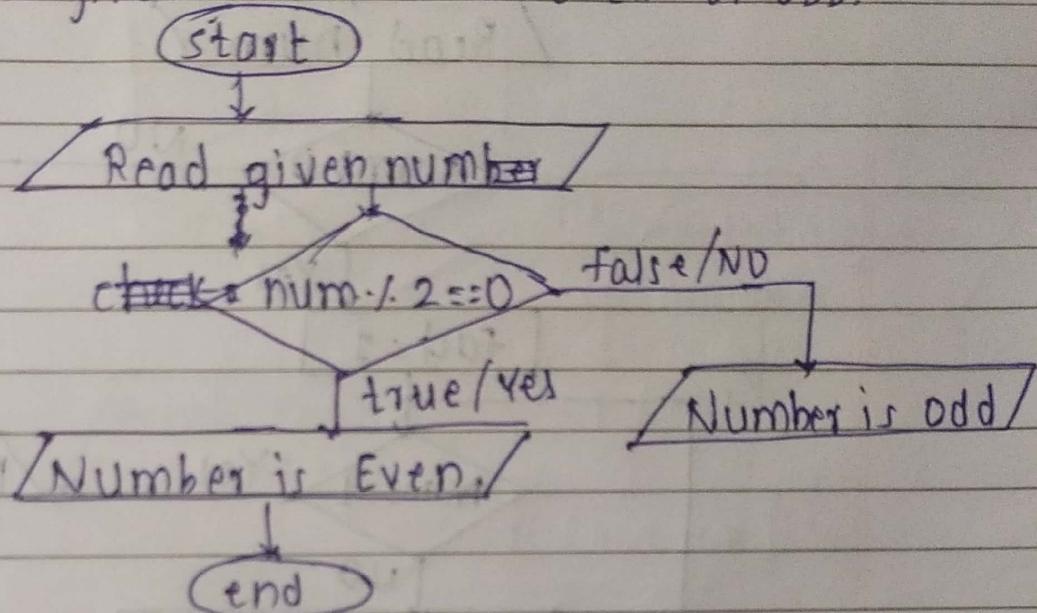


Name: Ashitosh P. Vidhate.
course: PG-DAC Kharghar

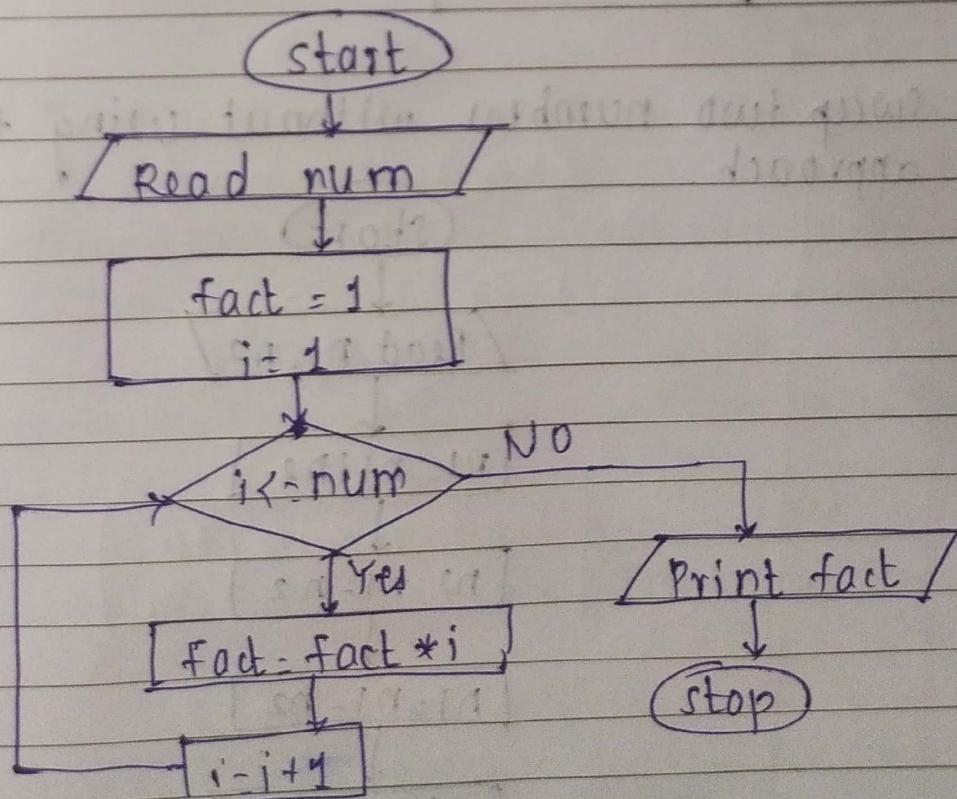
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Assignment 1

