

D) Check if given number is even or odd

(Start)

[Enter a number]

$a =$

Yes

is

$$a \% 2 = 0$$

No

Print

Given number  
is even

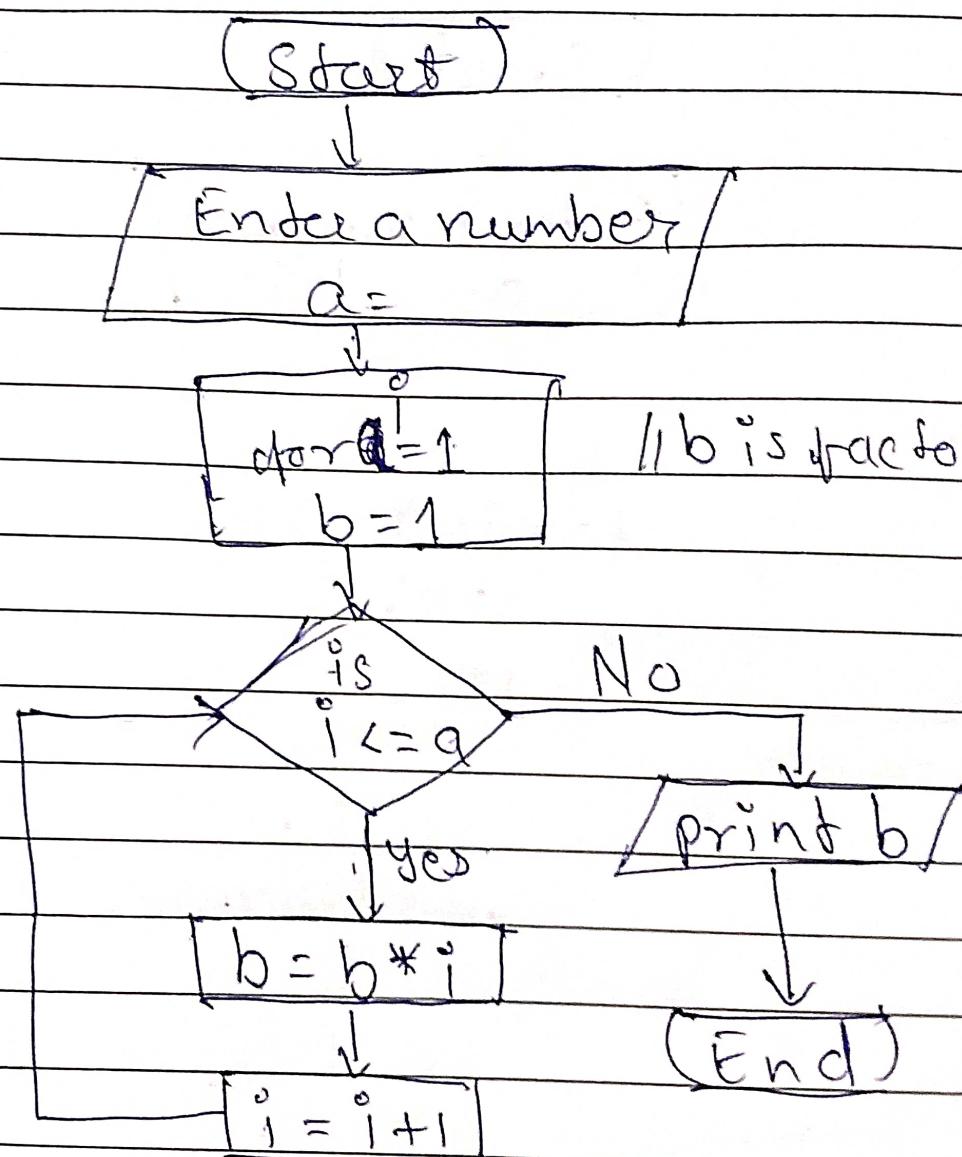
(End)

