

31

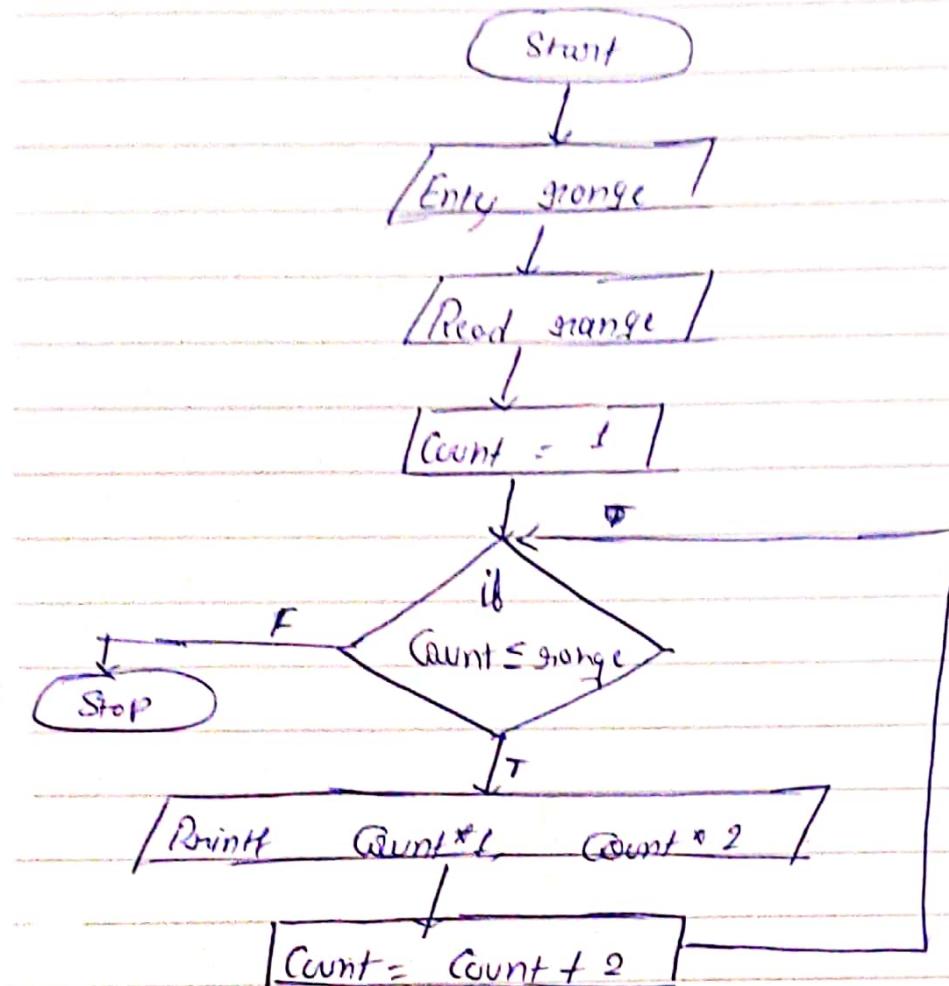
TUESDAY

MAY

2022

Flowcharts

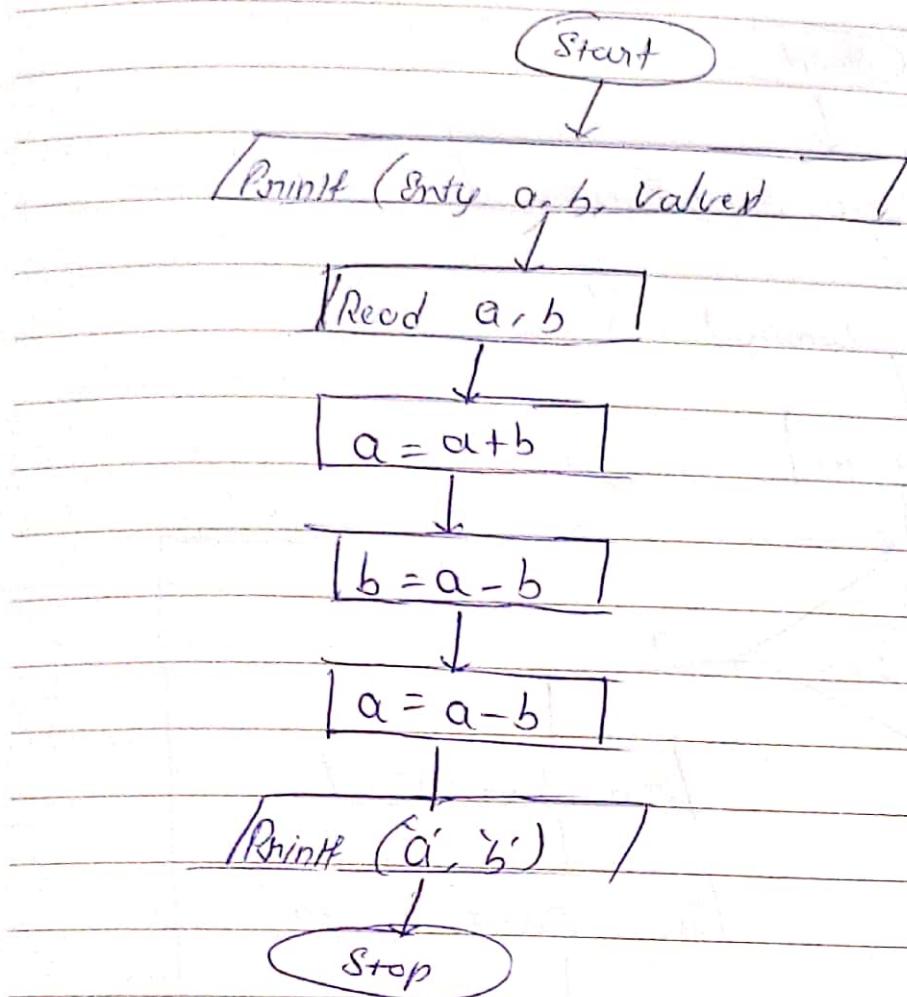
1, 2, 3, 6, 5, 10, 7, 14, 9, 18, ...



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

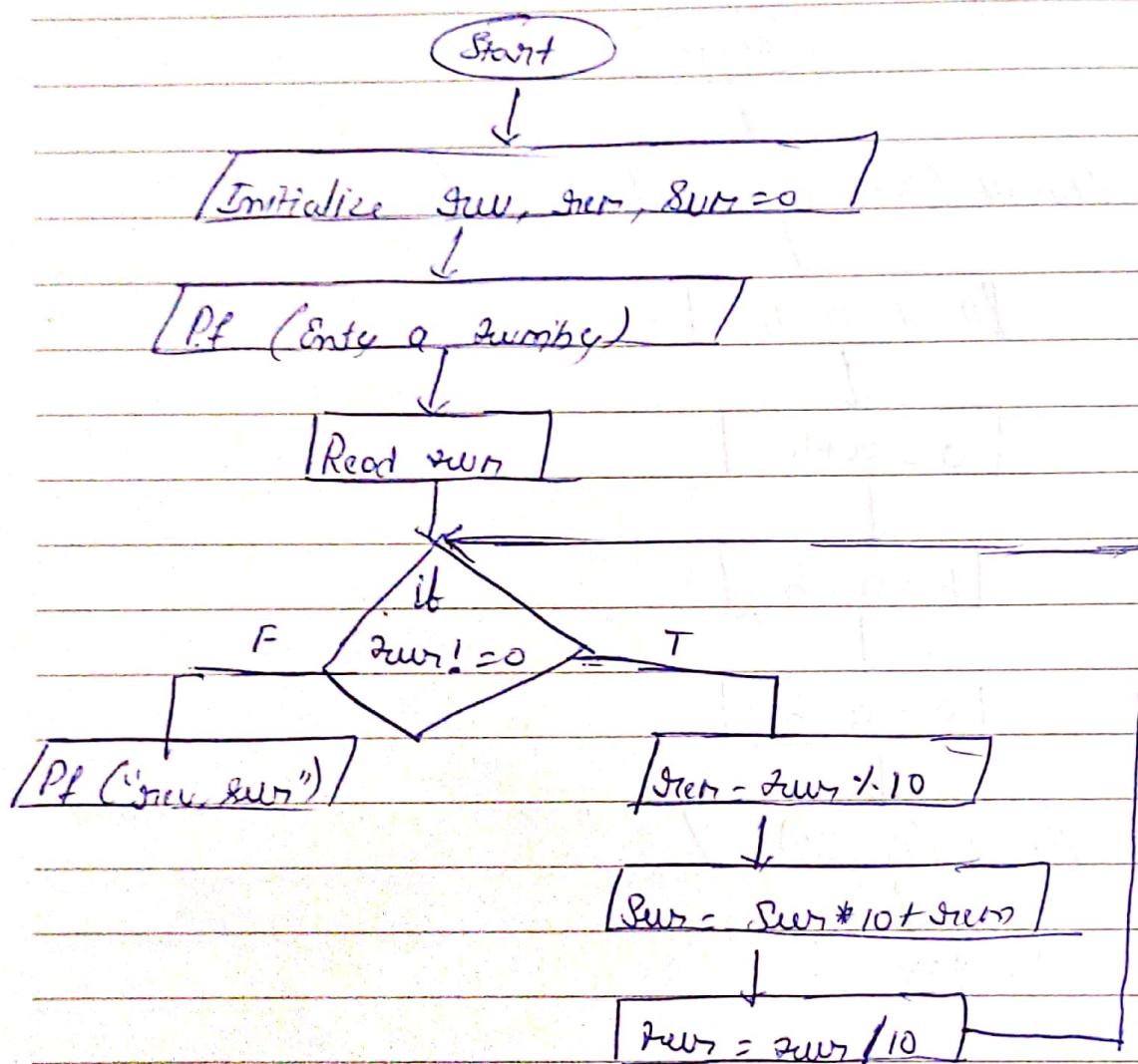
NOTES

2) Swapping two numbers without temp variable



S I M I T I W I T I F I S I S I M I T I W I T I F I S I S I M I T I W I T I F I S I S I M I T
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

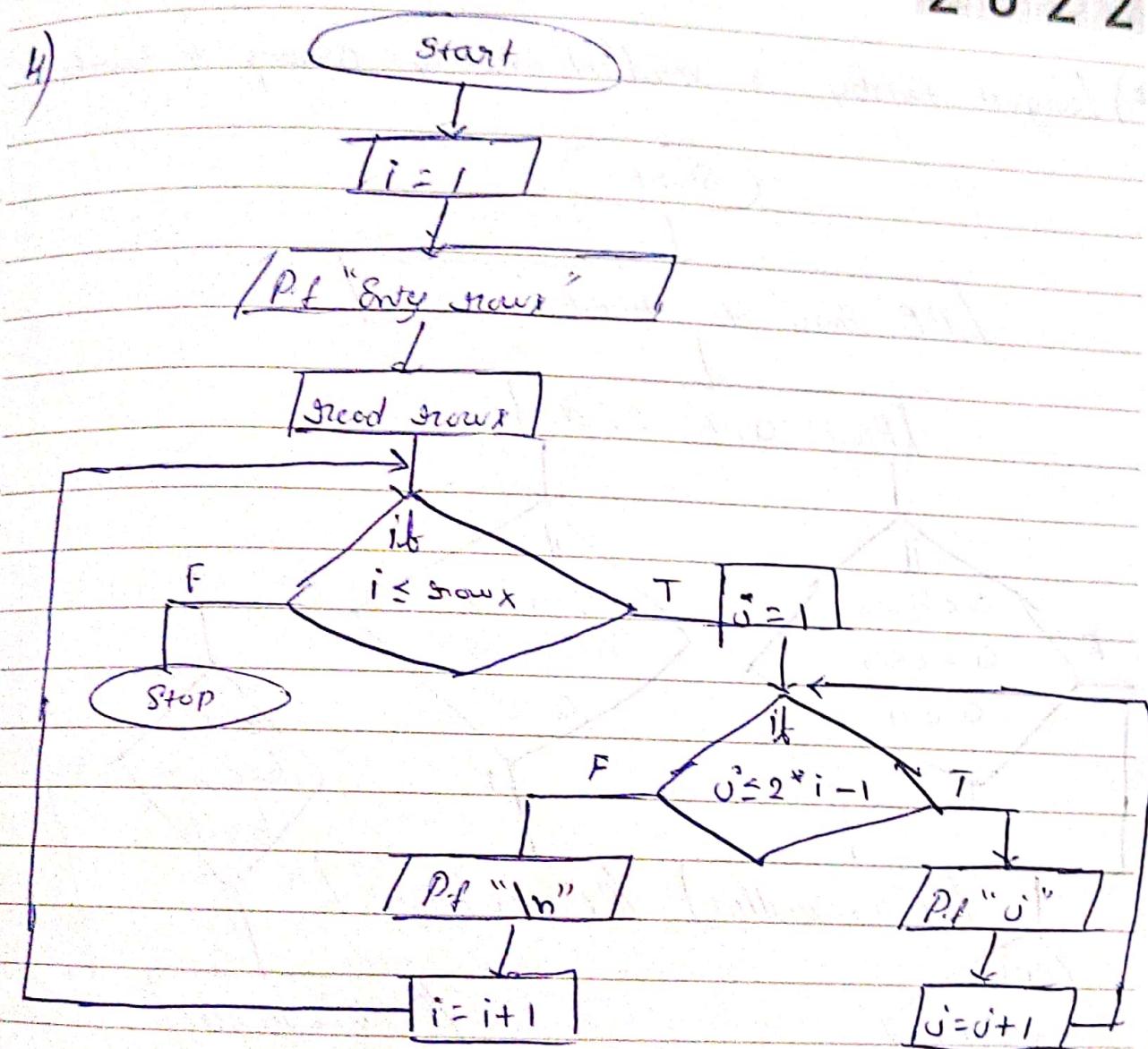
3) Reverse a number



02 THURSDAY

JUNE
2022

4)



Output:

