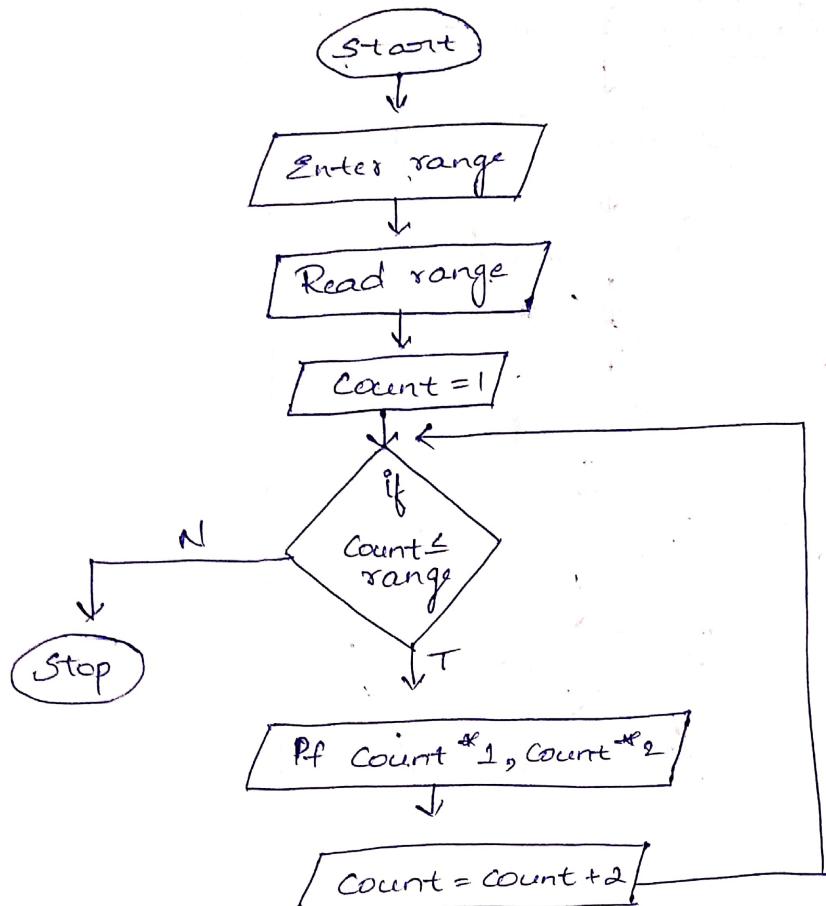
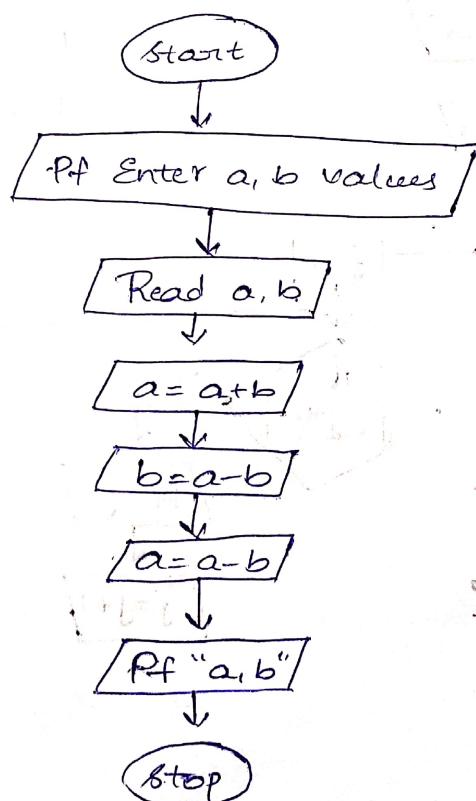


## FLOWCHARTS

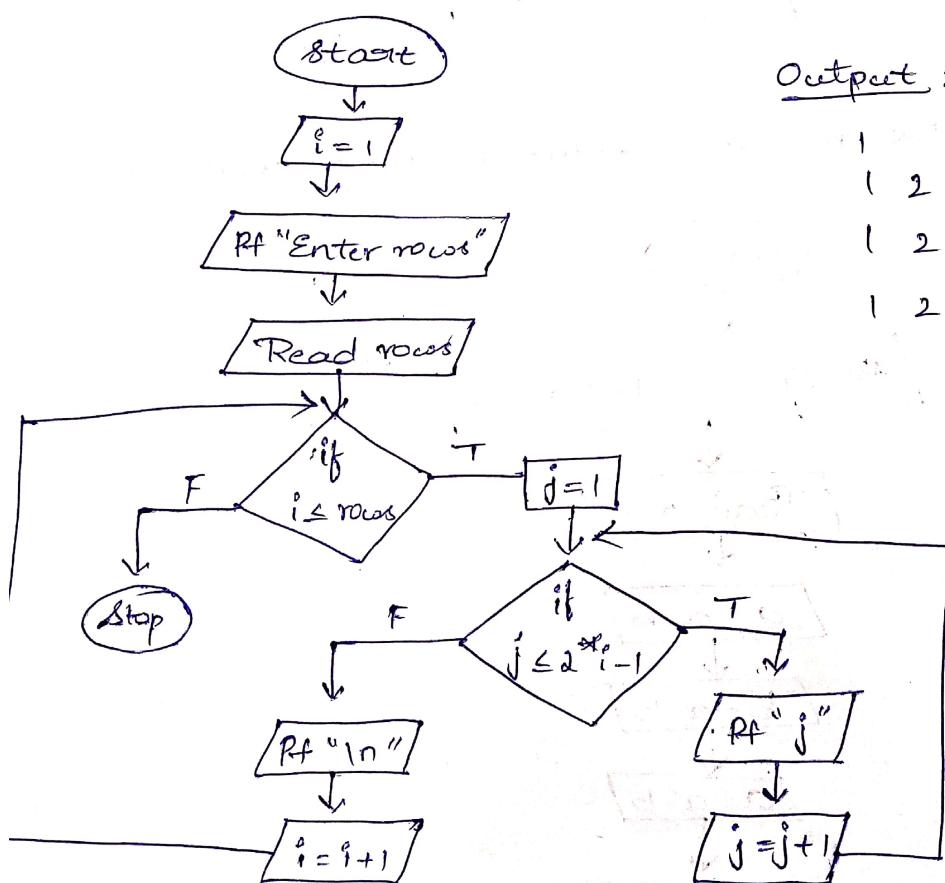
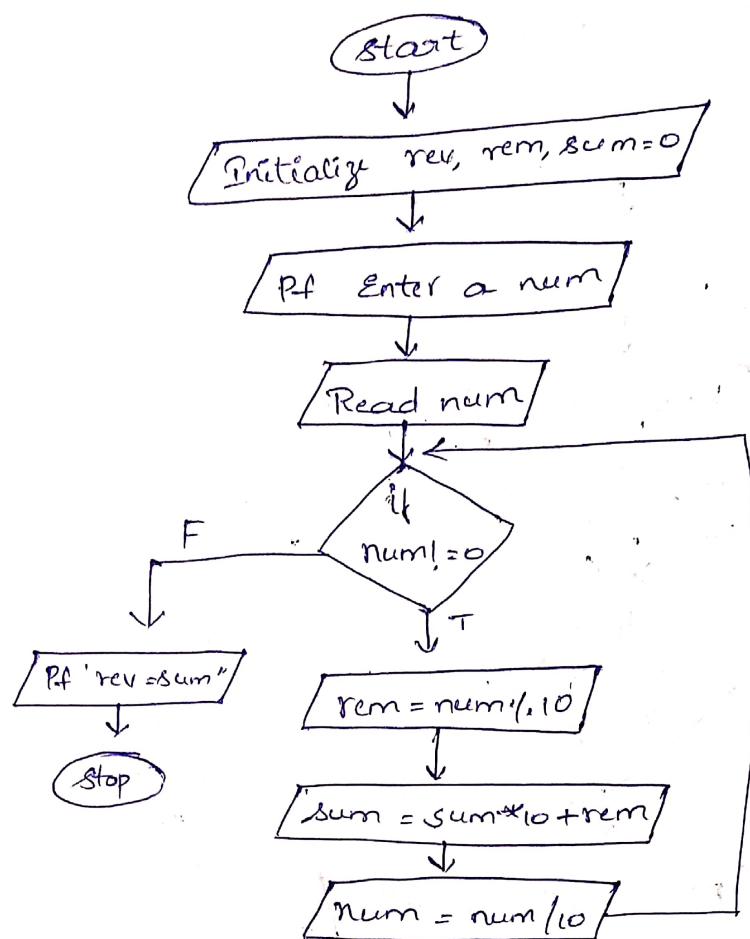
Q 1, 2, 3, 6, 5, 10, 7, 14, 9, 18. . .



② Swapping two numbers without temp. variable



### 3. Reverse a number



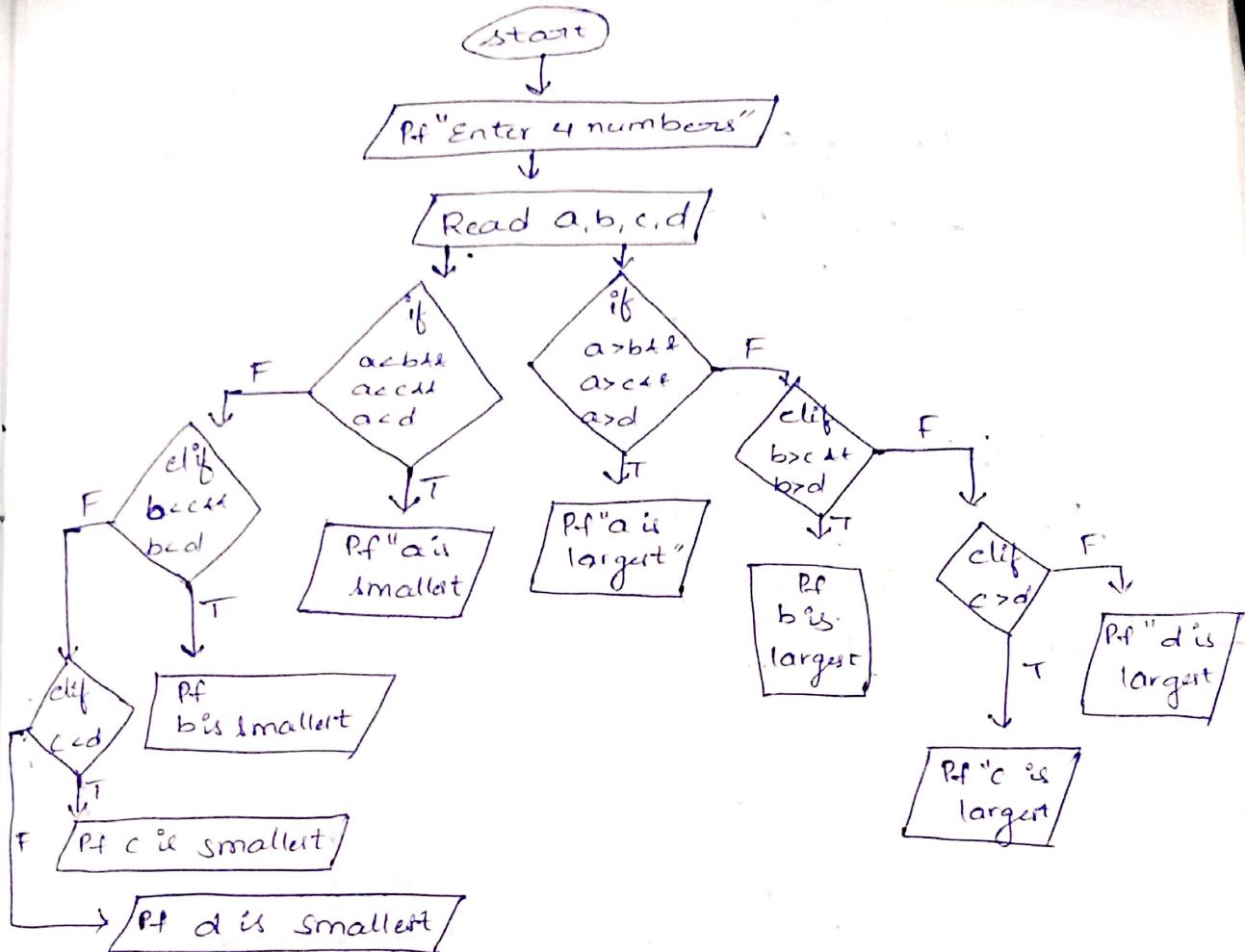
Output :-

1 2 3

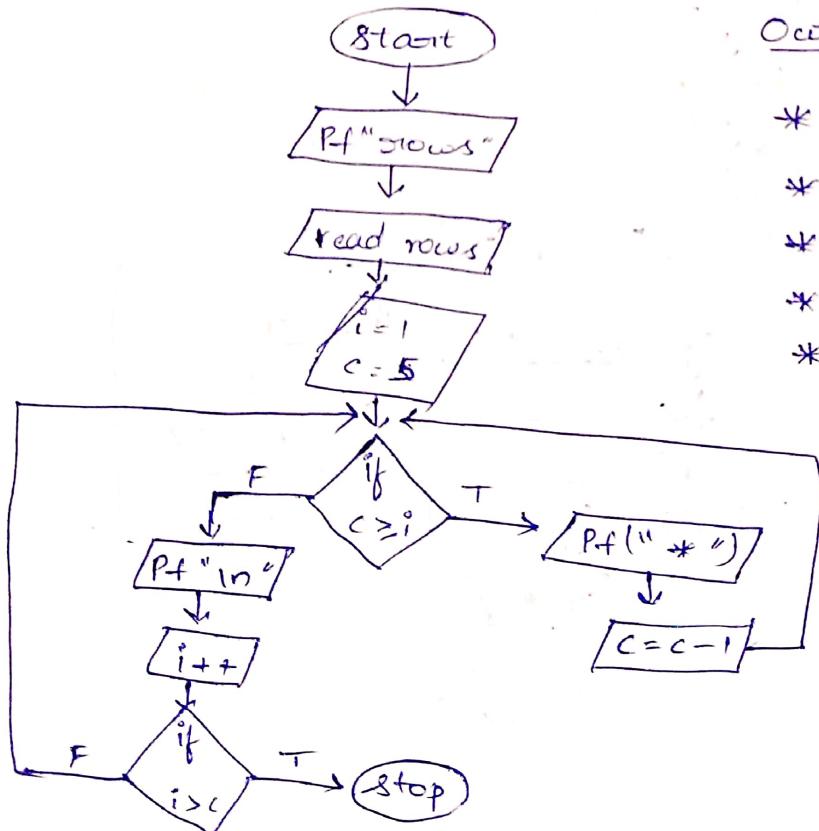
1 2 3 4 5

1 2 3 4 5 6 7

5. largest number & smallest number among 4 numbers



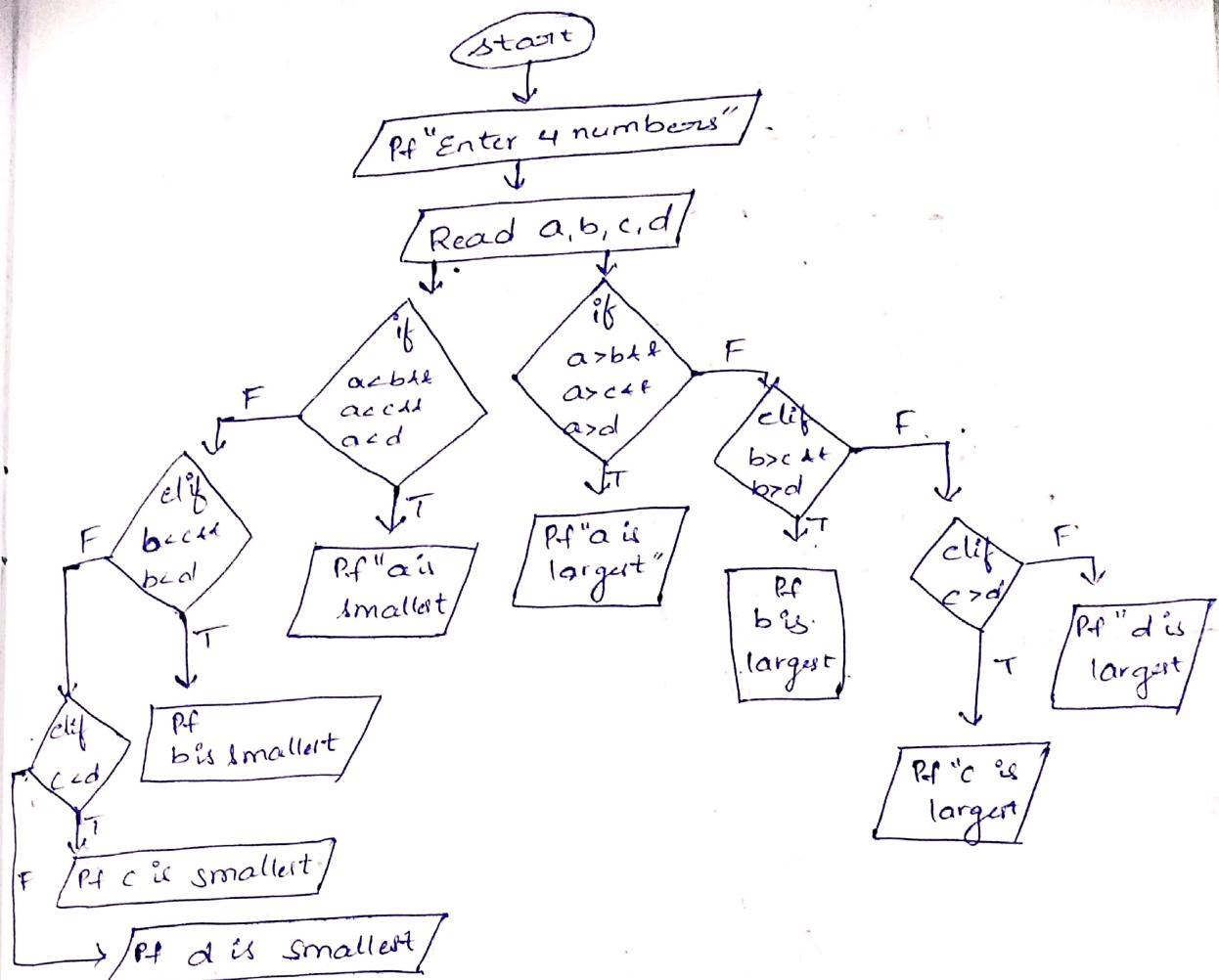
6.