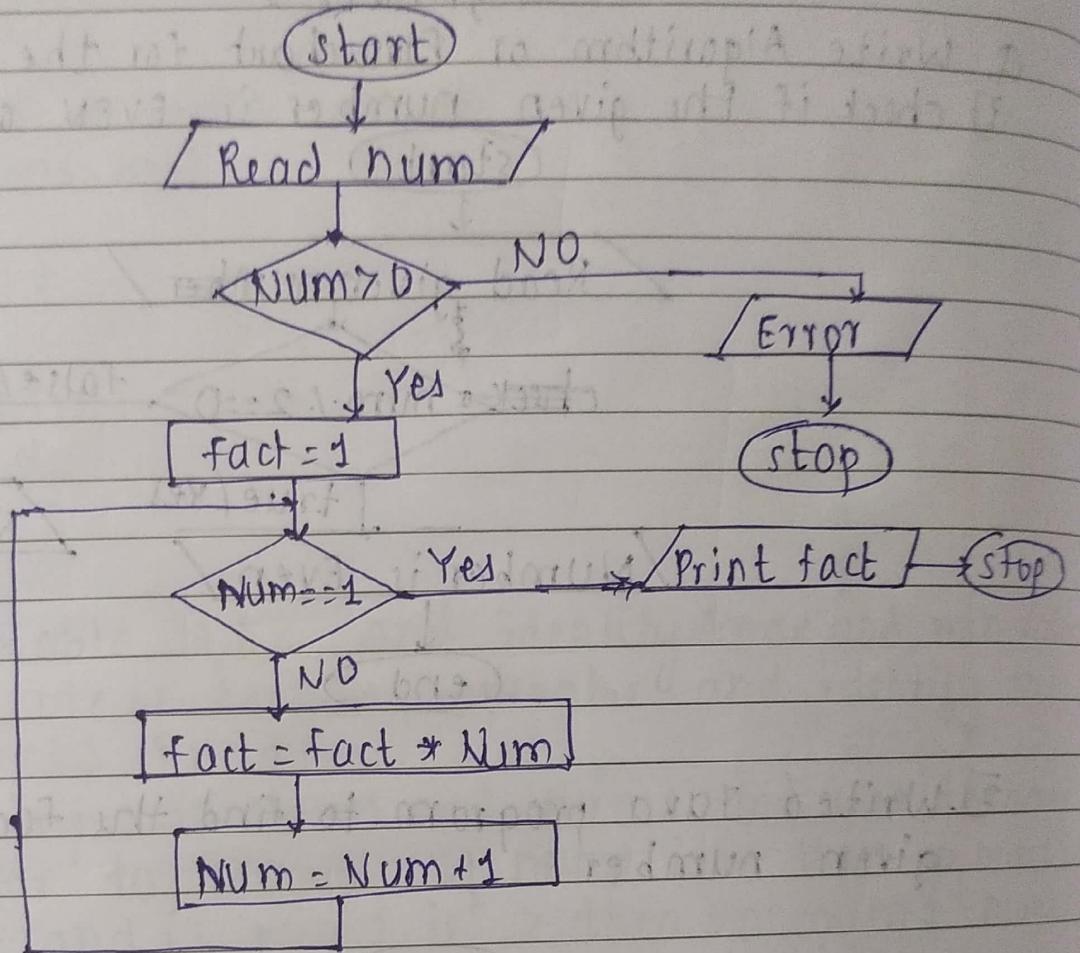
- Q. Write Algorithm or Flowchart for the following program
- 1] check if the given number is EVEN or ODD.



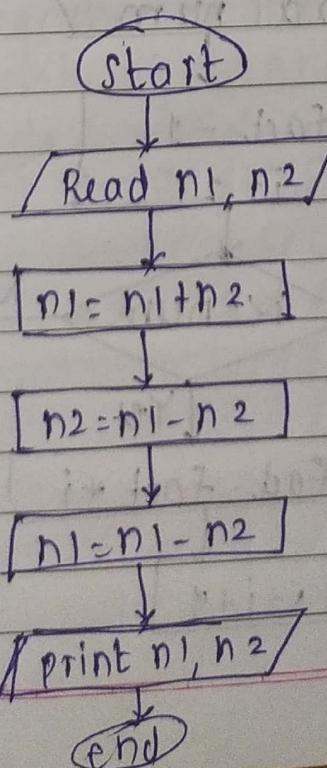
- 2]. Write a Java program to find the factorial of a given number.



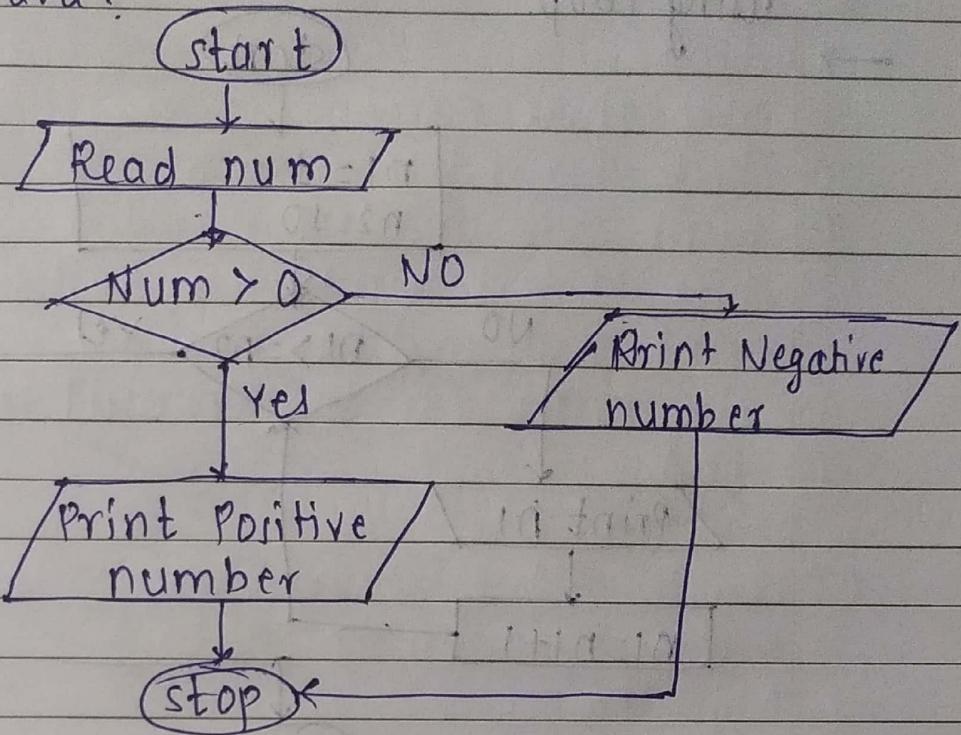
③ Find the factorial of a number using Recursion.