Print

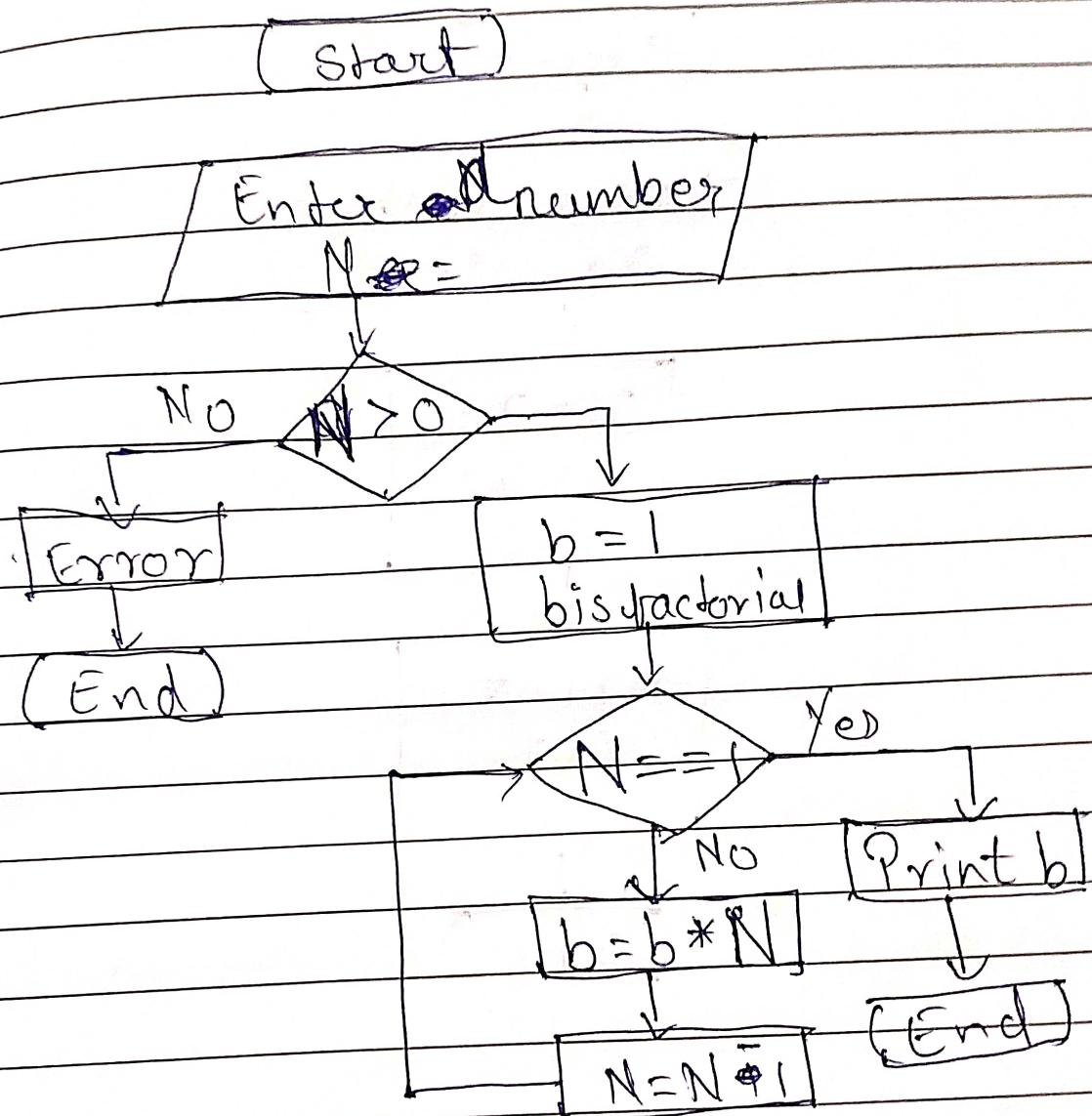
Given number  
is odd

(End)

2) Write a Java program to find the factorial of a given number



3) Find the factorial of a number using recursion



4) Swap two numbers without using third variable

(Start)

