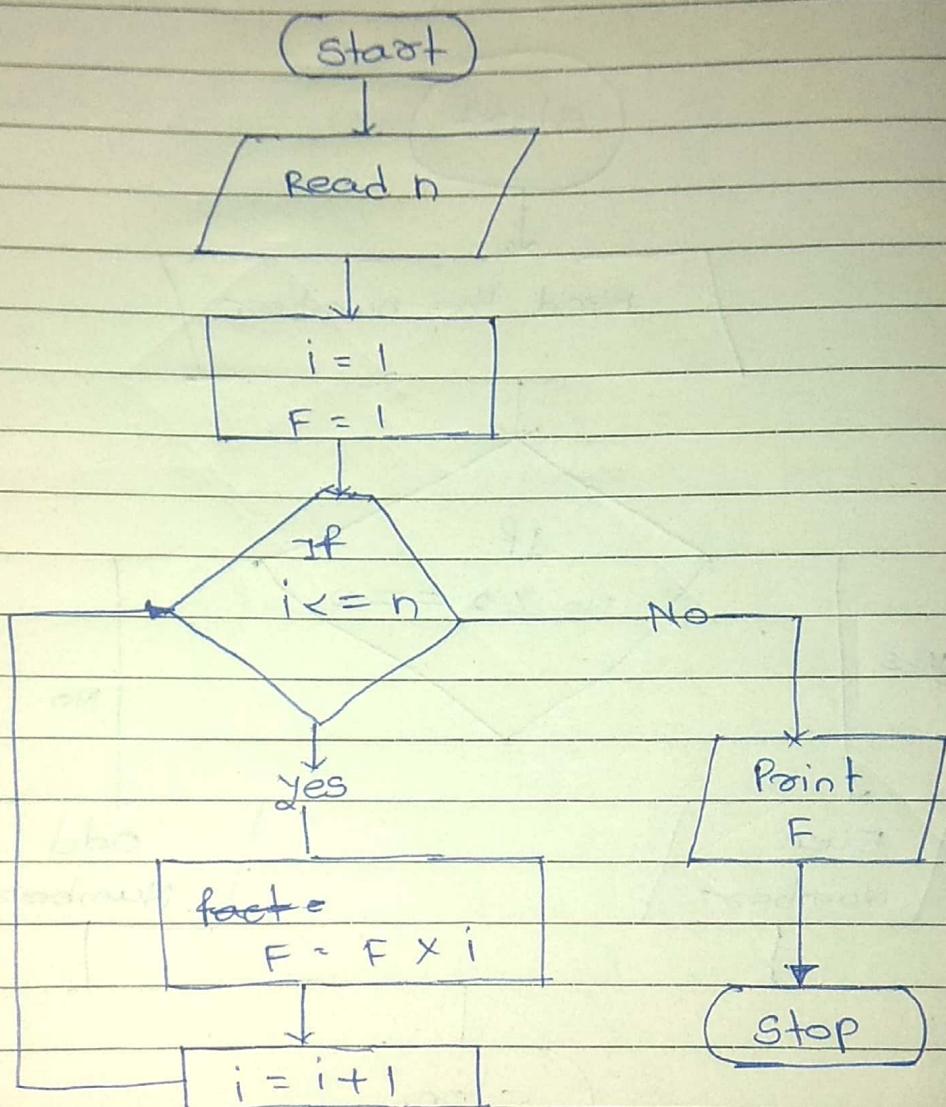
If remainder == 0

write "even number"

ELSE

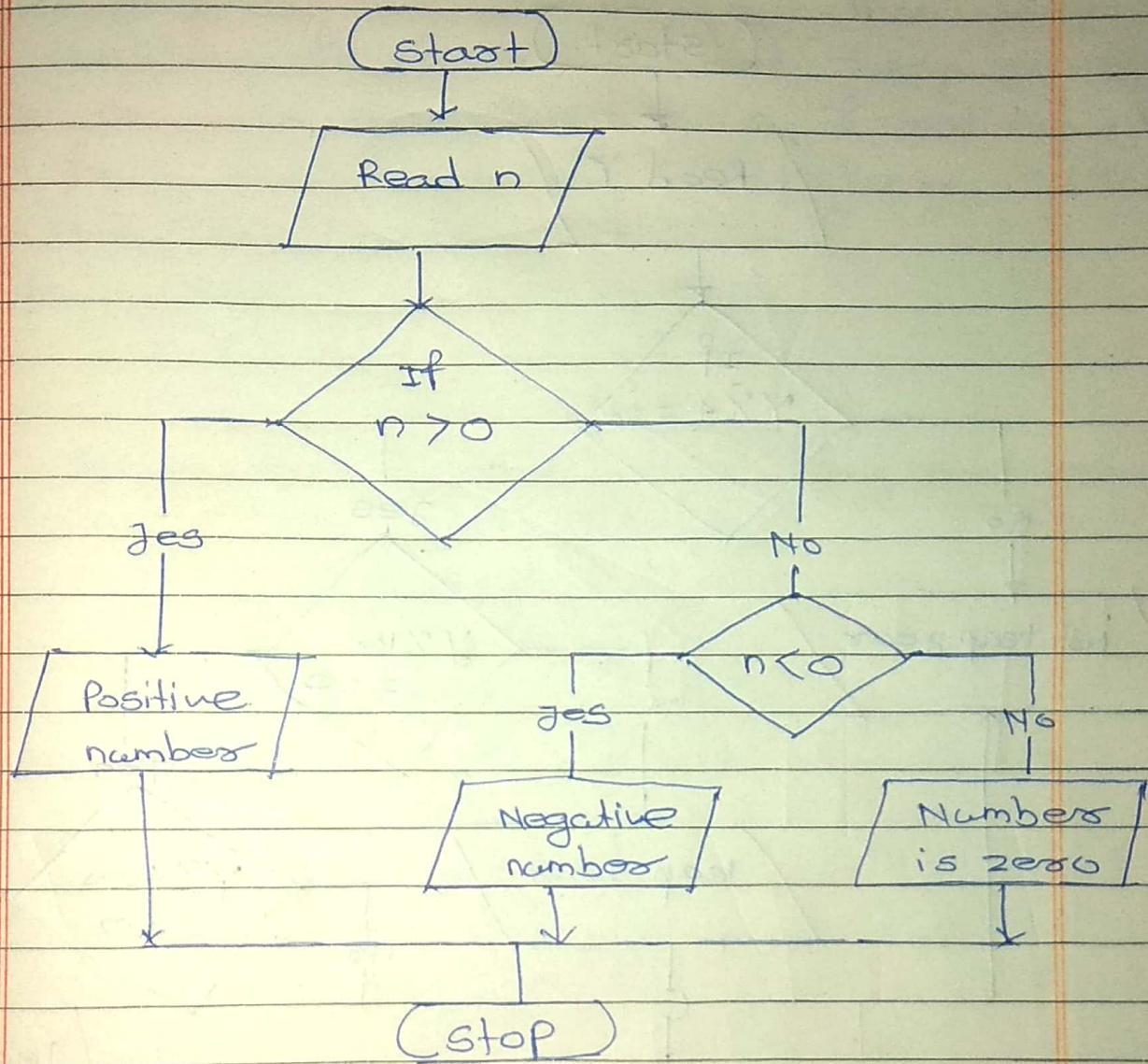
write "odd number"