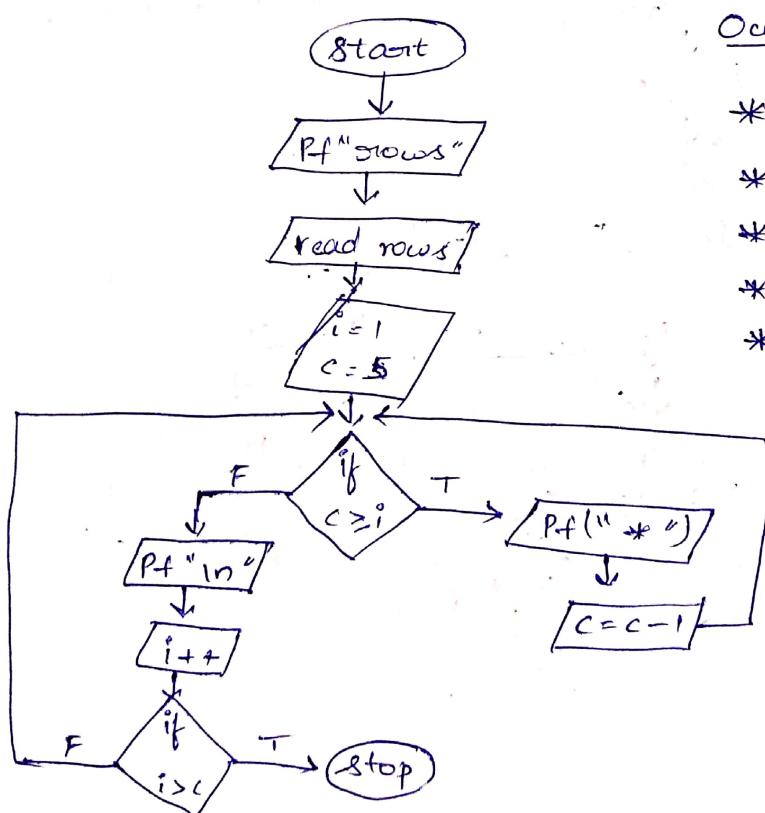
Output :-

\* \* \* \* \*  
\* \* \* \*  
\* \* \*  
\* \*  
\*

5. Largest number & Smallest number among 4 numbers



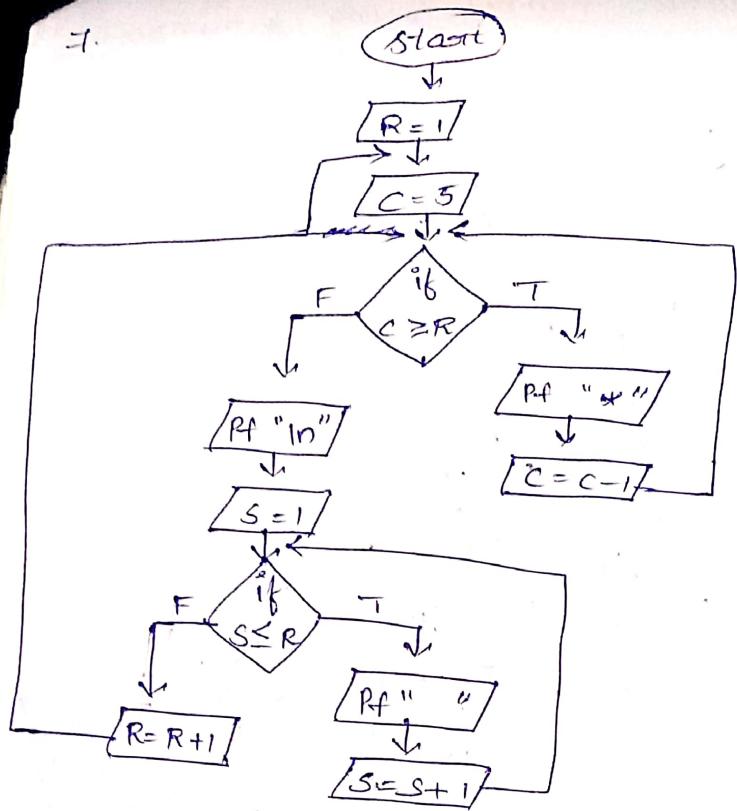
6.



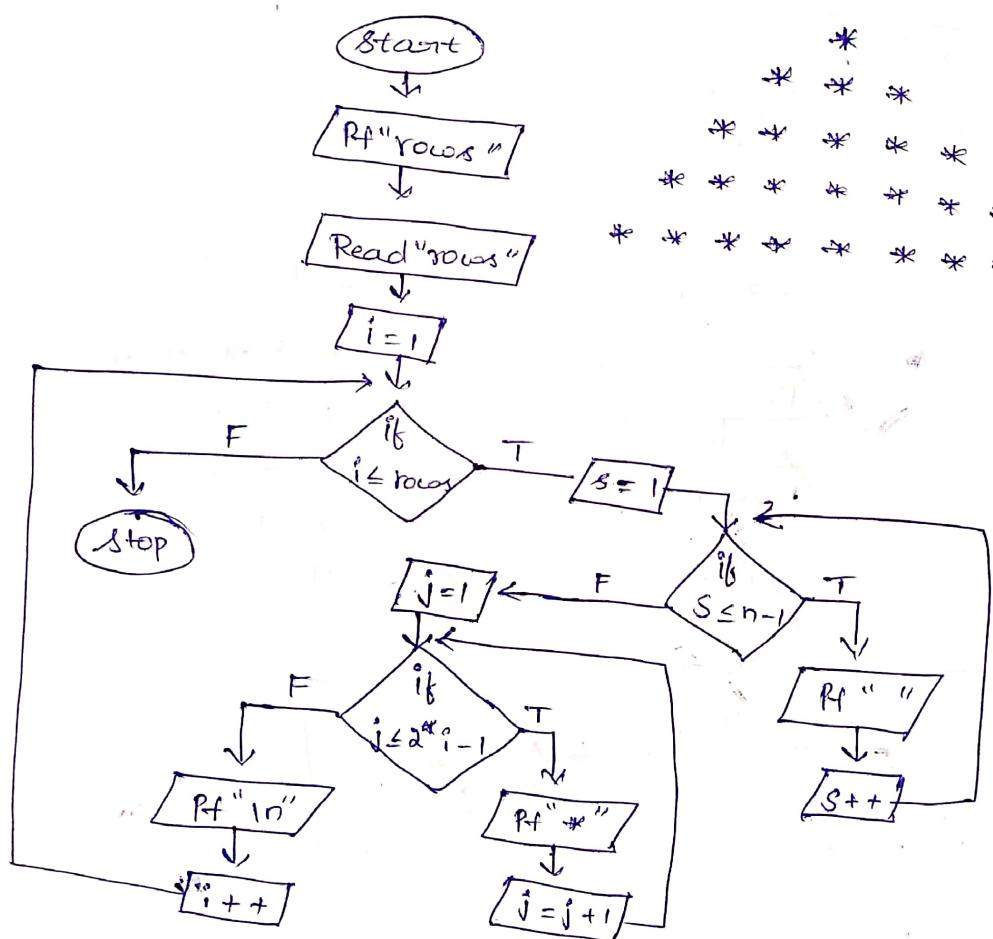
Output :-

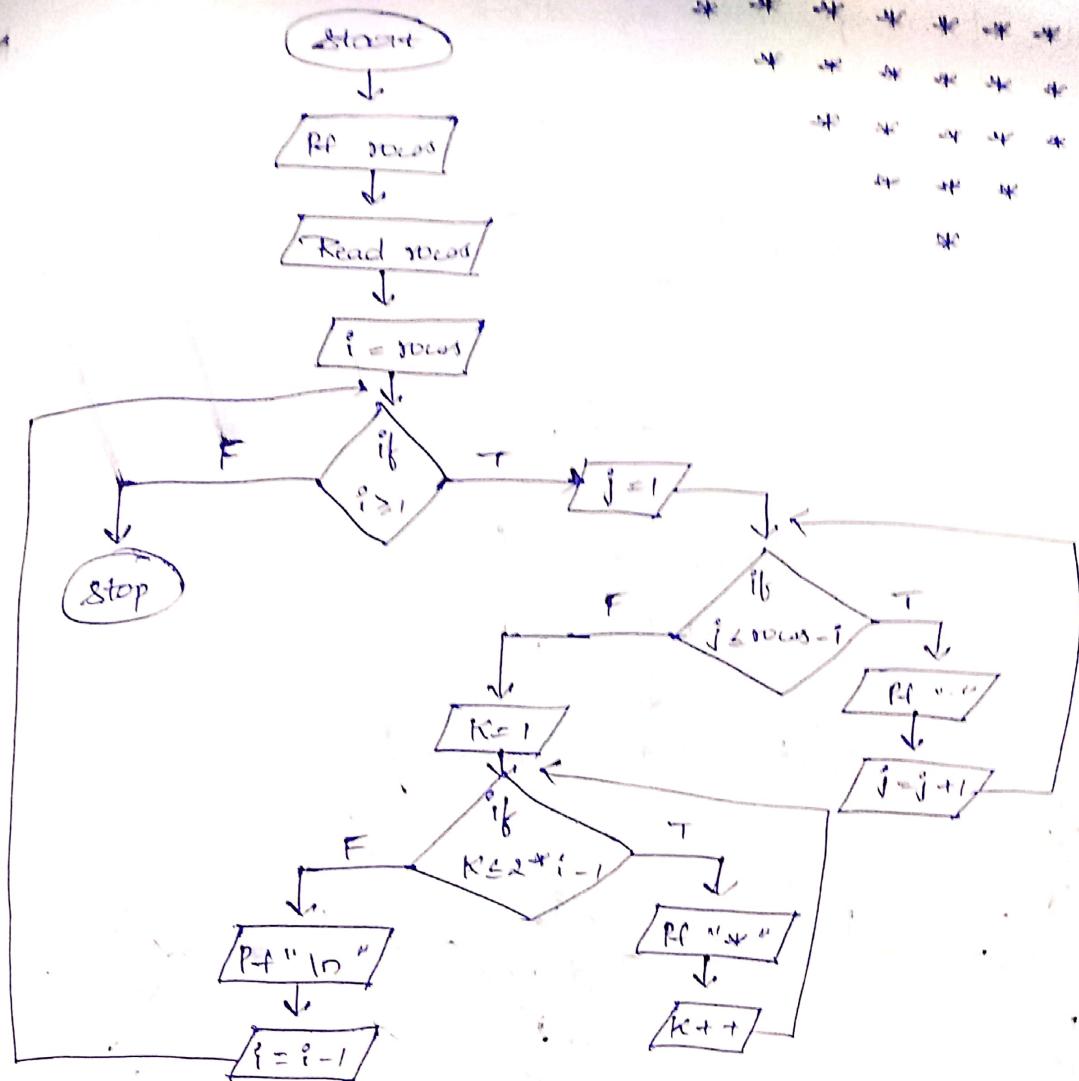
\* \* \* \* \*  
\* \* \* \*  
\* \* \*  
\* \*  
\*

7.

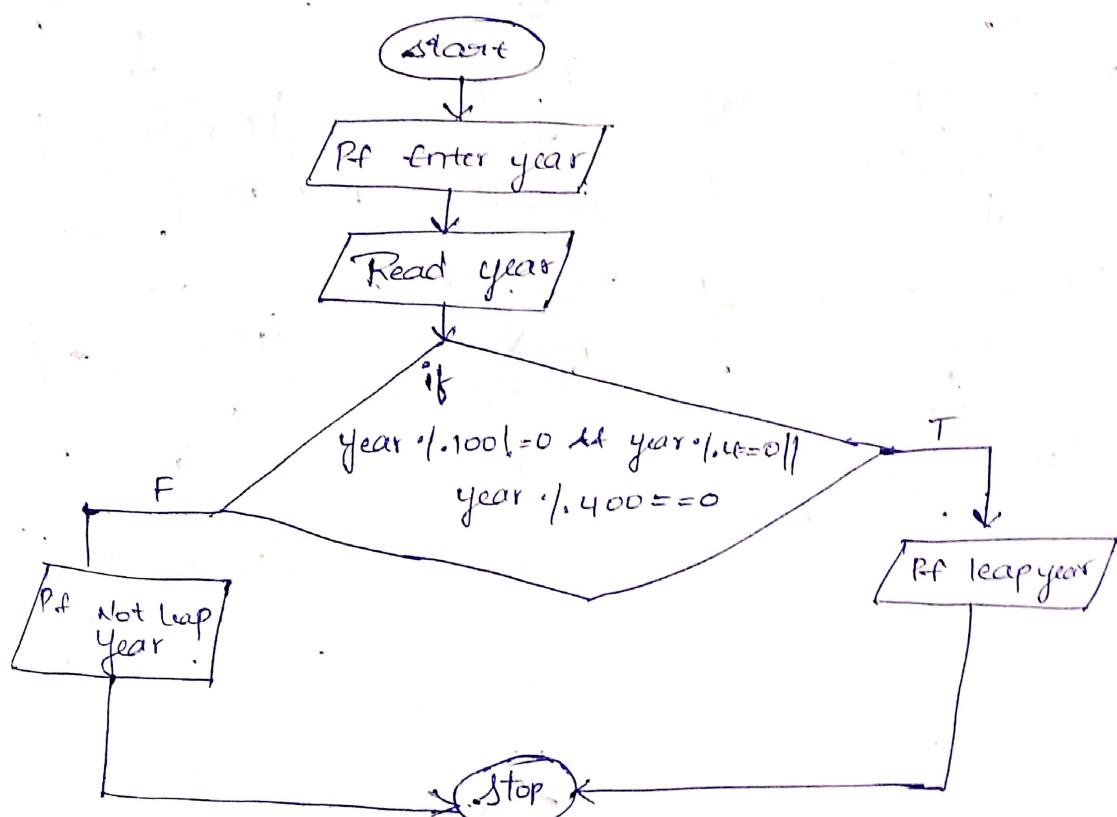


8.





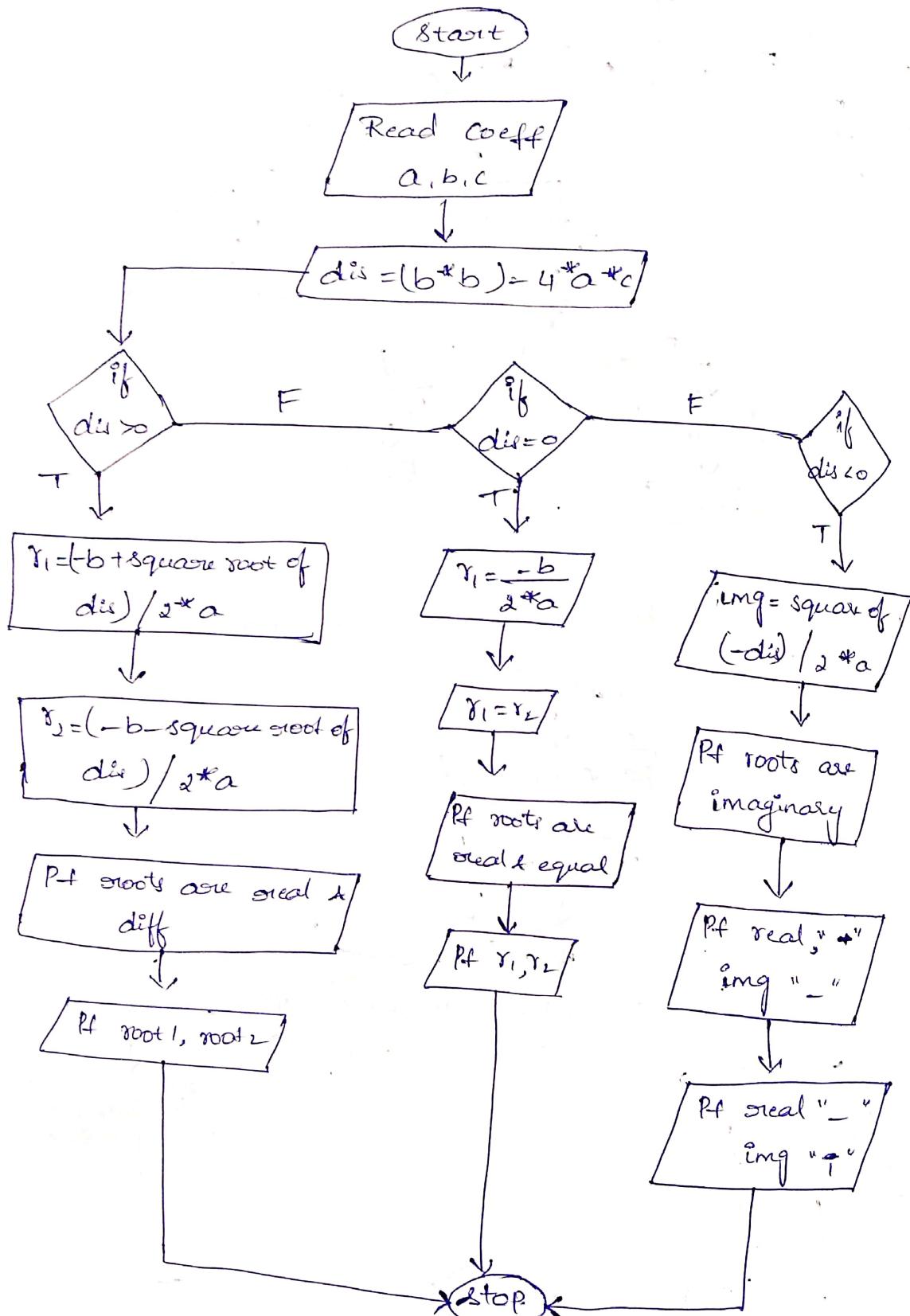
10. find given number is leap year or not.