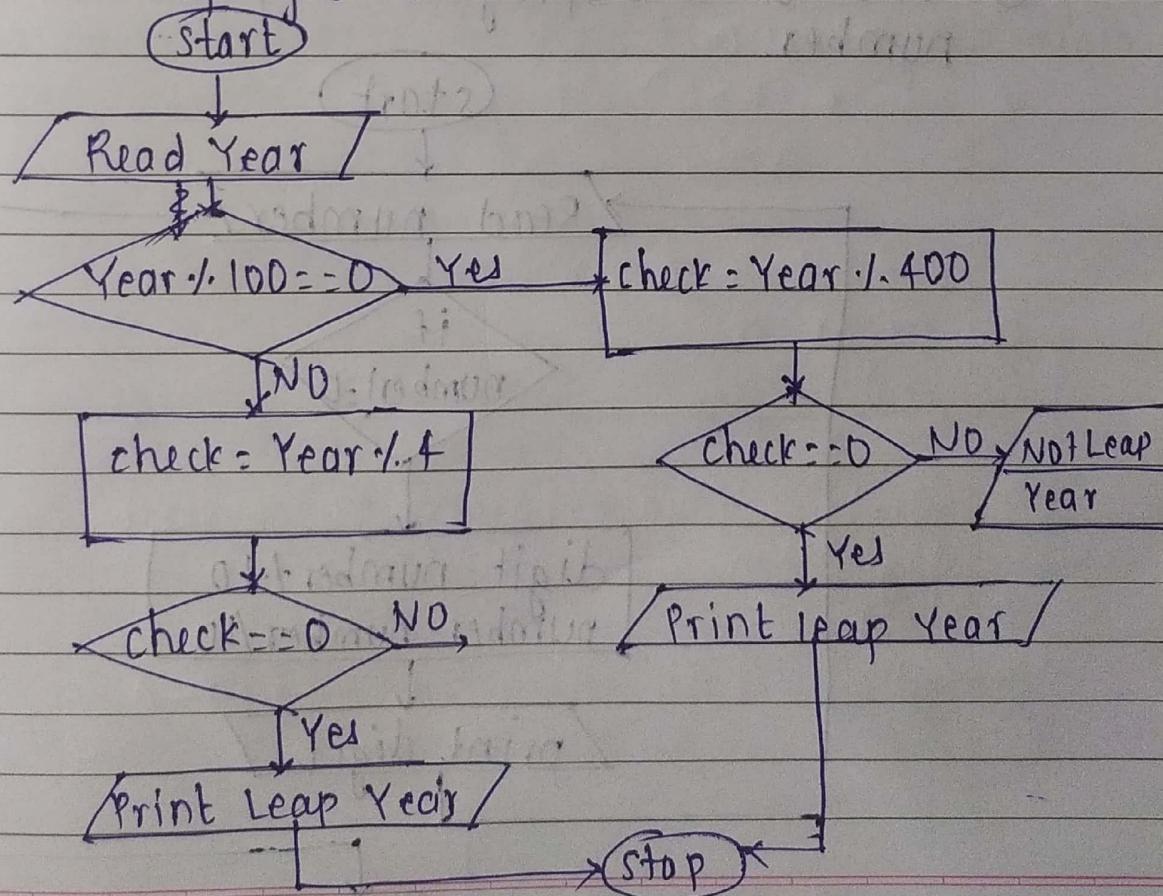
④ swap two numbers without using the a third variable approach.



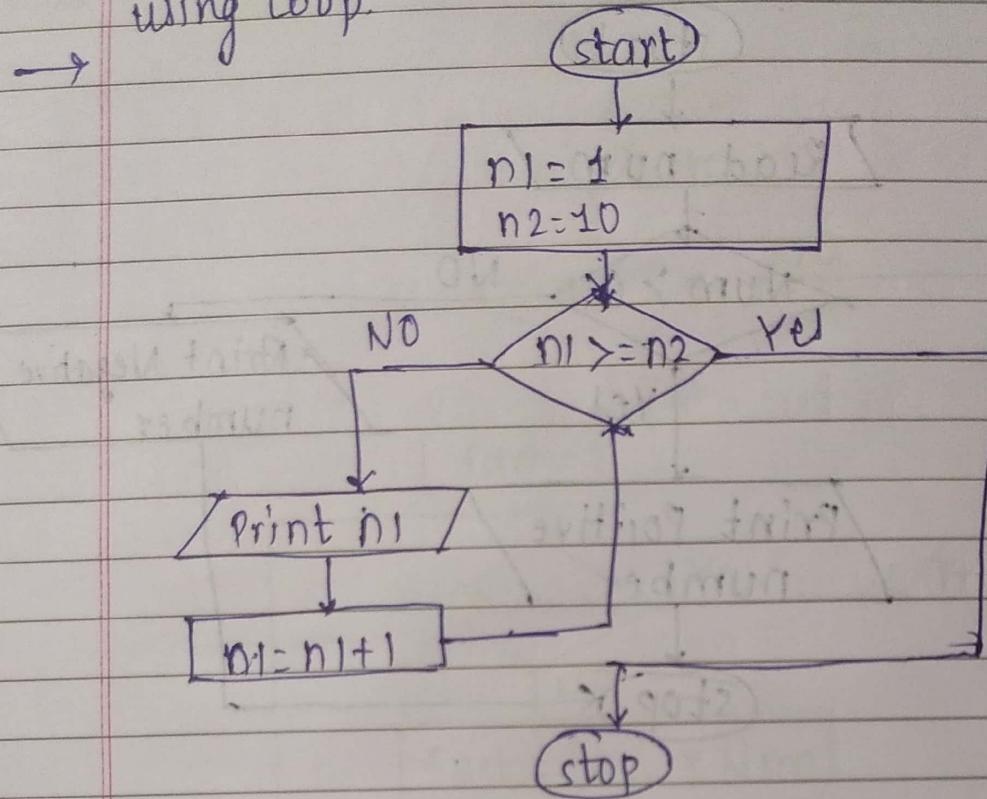
⑤ How to check whether the given number is positive or negative in Java?