1

1 2 3

1 2 3 4 5

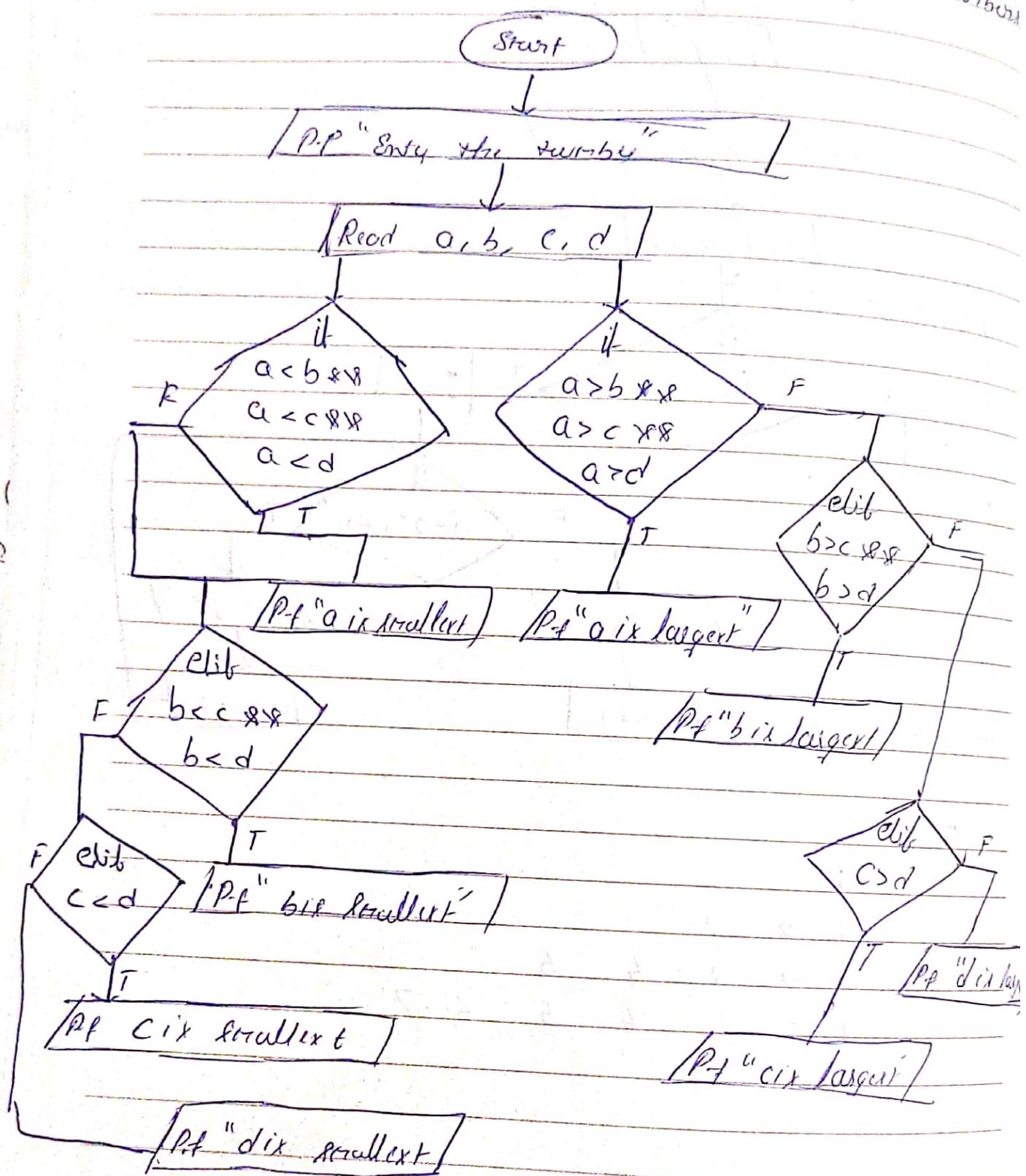
1 2 3 4 5 6 7

WITIFISISIMITIWITIFISISIMITIWITIFISISIMITIWITIFISISIMITIWITIF
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

03 FRIDAY

2022 JUN

5) Largest suburb & smallest suburb among 4 suburbs

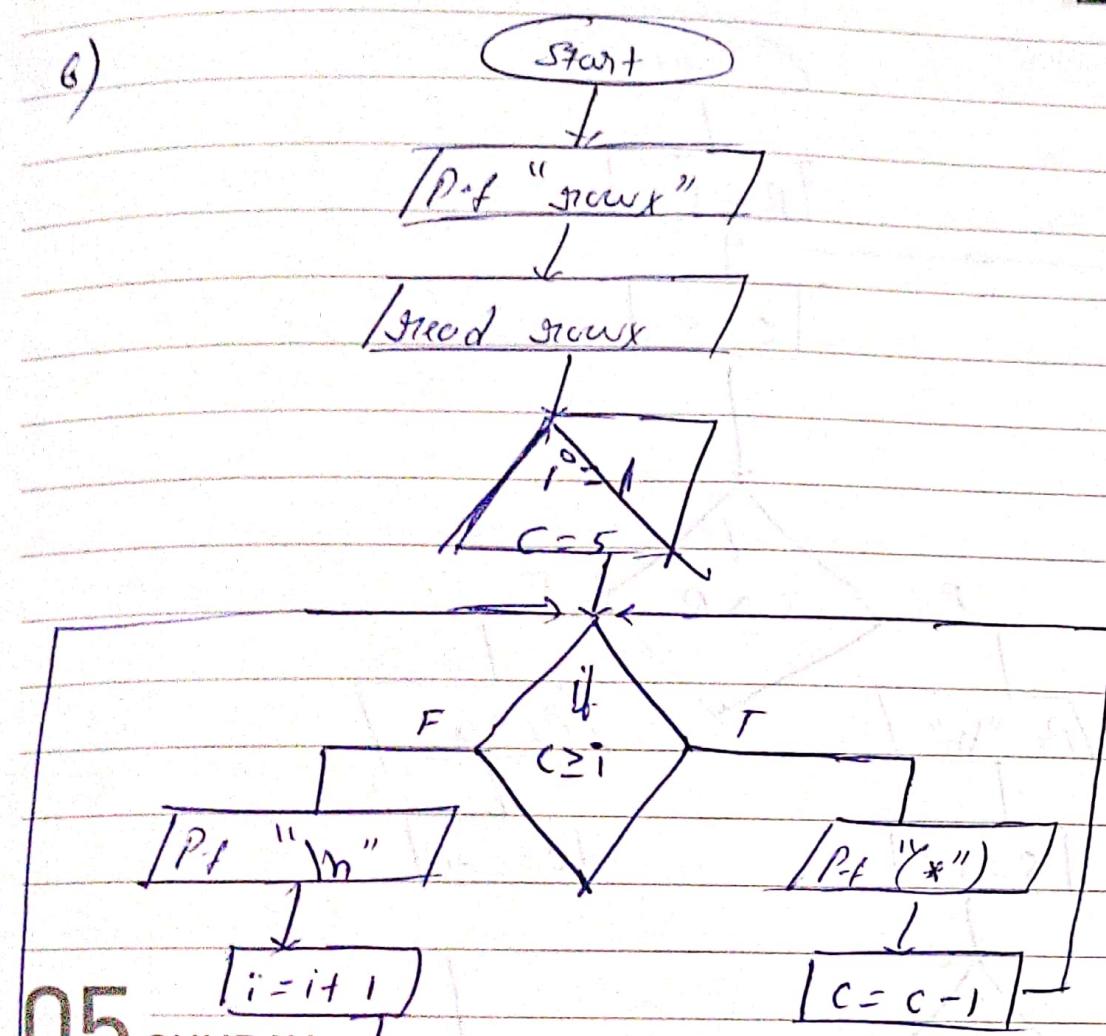


WIT IF IS I SIMIT I WIT IF
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

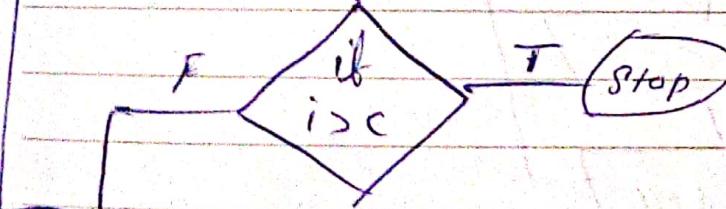
04 SATURDAY

JUNE
2022

6)



05 SUNDAY



Output:

* x + x +

x + + +

+ + +

x +

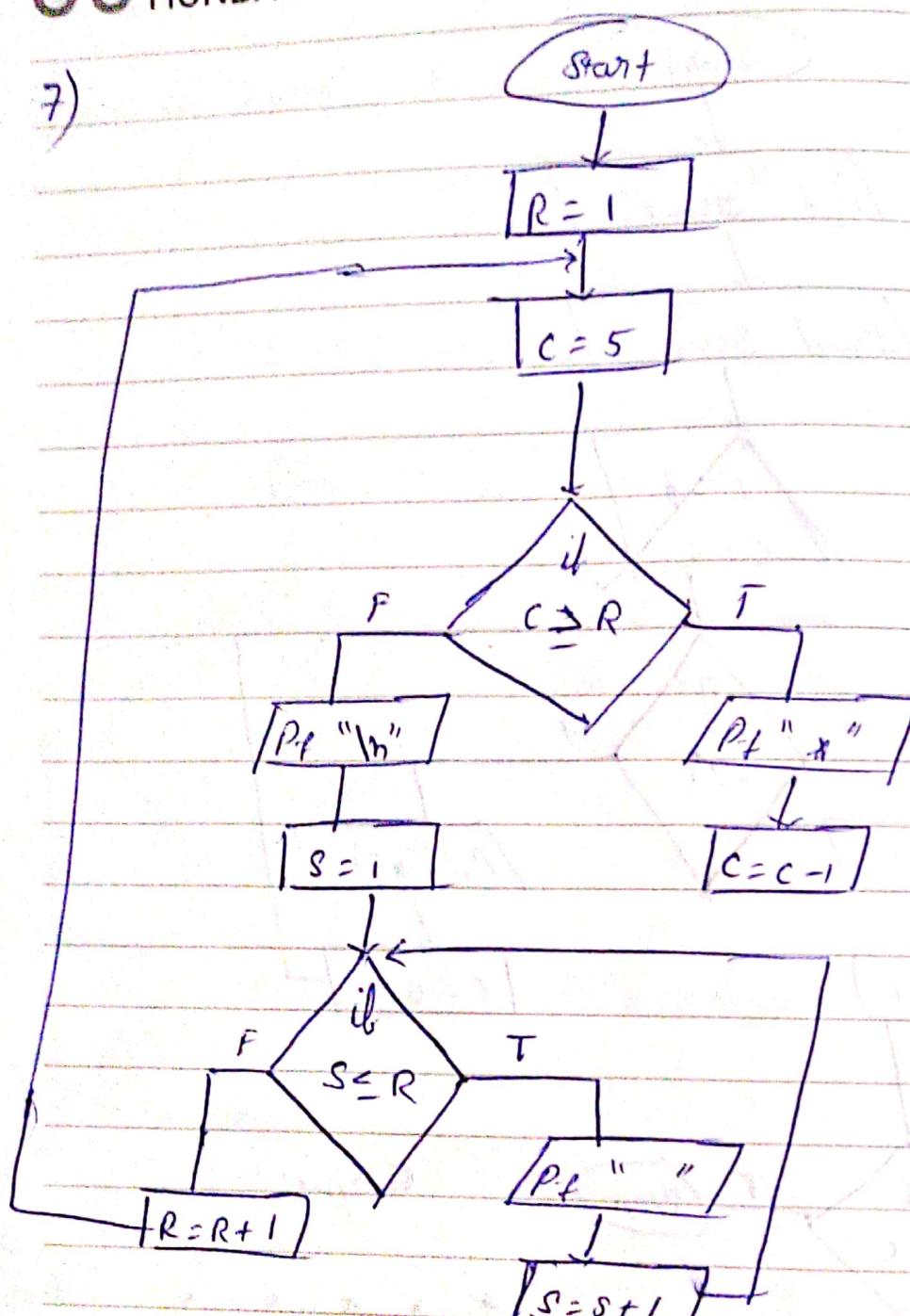
*

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

06 MONDAY

2022 JUNE

7)

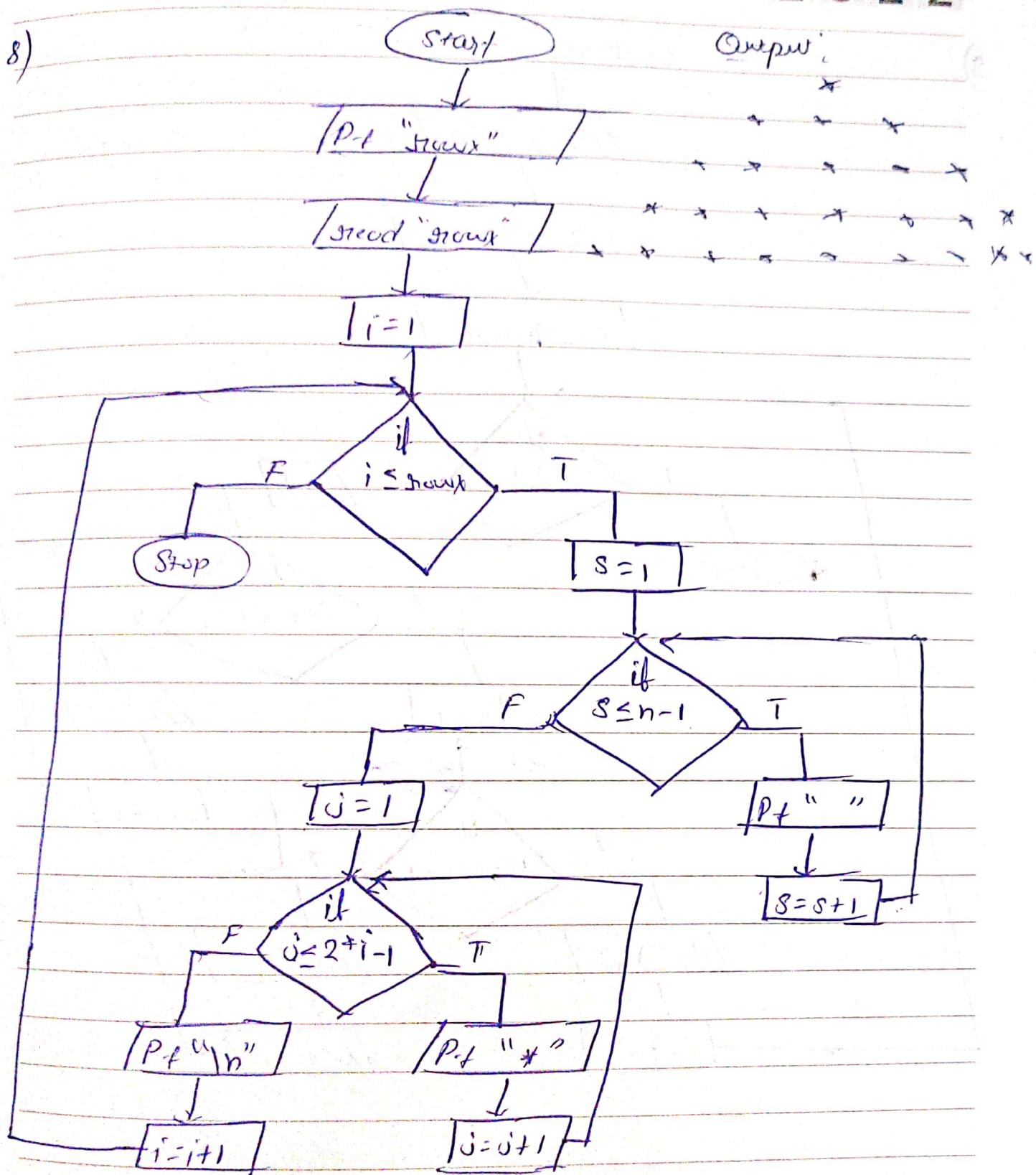


Output:

x + x x x
 x + + +
 + + x
 + +
 +

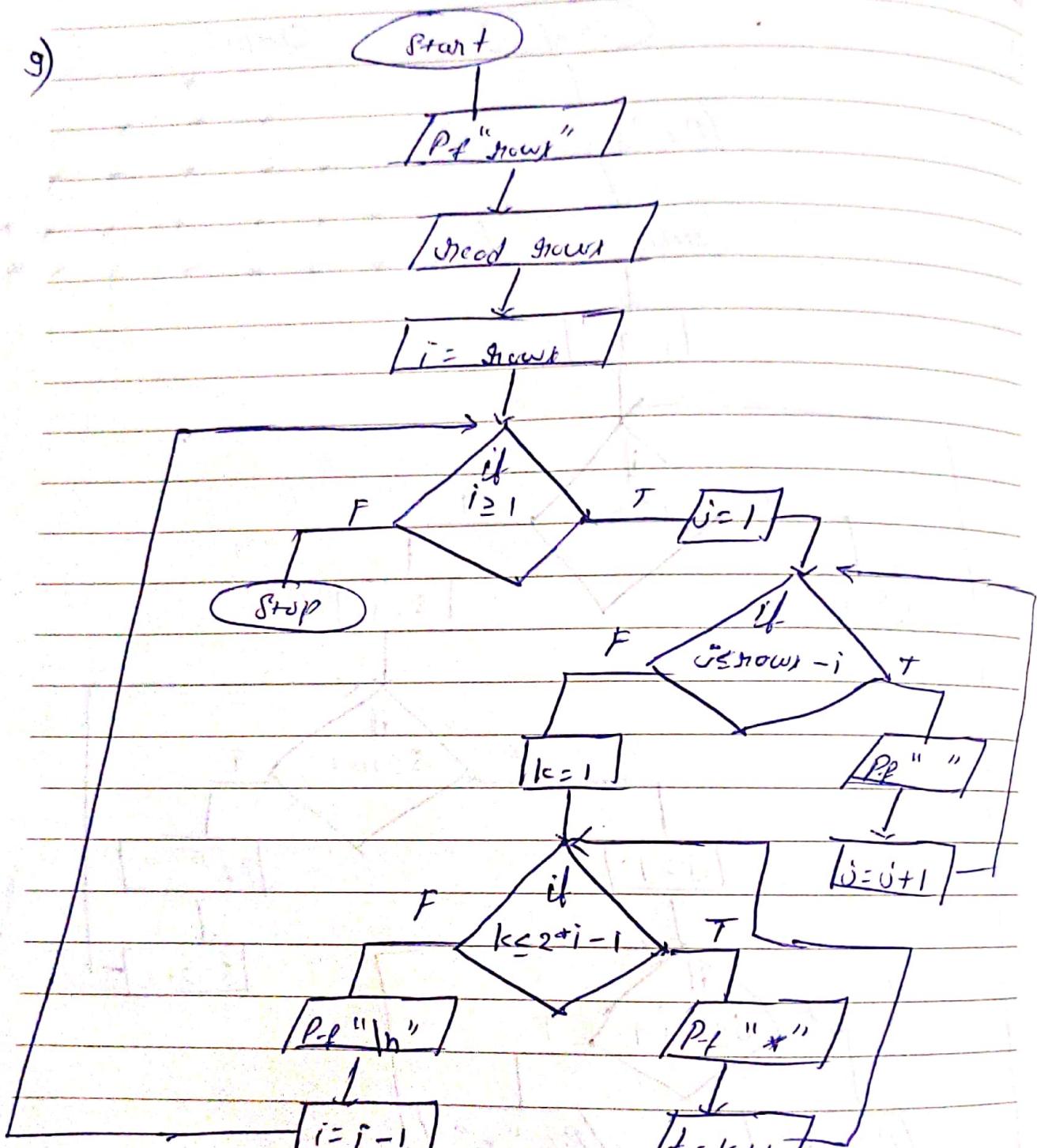
!W!T!I!S!S!I!M!I!W!T!I!S!S!I!M!I!W!T!I!S!S!I!M!I!W!T!I!S!S!I!M!I!W!T!I!
 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