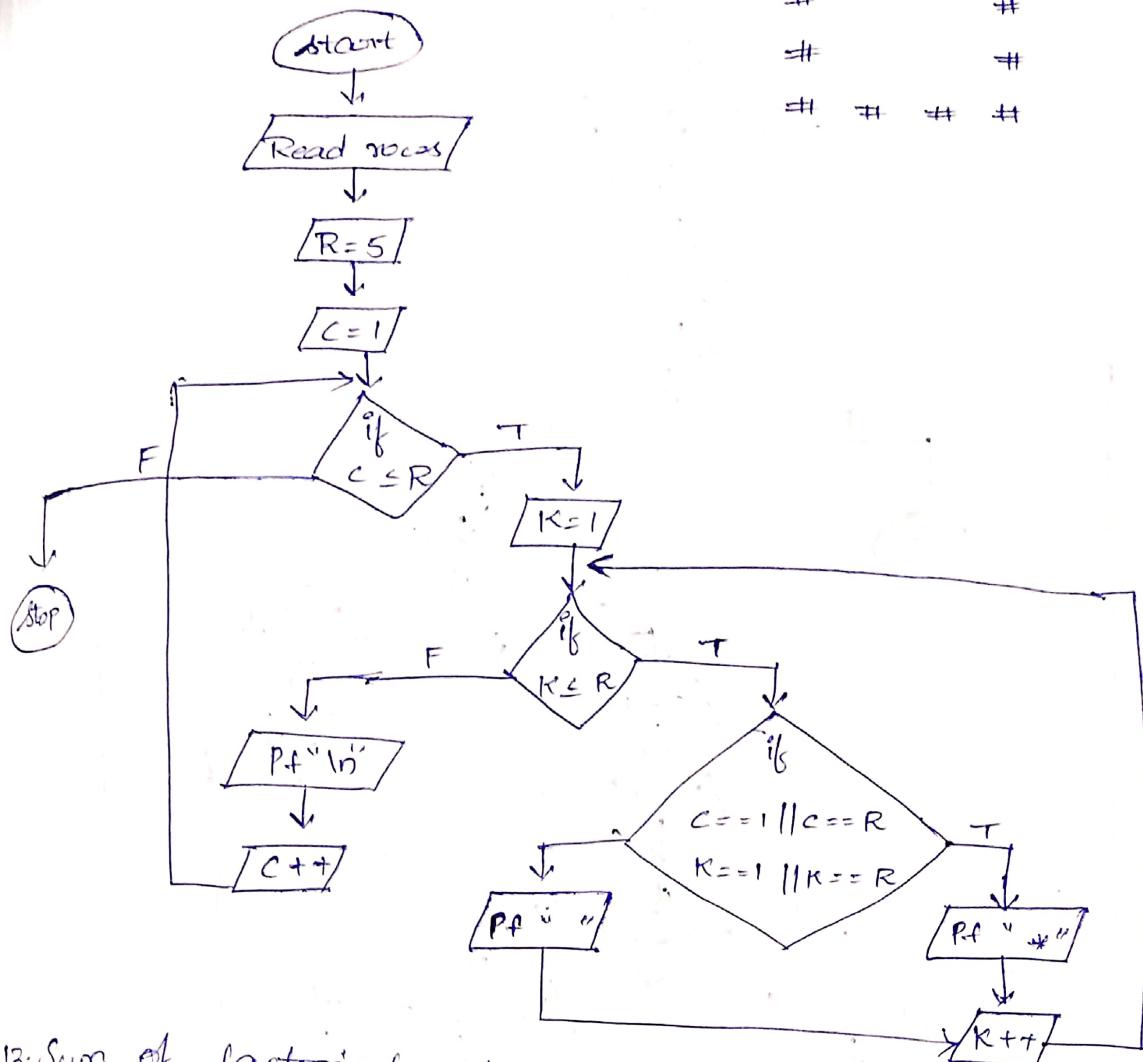
## 11. Roots of a quadratic equation

$$ax^2 + bx + c = 0$$

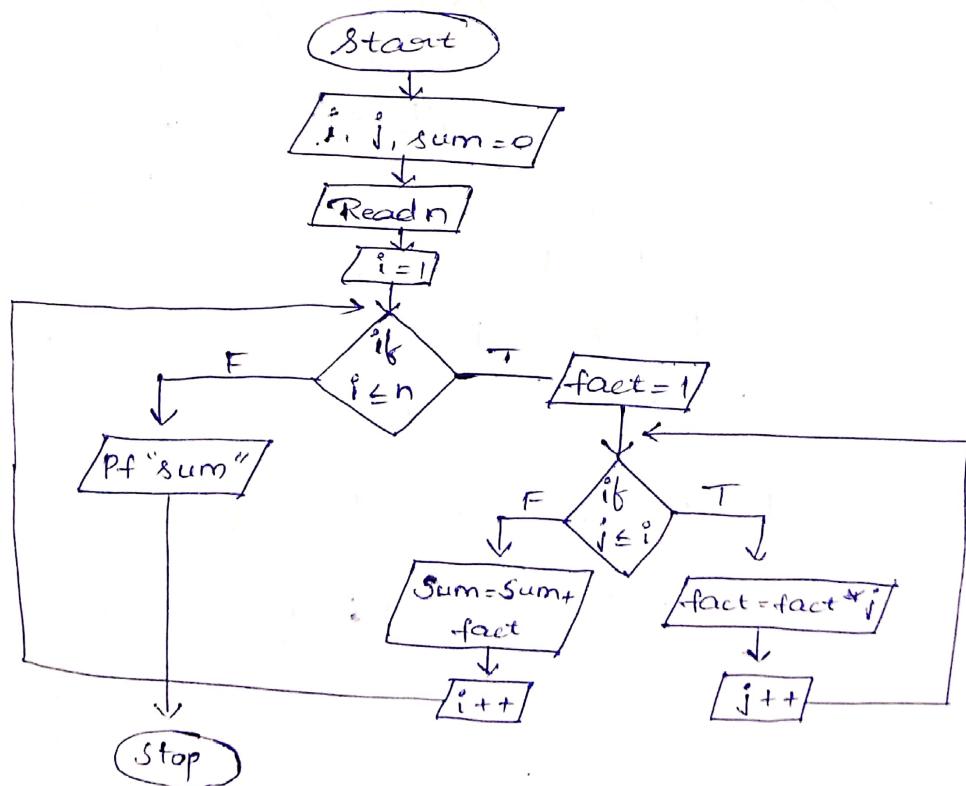
$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$



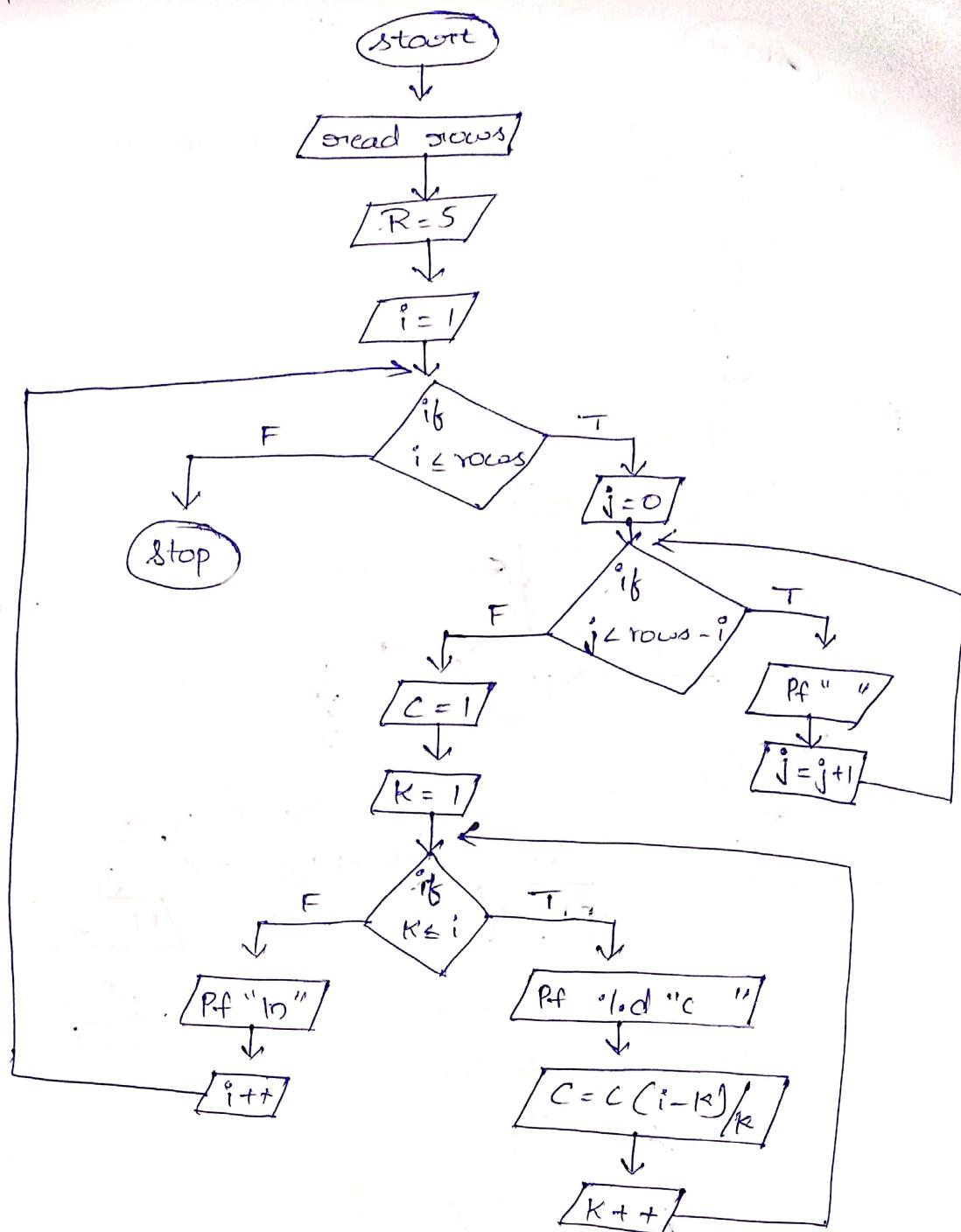
12. Hollow square



13. Sum of factorial of series



# 14. Pascal Triangle

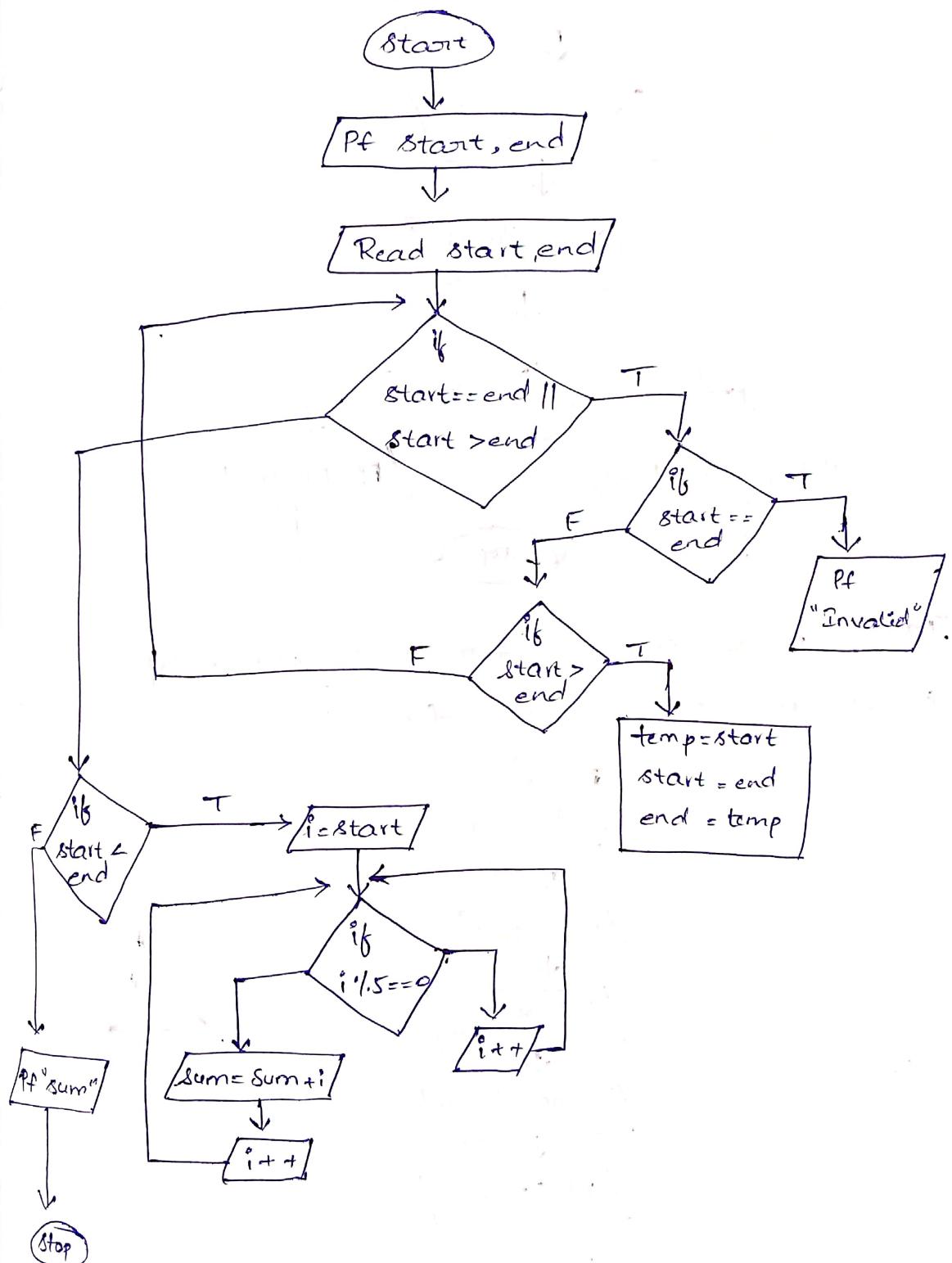


Output :-

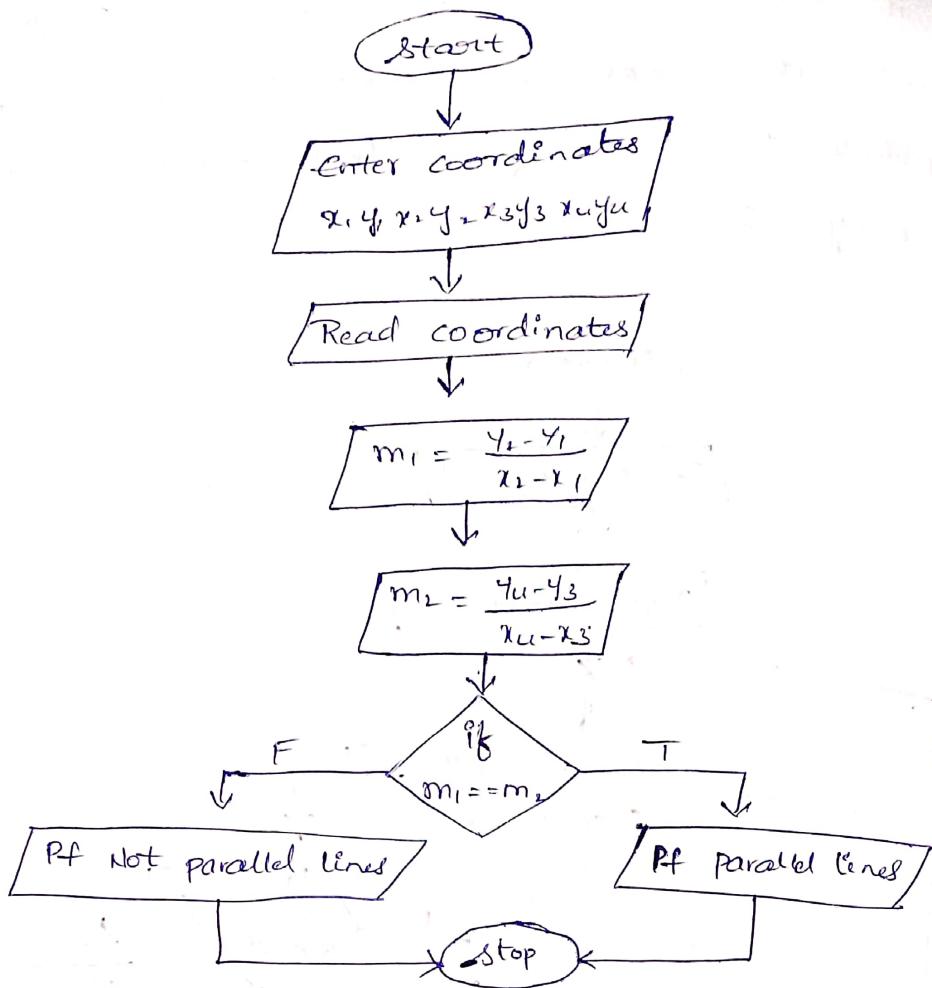
```

      1
      1   1
      1   2   1
      1   3   3   1
      1   4   6   4   1
      1   5   10  10  5   1
  
```

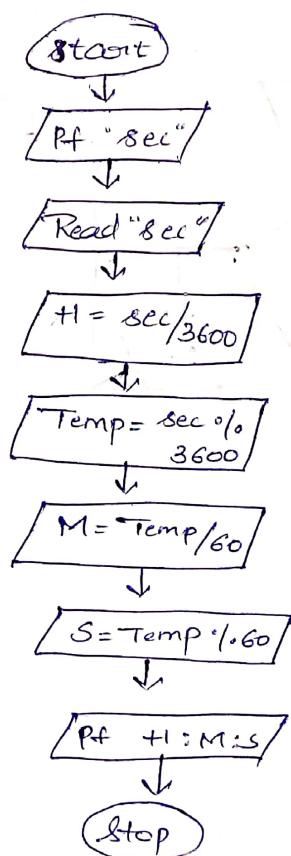
15. Take two ranges from user if start is equal to end it shows invalid and if start is greater than end it swaps and start is less than end and prints the sum of numbers which are not divisible by 5.



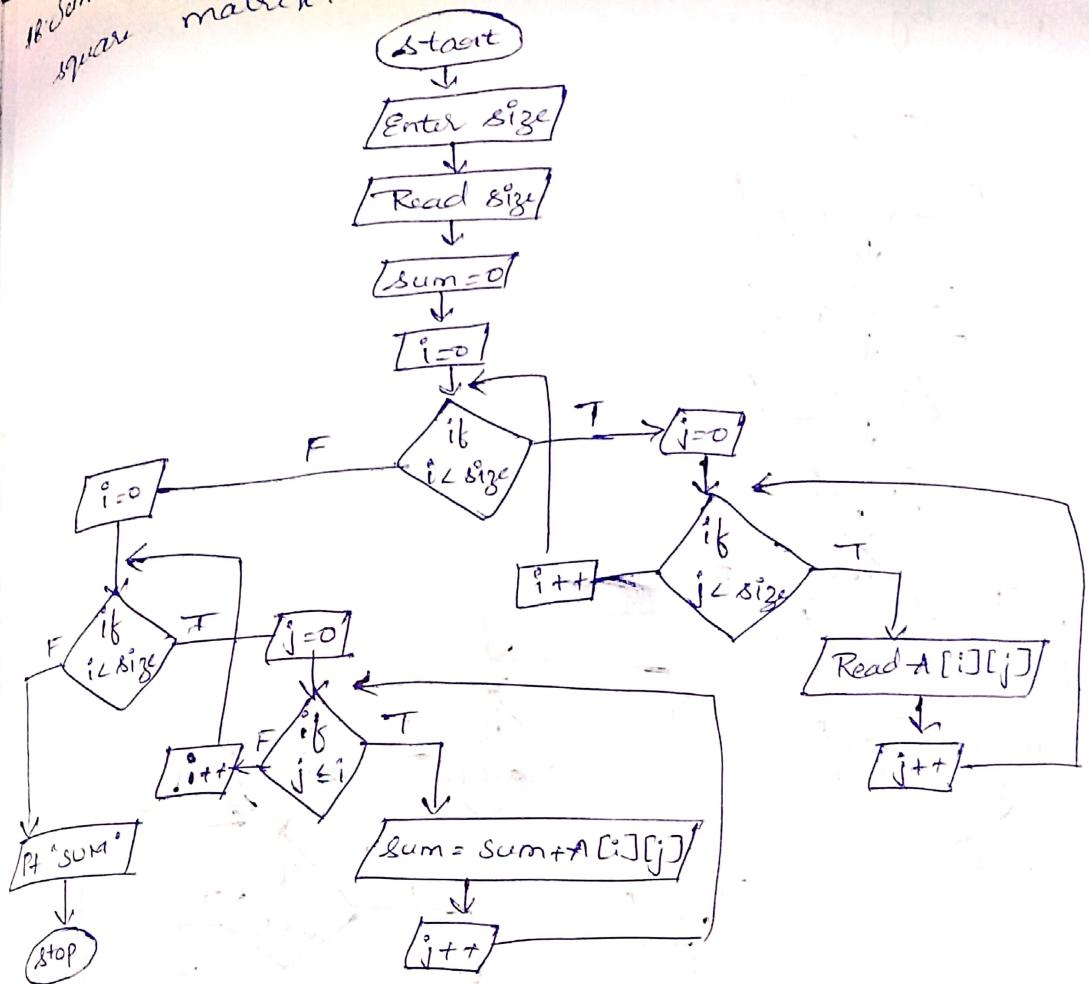
16. Check whether two lines are parallel or not.