② Find the factorial of the given number



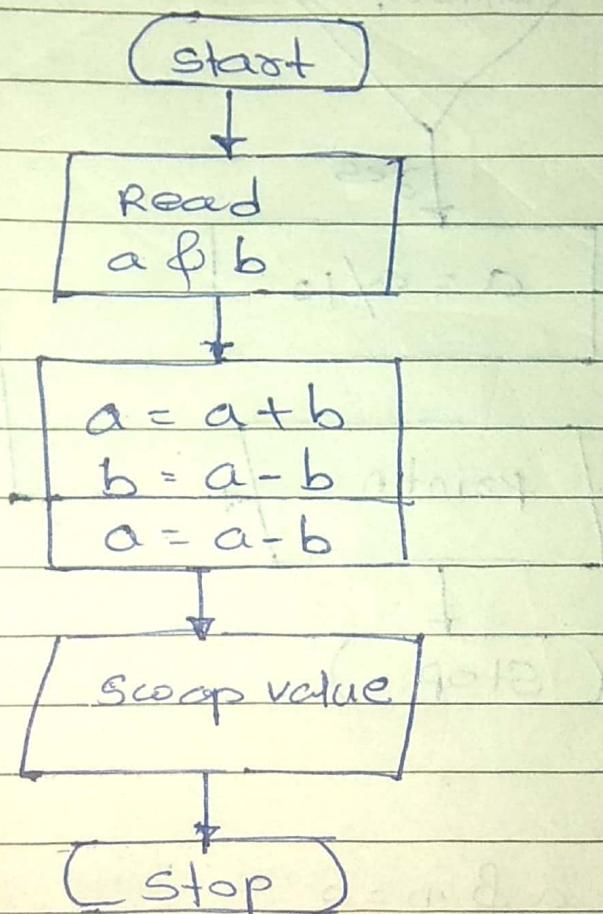
- ① start
- ② read a number n
- ③ Initialize variables
 $i = 1, F = 1$
- ④ If $i \leq n$ go to step 4 otherwise go to stop
- ⑤ calculate $F = F \times i$
- ⑥ Increment the i by 1 ($i = i + 1$) & repeat step 3
- ⑦ Point F
- ⑧ stop

③ The given no. is positive or negative.



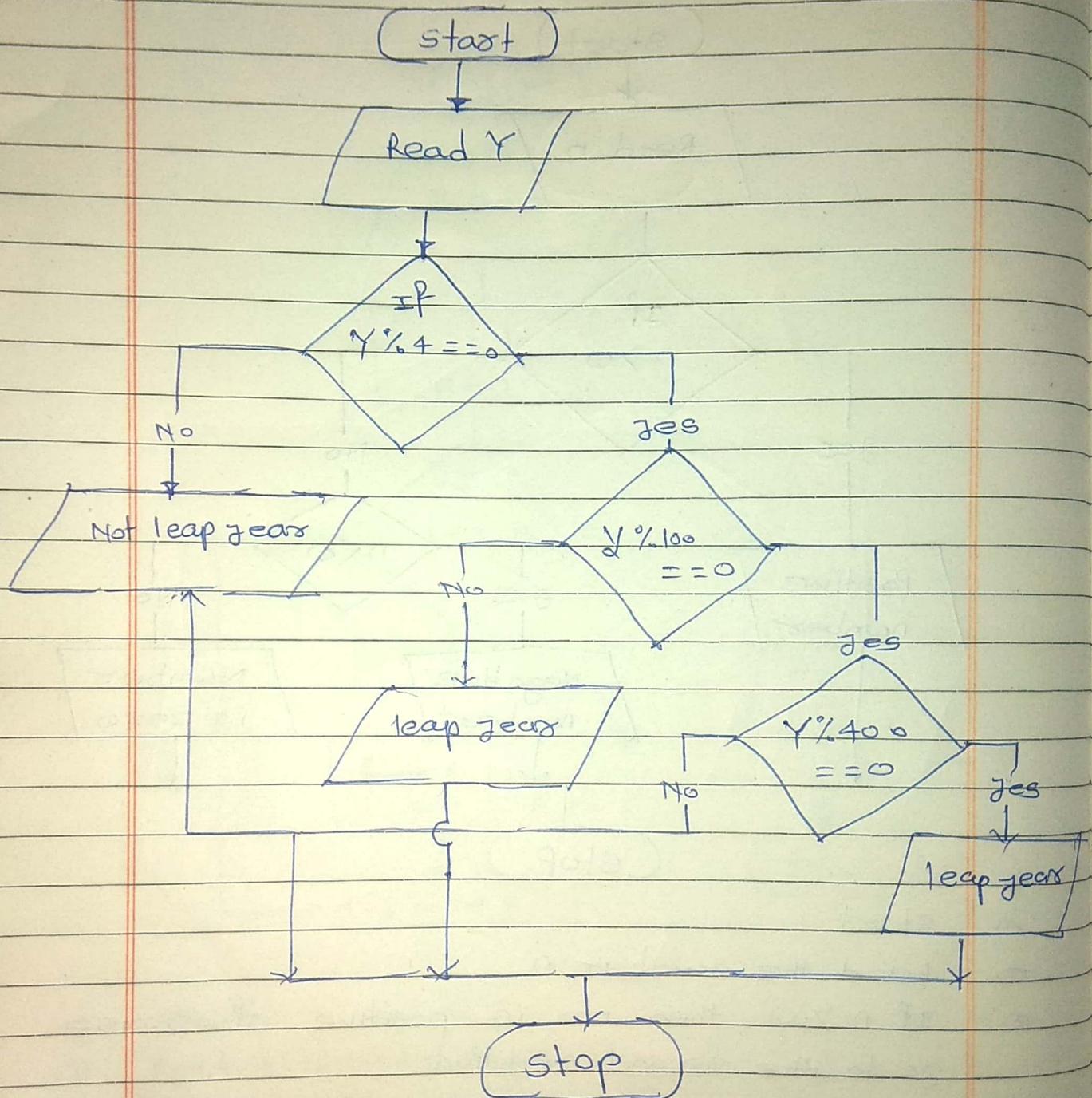
- ① Start
- ② Read the number 'n'
- ③ If $n > 0$ then no. is positive otherwise go to the second condition
- ④ If $n < 0$ then no. is negative otherwise no. is zero
- ⑤ stop

④ Swap two numbers without using third variable.



- ① start
- ② Read a & b
- ③ Perform arithmetic operation $a = a + b$, $b = a - b$
 $a = a - b$.
- ④ Swap the value.
- ⑤ Stop.