8)



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

9)



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

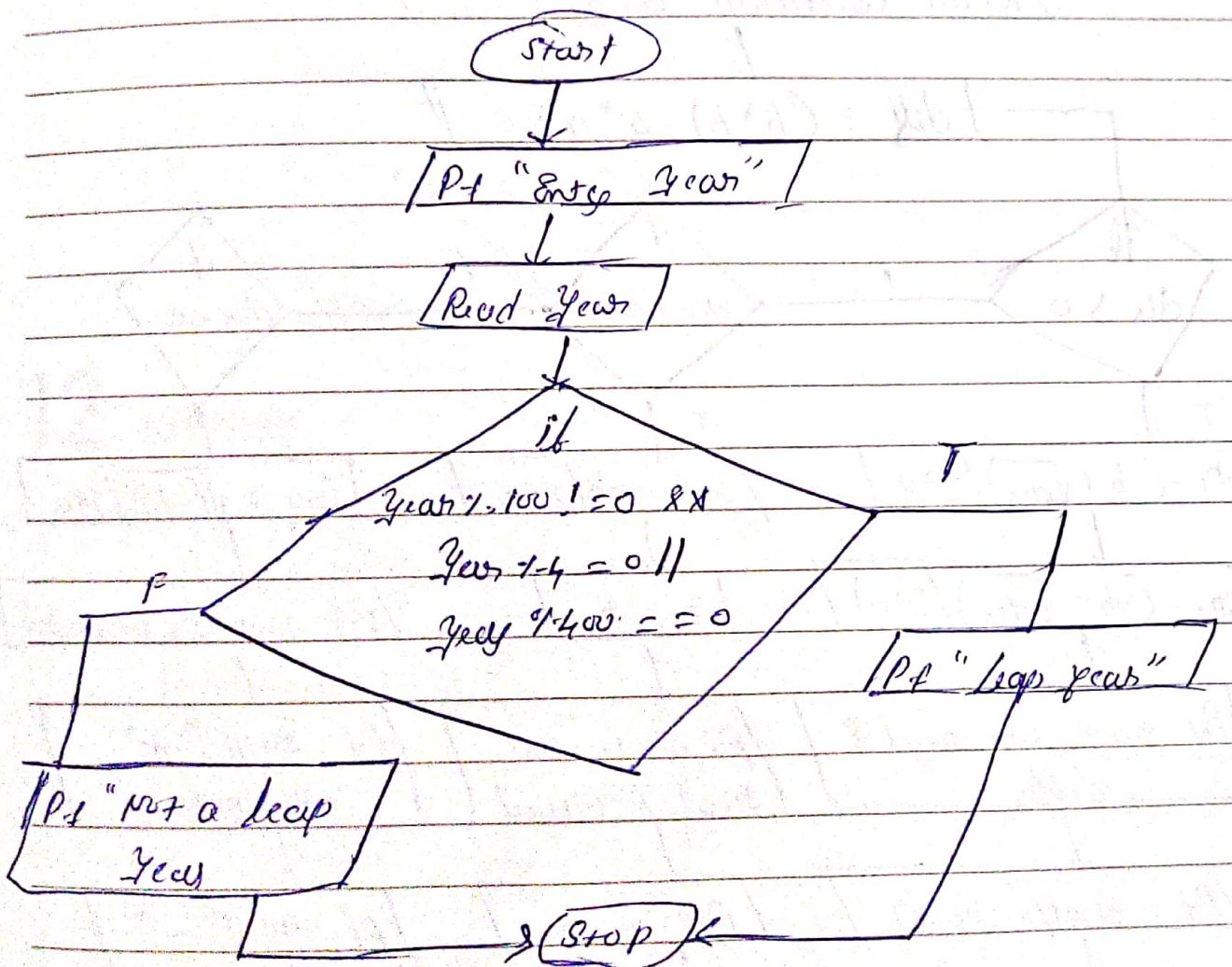
09 THURSDAY

JUNE
2022

Output

x x + + + + x x x x
x x + + + + x x x
+ + + + + - x x
x x x

10) Find given number is leap year are not



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

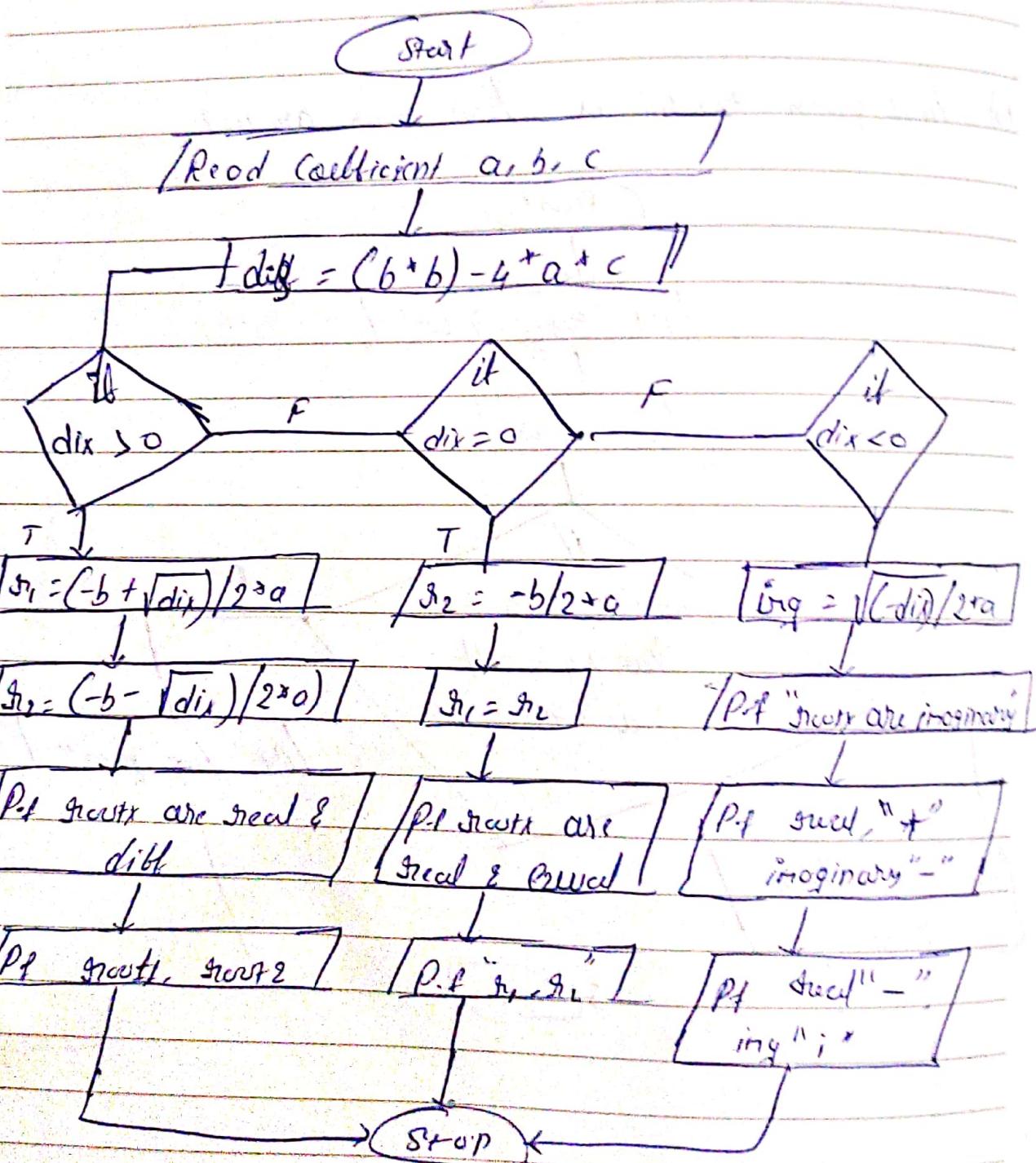
10 FRIDAY

JUNE
2022

11) Roots of a Quadratic Equation

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

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



WIT IF IS IS IMIT WIT IF
 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

11 SATURDAY

JUNE

2022

12) Hollow oval

Quirn

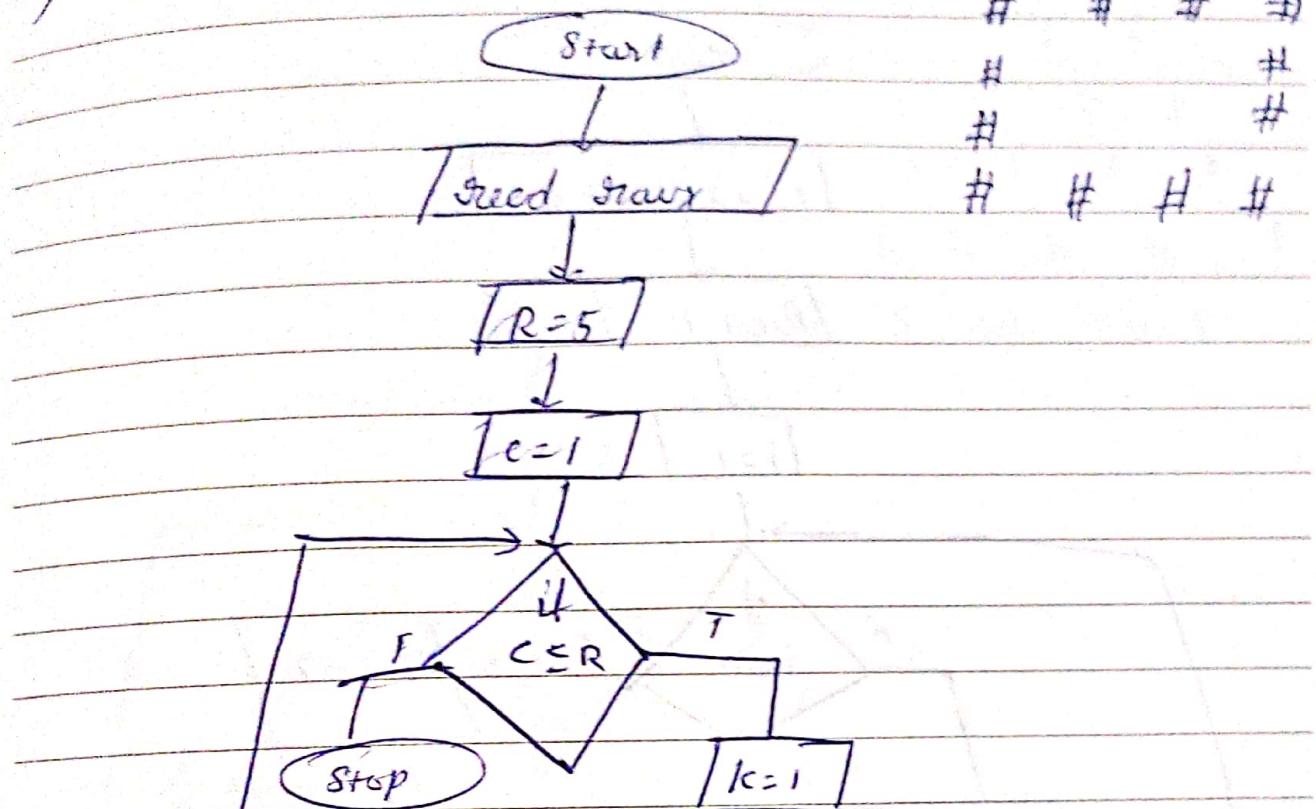
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目 录