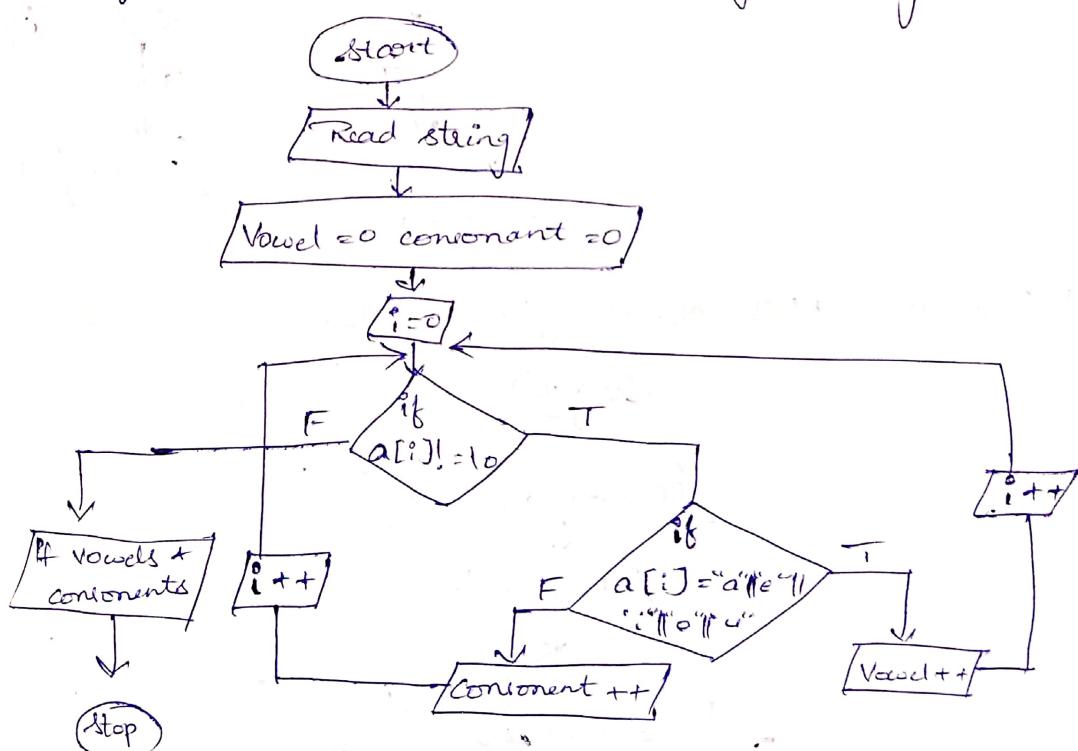
17. Take I/P as seconds from user and print into Hours : Minutes : .Second format.



18. Sum of the elements of the lower triangle in a matrix.

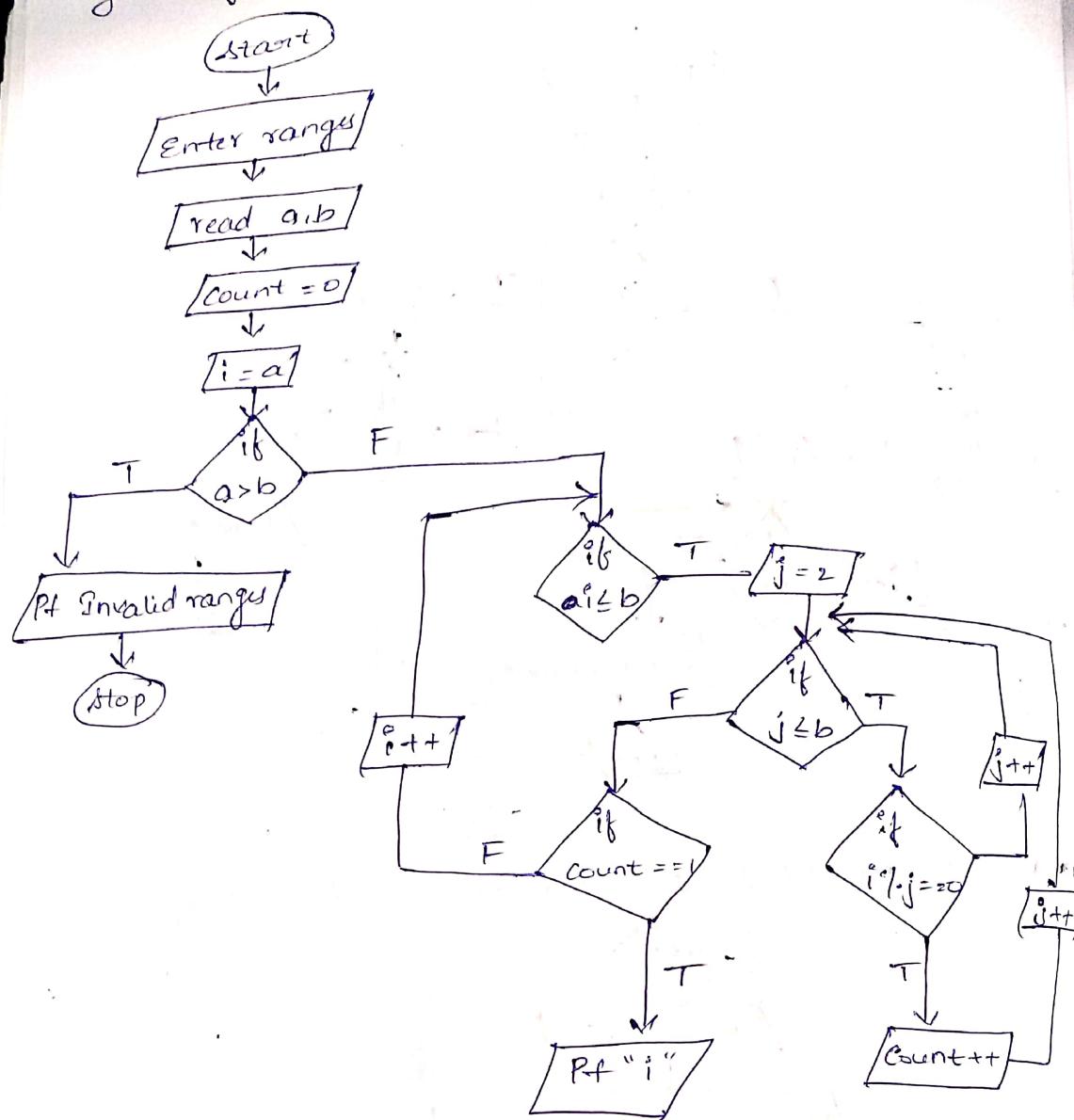


19. No. of vowels & consonants in a given string

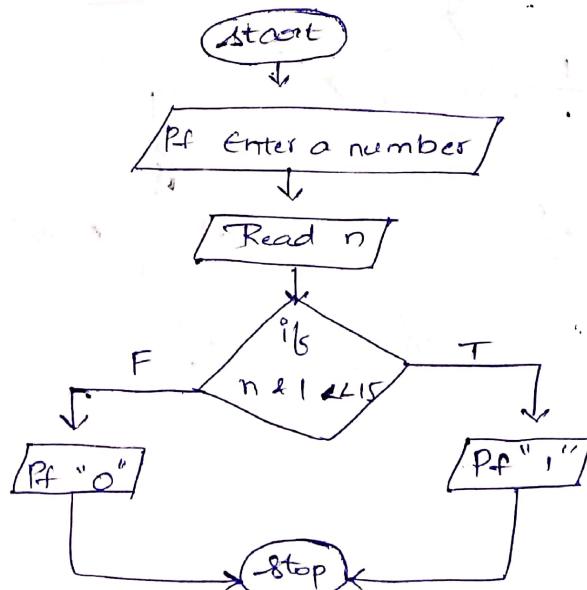


20. find the prime numbers between two ranges given by user.

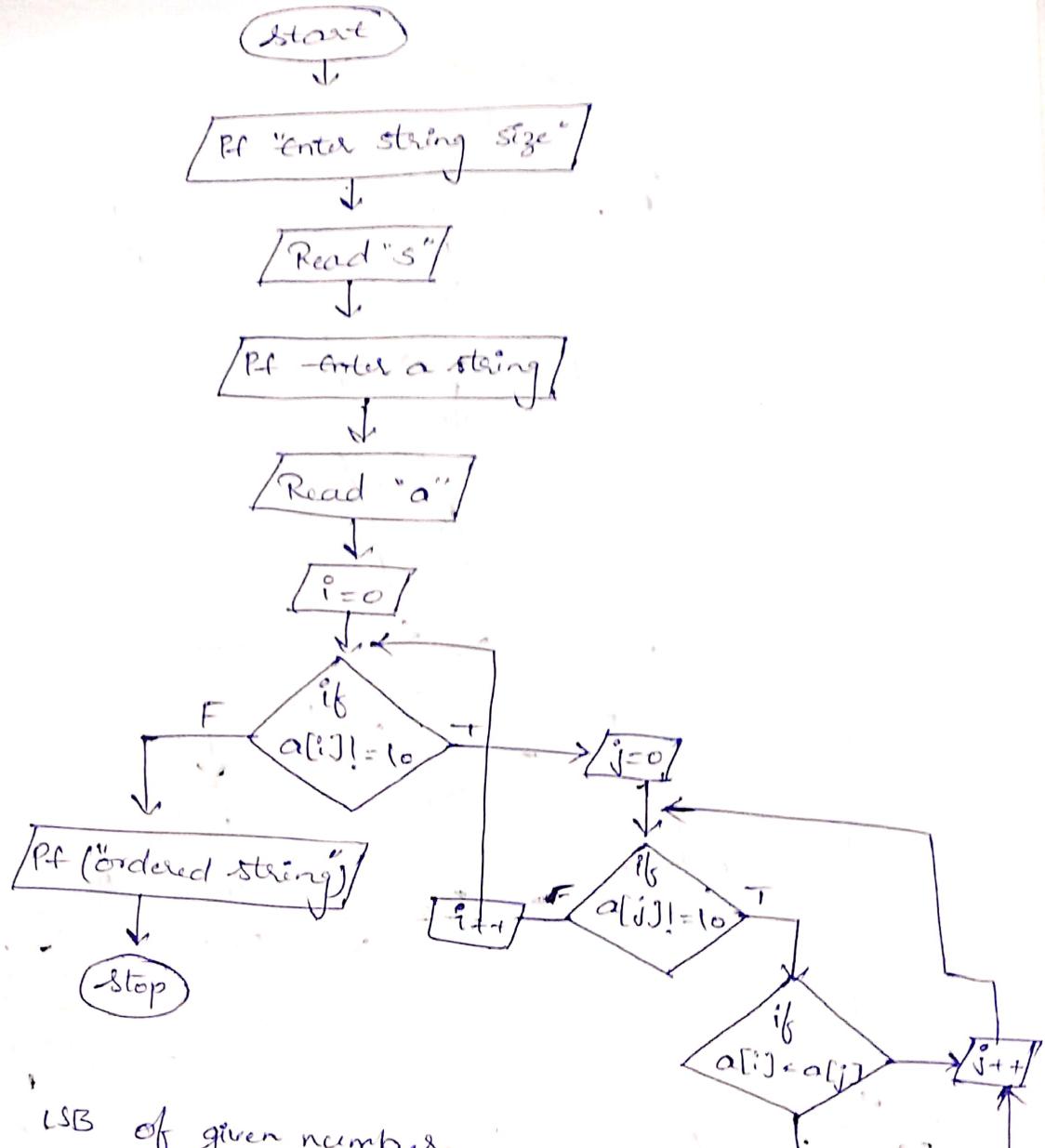
22.



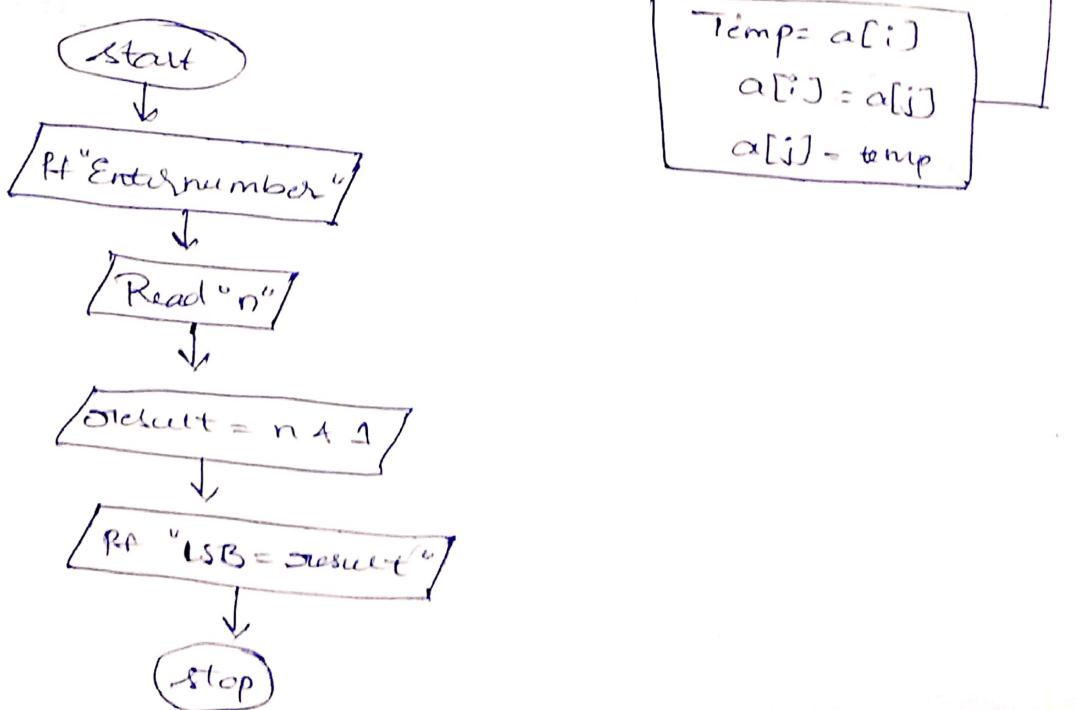
21. Find the MSB of a given number.



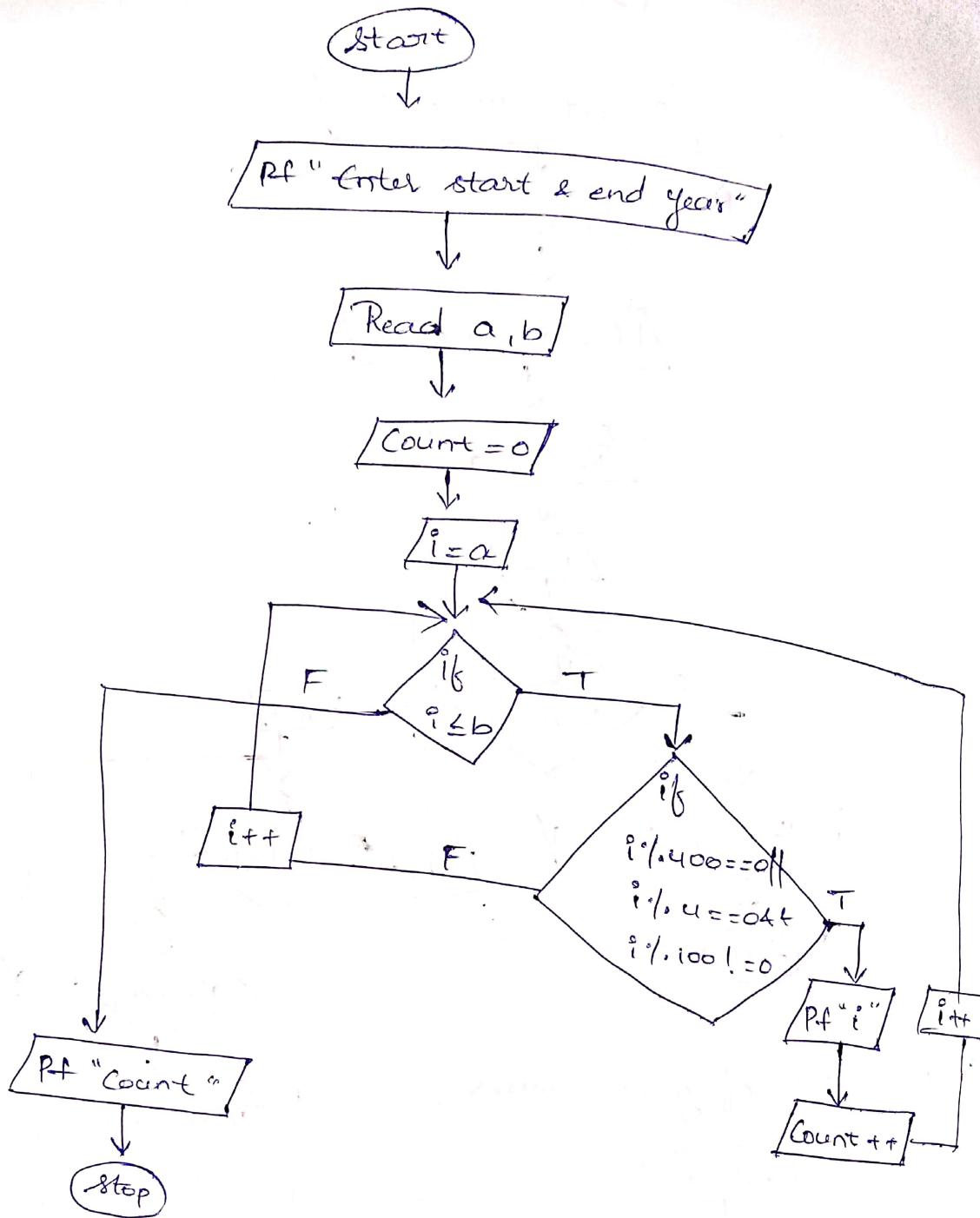
22. Take a string from the user and arrange the characters in alphabetical order.