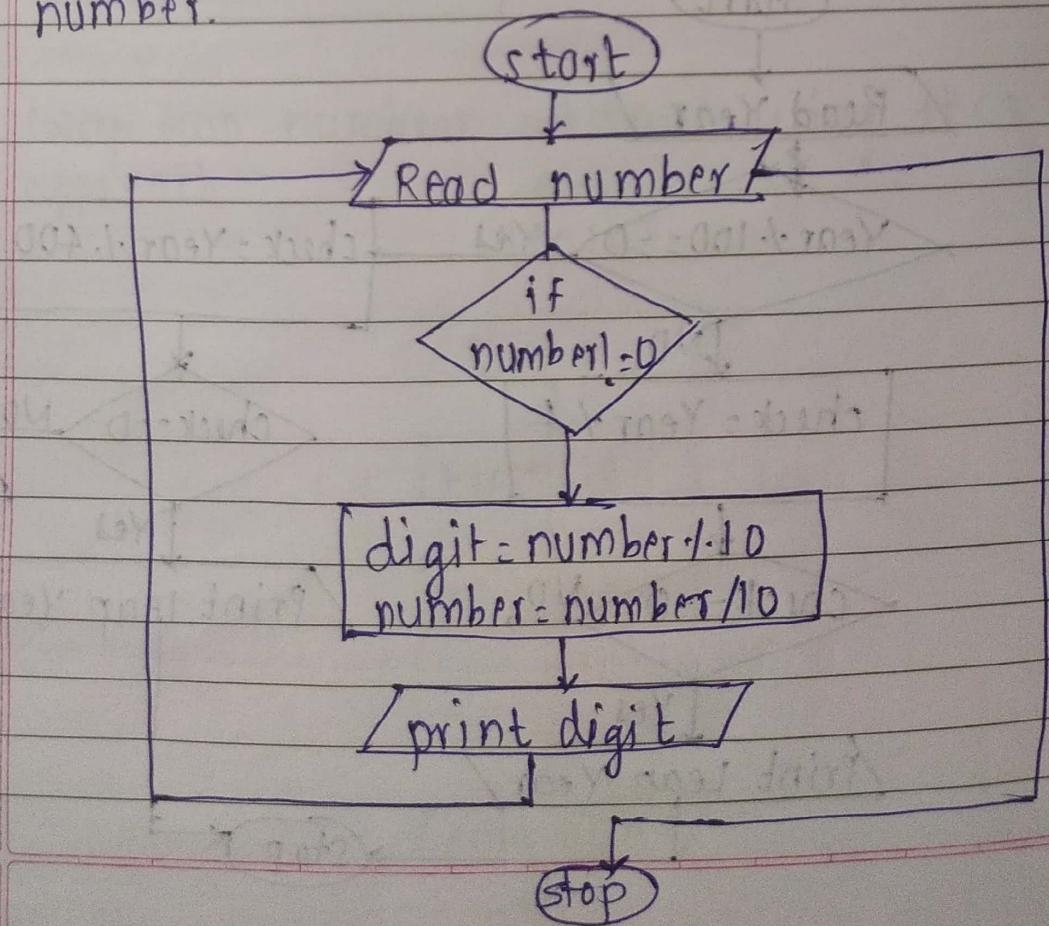
⑥ Write a Java program to find whether a given number is Leap year or NOT



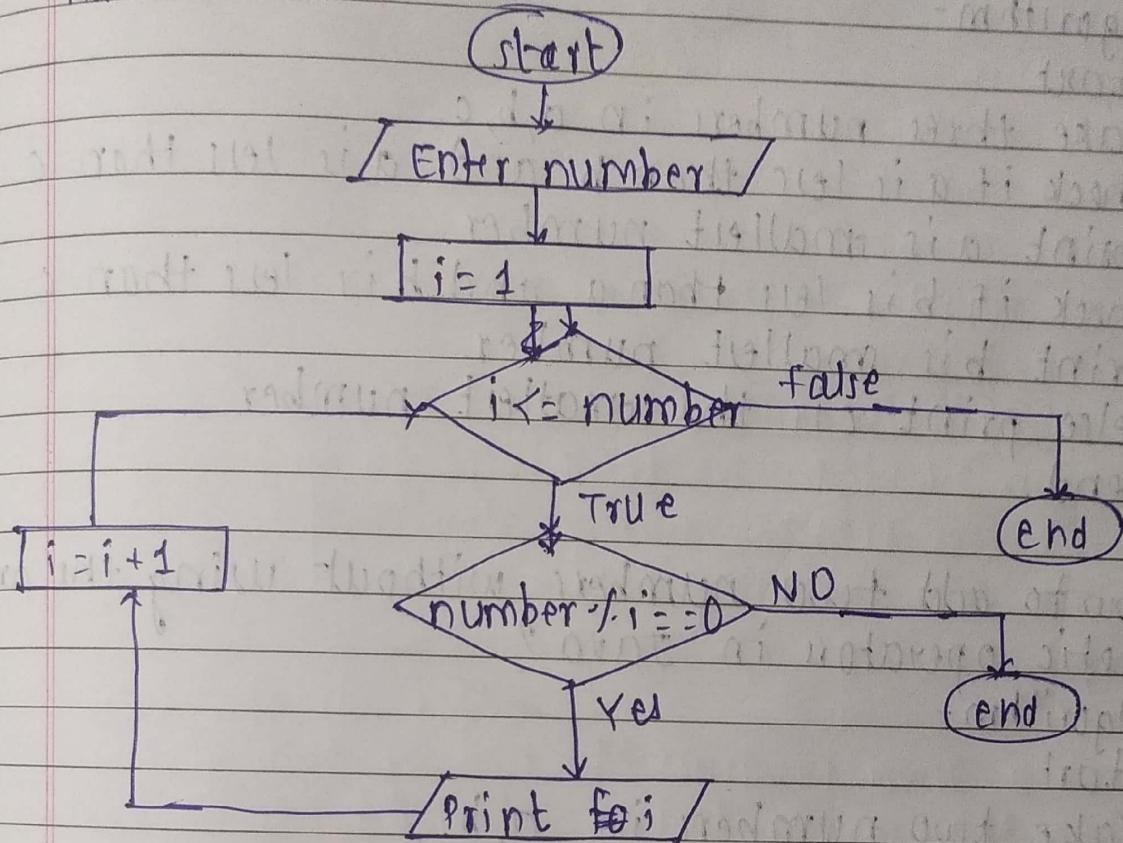
- ⑦ Write a Java program to print 1 to 10 without using loop.