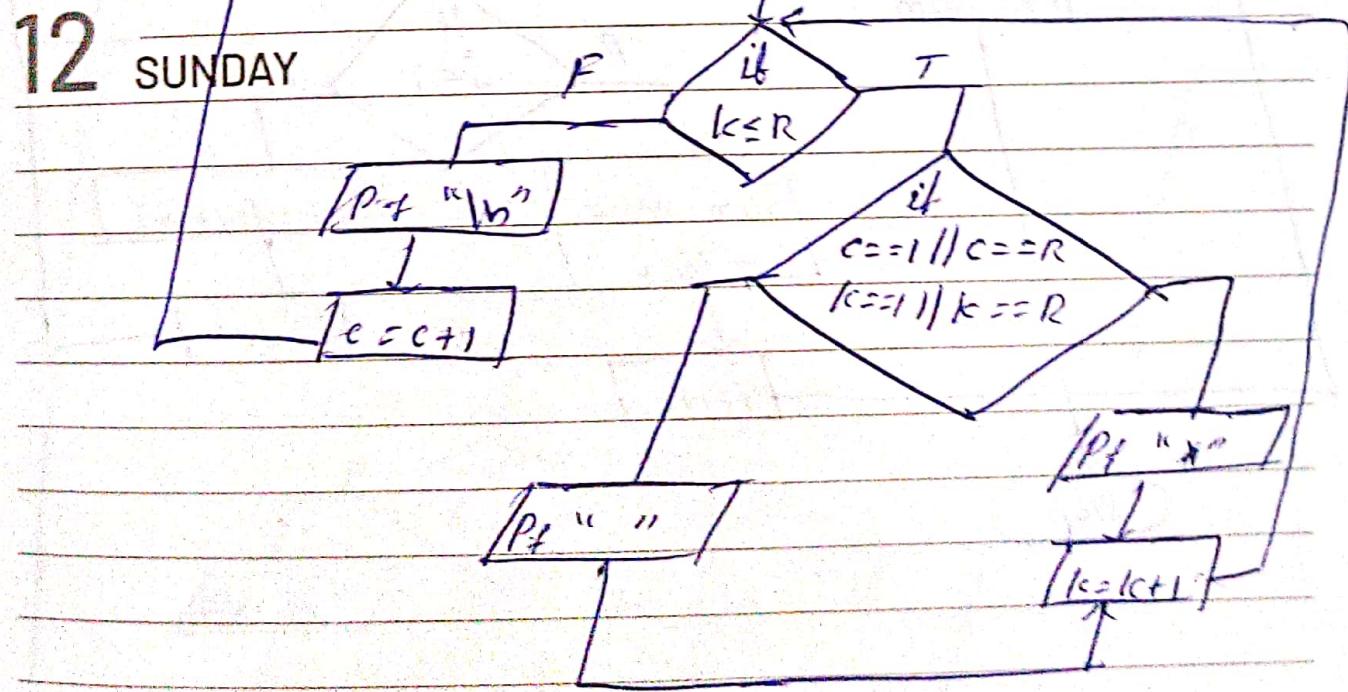
11 11

卷之三

书 林 月 珊



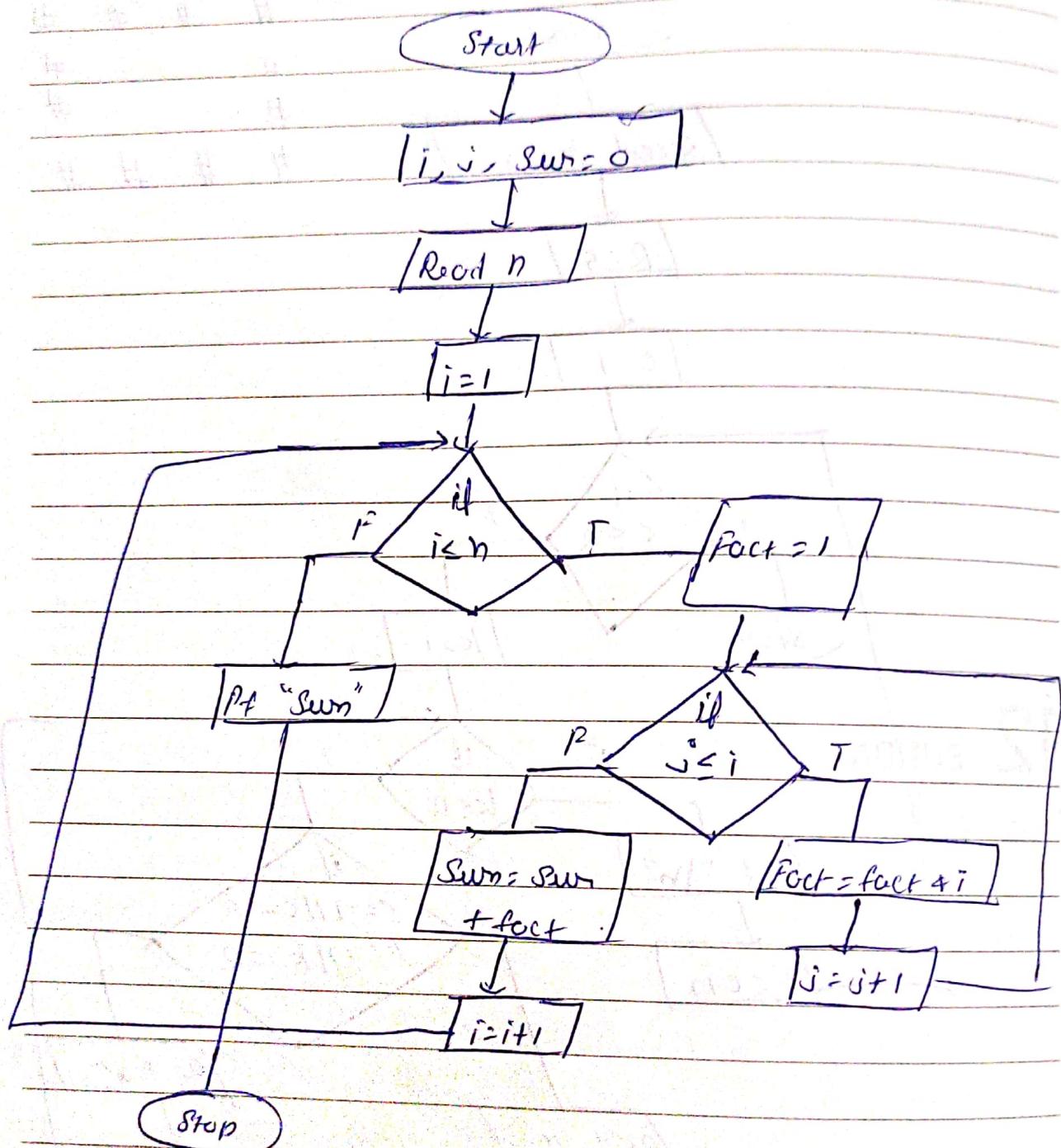
12 SUNDAY



13 MONDAY

JUNE
2022

13) Sum of Factorial of series



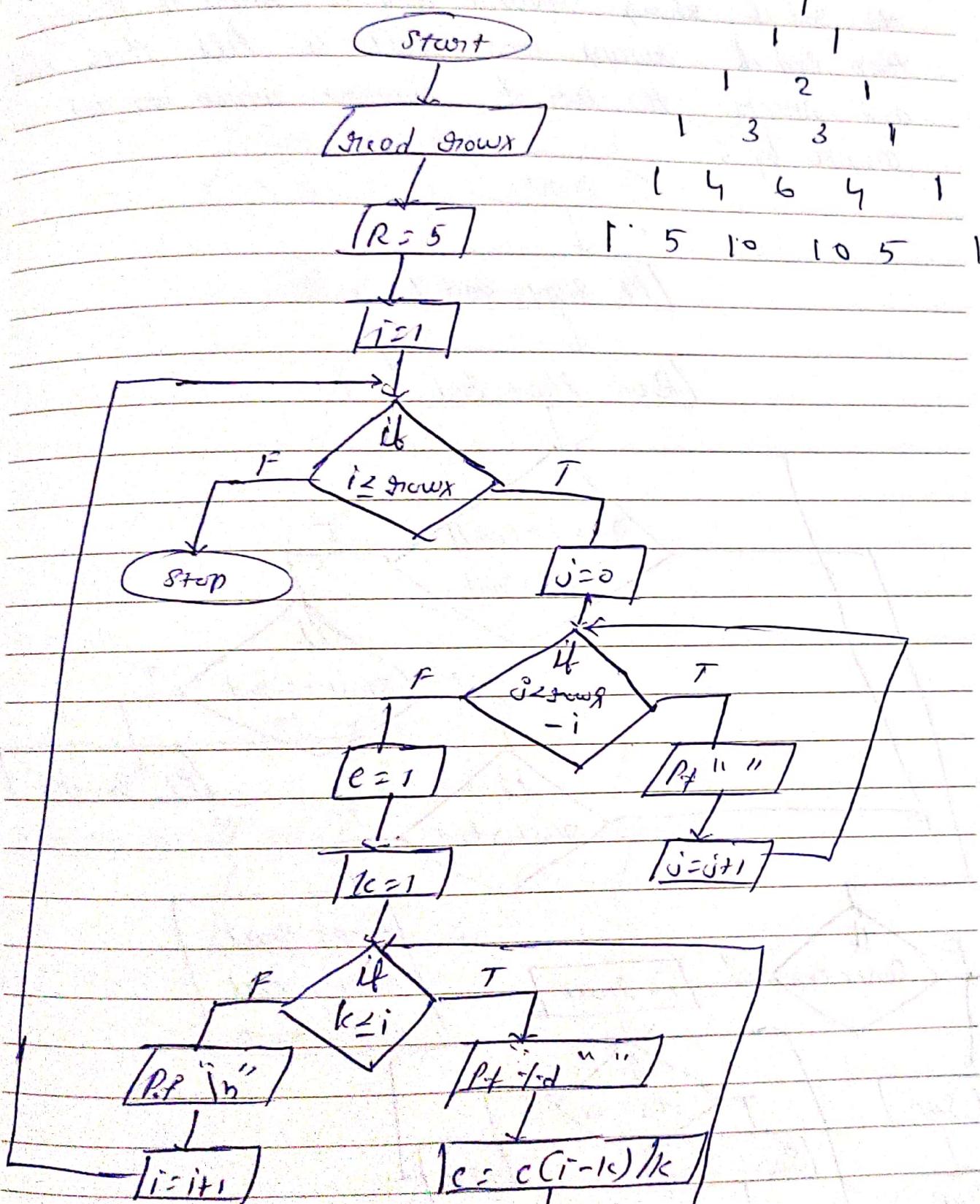
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

14 TUESDAY

JUNE
2022

14) Pascal Triangle

Output

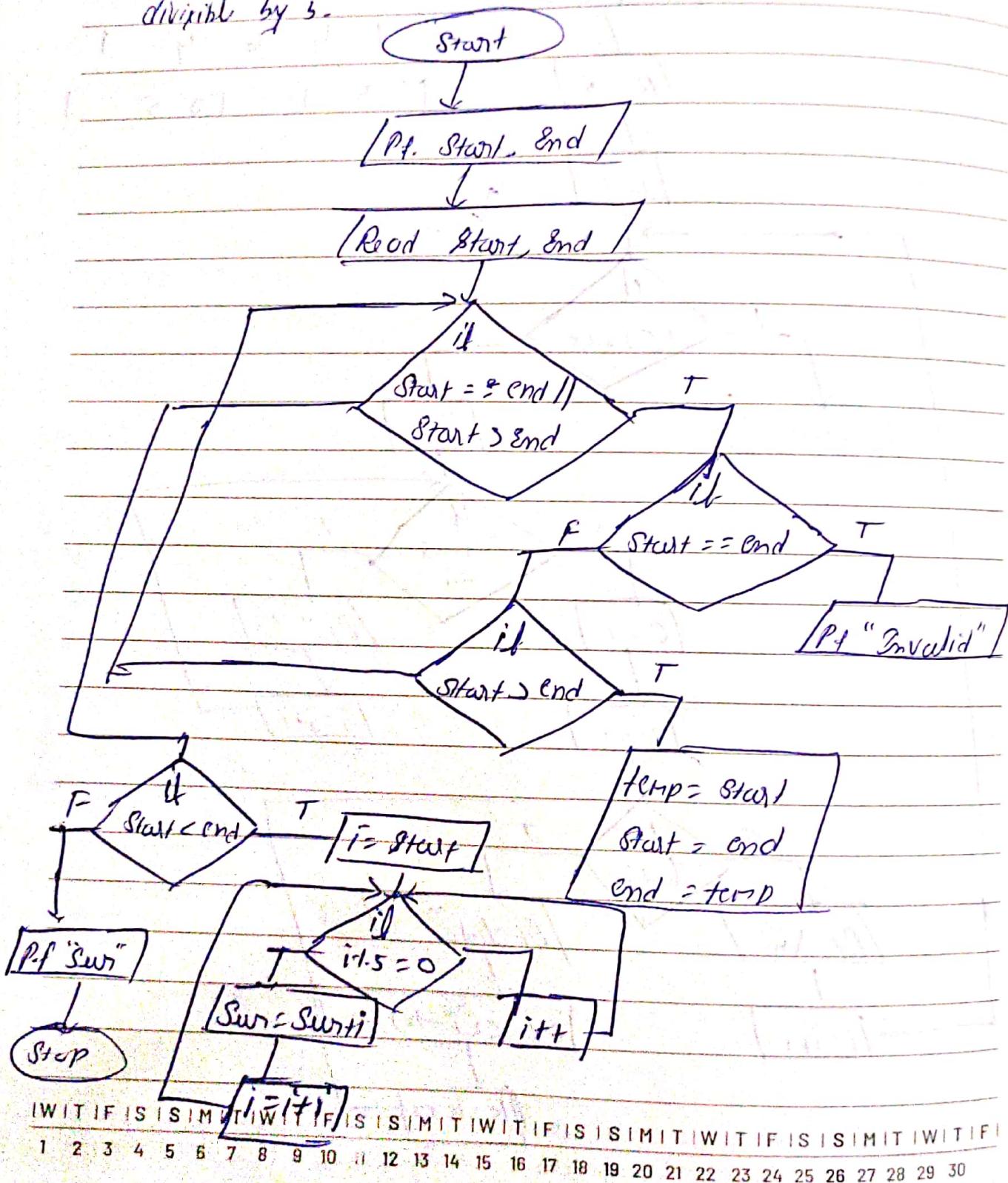


1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

15 WEDNESDAY

JUNE
2022

15) Take two integer ranges from user if start is equal to end then show invalid and if start is greater than end then swap and start is less than end and prints the sum of numbers which are not divisible by 5.

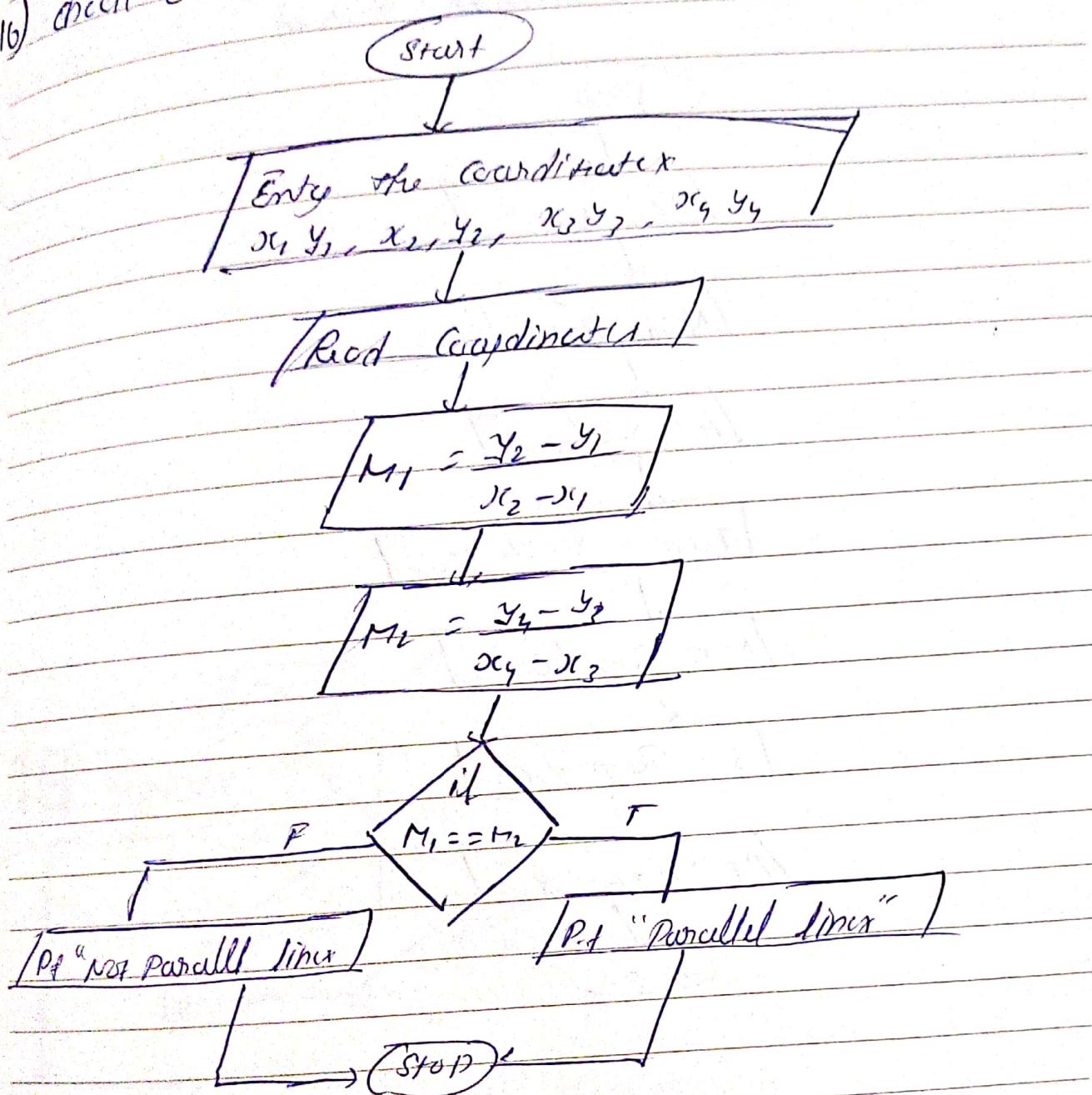


16 THURSDAY

JUNE

2022

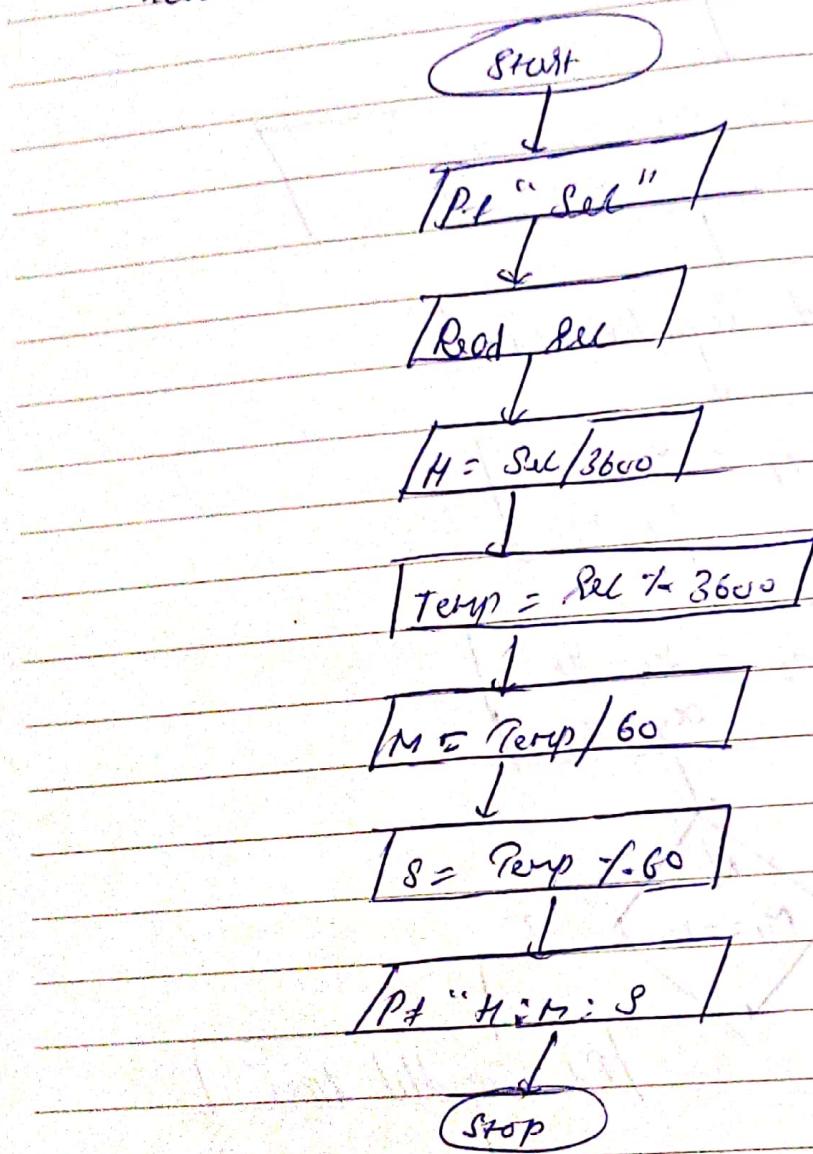
16) check whether two lines are parallel or not



JUNE
2022

17 FRIDAY

17) Take input of seconds from user & print into
hours : minutes : seconds format



1

(

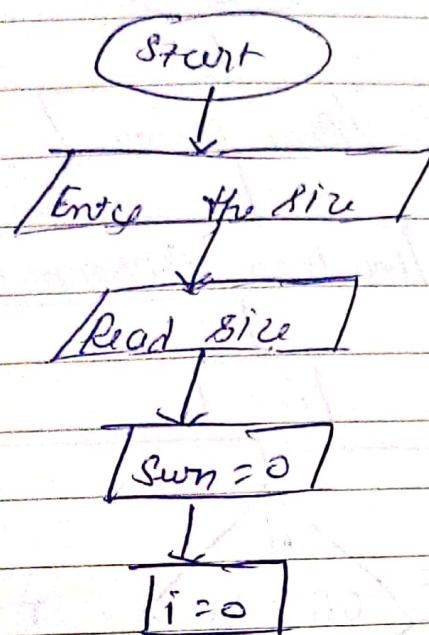
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