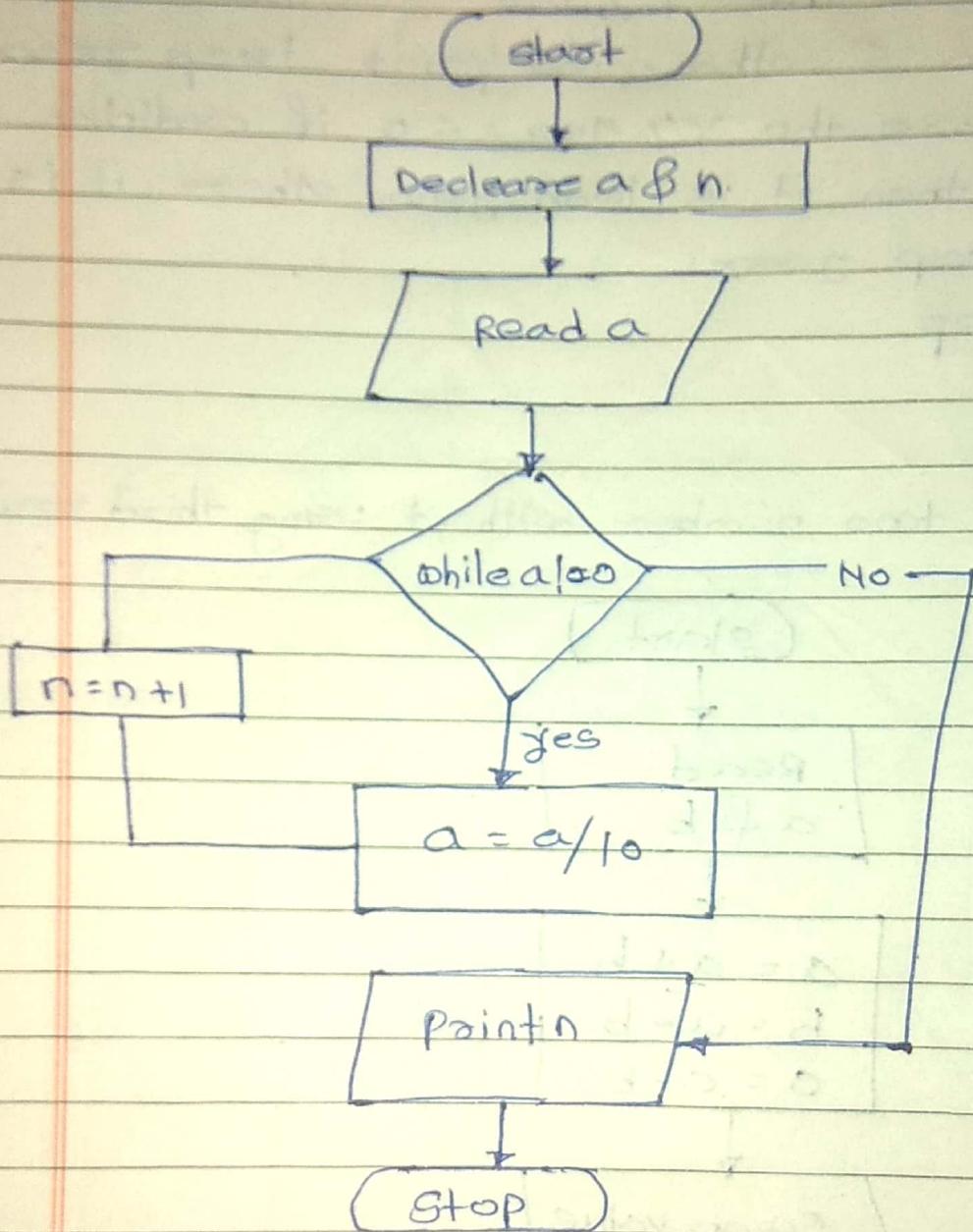
(8) Java program to find Leap year or Not.



- ① start
- ② Read the given year Y
- ③ compare the year $Y \% 4 == 0$ then go to condition 4 otherwise go condition 3 give output
Not a leap year

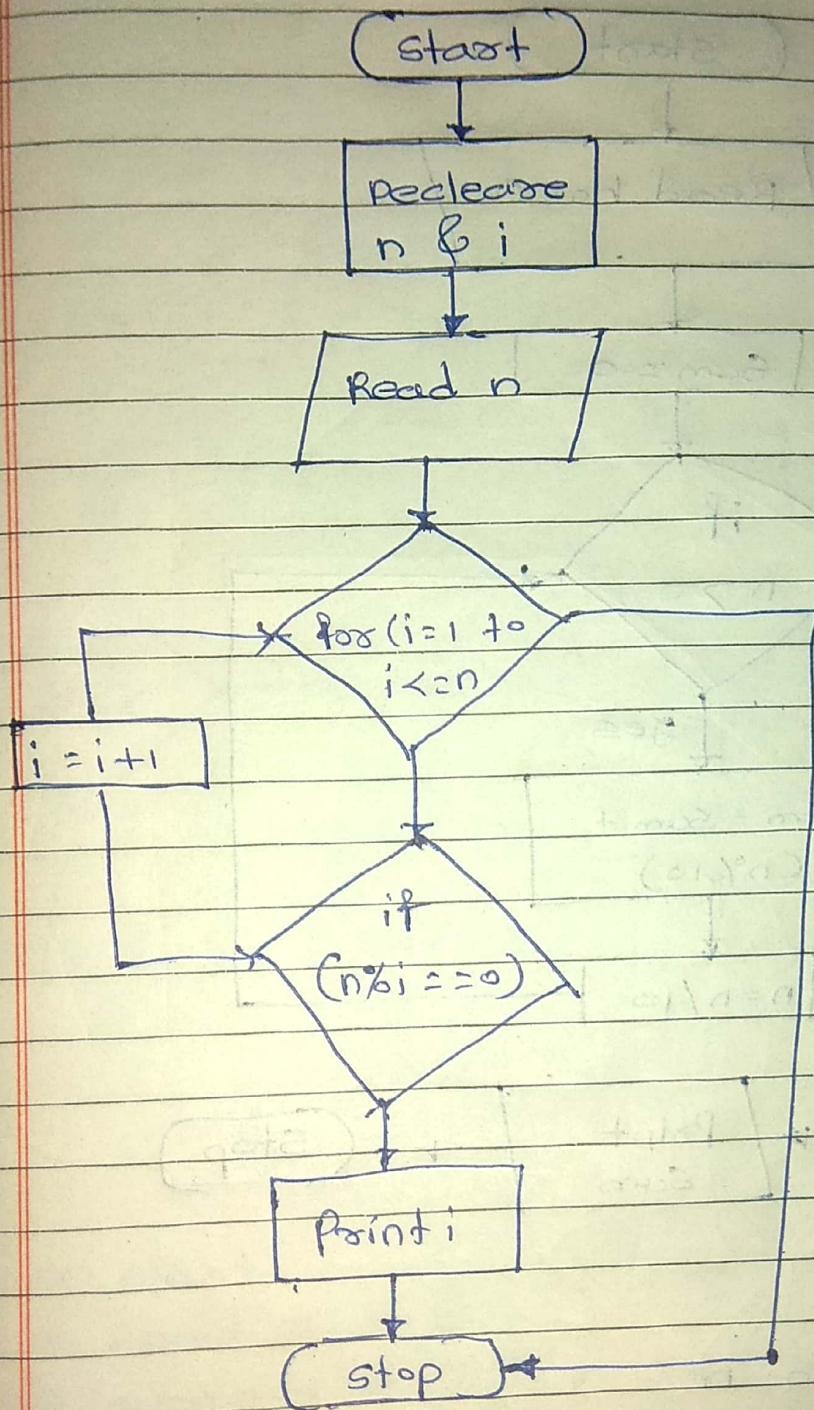
- ④ compare the $Y \% 100 == 0$ then goes condition 5 otherwise print leap year
- ⑤ compare the $Y \% 400 == 0$ if condition is true then it is leap year otherwise it is Not leap year.
- ⑥ stop.