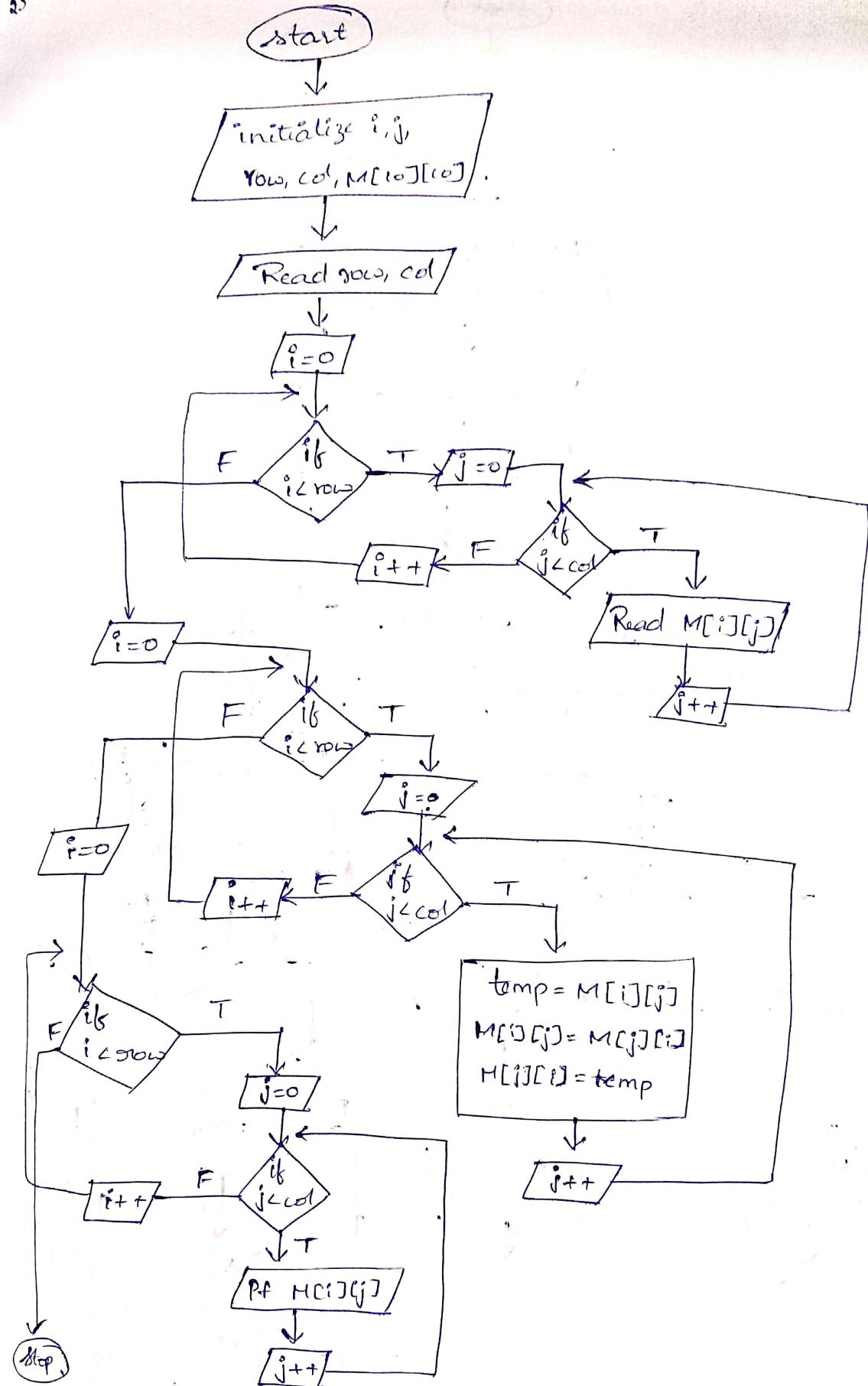
23. Find LSB of given number



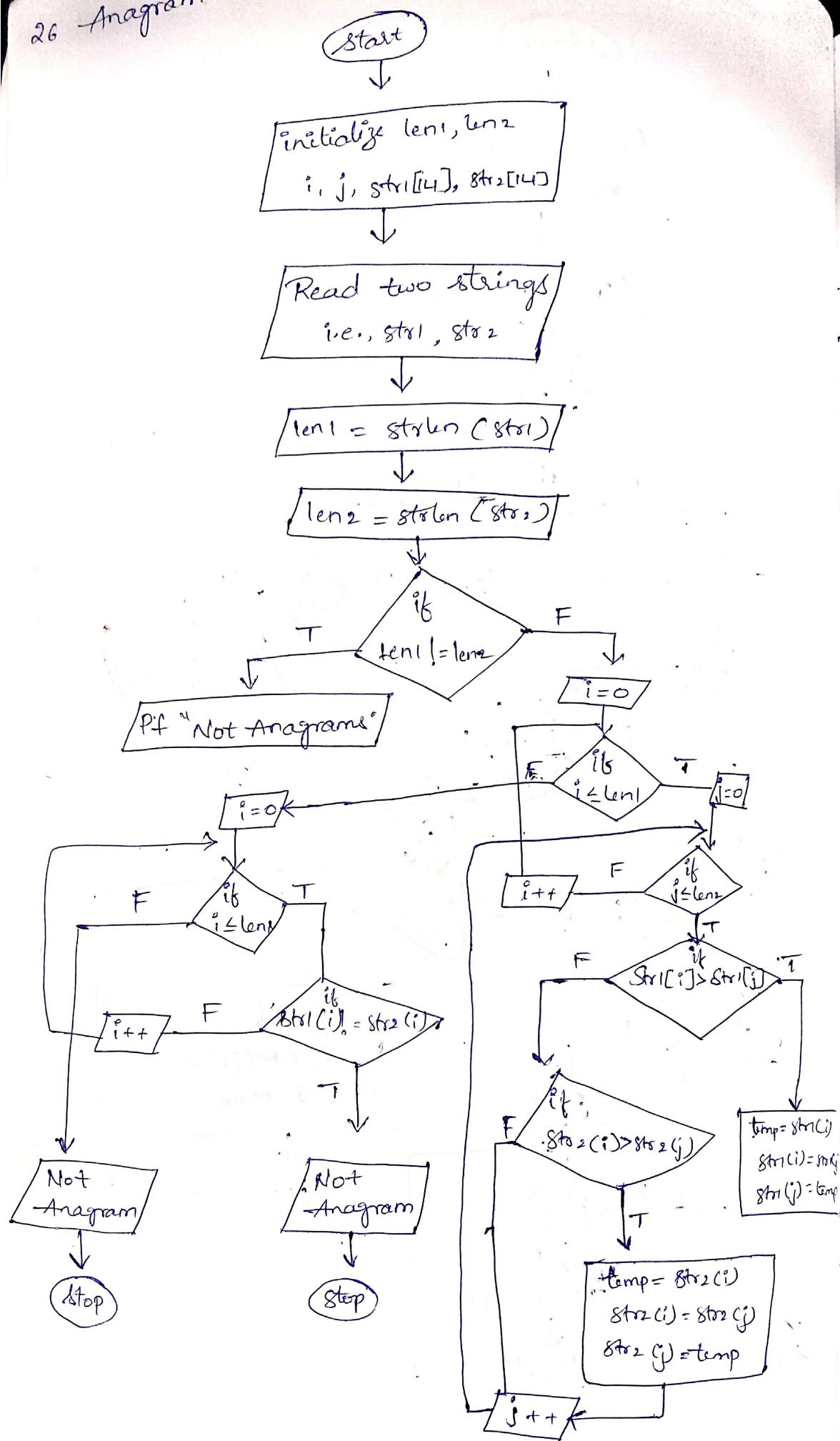
24. find the leap years and count between the ranges given by user.



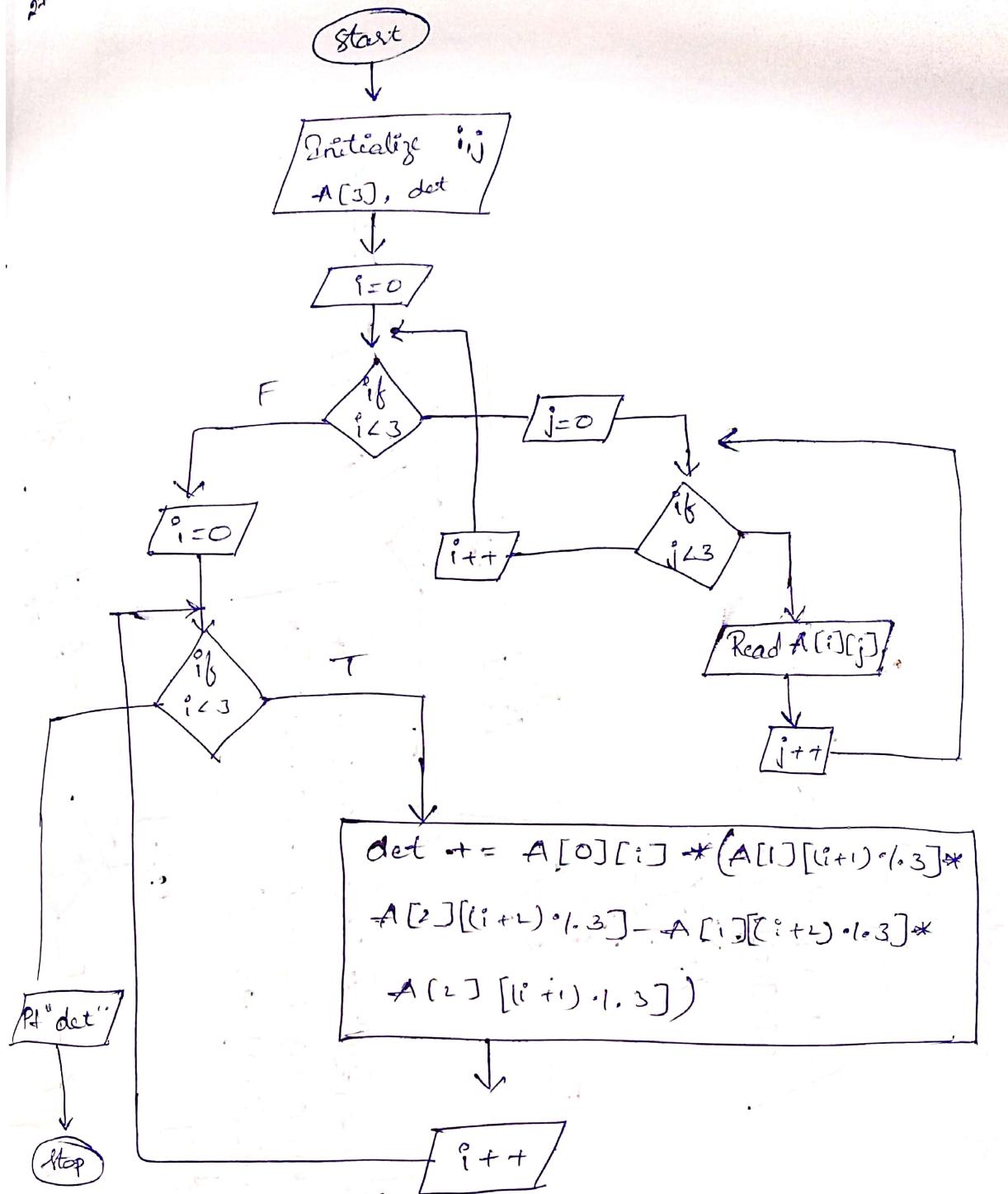
## 25. Transpose of a Matrix



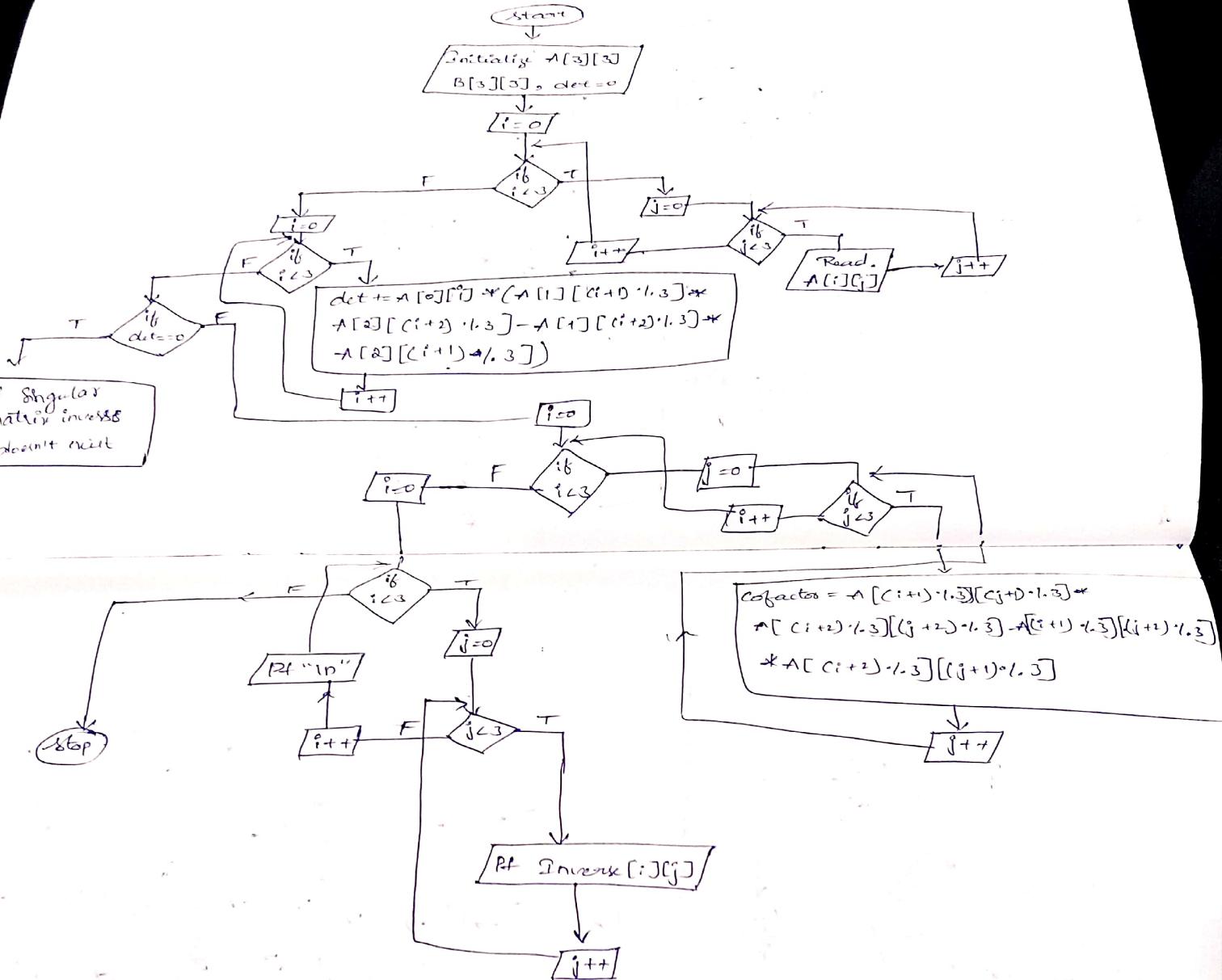
## 26 Anagram



# 2. Determinant of $3 \times 3$ matrix

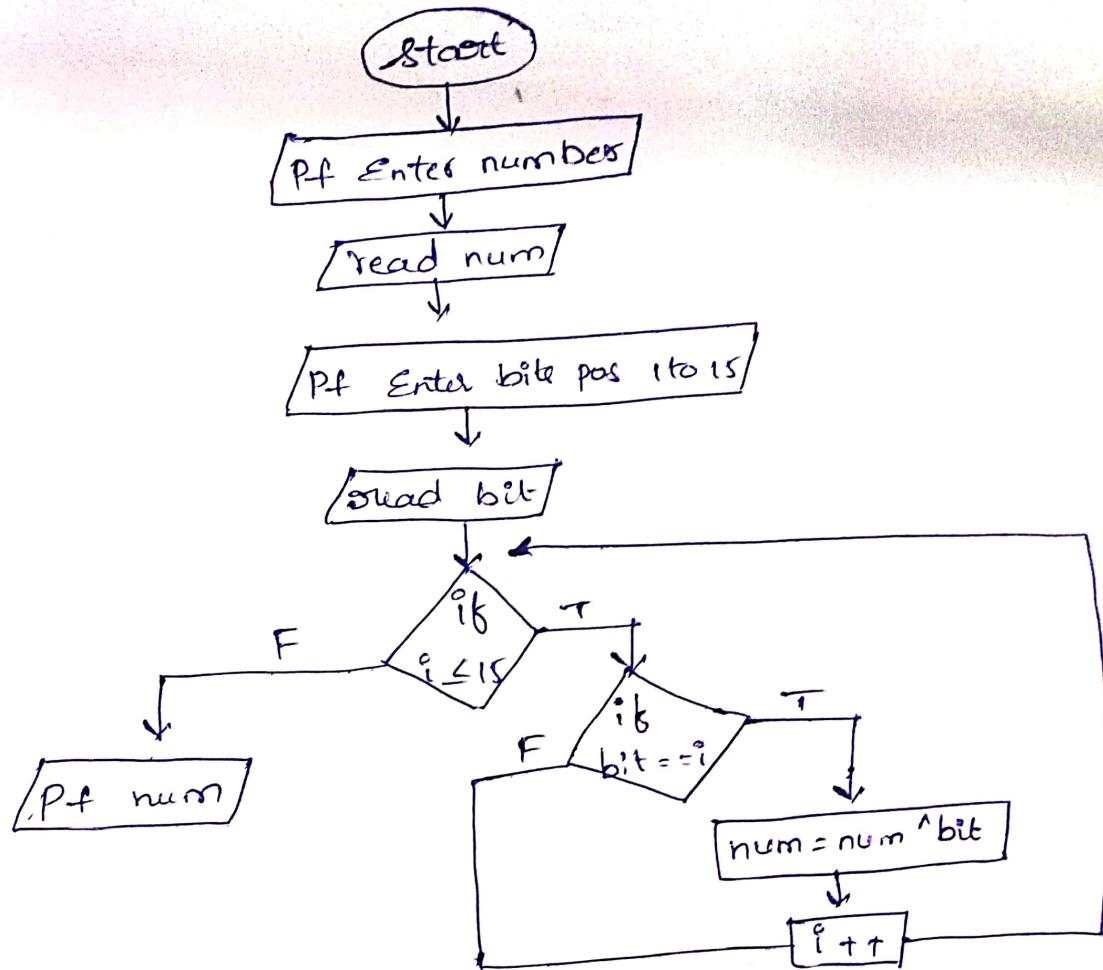


2.8) Inverse of  $3 \times 3$  matrix



Q.  $n^{\text{th}}$  bit toggle

Q9



30 Take two dates from user and calculate no of days b/w them

Start

[Pf "Enter 1<sup>st</sup> date"]