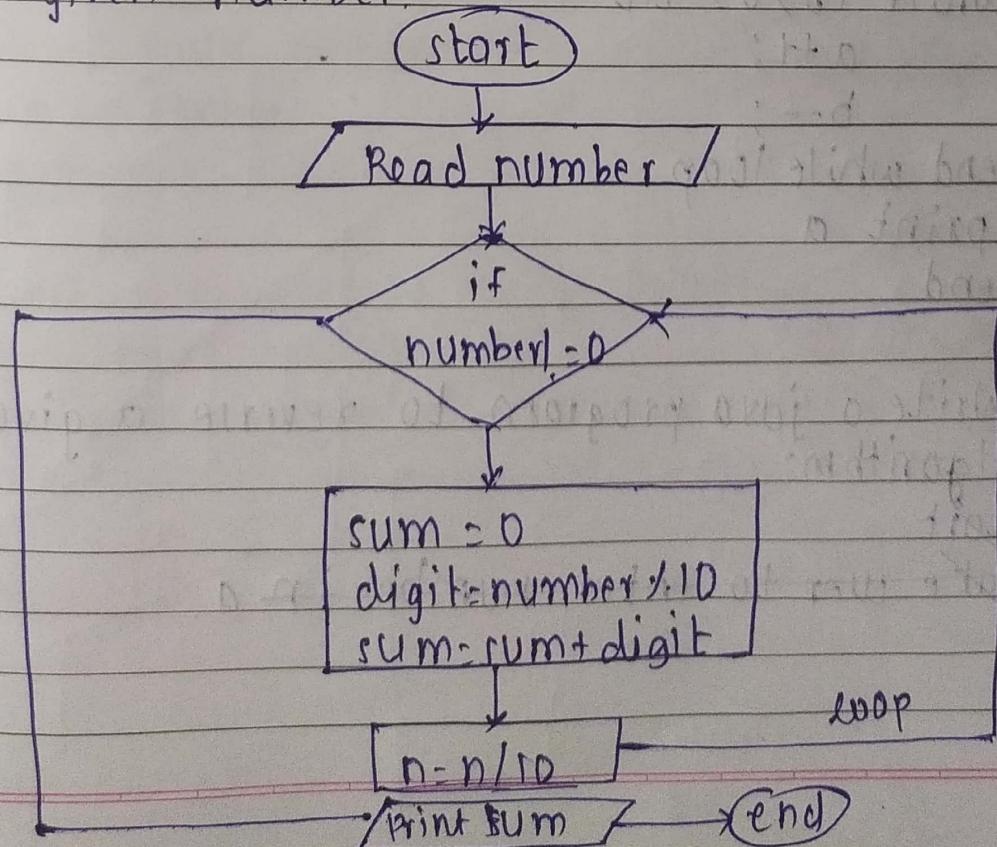
- ⑧ Write a Java program to print the digits of a given number.



⑨ Write a Java program to print all the factors of given number.



⑩ Write a Java program to find the sum of the digit of a given number.



⑪ Write a Java program to find the smallest of 3 numbers.

→ Algorithm -

- ① start
- ② Take three numbers in a, b, c.
- ③ check if a is less than b and a is less than c
- ④ print a is smallest number.
- ⑤ check if b is less than a and b is less than c
- ⑥ print b is smallest number.
- ⑦ else print c is the smallest number.
- ⑧ end.

⑫ How to add two numbers without using the arithmetic operators in Java?