③ To count the numbers of digit in number



- ① start
- ② decrease a & $n=0$
- ③ Read a
- ④ while $a \neq 0$ continue loop up to $a \neq 0$
& count the n $n=n+1$
- ⑤ if $a=0$ then point the n.
- ⑥ stop.

① Point all factors of given number.



① start

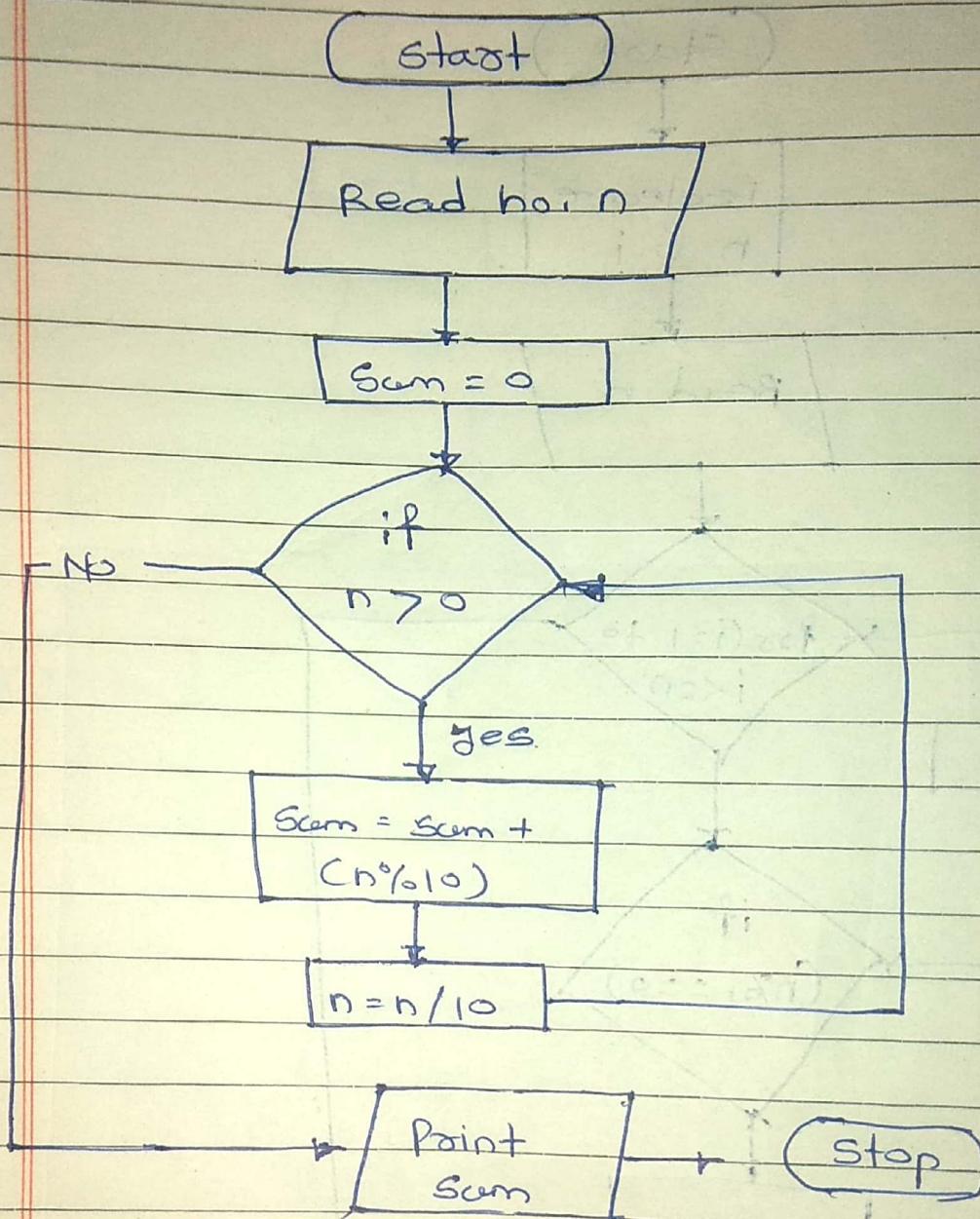
② Declare n & i as a int.

③ Read n.

④ To compare $i <= n$ it is true then go to condition 5 otherwise stop

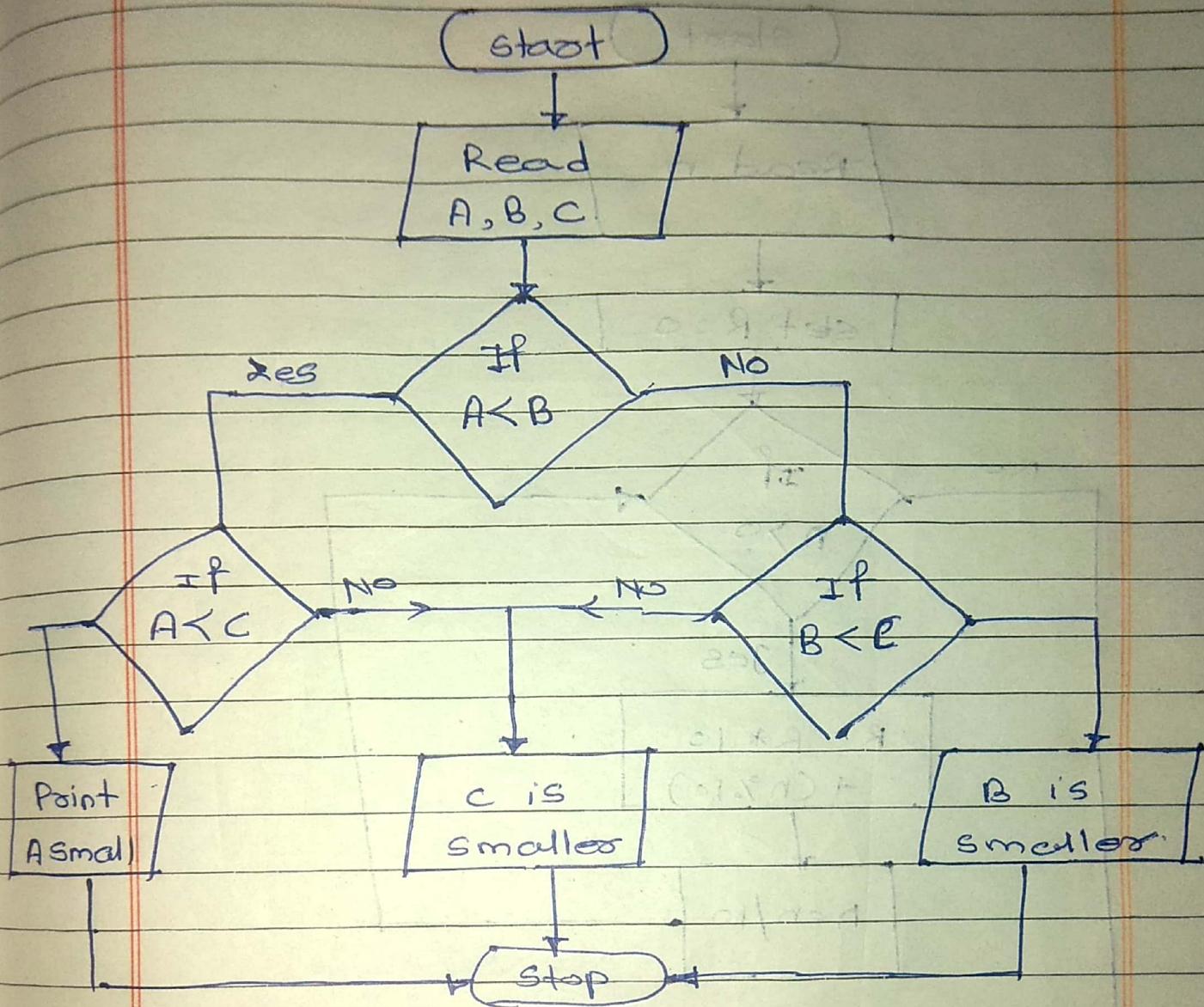
⑤ if $n \% i == 0$, then point i & continue