18 SATURDAY

JUNE

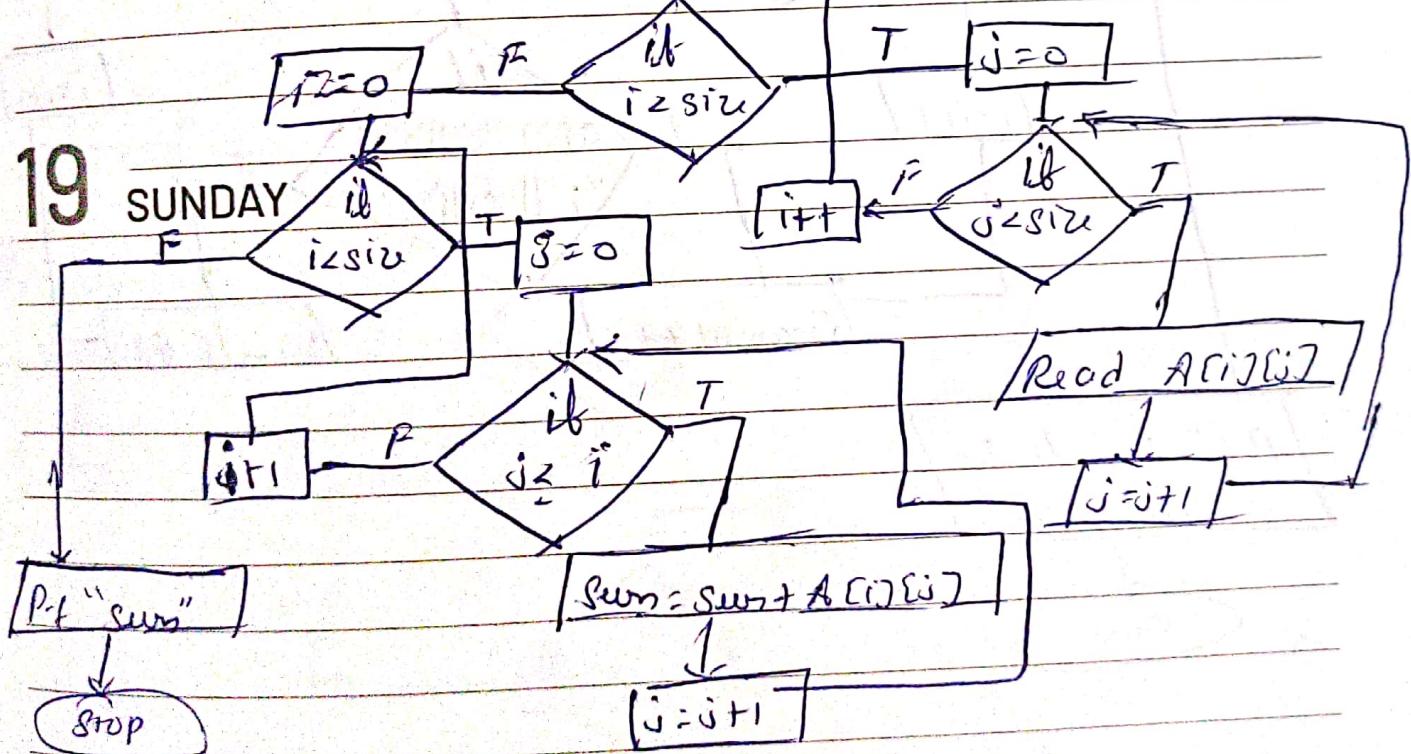
2022

18) Calculate the sum of all elements of lower triangle in a matrix size 3×3



19

SUNDAY

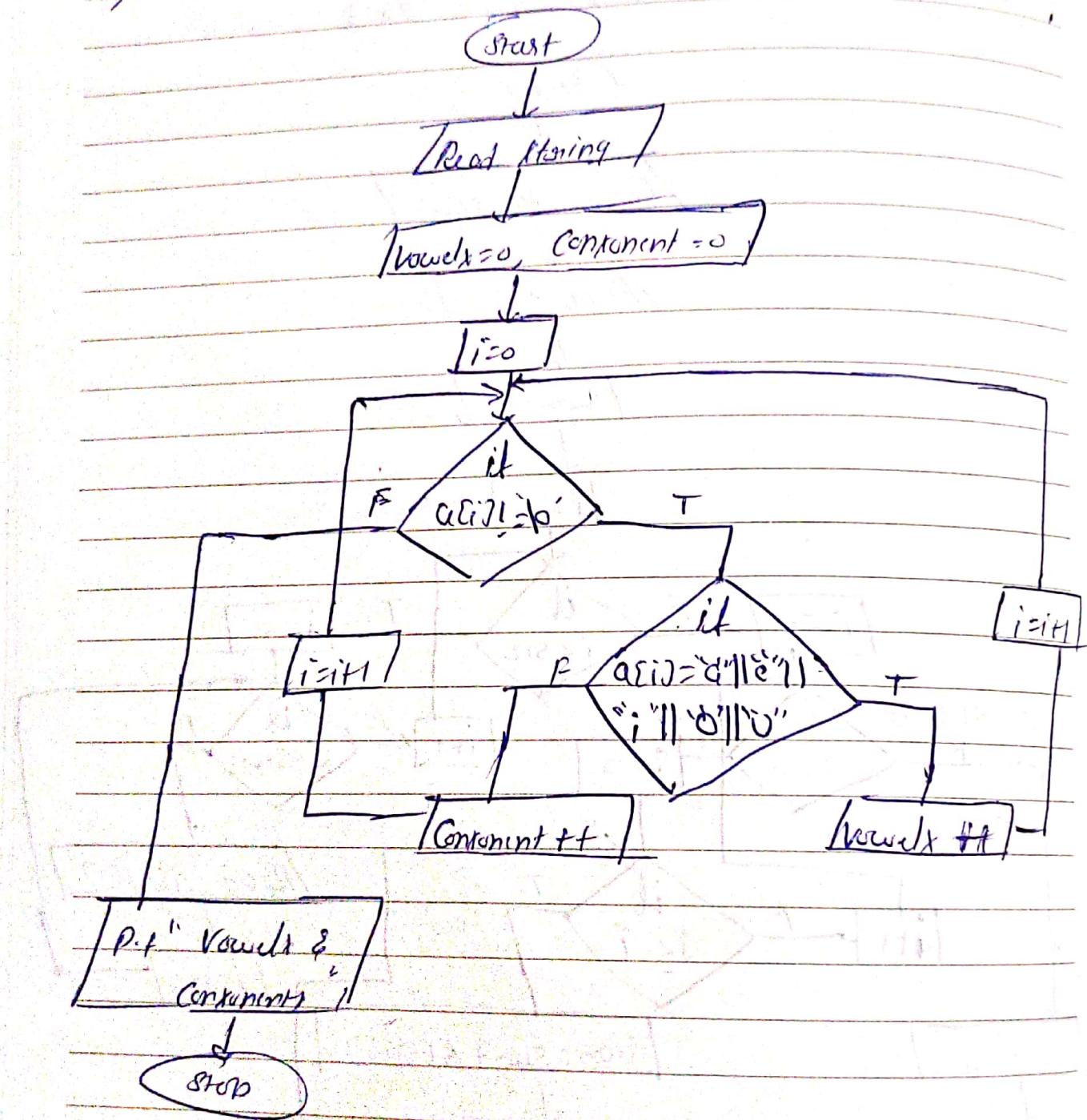


1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

20 MONDAY

JUNE
2022

19) Number of vowels & consonants in a given string



WIT IF IS IS IM IT WIT IF
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

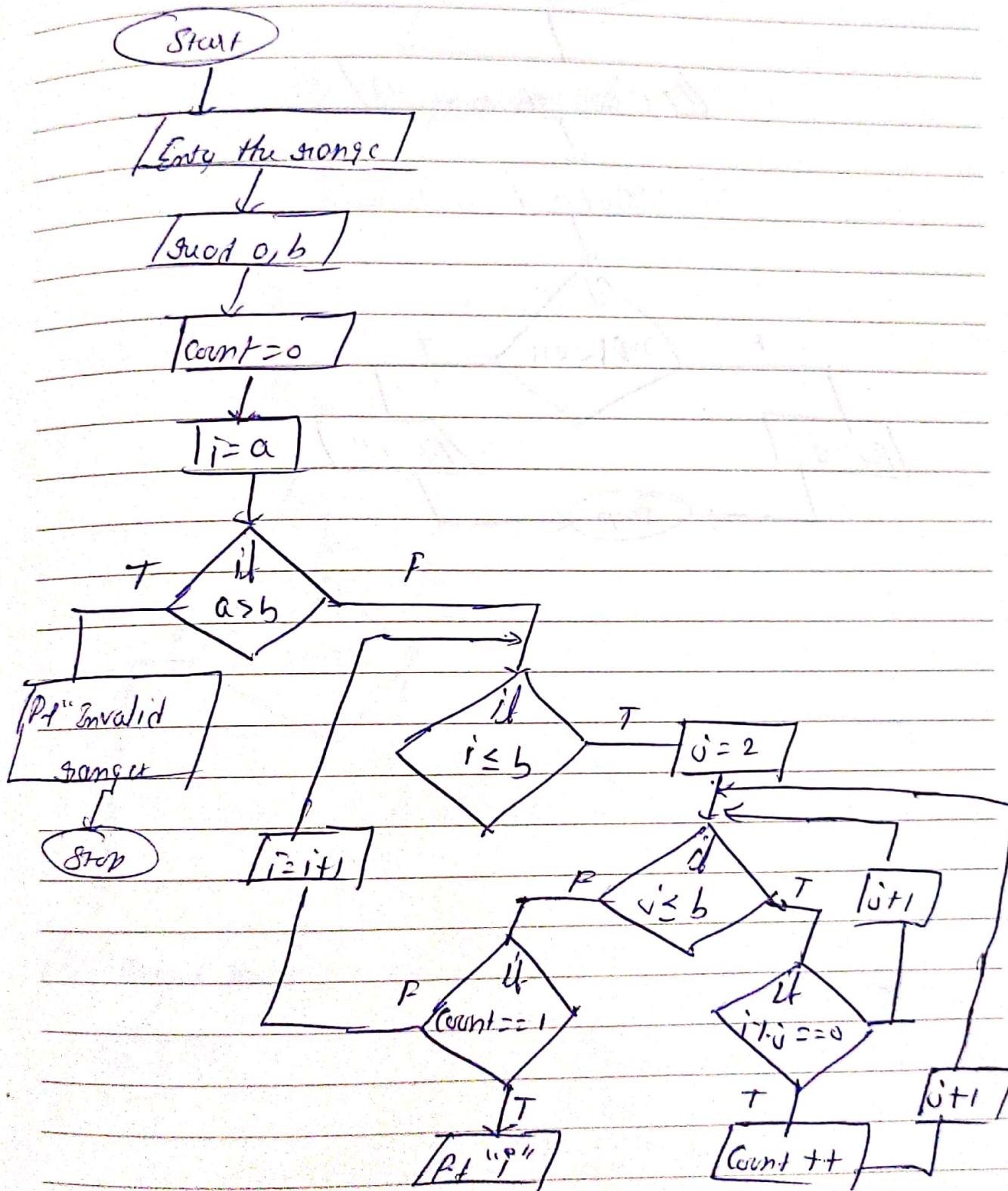
21

TUESDAY

JUNE

2022

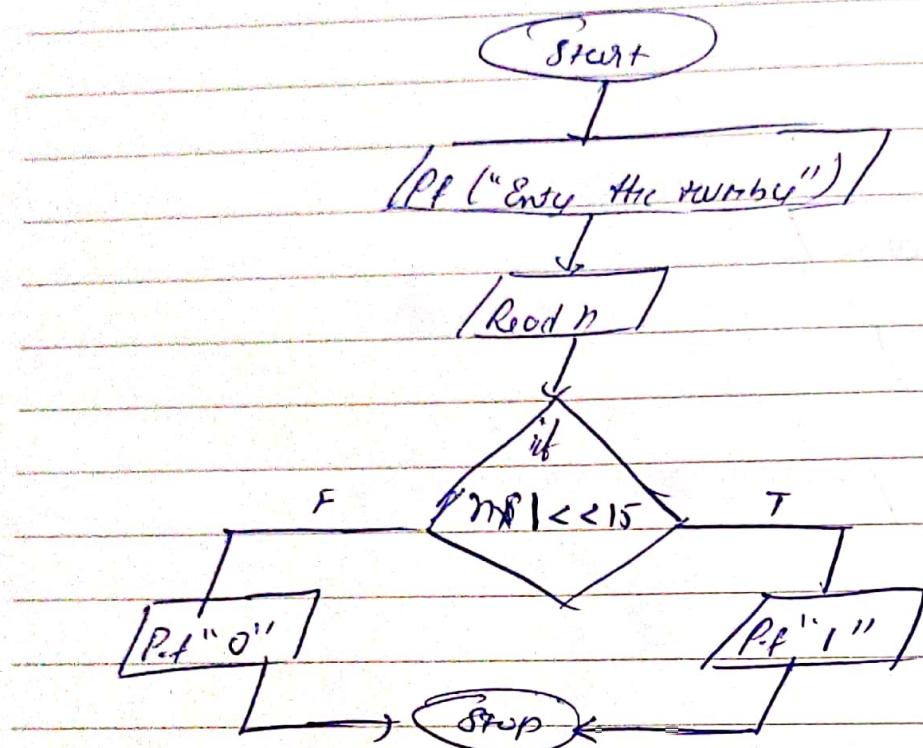
Q) Find the prime numbers between two ranges given by
100 & 150.