Enter numbers  
 $x =$   $y =$

$$\begin{aligned}x &= x + y \\y &= x - y \\x &= x - y\end{aligned}$$

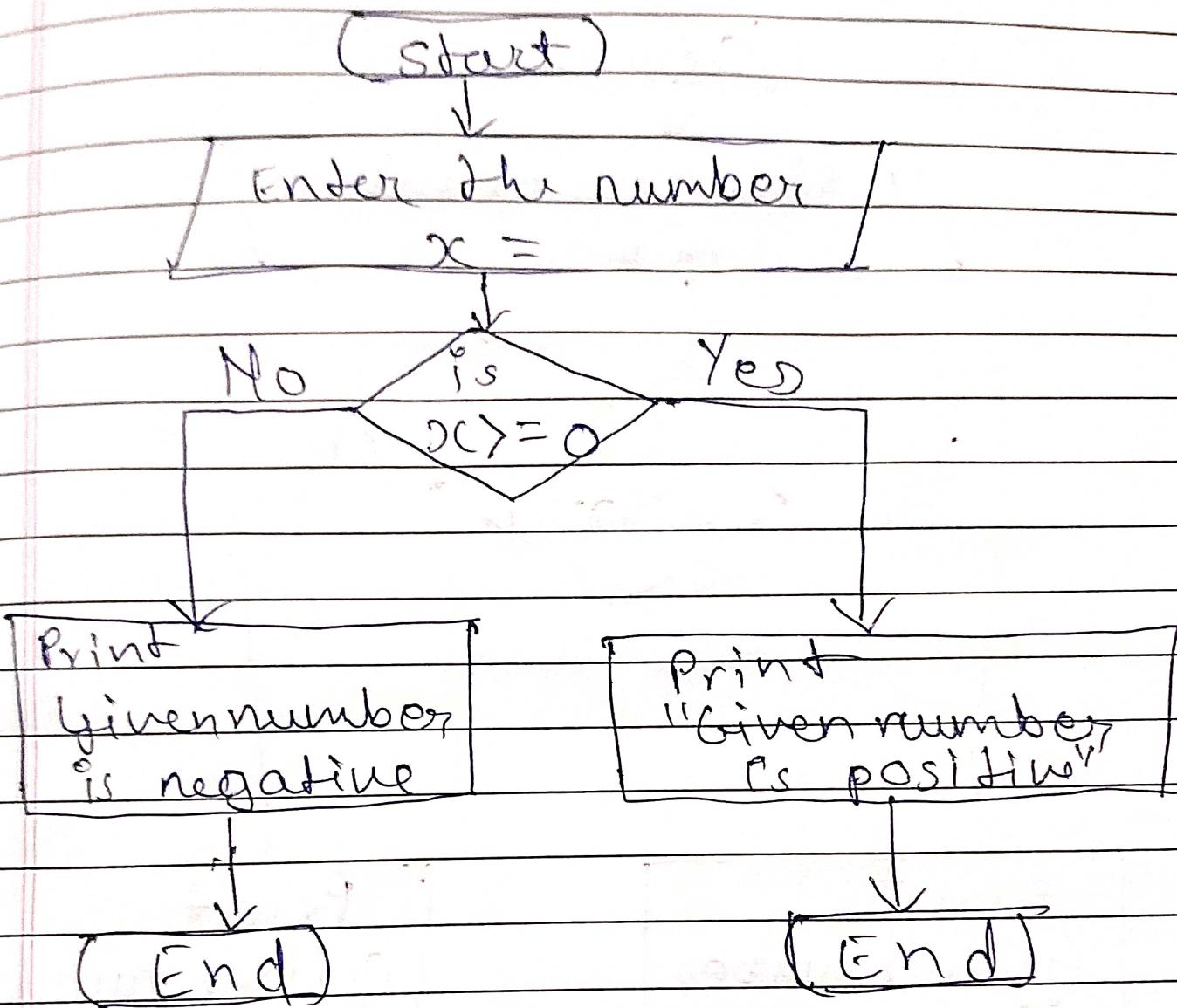
Print

$x =$

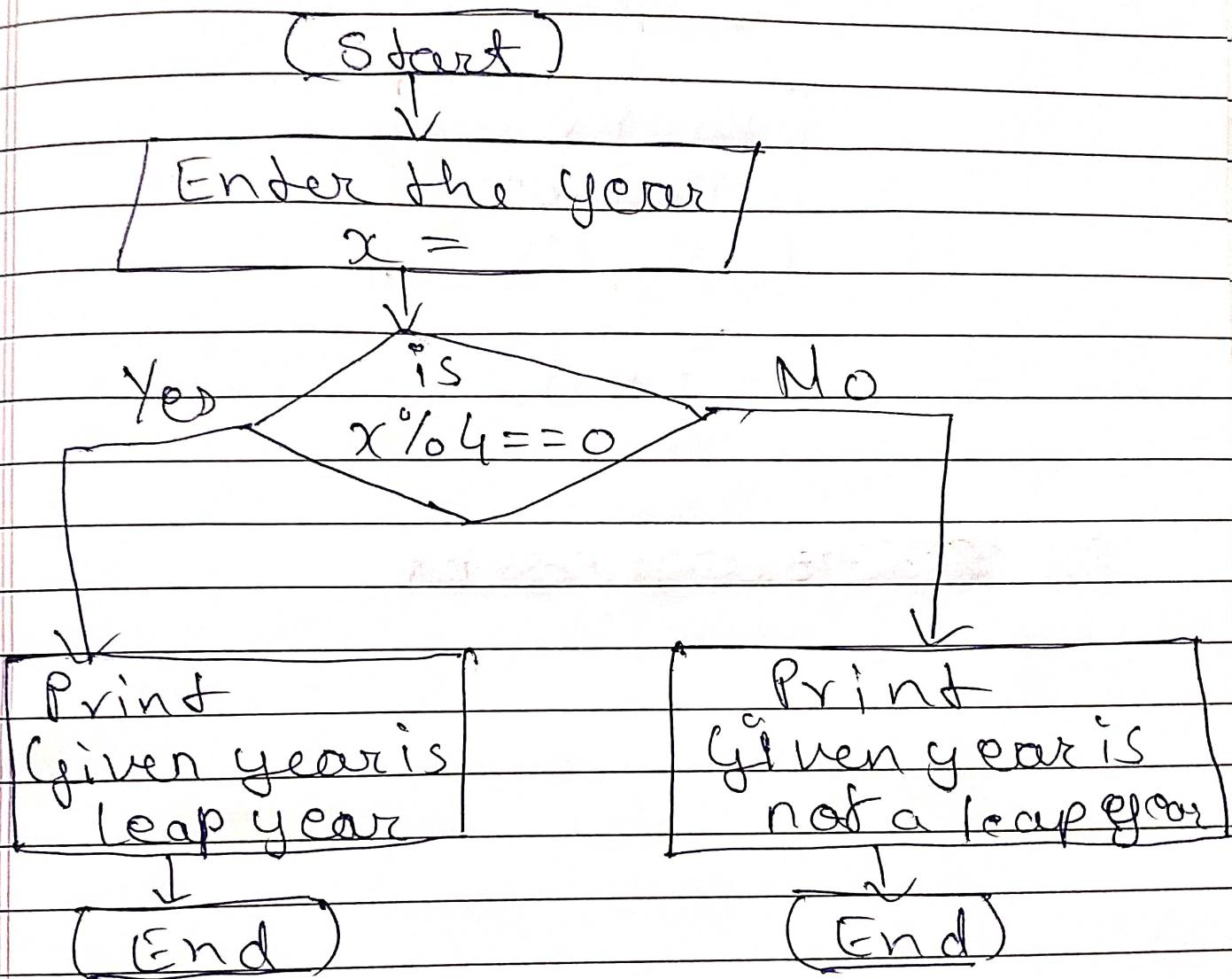
$y =$

(End)