⑩ To find the sum of the digits of given no.



- ① start
- ② Read no.: n
- ③ set the $\text{Sum} = 0$
- ④ compare n if $n > 0$ then $\text{Sum} + (n \% 10)$ &
 $n = n / 10$ otherwise if $n \leq 0$ then point sum
- ⑤ point sum
- ⑥ stop

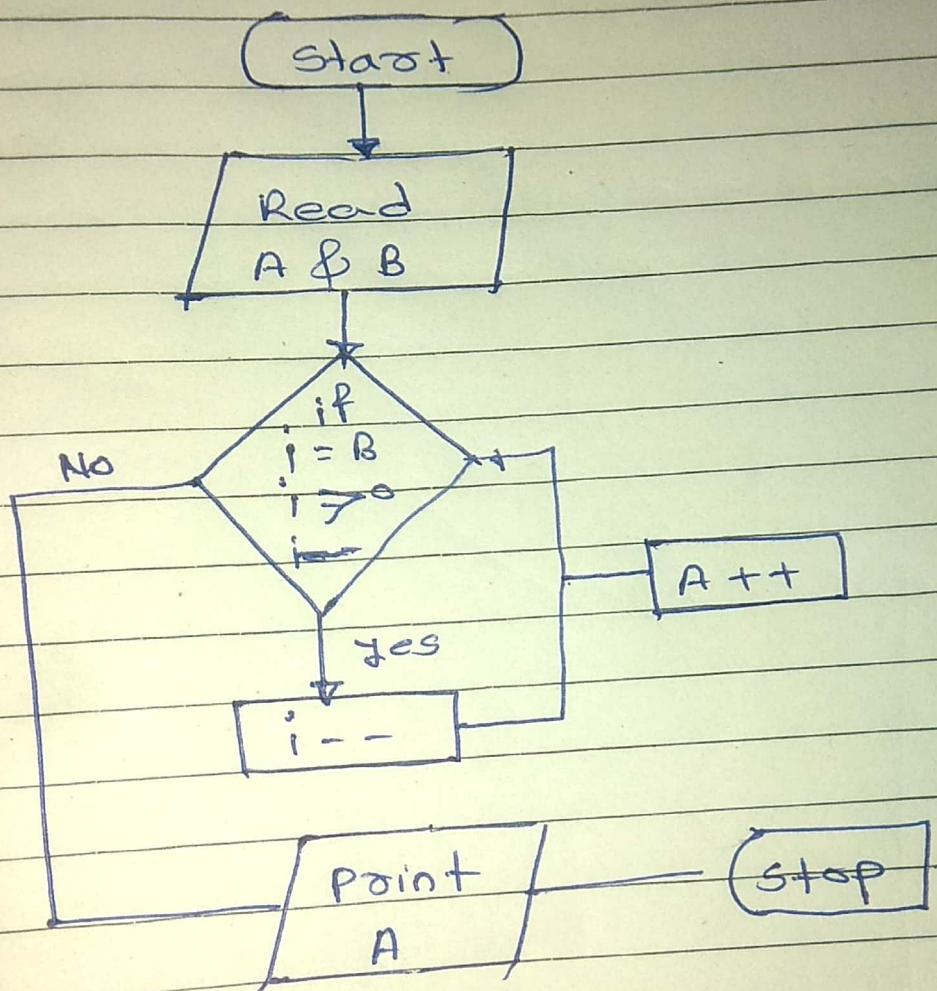
⑪ To find out smallest no. of given 3 no.



- ① start
- ② Read A, B, C
- ③ compare if $A < B$ & $A < C$ then A is smallest
- ④ If $B < C$ A is greater than B then compare $B < C$ if true then B is smallest otherwise C is smallest.
- ⑤ stop.