22 WEDNESDAY

JUNE
2022

21) Find the HSR of a given number

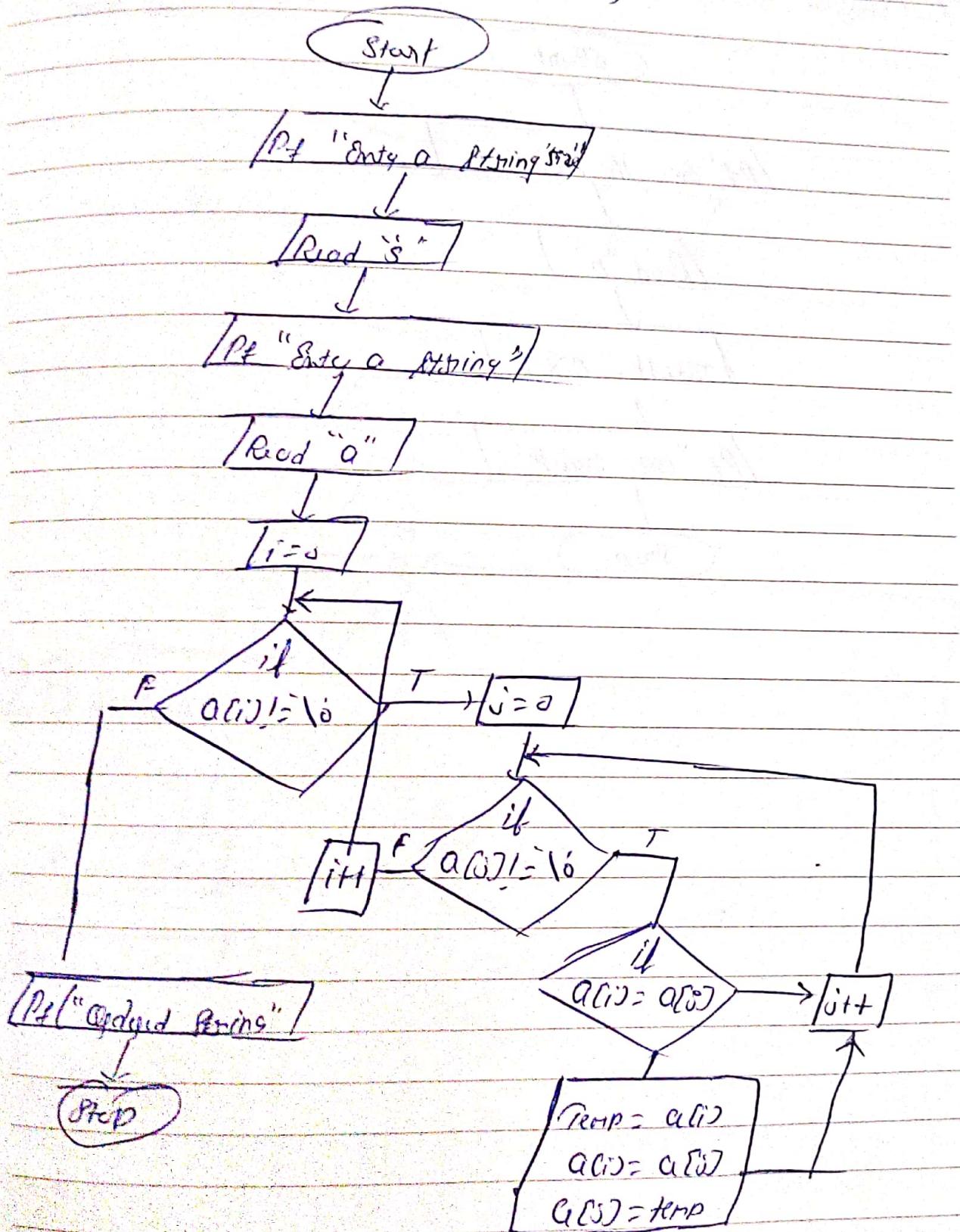


1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

23 THURSDAY

JUNE
2022

2) Characters in alphabetical order

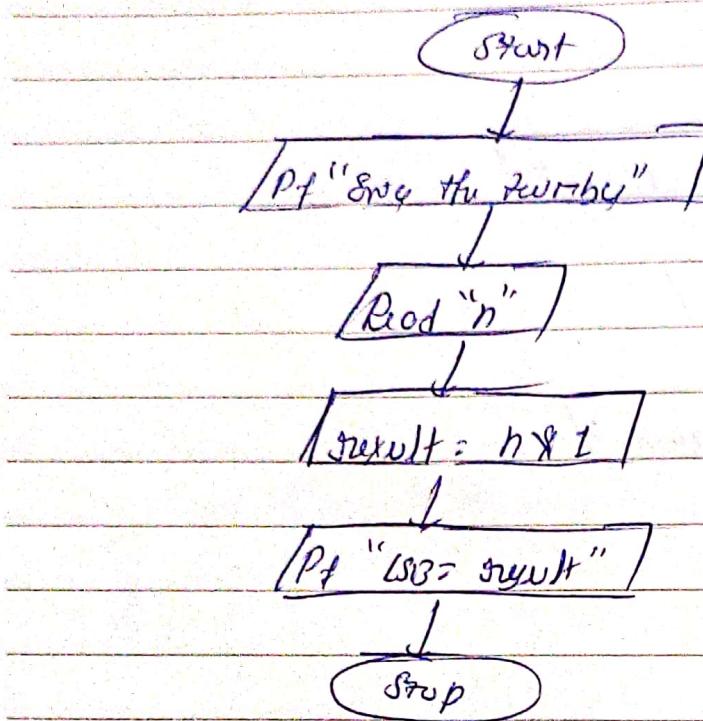


WITIFISISIMITIWITIFISISIMITIWITIFISISIMITIWITIFISISIMITIWITIF
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

24 FRIDAY

JUNE
2022

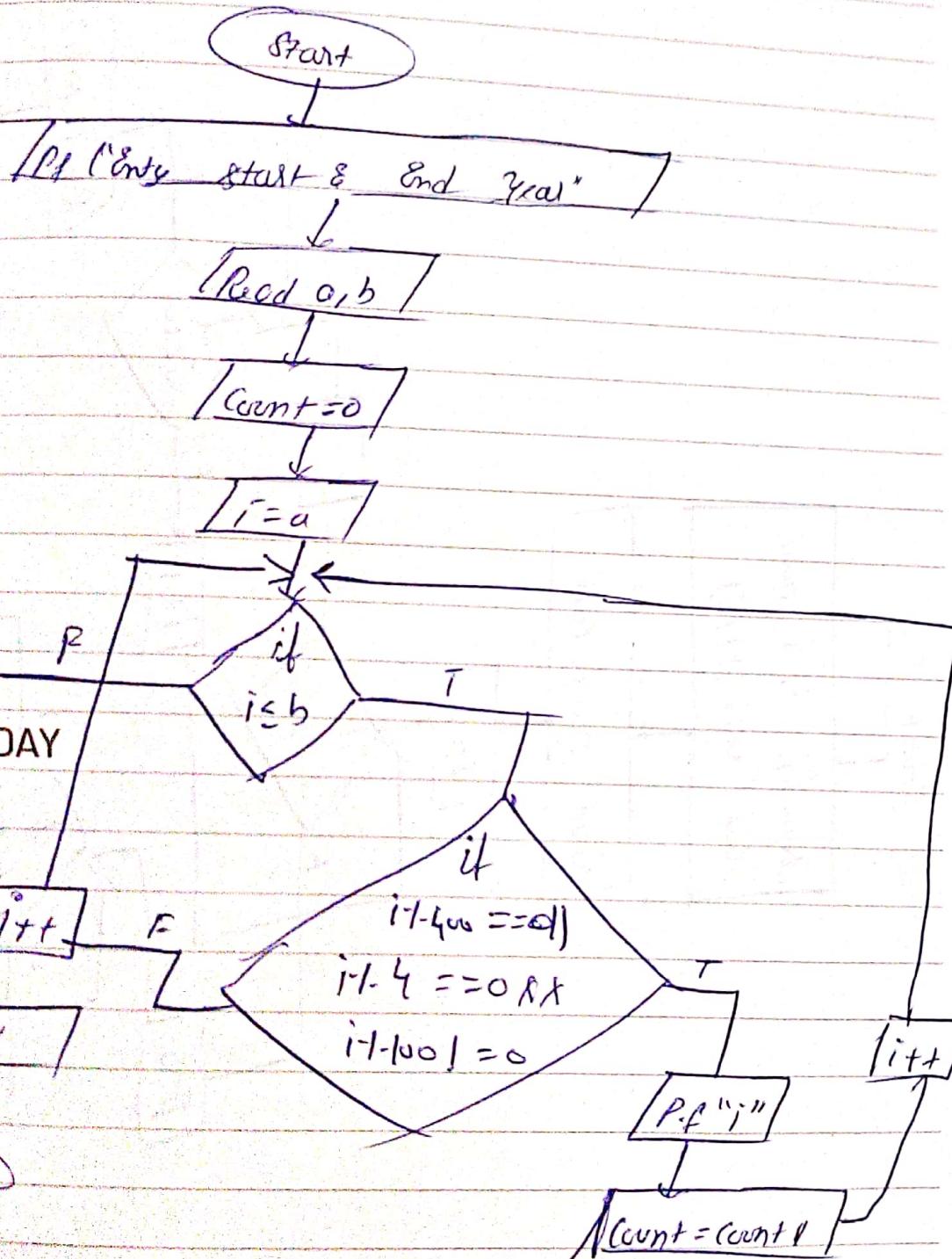
23) Find LSI of given words



25 SATURDAY

JUNE
2022

24) Find the leap year and count between the range given by user



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

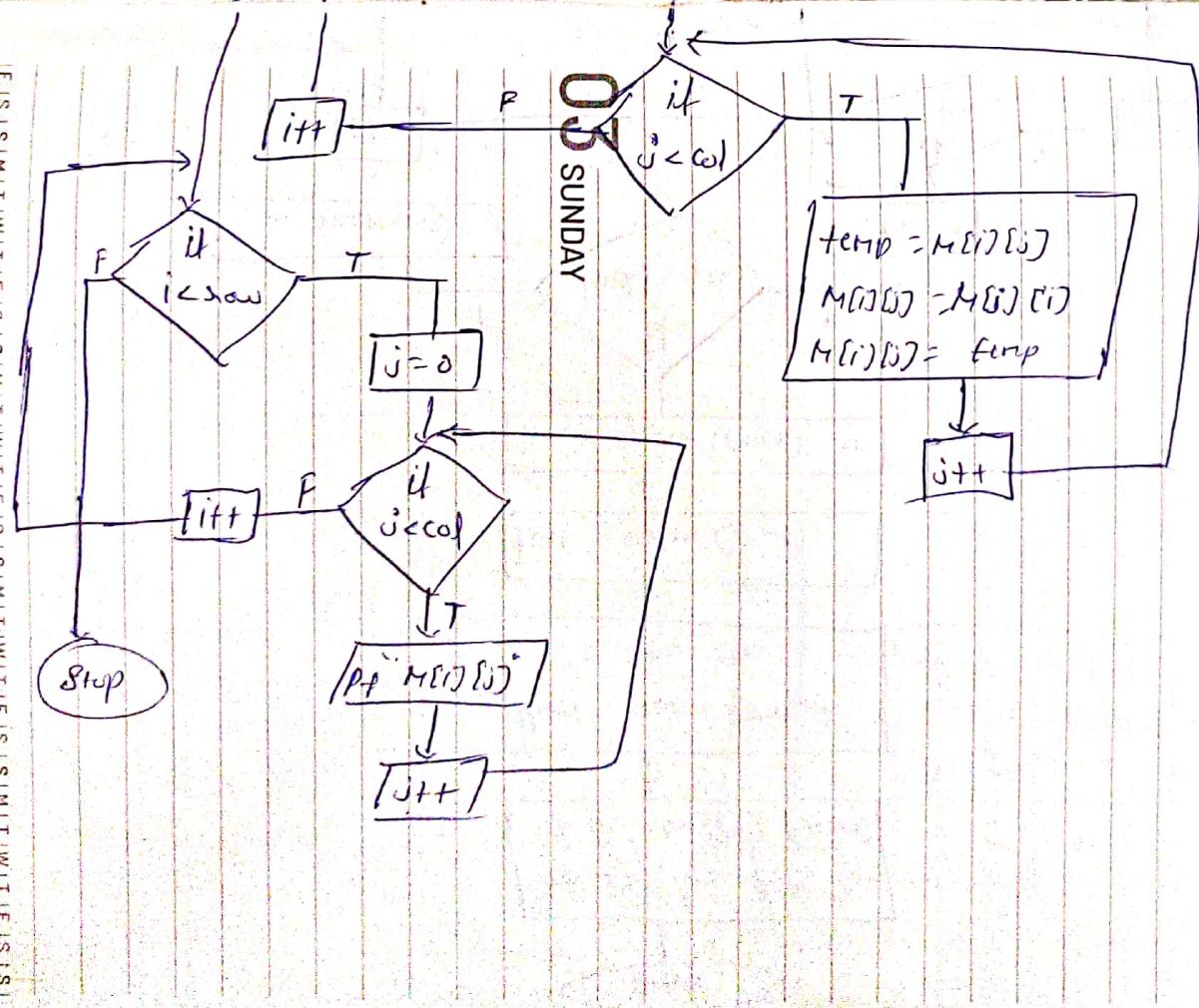
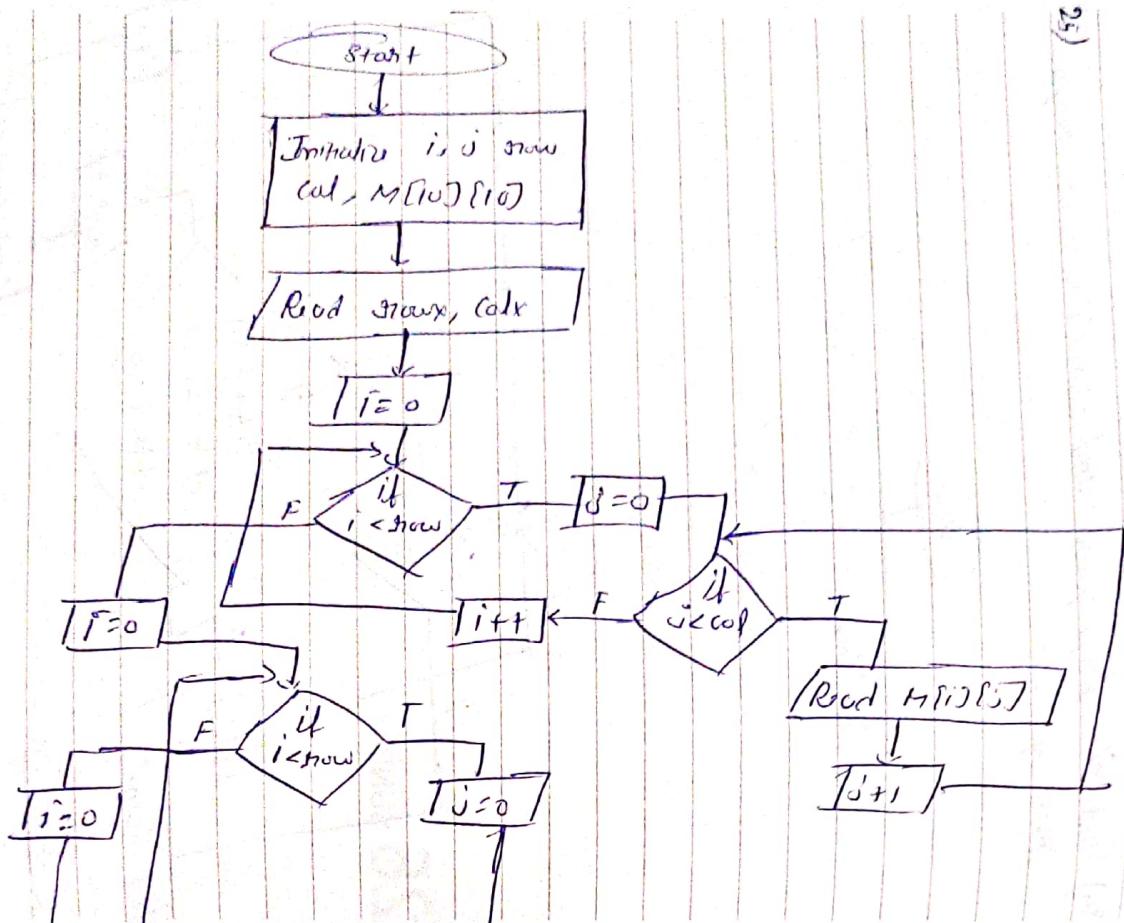
27 MONDAY

2022 JUNE

02 SATURDAY

2022
JULY

Transpose of a Matrix



04 MONDAY

2022 JULY

05 TUESDAY

2022 JULY

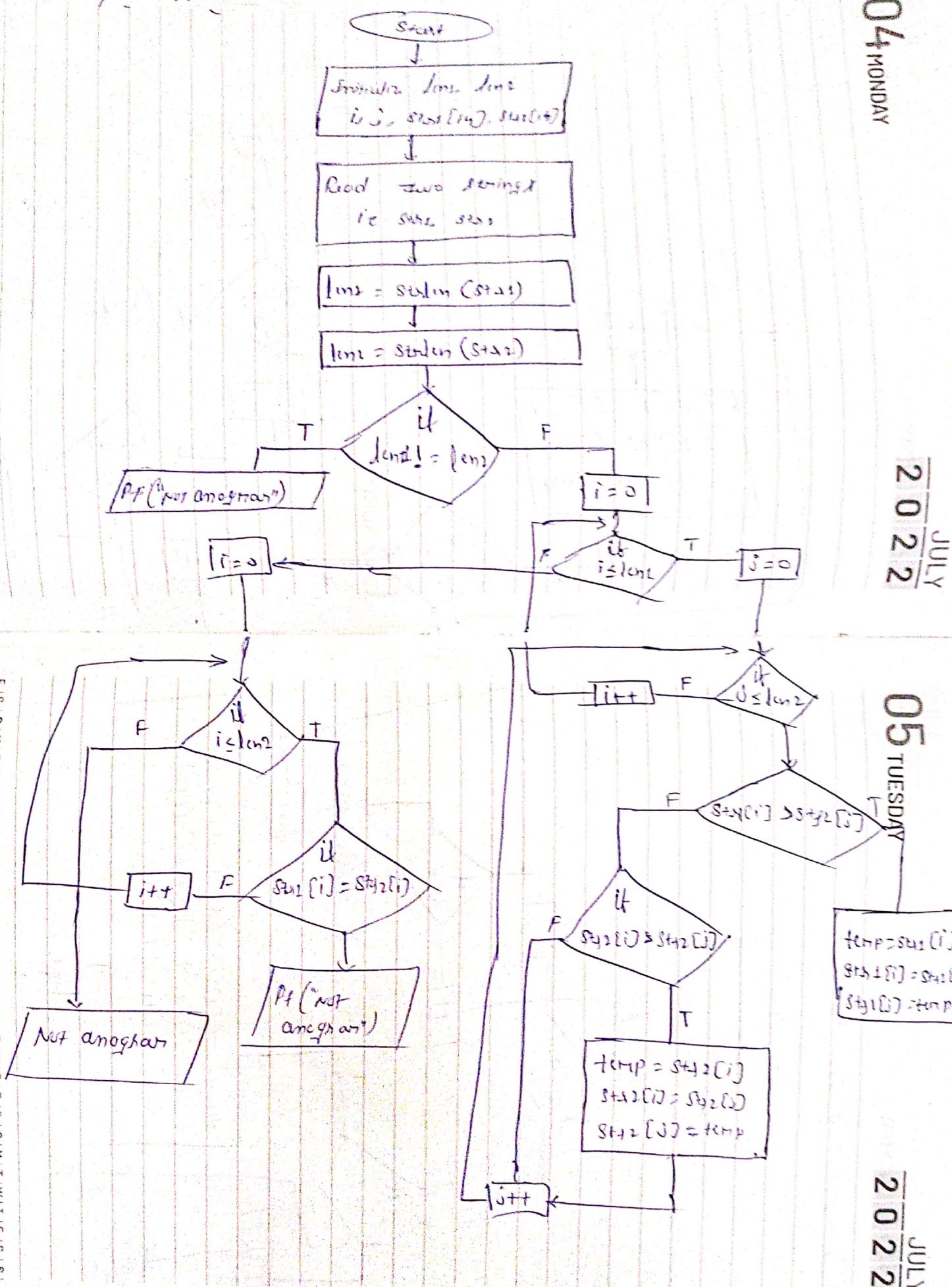
Transpose of a Matrix

26)