5) How to check whether a given number is positive or odd.



e) Write a Java program to find whether a given number is leap year or NOT



7) Write a java program to print  
1 to 10 without using loop

(Start)



print  
numbers  
1 - 10

(End)



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Q) Write a java program to print the digits of a given number

( start )

Enter a number

a =

Set b = 0 //count

is  
a > 0  
No

Yes

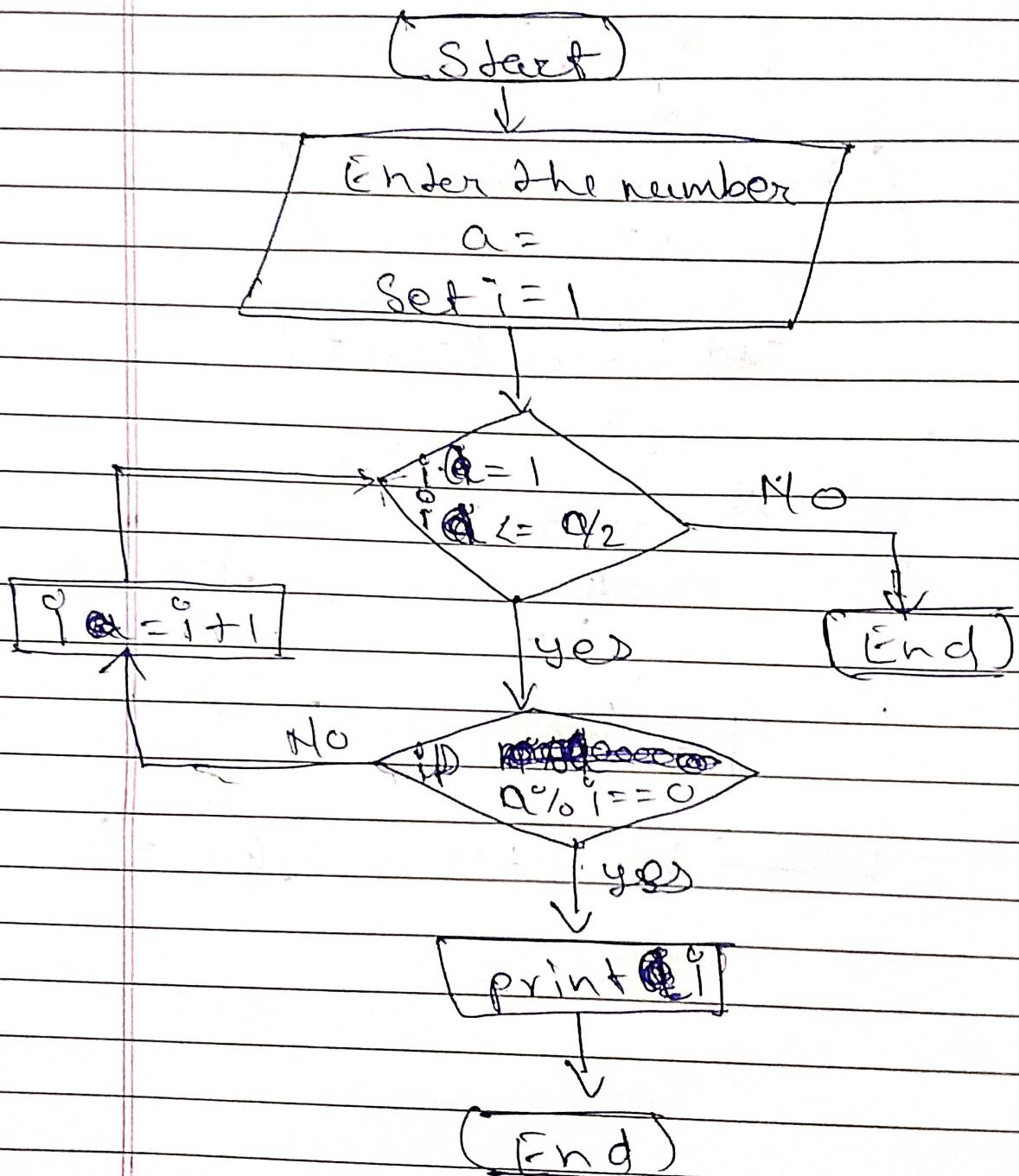
Print  
b

a = a/10

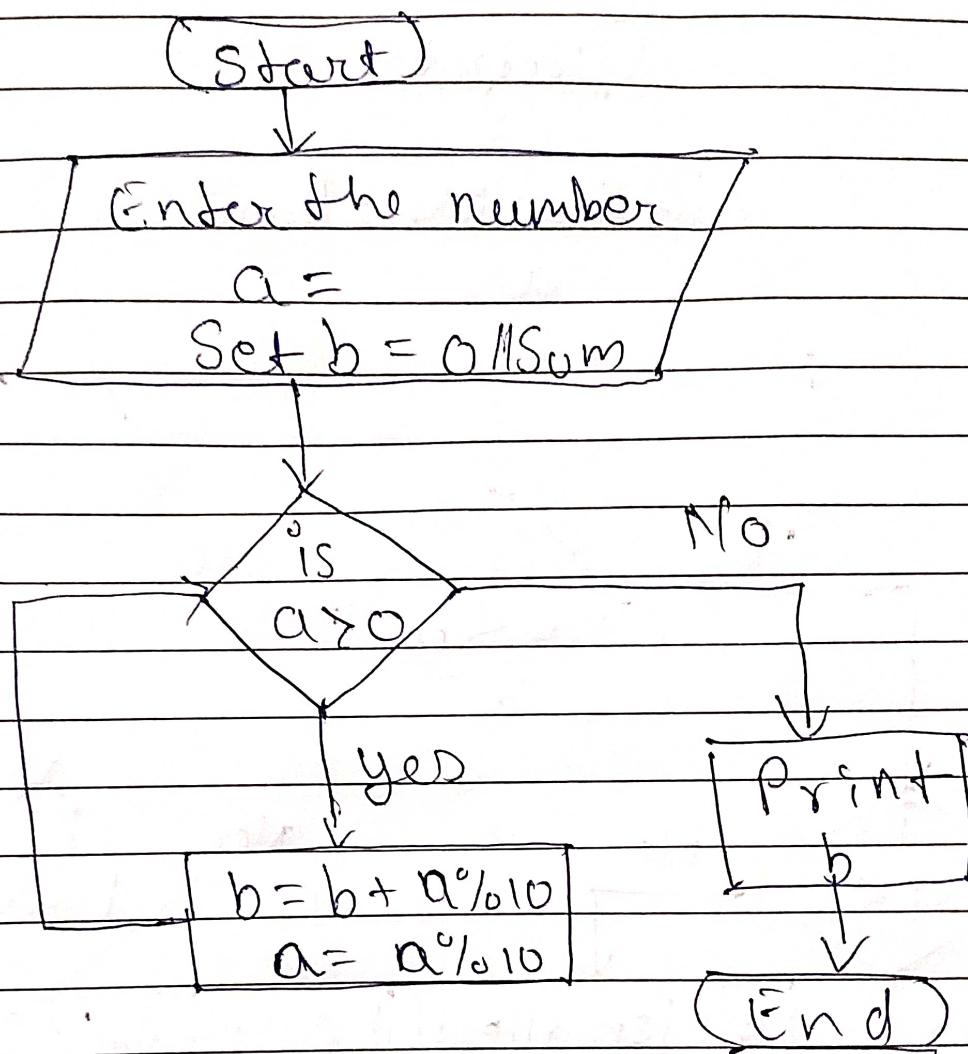
b = b + 1

( End )

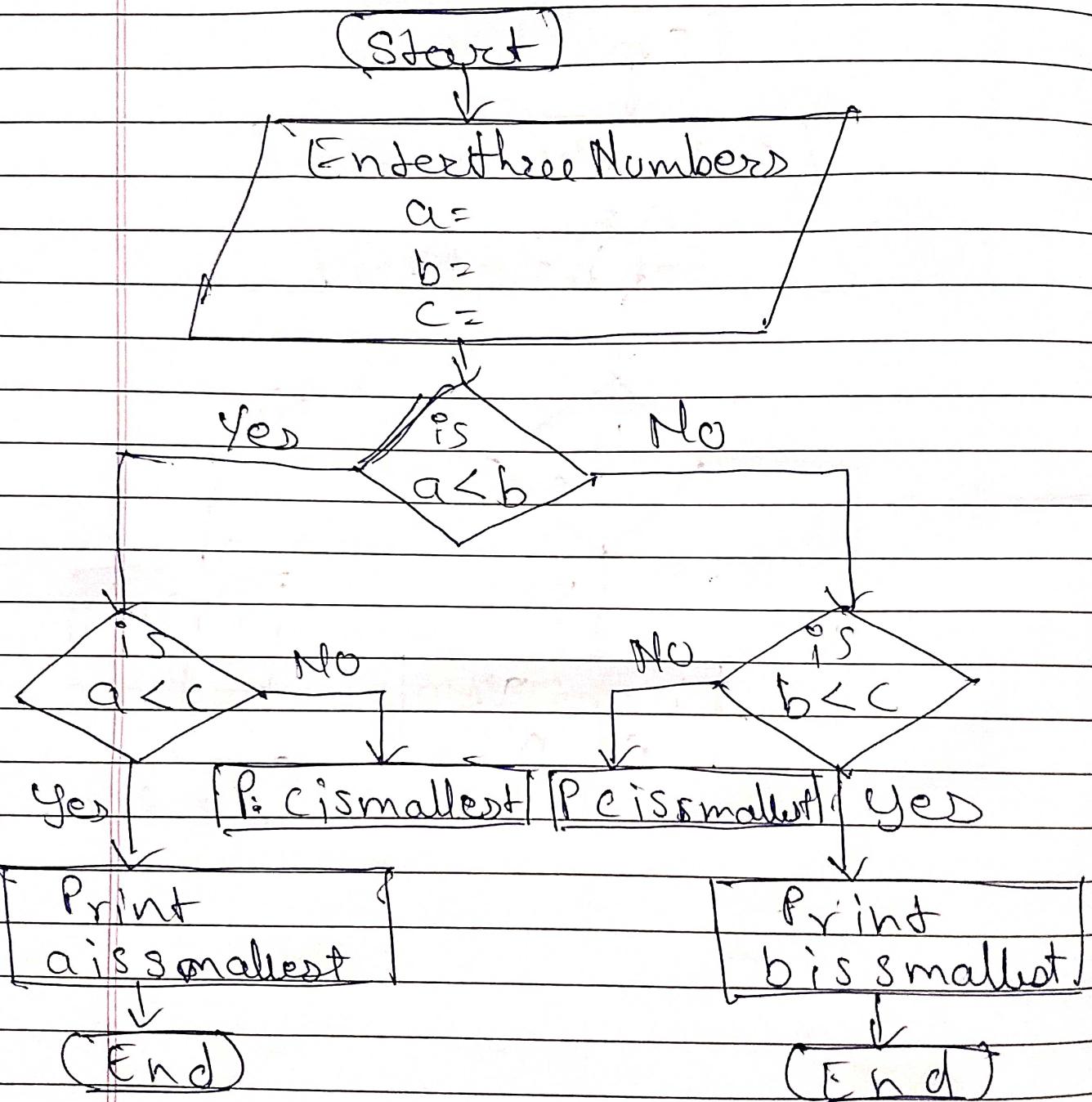
Q) Write a Java program to print all factors of given number