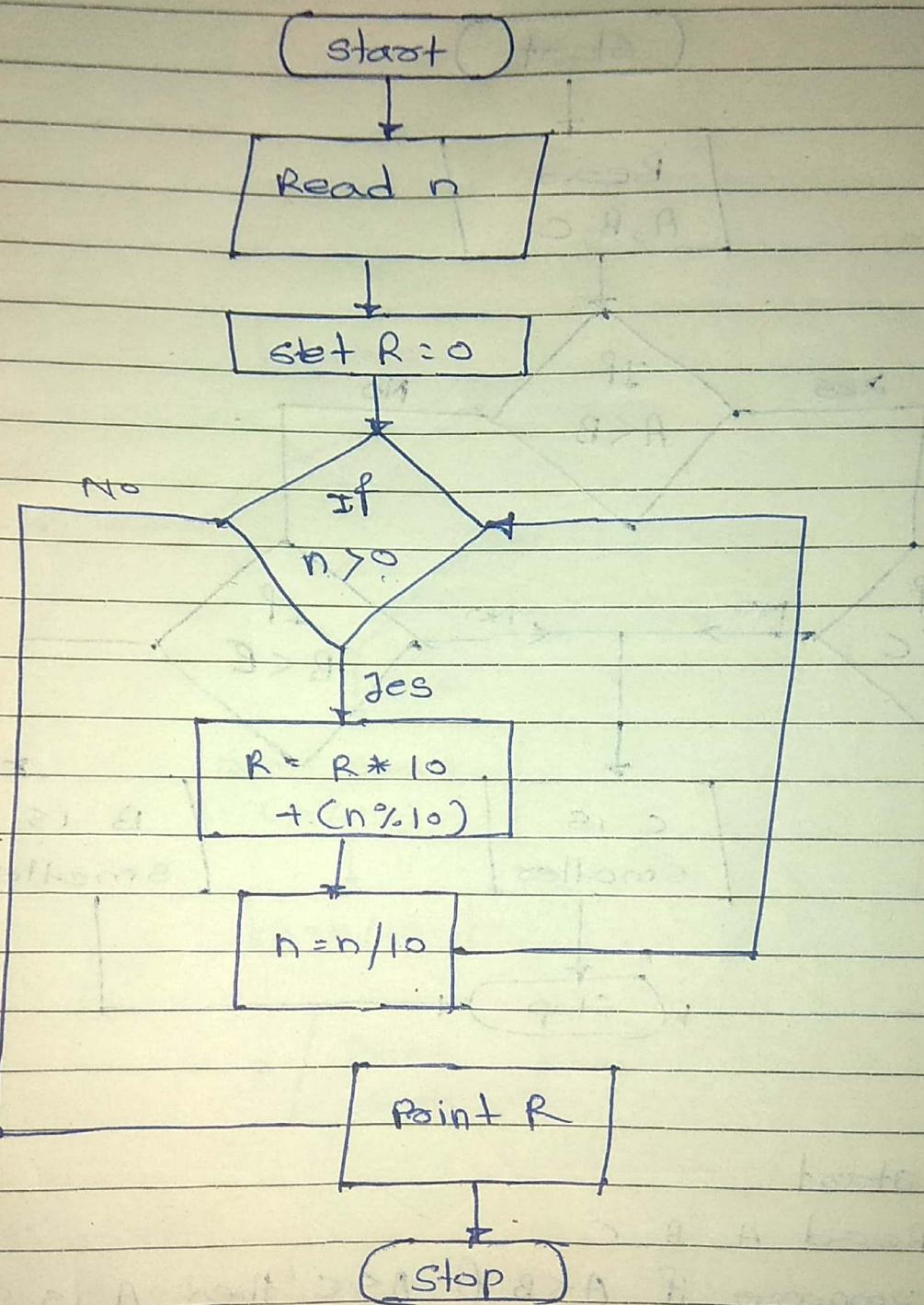
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Add two numbers without using arithmetic operators.



- ① Start
- ② Read A & B
- ③ check $i = B$ $i > 0$ then $i-- \& A++$
if condition false the point A
- ④ stop -

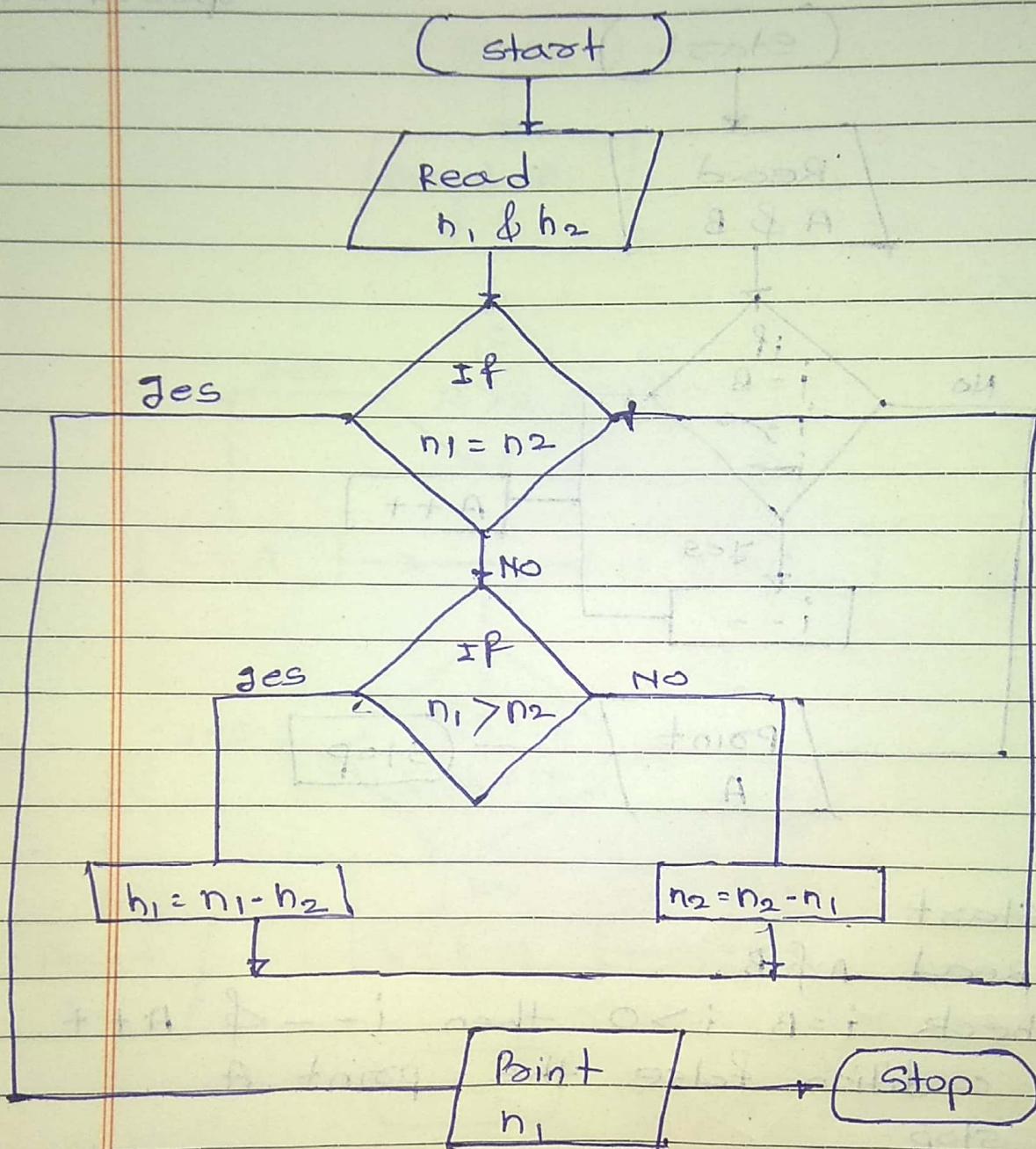
(13) To reverse the given number.