Answer

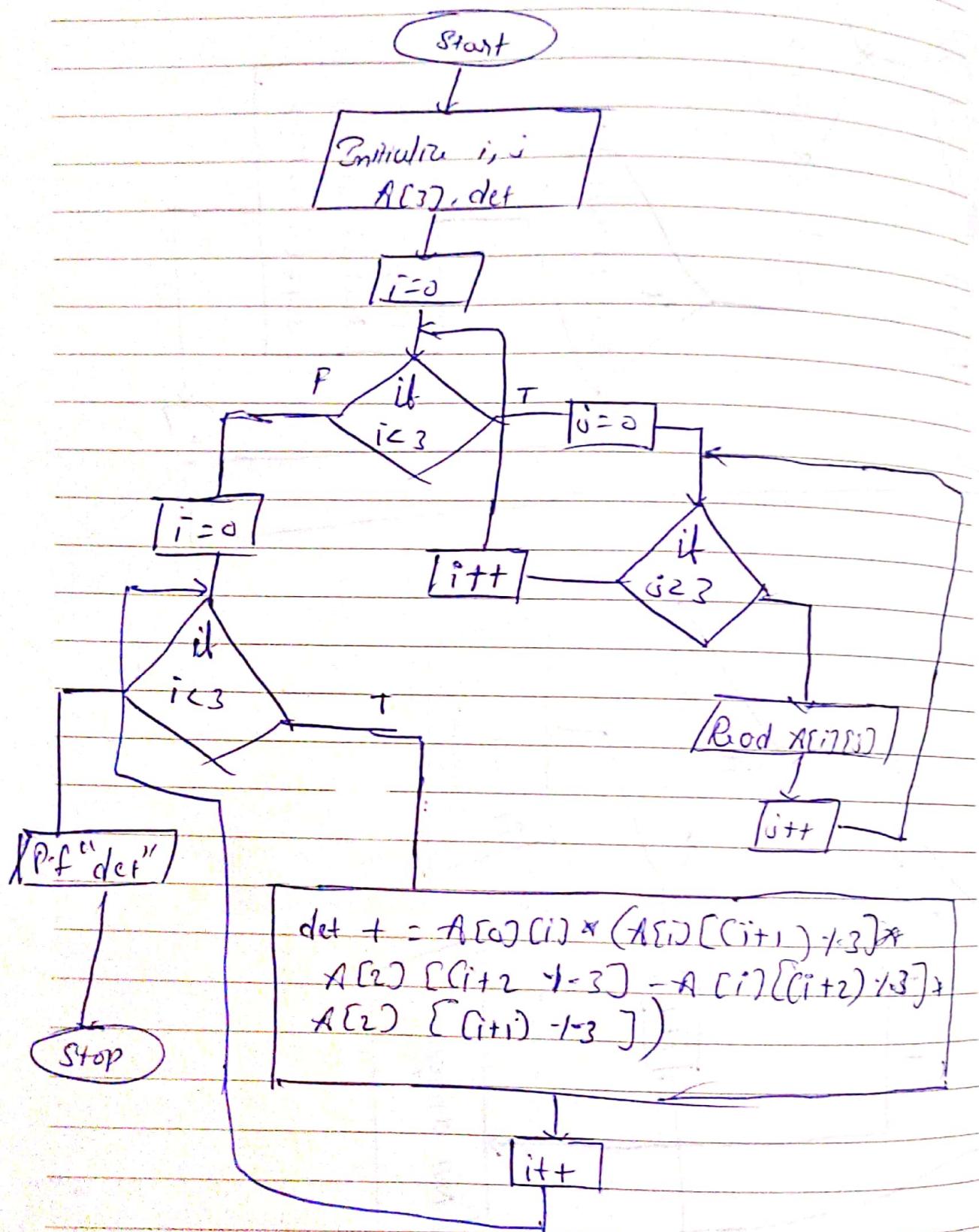
F | S | S | M | T | W | T | F | S | S | M | T | W | T | F | S | S | M | T | W | T | F | S | S |

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31



27) Determinant of 3×3 Matrix

(Handwritten of a Matrix)



F 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

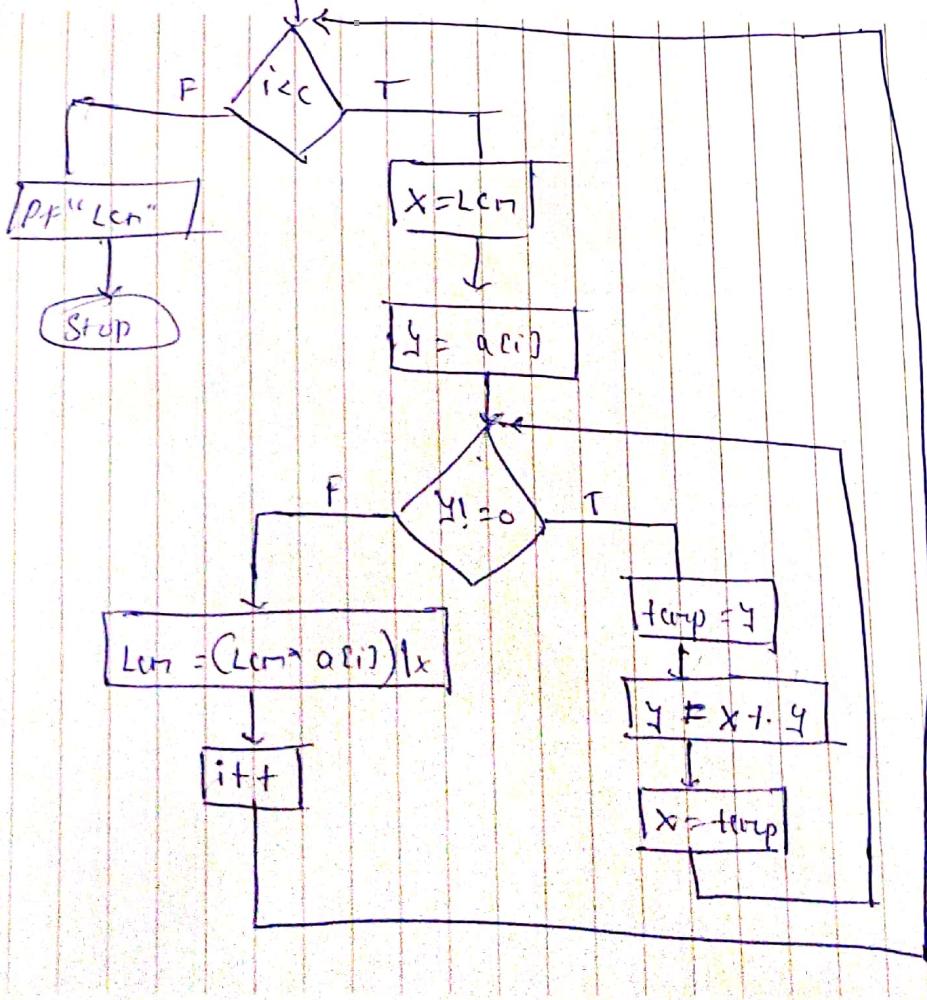
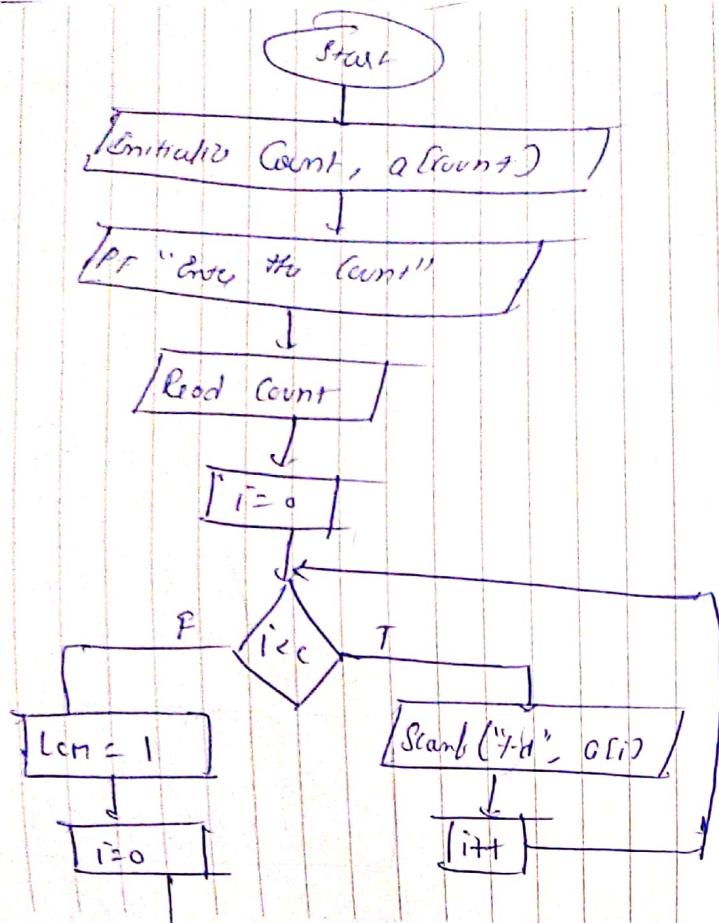
12 FRIDAY

2022 AUGUST

16 TUESDAY

2022 AUGUST

83) Len of \Rightarrow sort but (by input)



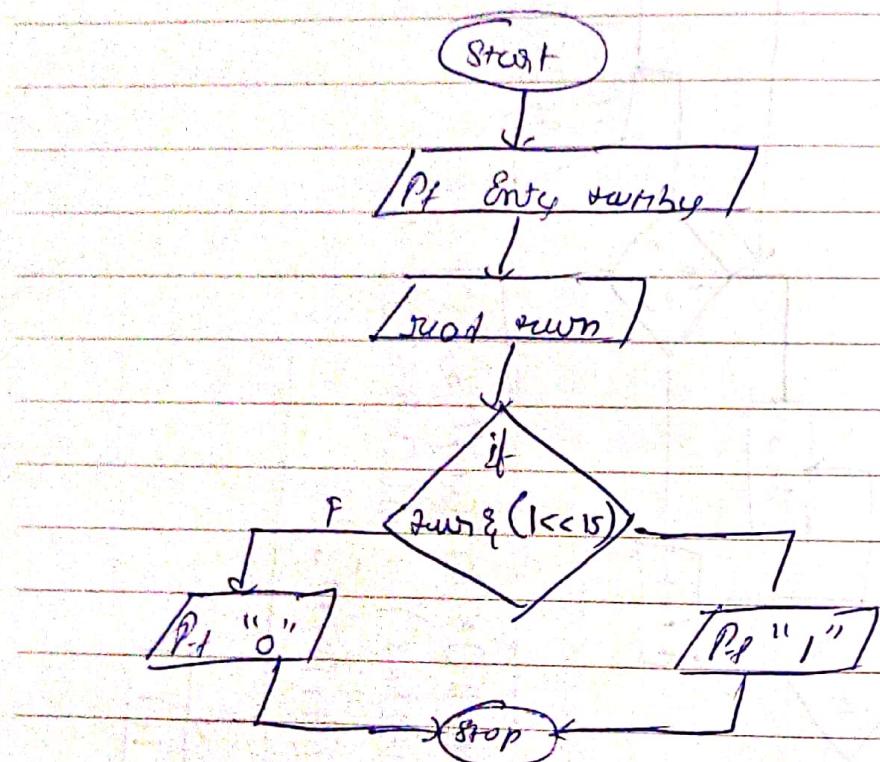
11

MONDAY

JULY

2022

29) n^{th} bit toggle



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

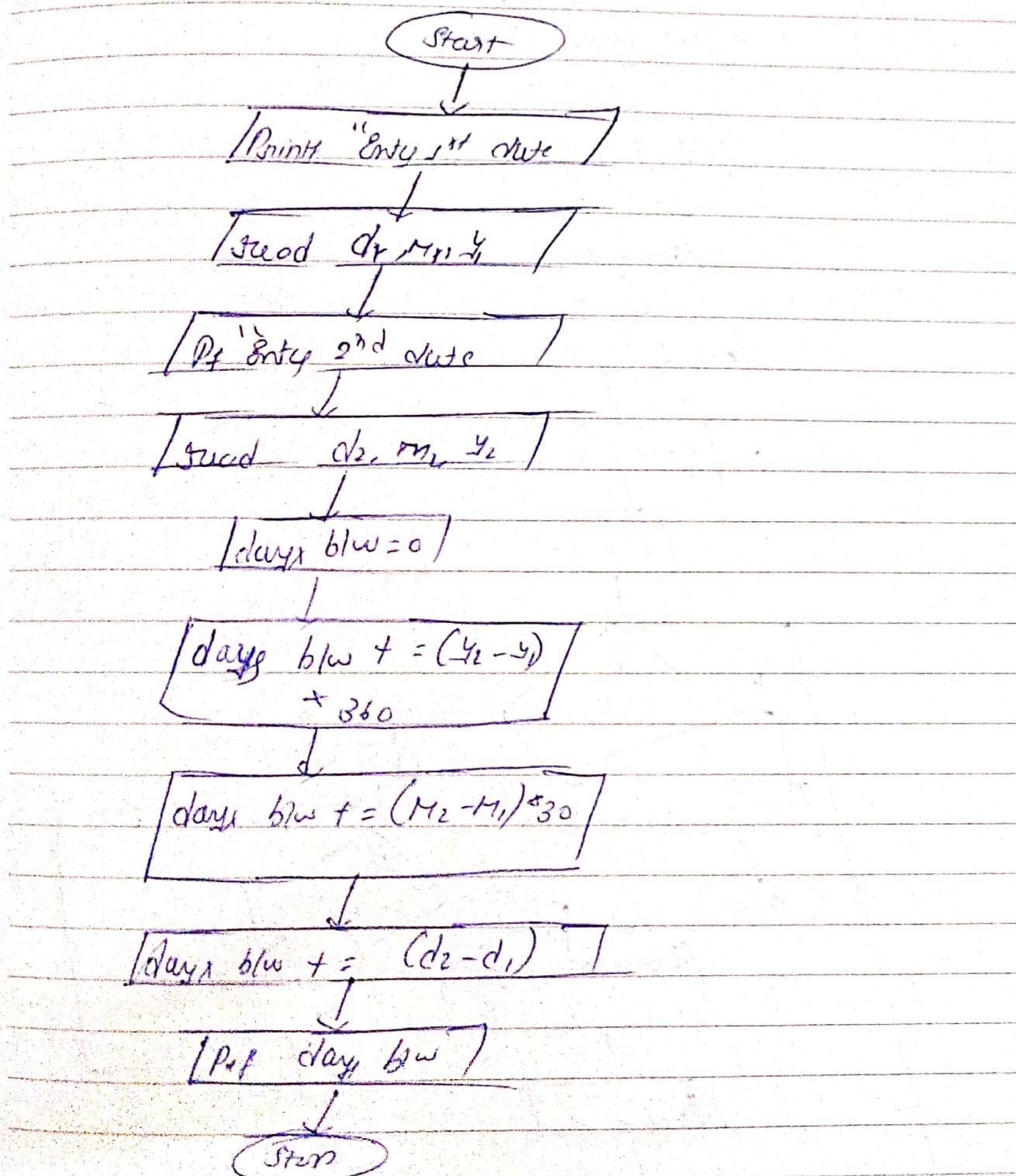
12

TUESDAY

JULY

2022

30) Take two dates from user & calculate no of days between them.