10) Write a program to find the sum of digits of a given number.



ii) Write a program to find the smallest of 3 numbers (a, b, c)

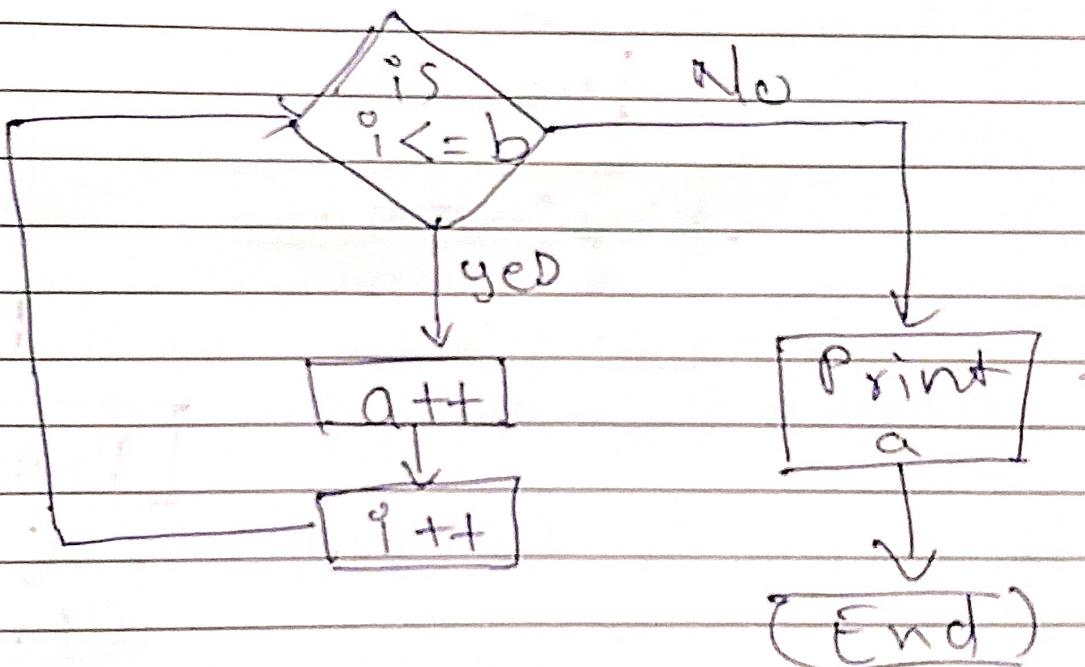


12) How to add two numbers without using arithmetic operators in java