- 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 point R value.
- ⑤ stop

④

To find out GCD of given two numbers



① Start

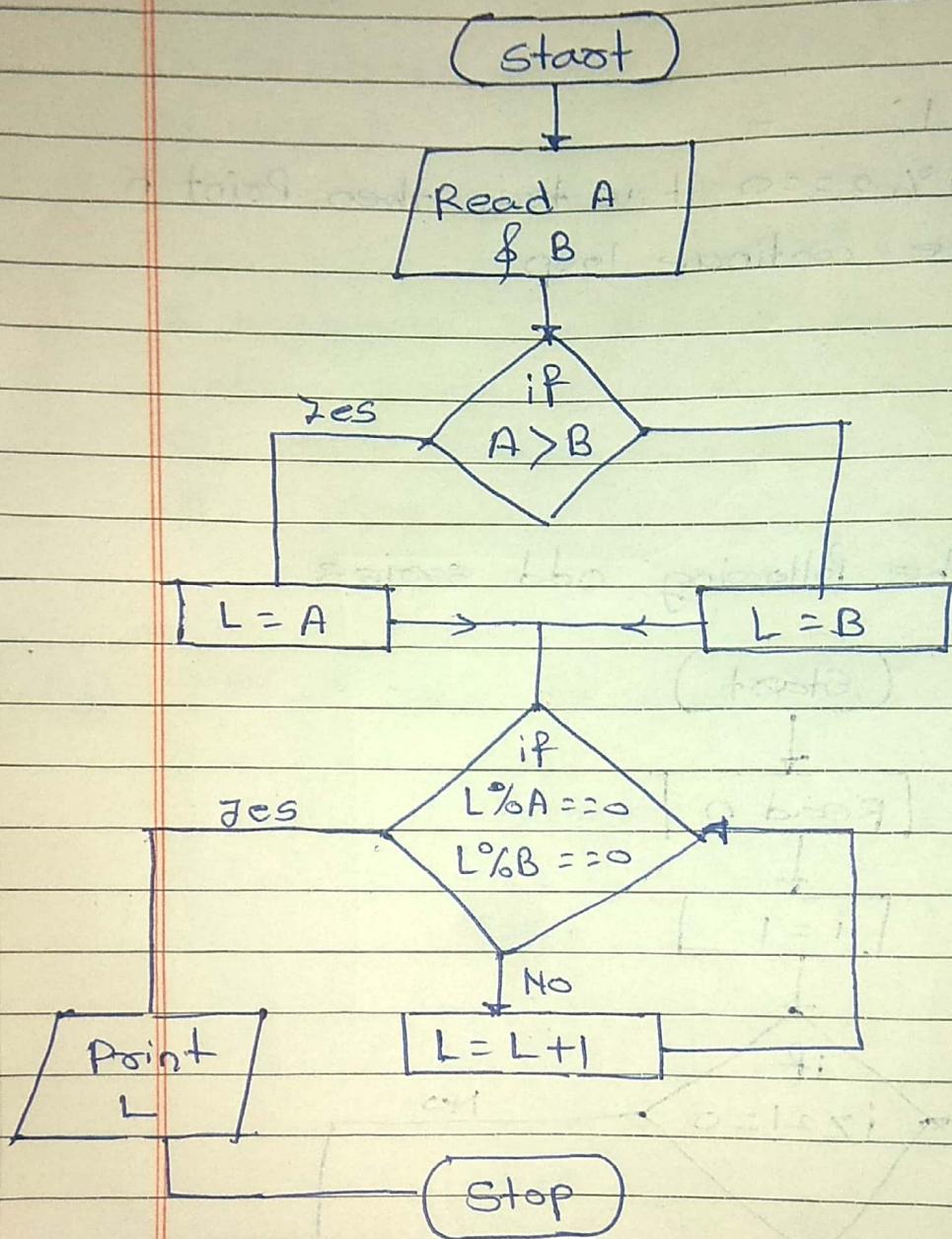
② Read n₁ & n₂

③ check upto n₁=n₂ if it is true point n₁
& if it is false then check cond 4

④ compare n₁>n₂ if it is true then n₁ = n₁-n₂
otherwise n₂ = n₂-n₁, continue loop.

⑤ Stop

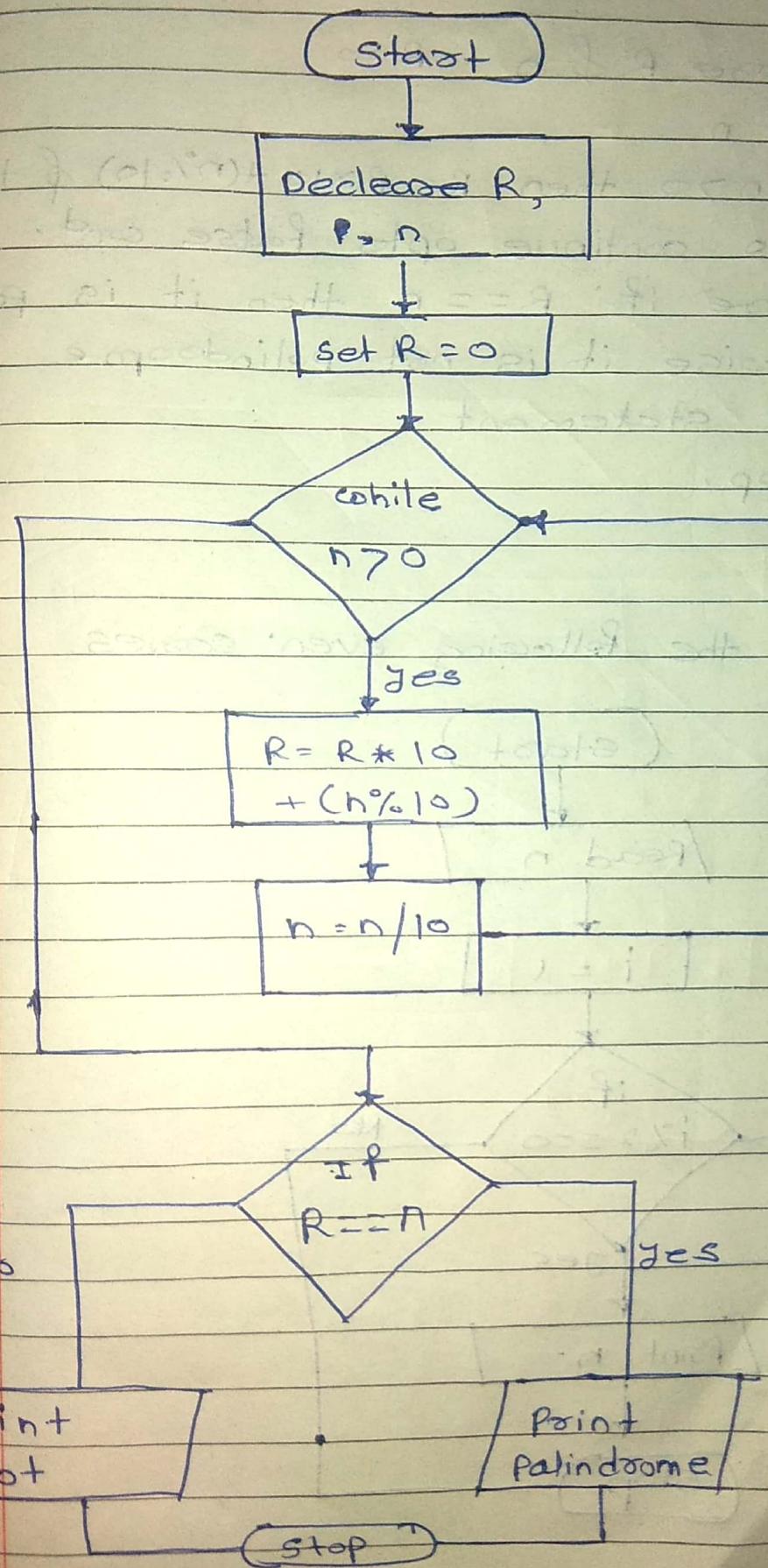
(15) find the LCM of given Numbers'