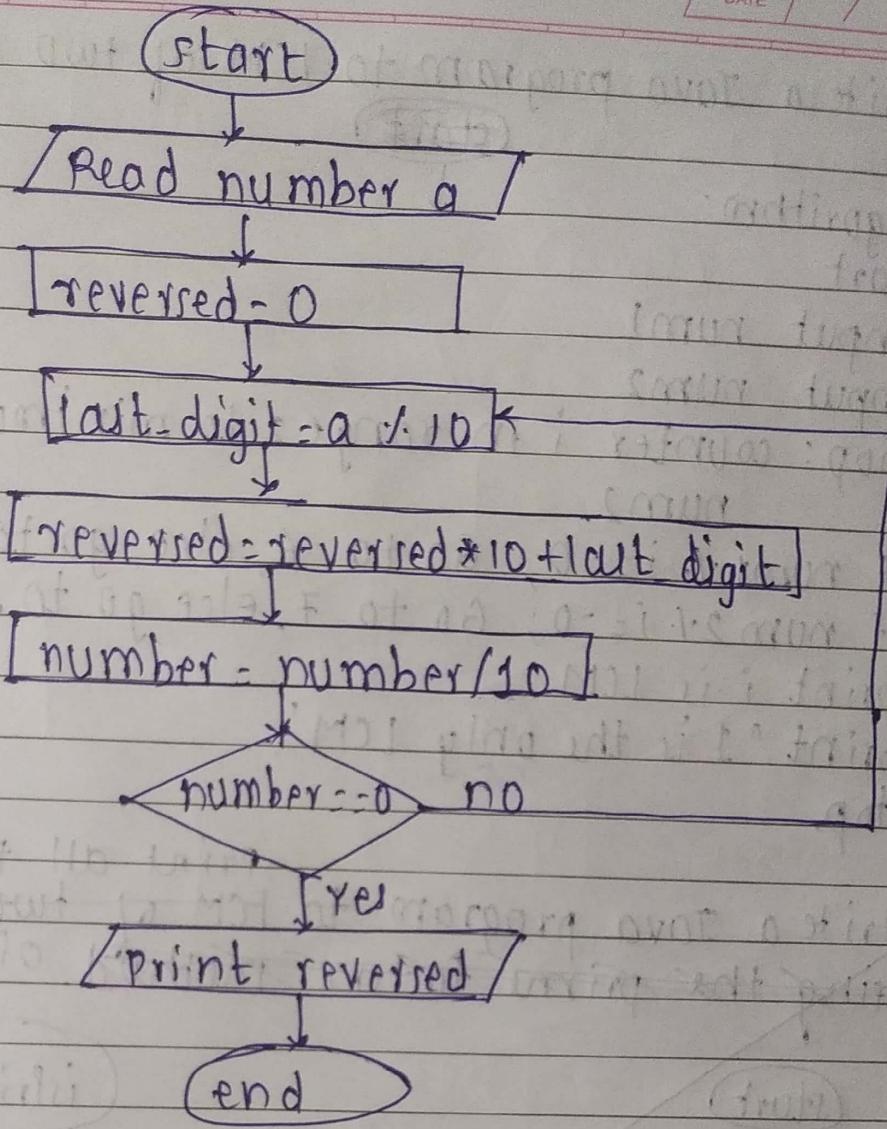
→ Algorithm -

- ① start
- ② Take two numbers in a, b.
- ③ if $a > b$ swap a and b
- ④ if $b > 0$ do
 - a++;
 - b--;
- ⑤ end while loop
- ⑥ print a
- ⑦ end

⑬ Write a java program to reverse a given number.

→ Algorithm -

- ① start
- ② take user to enter number in a
- ③



⑭ Write a java program to find the GCD of two given numbers.

→ Algorithm:

- ① Start
- ② Declare variable n1, n2, gcd=1, i=1
- ③ take input n1, n2.
- ④ ~~Read~~ Repeat until i <= n1 and i <= n2
 - (i) if n1 % i == 0 & n2 % i == 0 ;
 - (ii) gcd = i
- ⑤ print gcd
- ⑥ stop.

⑯ Write a Java program to LCM of two given numbers.

→ Algorithm:

① start

② input num1

③ input num2

④ Loop: counter i in range 2 to minimum of num1 and num2.

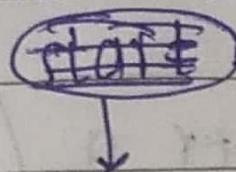
⑤ if num1 % i == 0; Go to 6; else go to 8.

⑥ if num2 % i == 0; Go to 7; else go to 8.

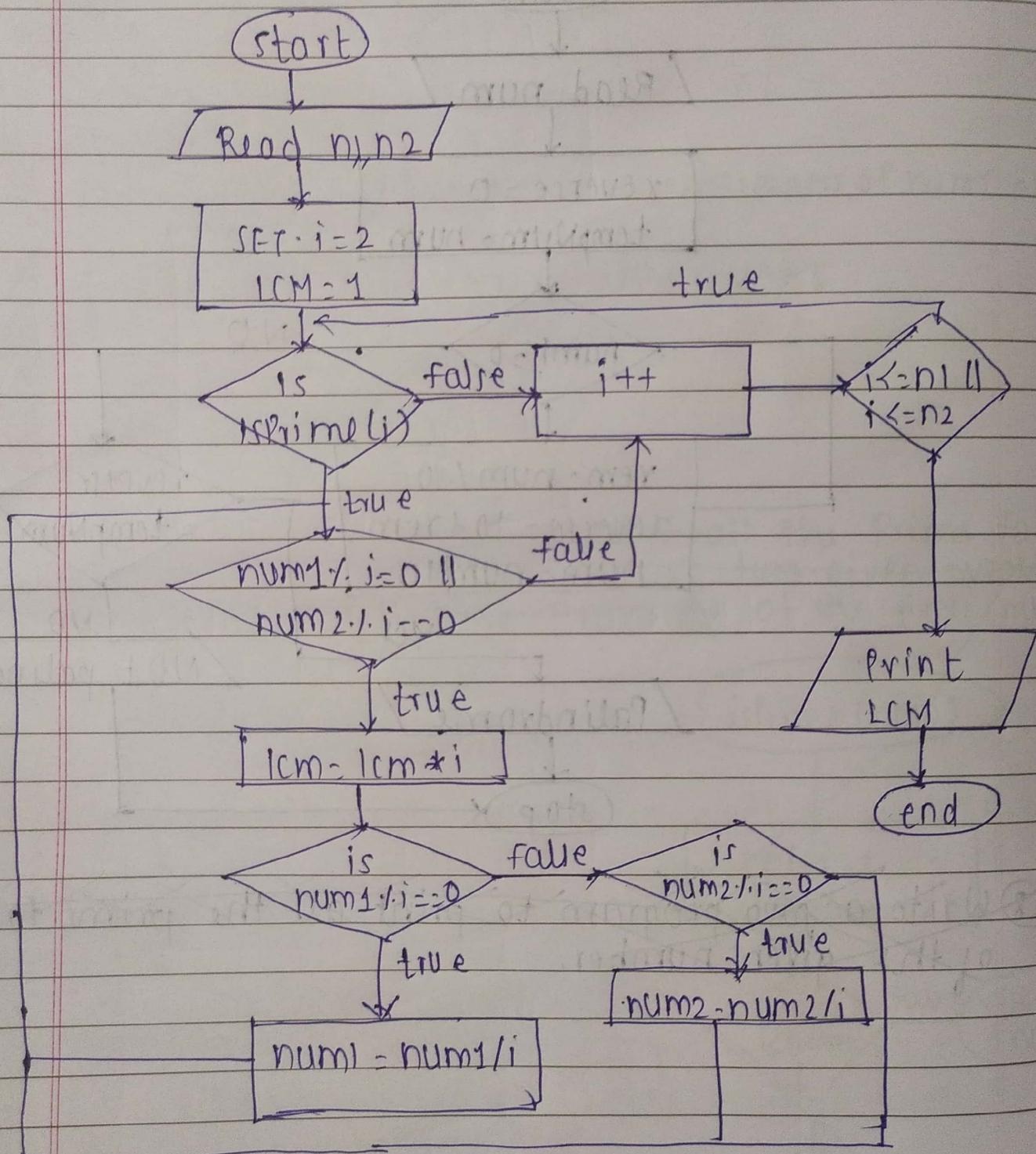
⑦ print i is LCM.