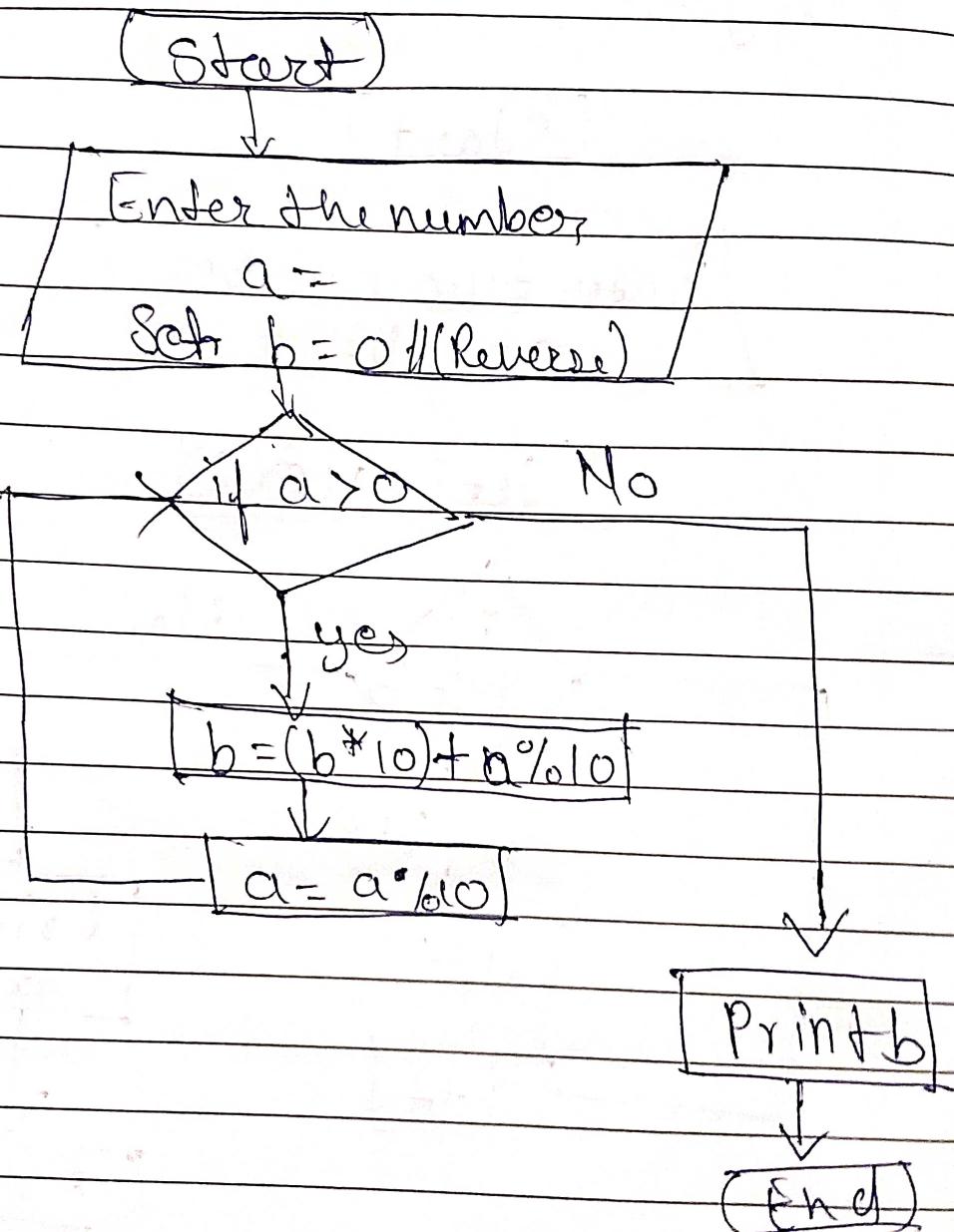
(Start)

| Enter two numbers  
a = , b = |

| Set i = 1 |



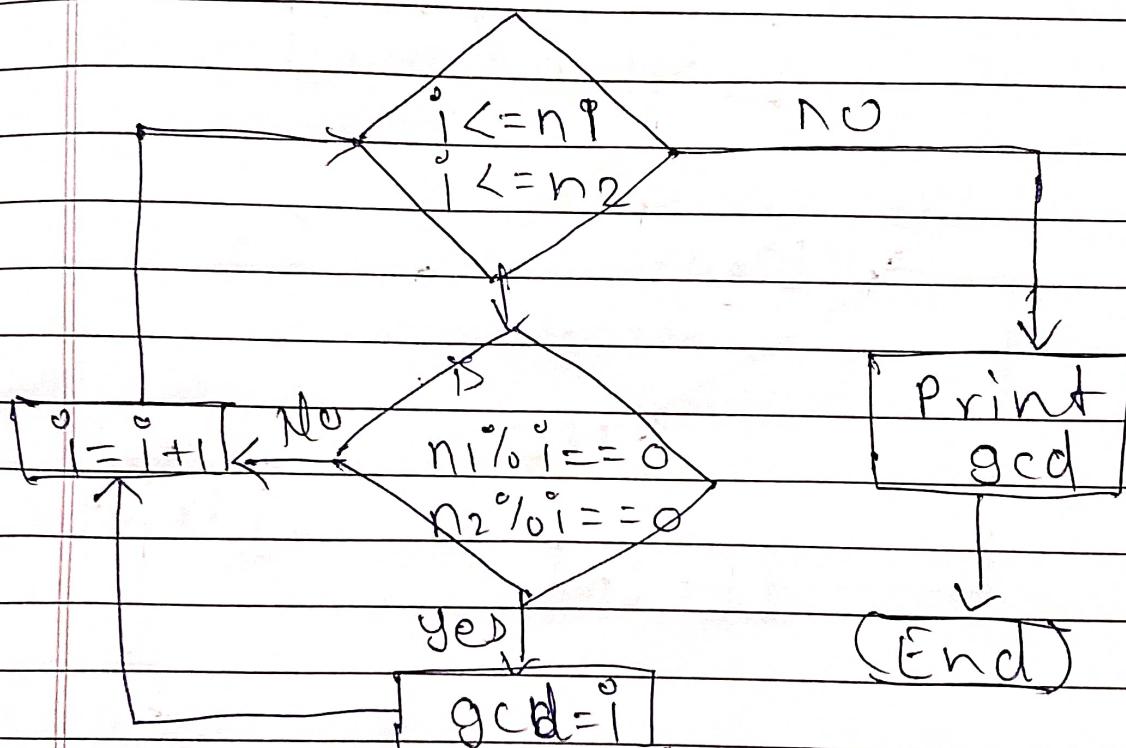
13) Write a program to Reverse a given number