- ① start
- ② read A & B
- ③ check $A > B$ then $L = A$ otherwise $L = B$
- ④ check $L \% A == 0 \& L \% B == 0$ if cond true
the L is LCM otherwise $L = L + 1$ continue loop
- ⑤ stop

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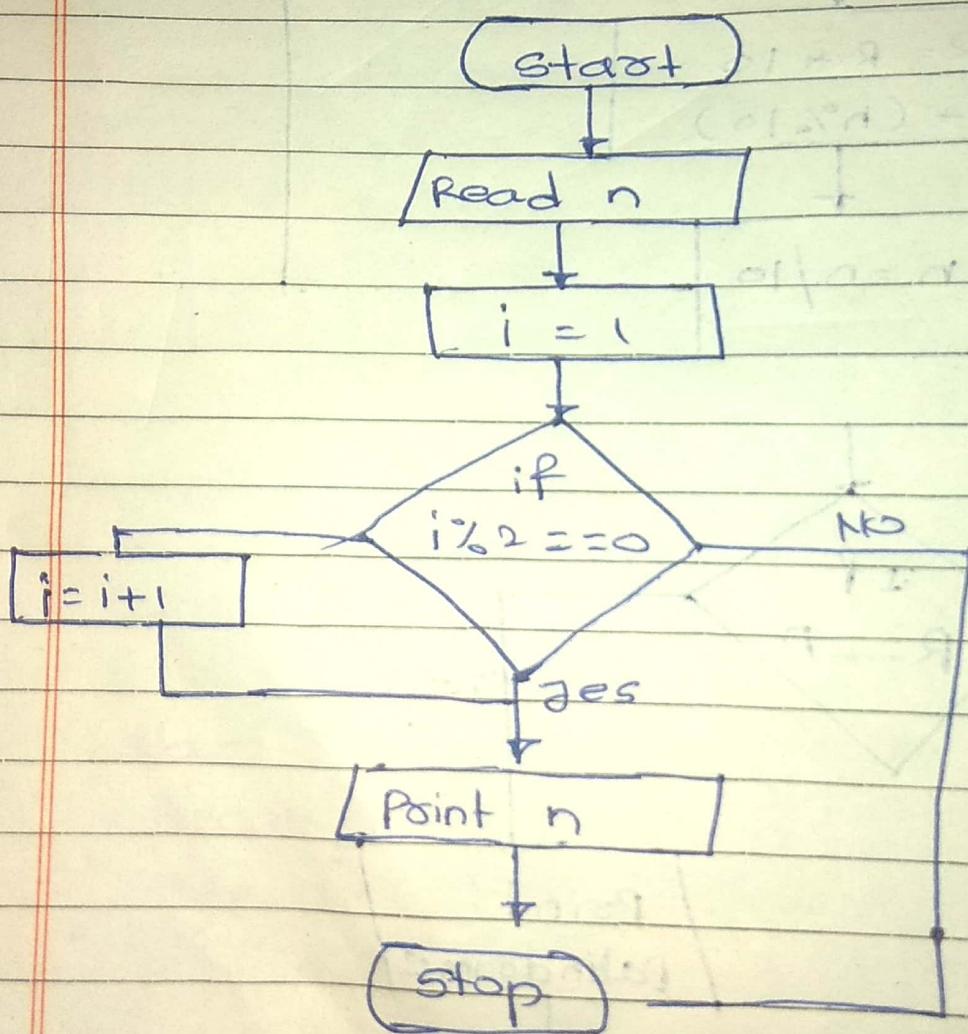
To find out the number is palindrome or not



- ① Start
- ② Decrease R & n $R=0$
- ③ Read n
- ④ while $n > 0$ then $R = R \times 10 + (n \% 10)$ if then
 $n = n / 10$ continue upto false cond.
- ⑤ compare if $R == n$ then it is palindrome
otherwise it is not palindrome.
- ⑥ Point statement.
- ⑦ stop.

(1g)

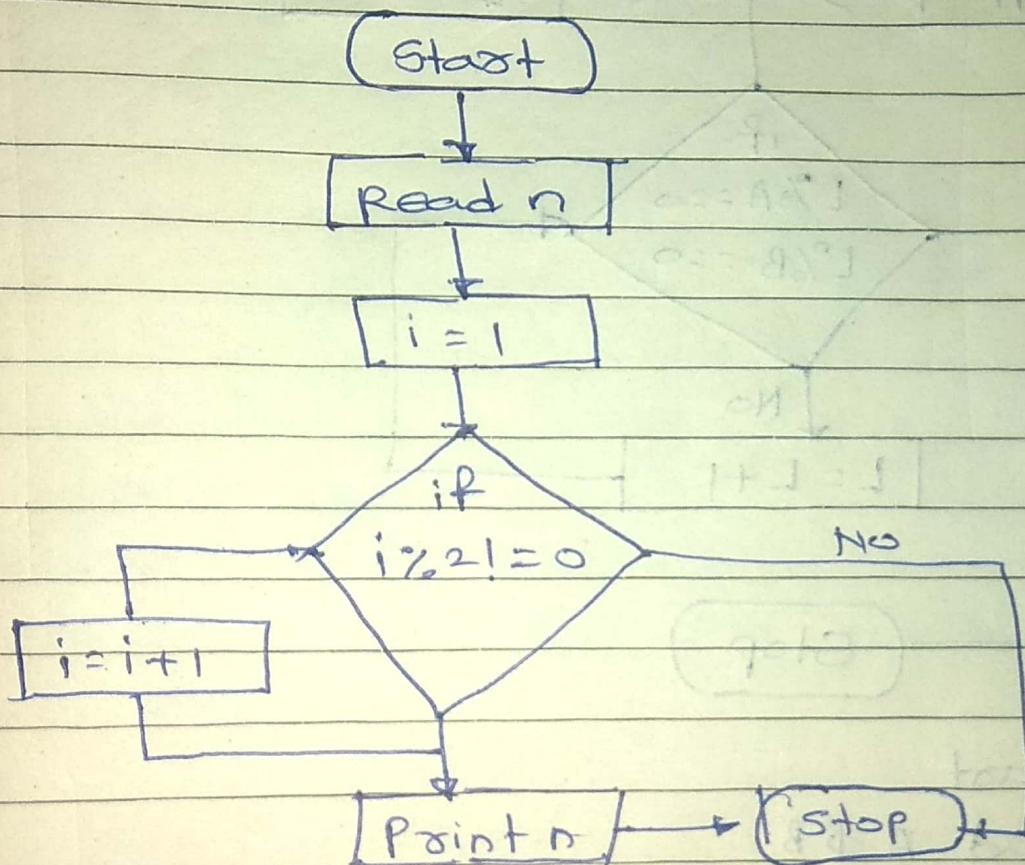
Point the following even series.



- random navi to mod with Link
- ① Start
 - ② Read n
 ($i \leq n$)
 - ③ Set $i = 1$
 - ④ Check $i \% 2 == 0$ if it is true then Point n
 otherwise continue loop.
 - ⑤ Stop.

Q2

Point the following odd series



- ① start
- ② Read n
- ③ set $i = 1$
- ④ check $i \% 2 \neq 0$ then Point n otherwise continue loop
- ⑤ stop