⑧ print '1 is the only LCM'.

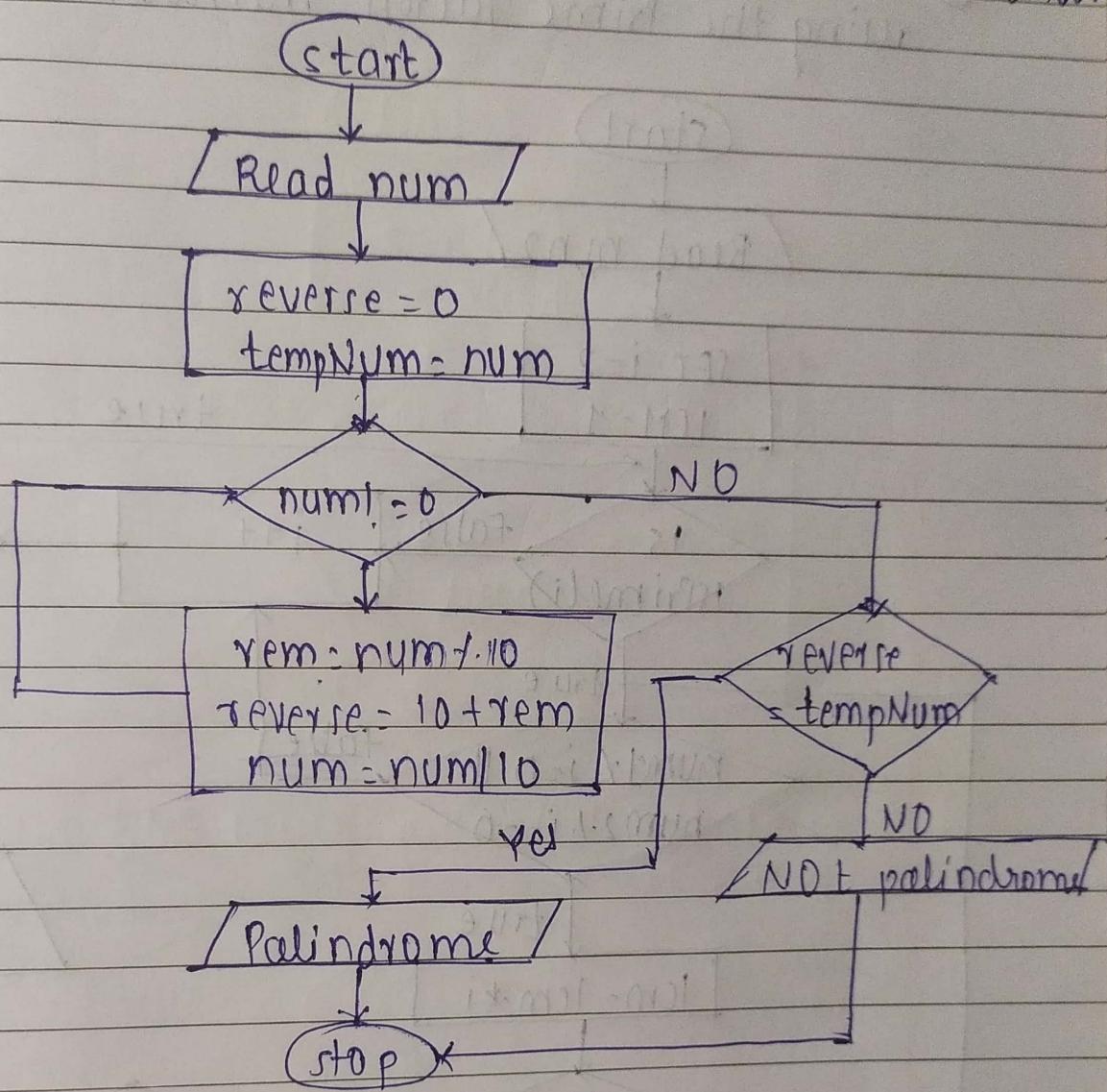
⑨ stop



⑯ Write a Java program to LCM of two given numbers using the prime factors method.