[Read d<sub>1</sub>, m<sub>1</sub>, y<sub>1</sub>]

[Pf "Enter 2<sup>nd</sup> date"]

[Read d<sub>2</sub>, m<sub>2</sub>, y<sub>2</sub>]

[days b/w = 0]

[days b/w + = (y<sub>2</sub> - y<sub>1</sub>) \* 360]

[days b/w + = (m<sub>2</sub> - m<sub>1</sub>) \* 30]

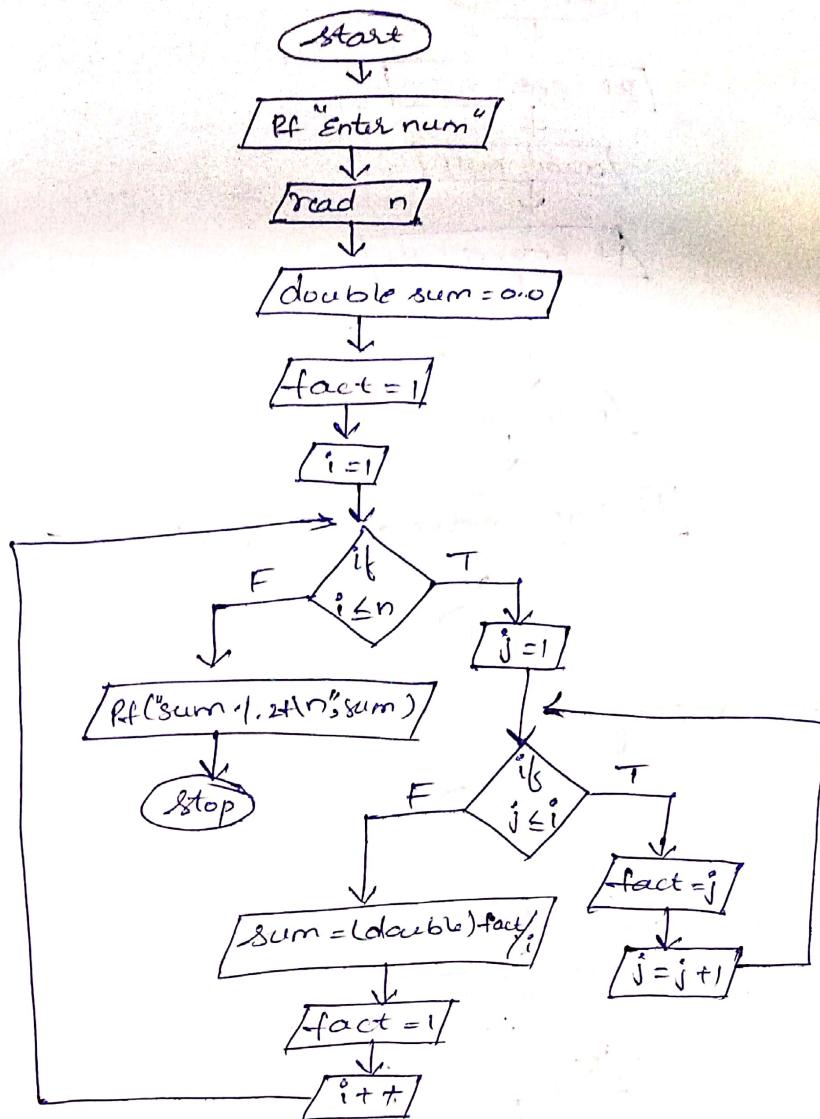
[days b/w + = (d<sub>2</sub> - d<sub>1</sub>)]

[Pf days b/w]

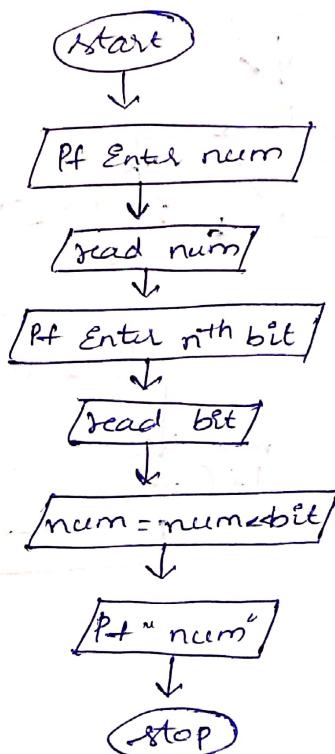
Stop

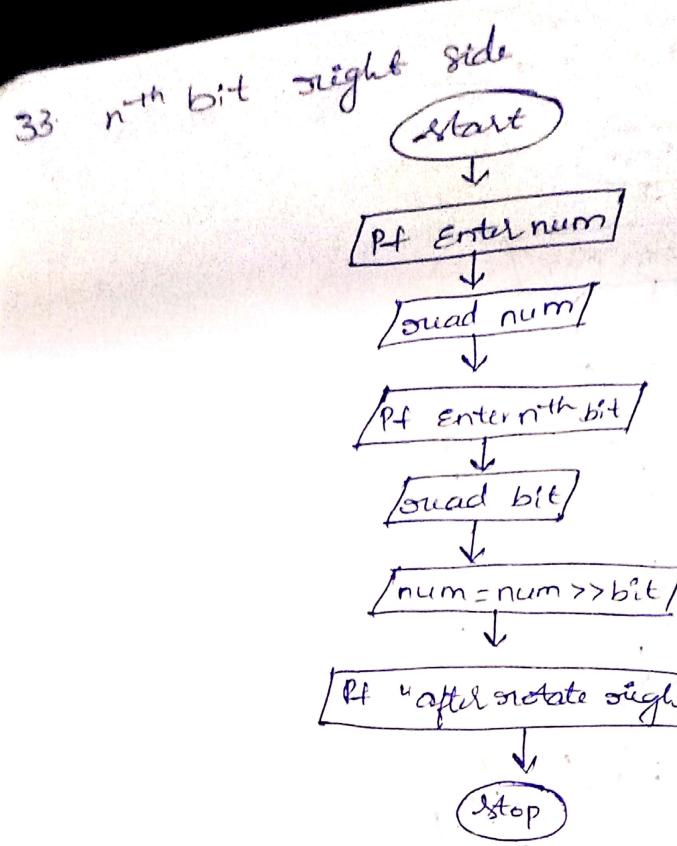
$$\frac{1}{1} + \frac{2!}{2} + \frac{3!}{3} + \dots + \frac{n!}{n}$$

31.