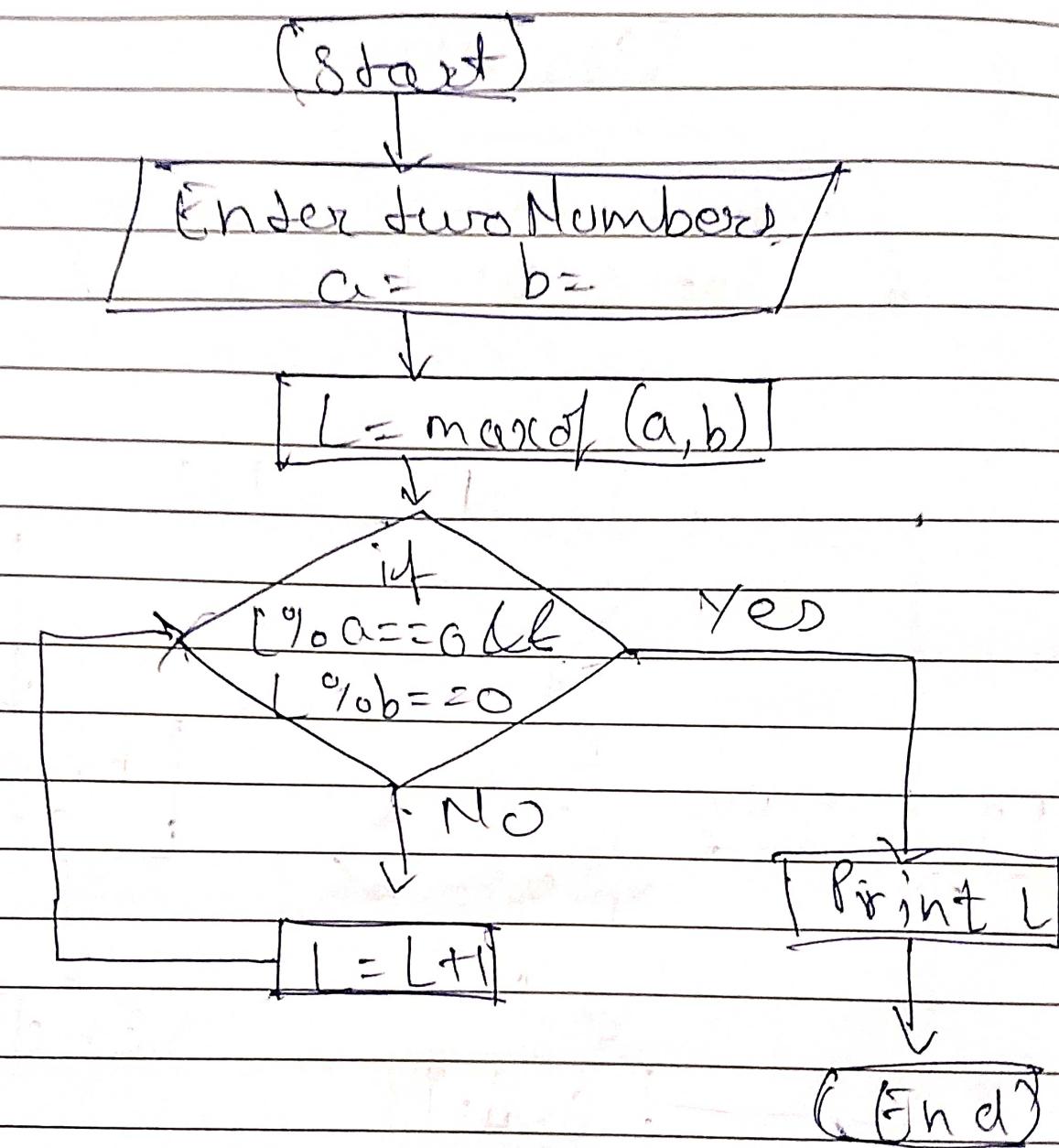
14) Write a program to find GCD of two given numbers

(Start)

Enter two numbers  $a = b =$   
Set  $GCD = 1 \ i = 1$



(5) Write a program to find LCM of two given numbers



16) Write a program to find LCM  
of 2 given numb. using prime  
factors method

1. Start
2. Declare
3. Read  $n_1$  and  $n_2$
4. Call GCD ( $n_1, n_2$ )
5. if ( $n_2 = 0$ ) then return  $n_1$
6. GCD ( $n_2, n_1 \% n_2$ )
7.  $(n_1 / \text{gcd}(n_1, n_2)) * n_2$
8. End

17) Check if the given numb. is  
palindrome or not

(Start)

Enter a number a =

Set r, sum = 0, temp

$a > 0$       No

Yes

$$r = a \% 10$$

$$\text{sum} = (\text{sum} * 10) + r$$

$$a = a / 10$$

is  
 $\text{temp} == \text{sum}$

No

Yes

Print  
Not  
Palindrome

Print  
Palindrome  
Number

(End)

(End)

18) Write a program to print prime factors of a number.

(Sdgvt)

Declare n & i, j = 2

Read n

for  
i = 1 to n/2

i = i + 1

No

Yes

No

End

check  
if (n % i == 0)

Yes

Prin i

check  
if (j ≥ i)

j = j + 1

No

Check  
if i % j == 0

Yes

break

Q) To print Even number series

(Start)

Enter the number to  
find even number till that  
number a =

[Set  $i = 1$ ]

is  
 $i < a$

yes

$i = i + 1$

[Print  $i$ ]

is  
 $i \% == 0$

yes

[Print  $i$ ]

(End)

2) To print odd number series