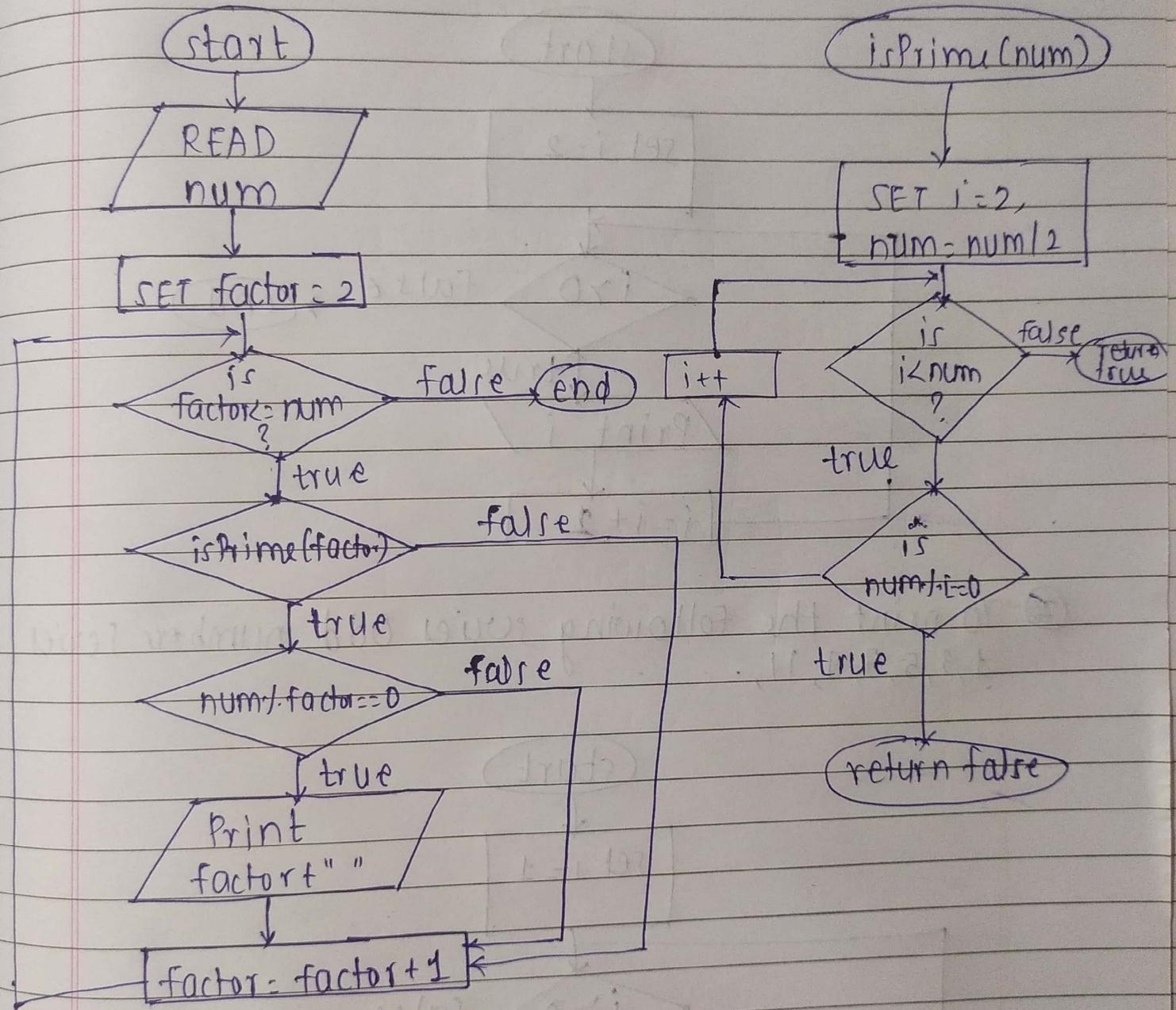


⑯ check whether the Given number is a Palindrome or NOT

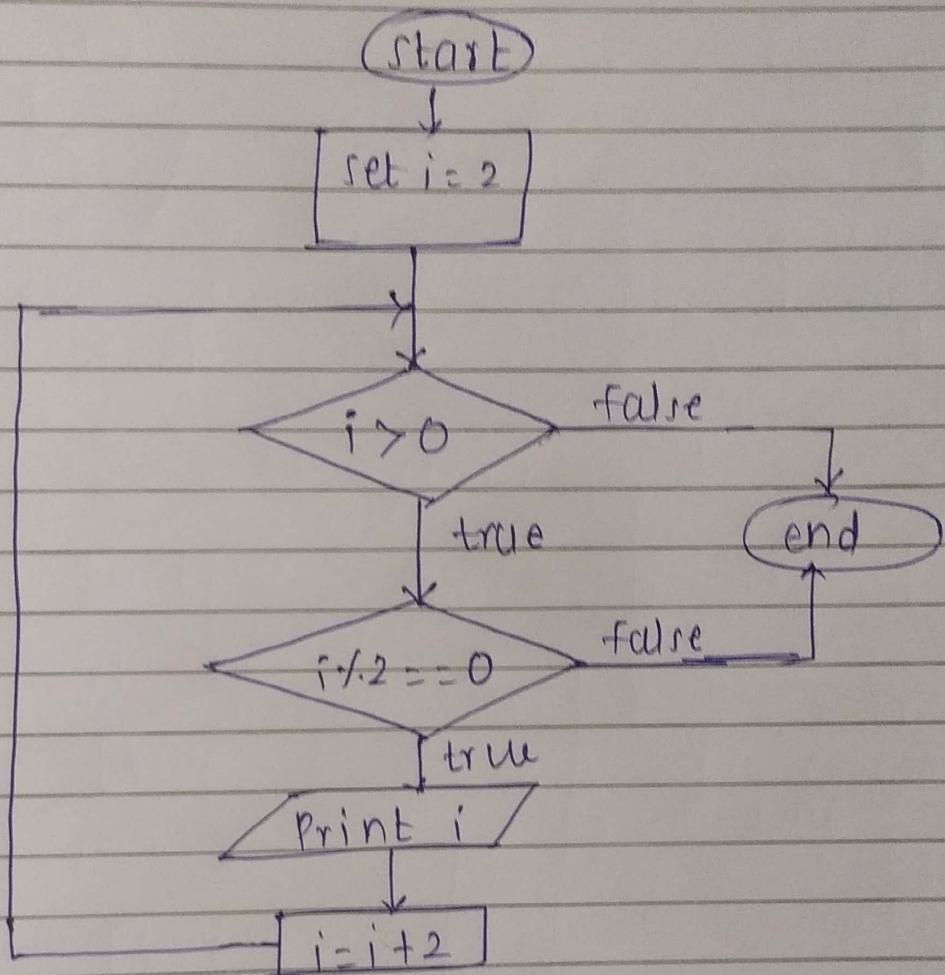


⑰ Write a java program to print all the prime factors of the given number.

⑧ Write a Java Program to print all the prime factors of the given number.



⑨ To print the following series Even numbers series
 $2, 4, 6, 8, 10, 12, 14, 16, \dots$



② To print the following series Odd number series
1, 3, 5, 7, 9, 11, ...