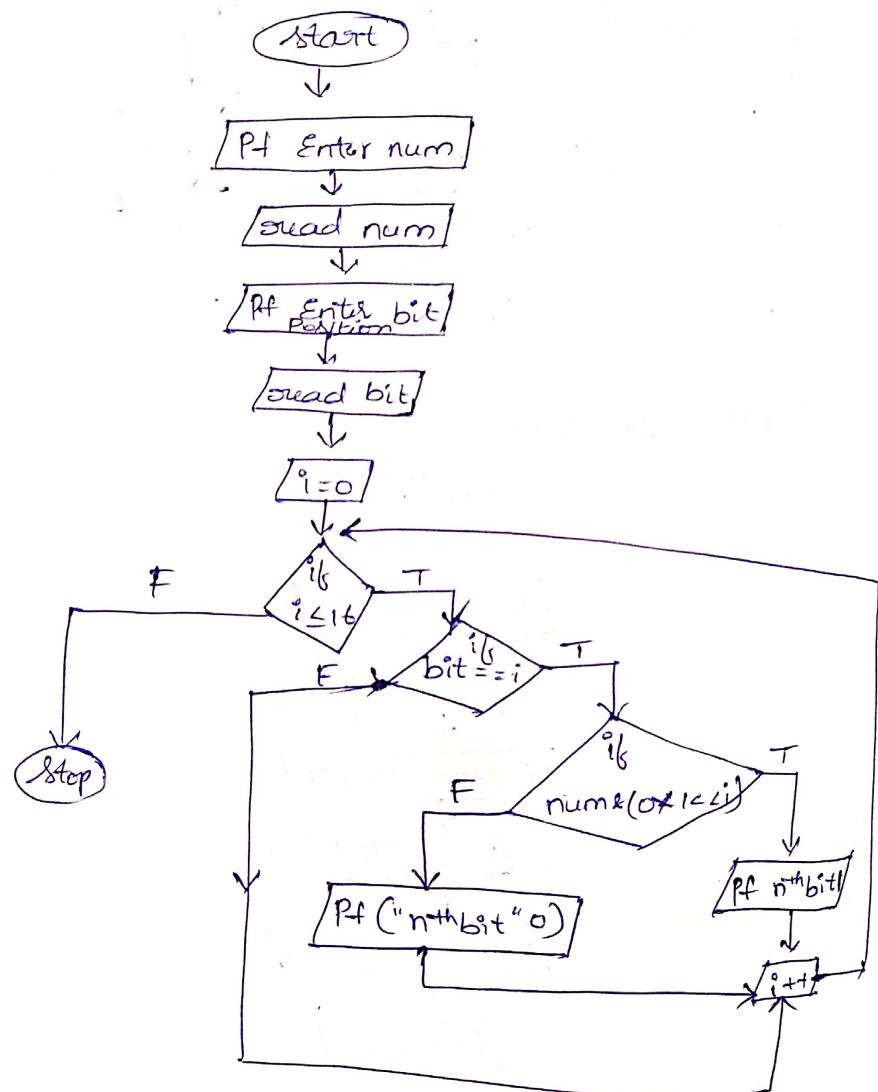


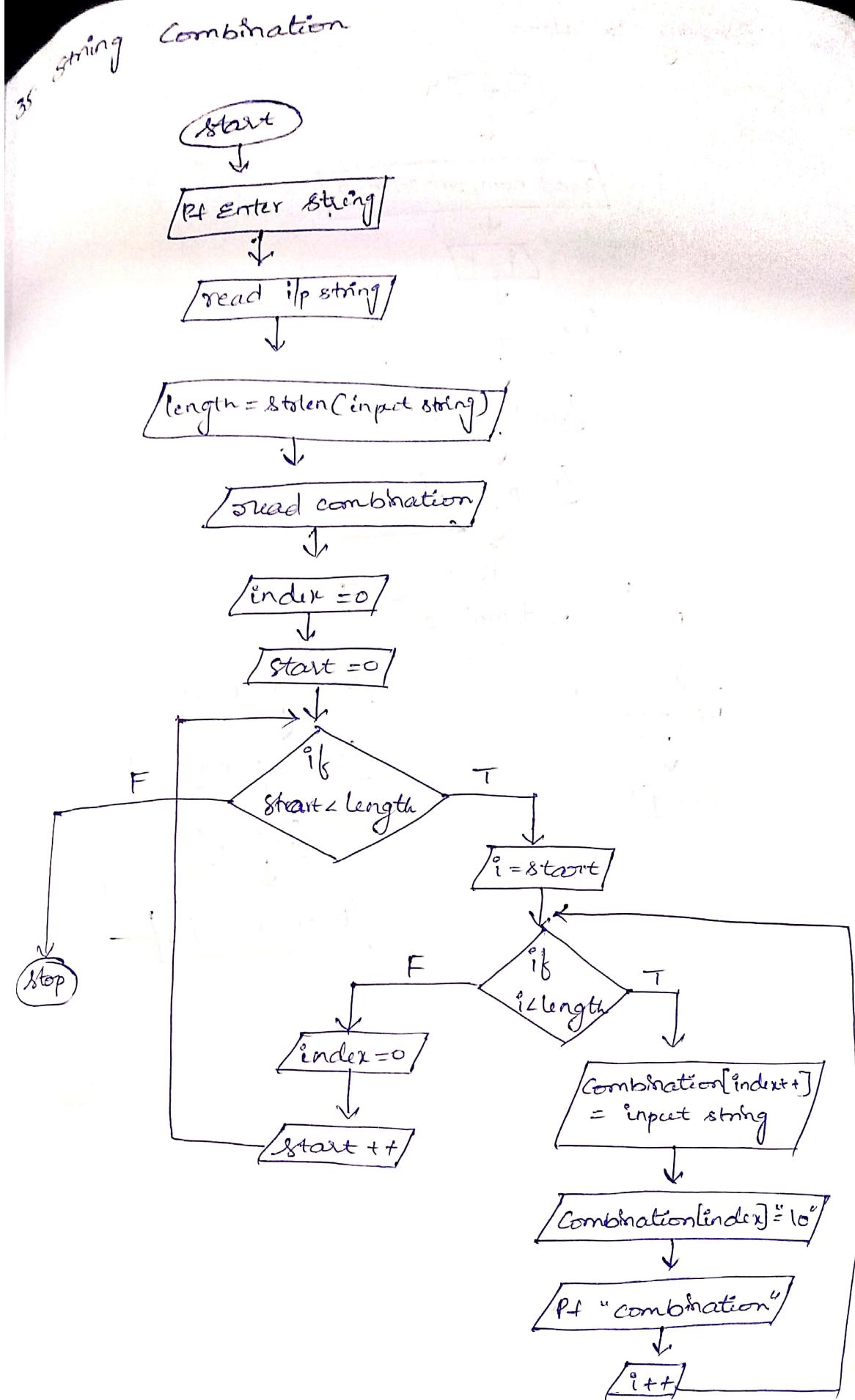
32.  $n^{\text{th}}$  bit left side

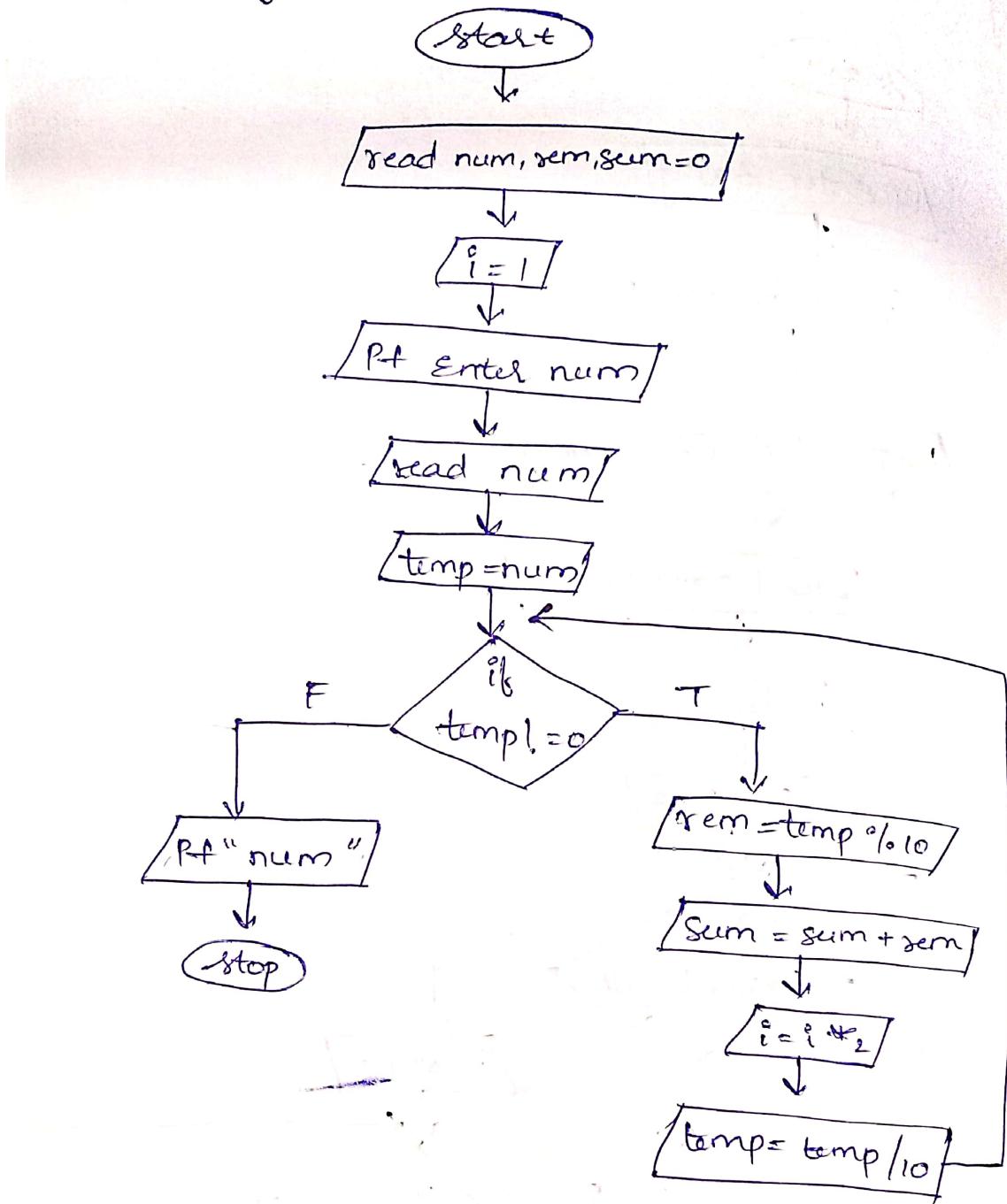


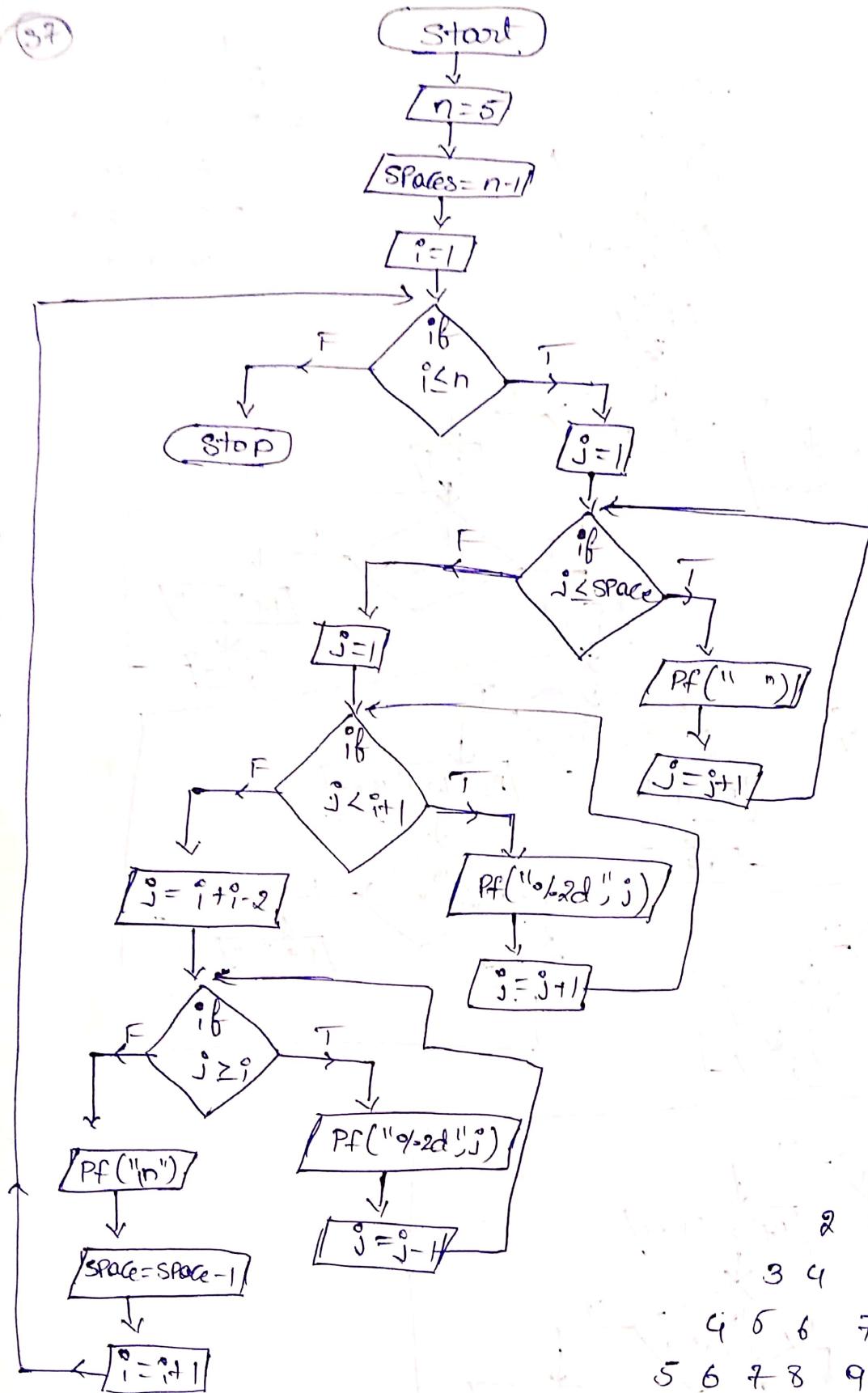


34.  $n^{\text{th}}$  bit display



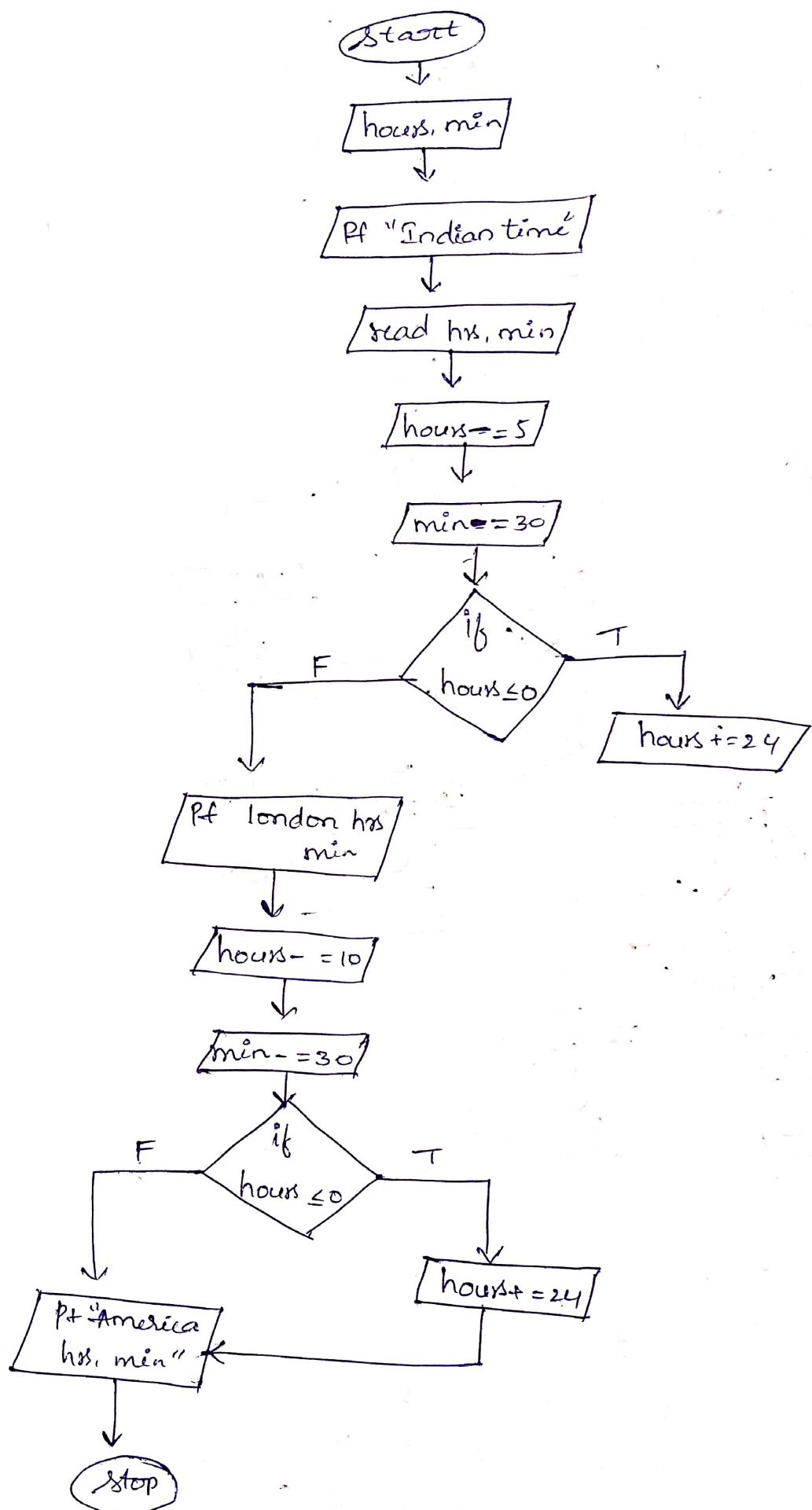




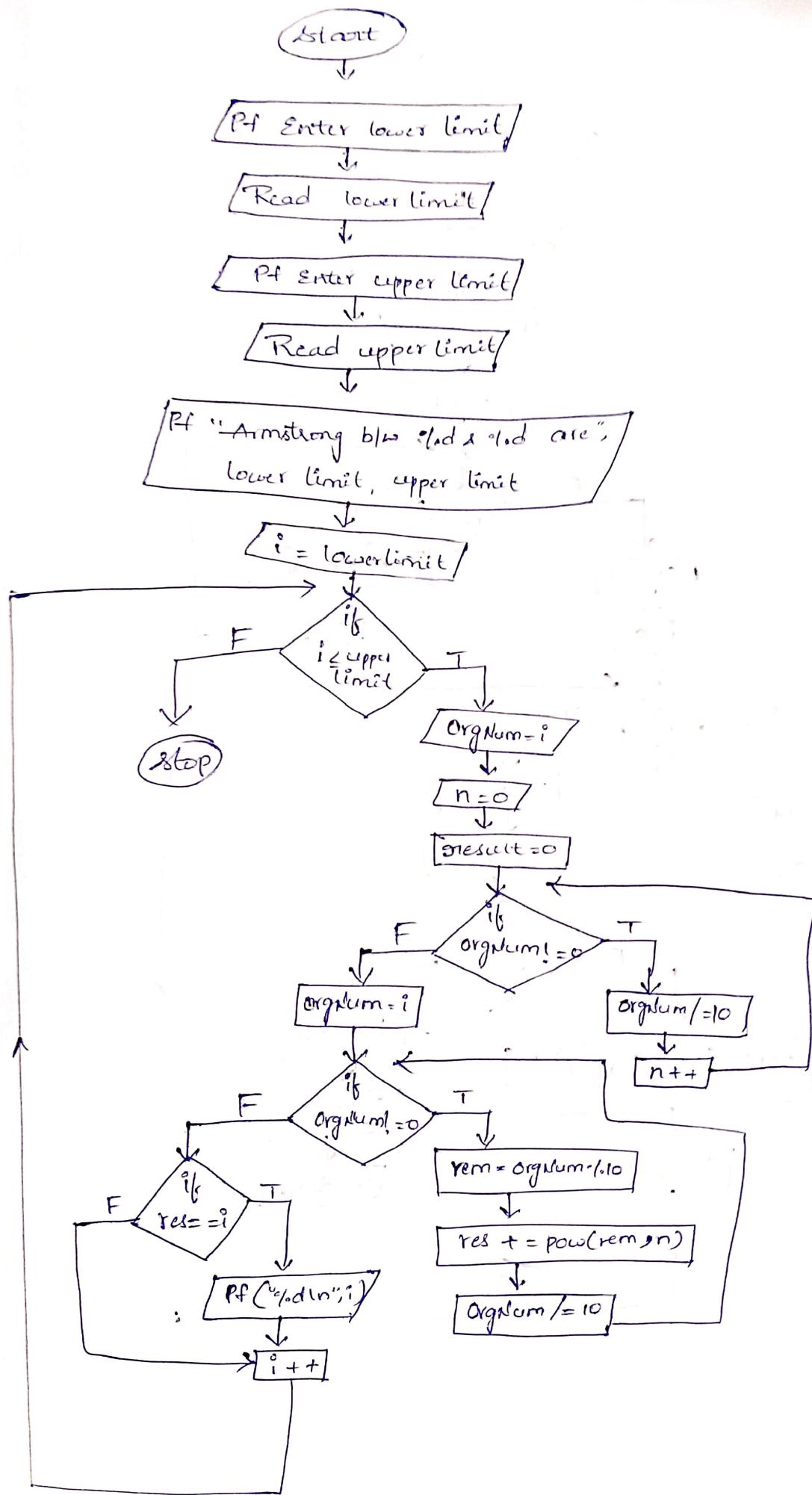


1	2	3	2				
3	4	5	4	3			
4	5	6	7	8	6	4	
5	6	7	8	9	8	7	6

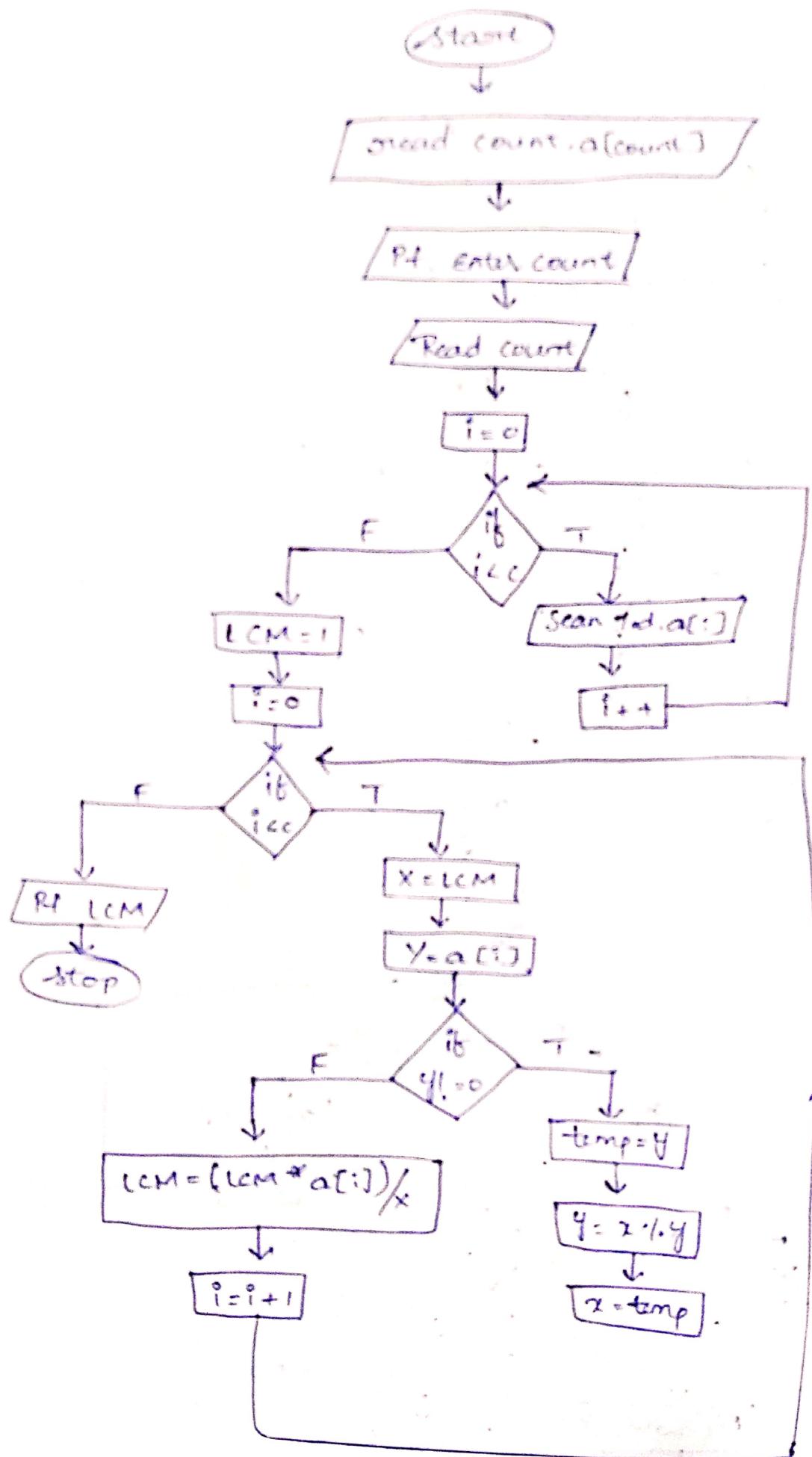
38 Indian time to London & America.



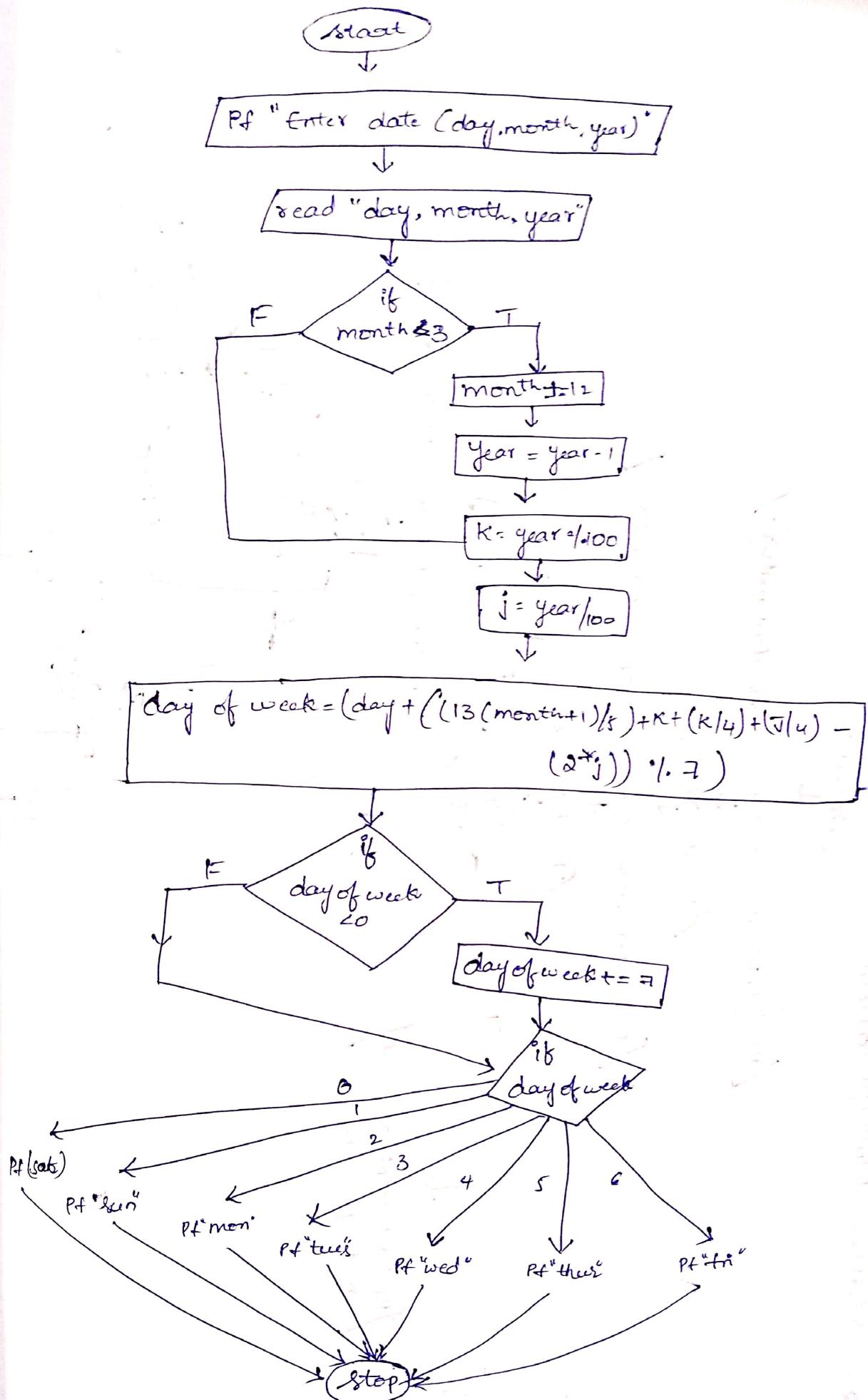
39. Armstrong b/w two Intervals.



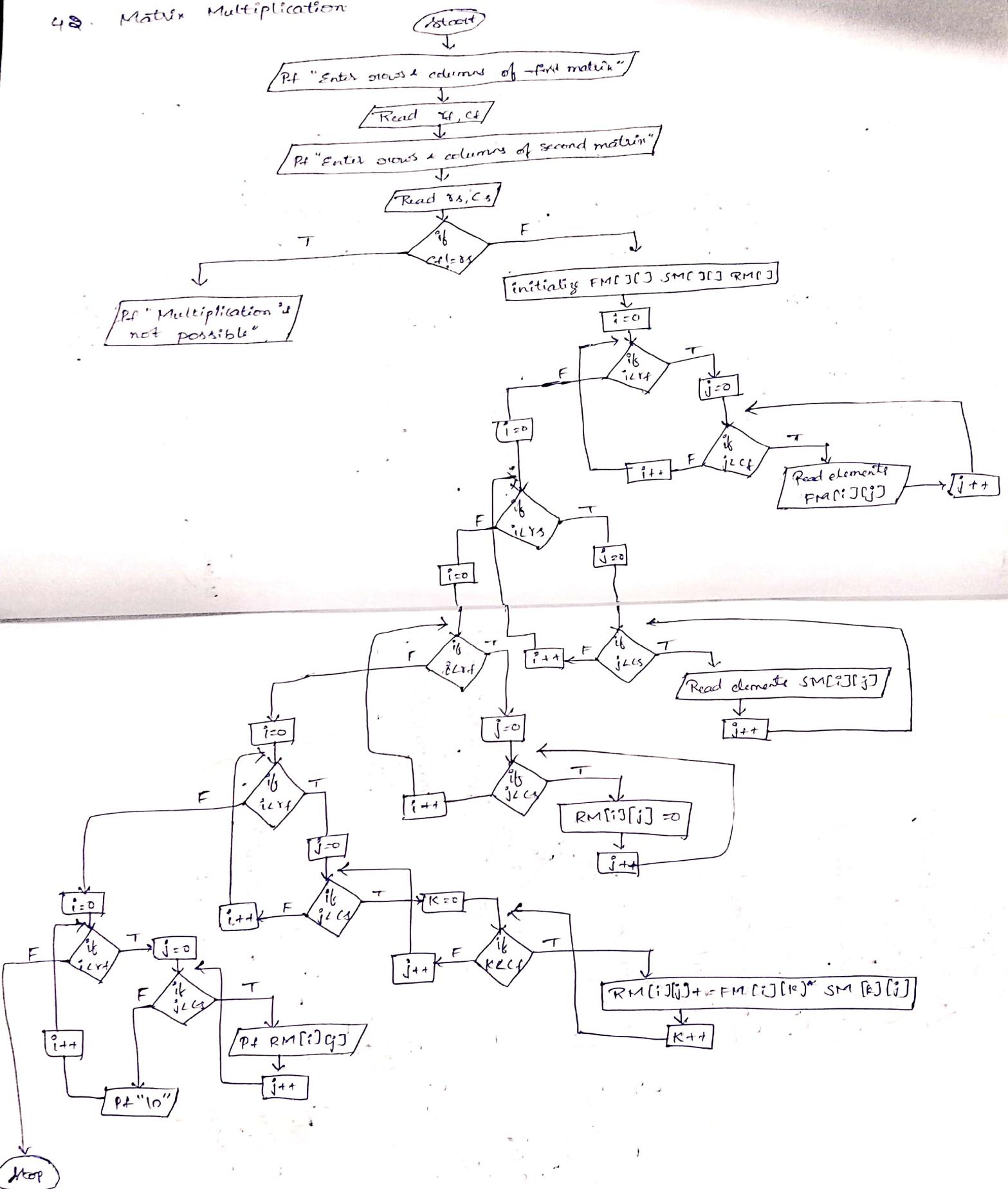
No LCM of a numbers



## 1.1 Find day by date

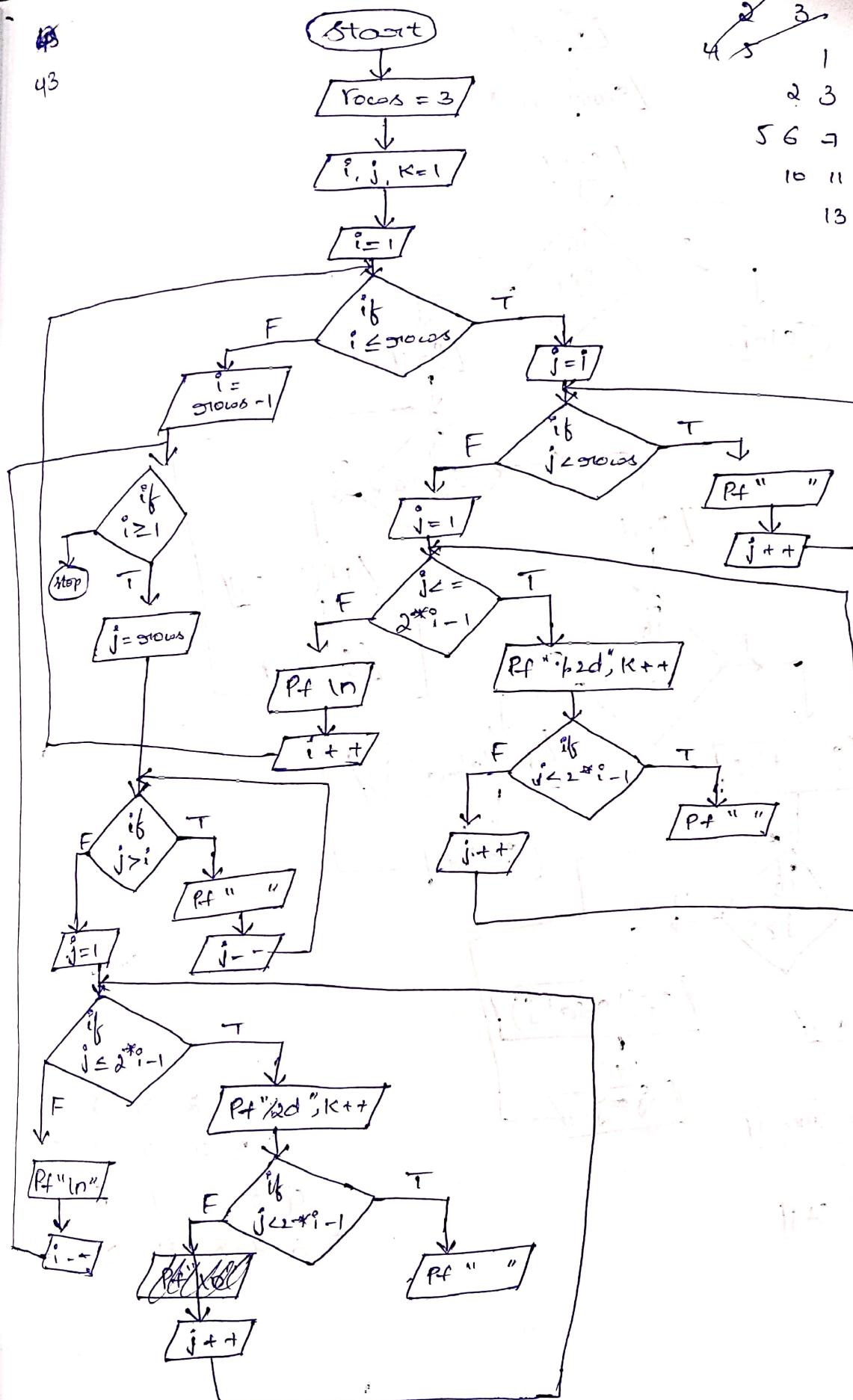


## 4.9. Matrix Multiplication



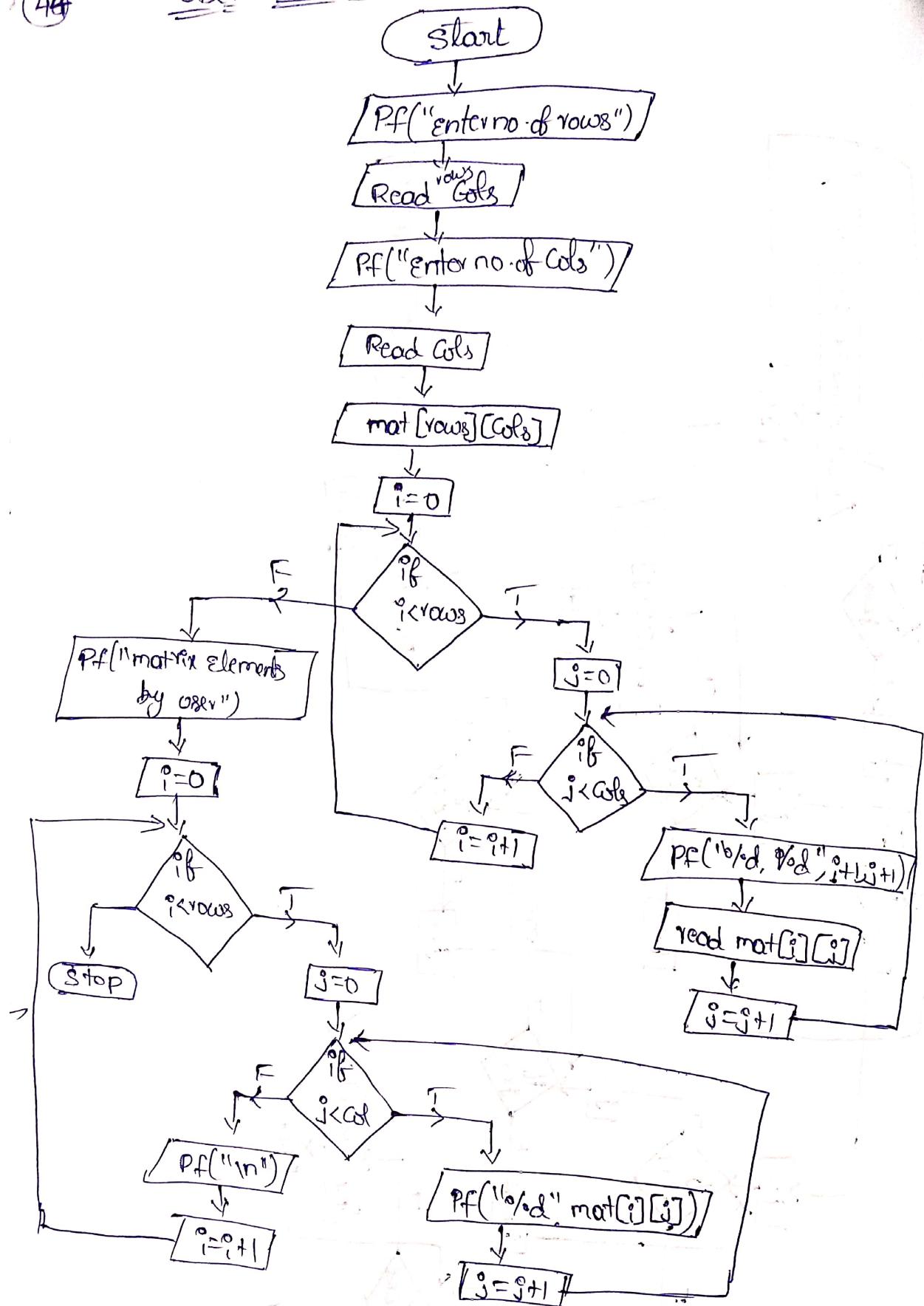
43

43

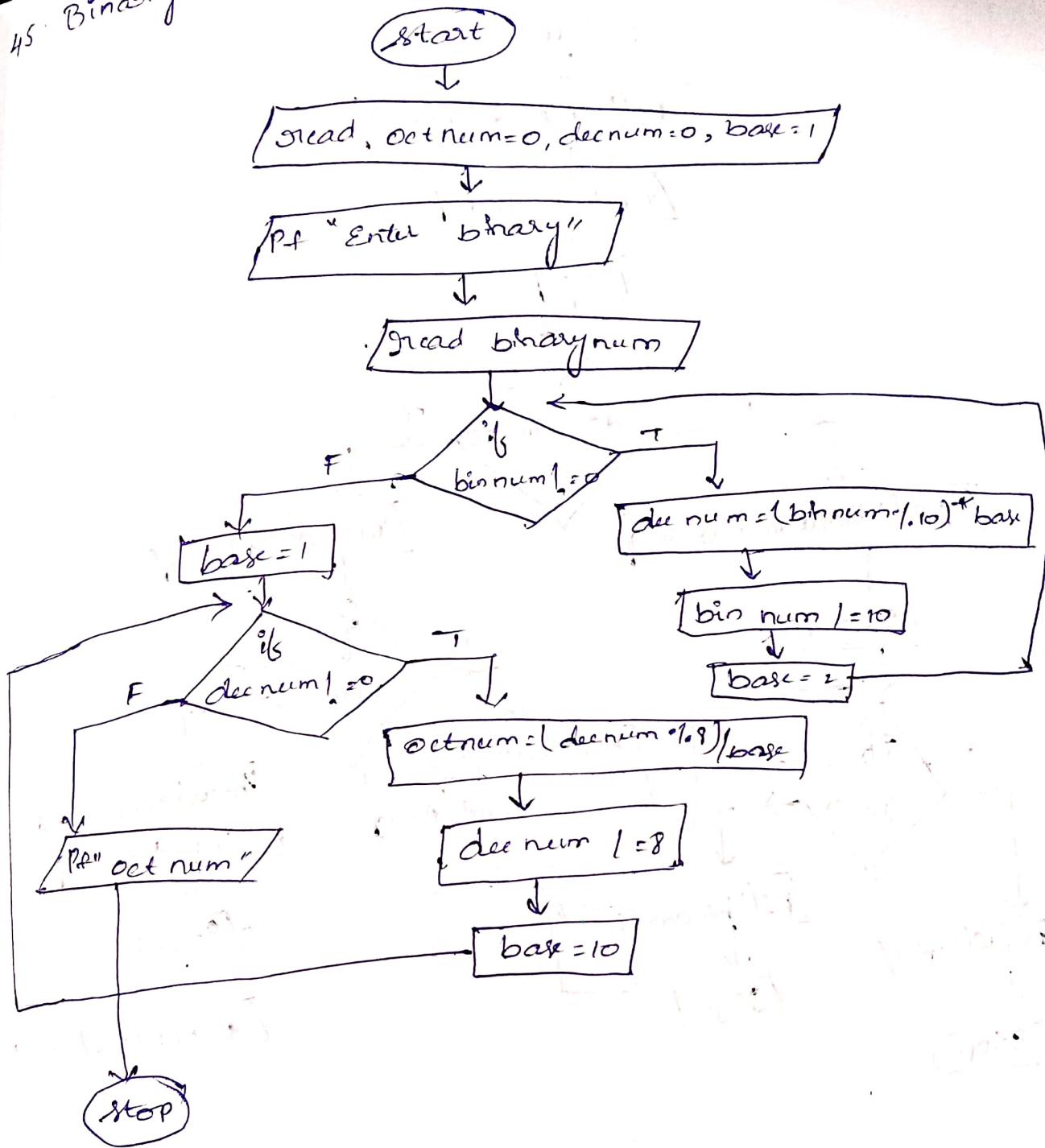


(4A)

User matrix

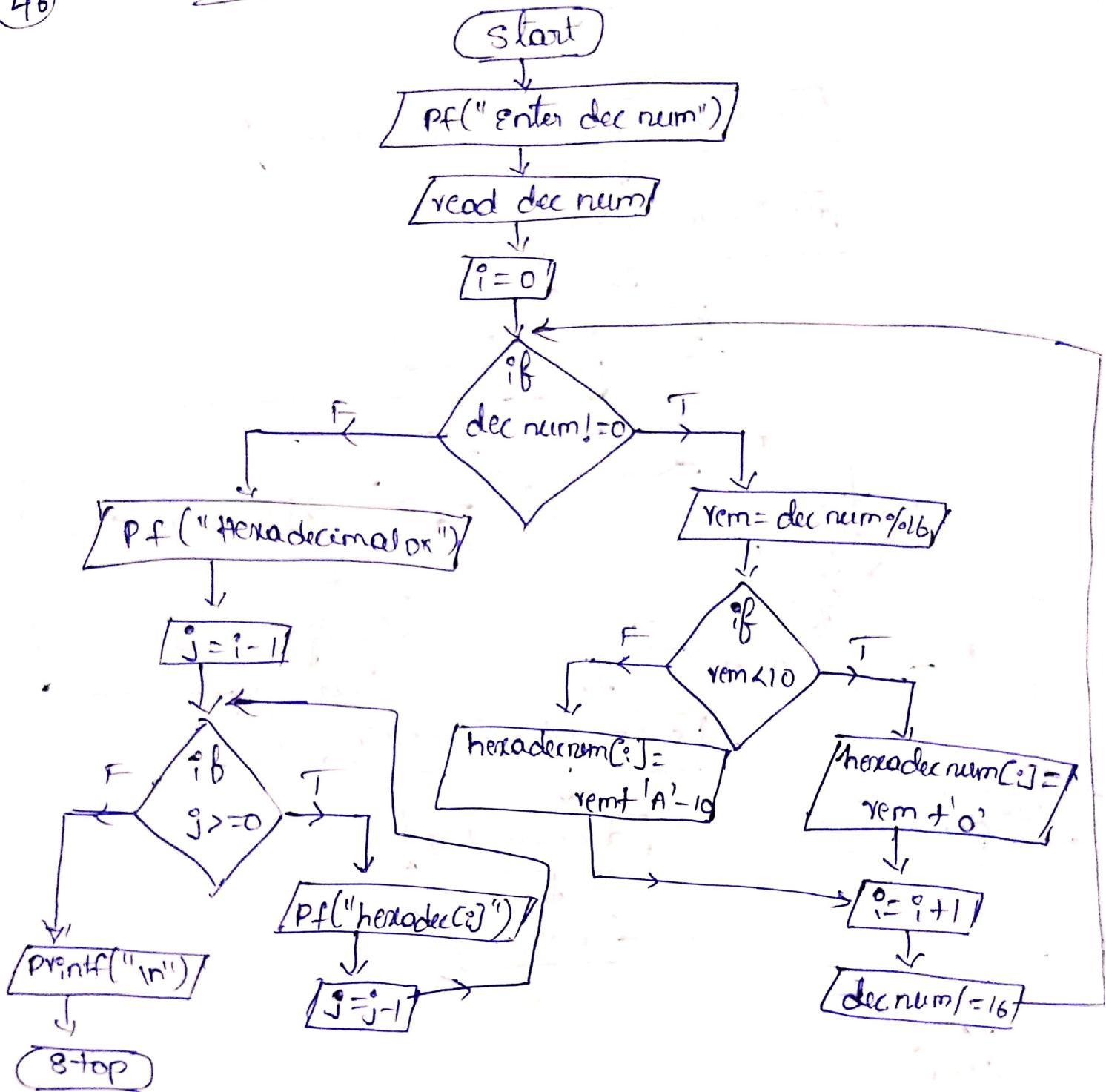


# 45. Binary to Octa



(46)

Decimal to hexa



## 47) Complex division