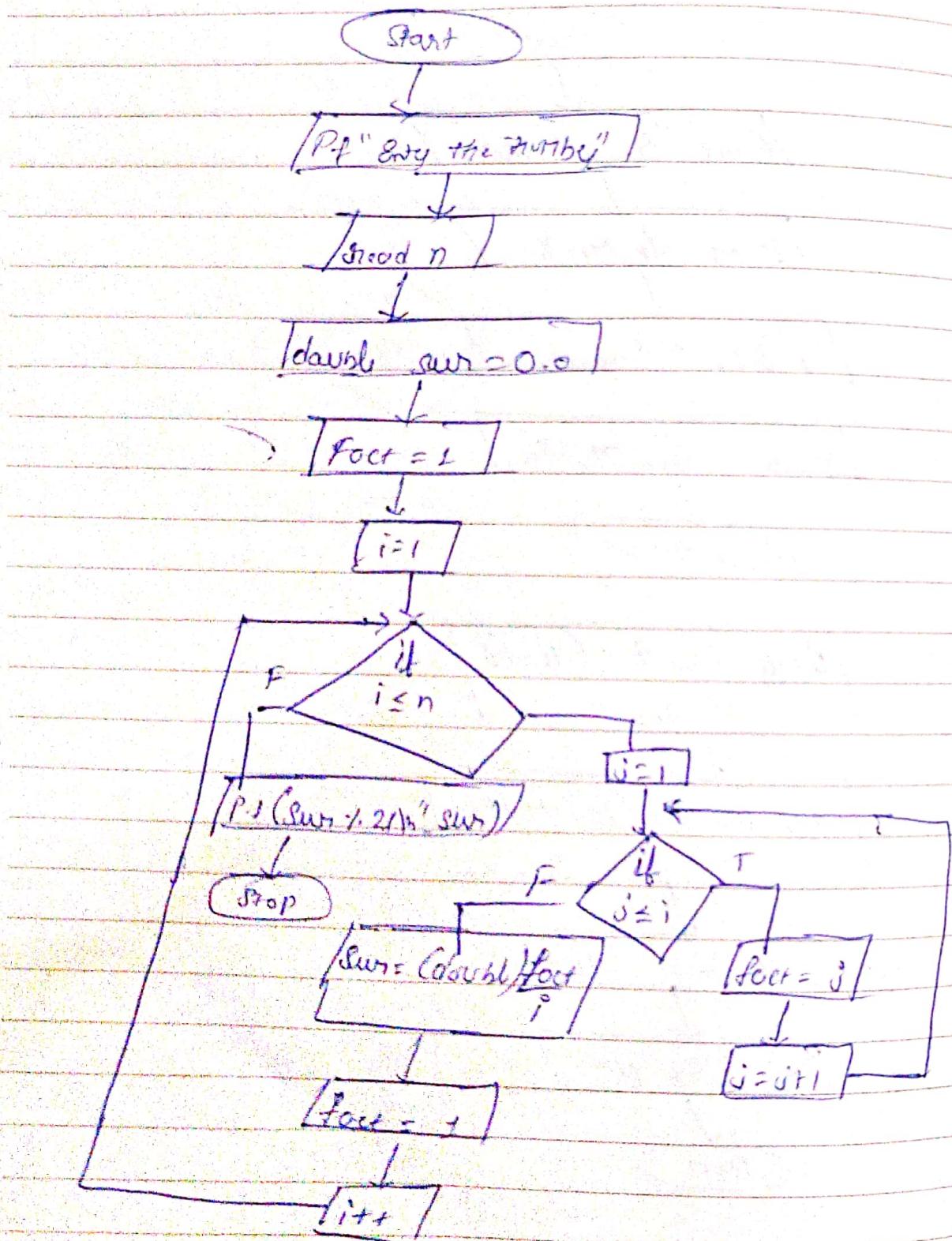
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

13

WEDNESDAY

JULY
2022

$$31) \frac{1!}{1} + \frac{2!}{2} + \frac{3!}{3} + \dots + \frac{n!}{n}$$

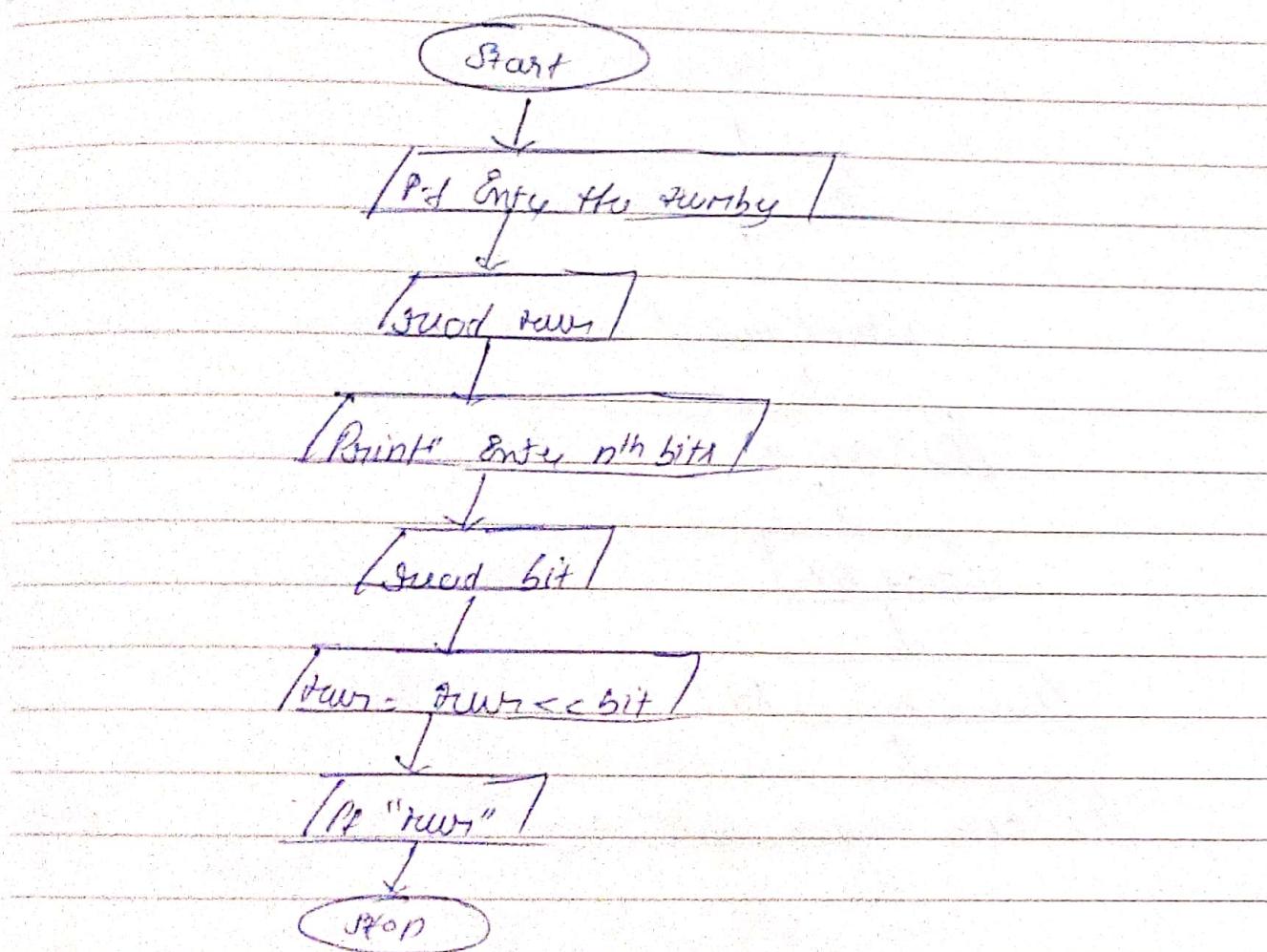


1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

14 THURSDAY

JULY
2022

32) n^{th} bit left side



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

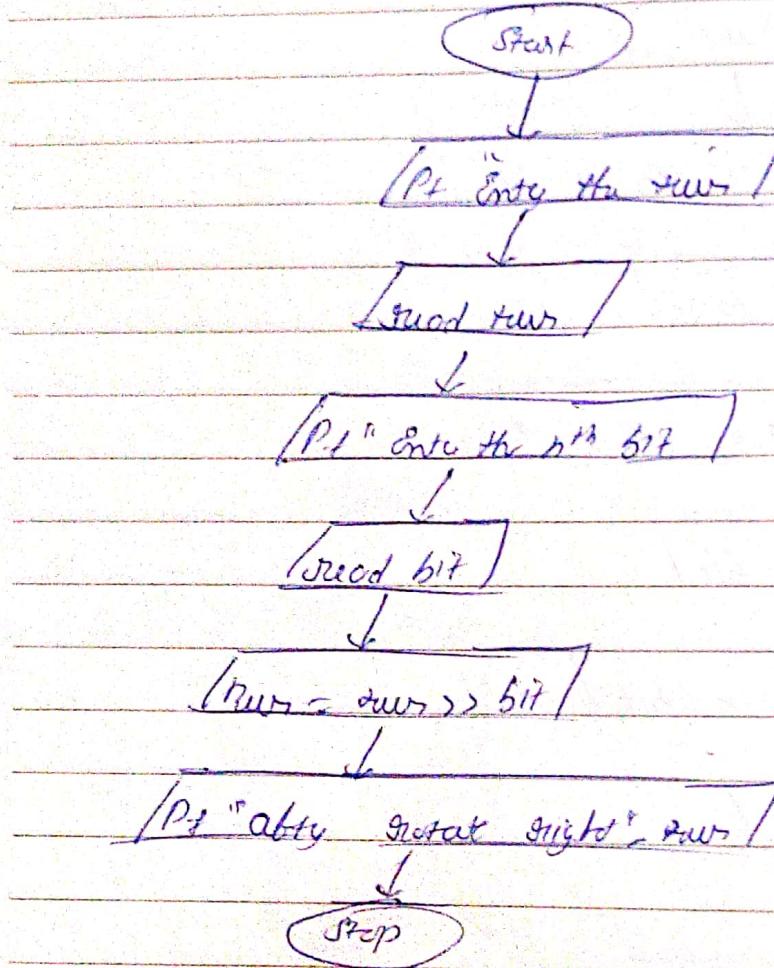
15

FRIDAY

JULY

2022

33) n^{th} bit right side

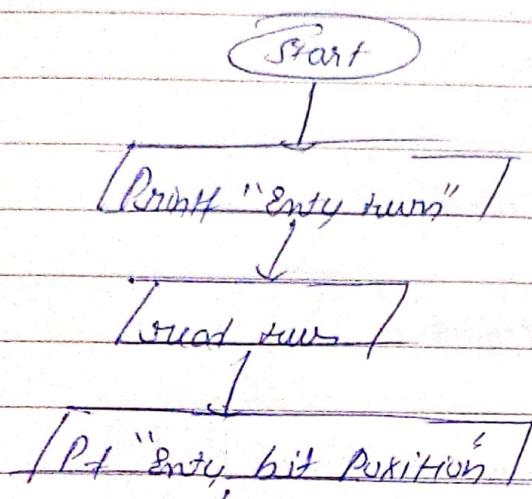


1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

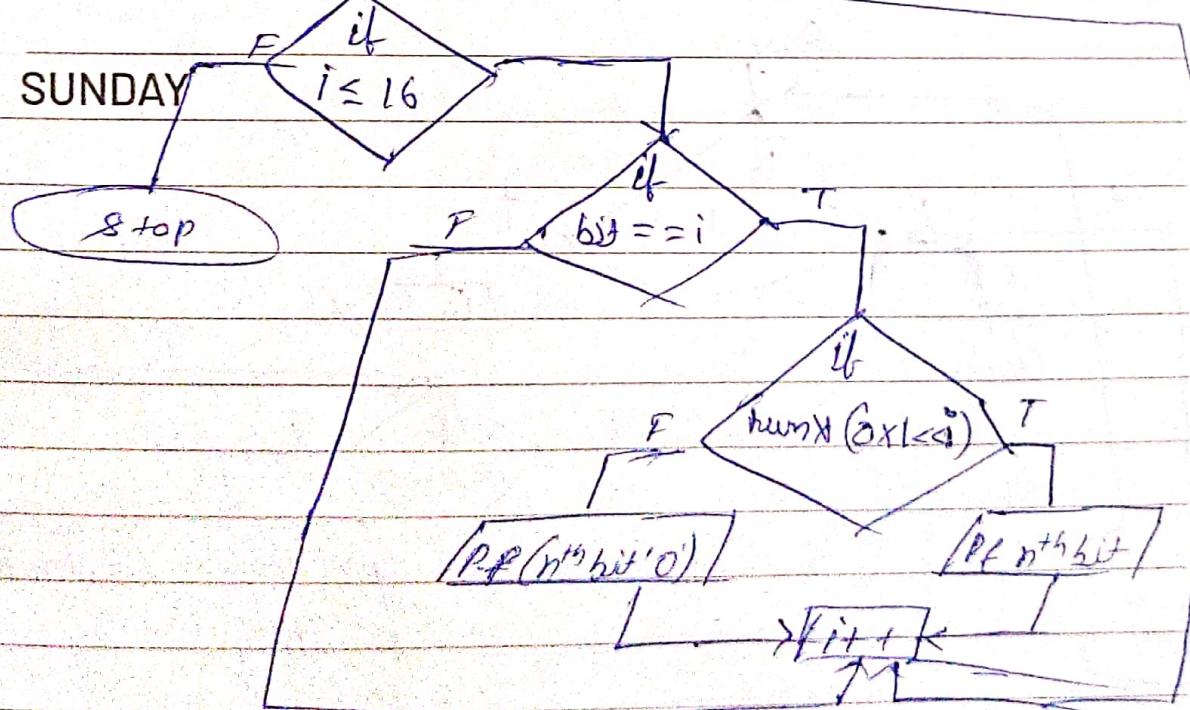
16 SATURDAY

JULY
2022

34) n^{th} bit display



17 SUNDAY

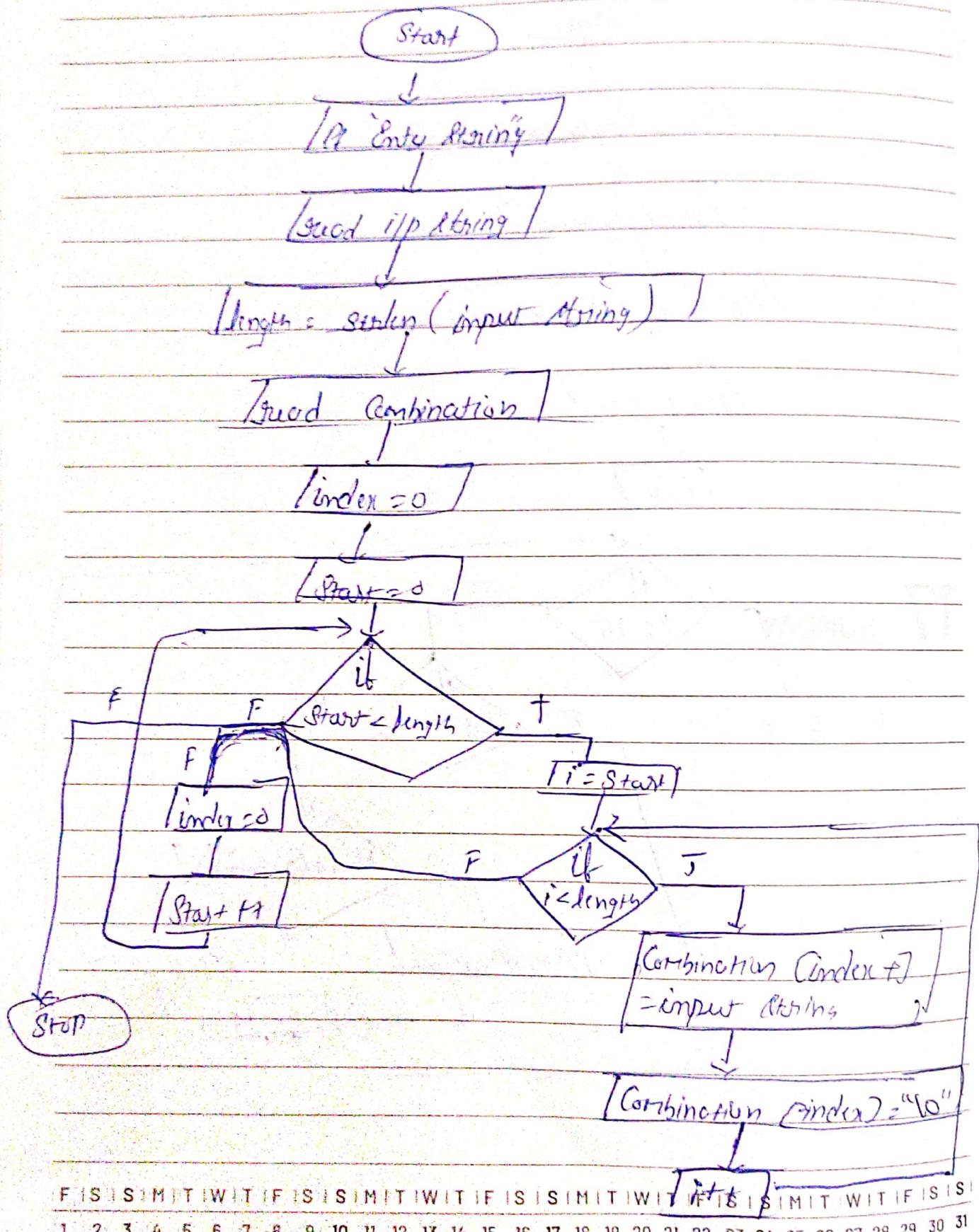


1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

18 MONDAY

JULY
2022

35) String Combination



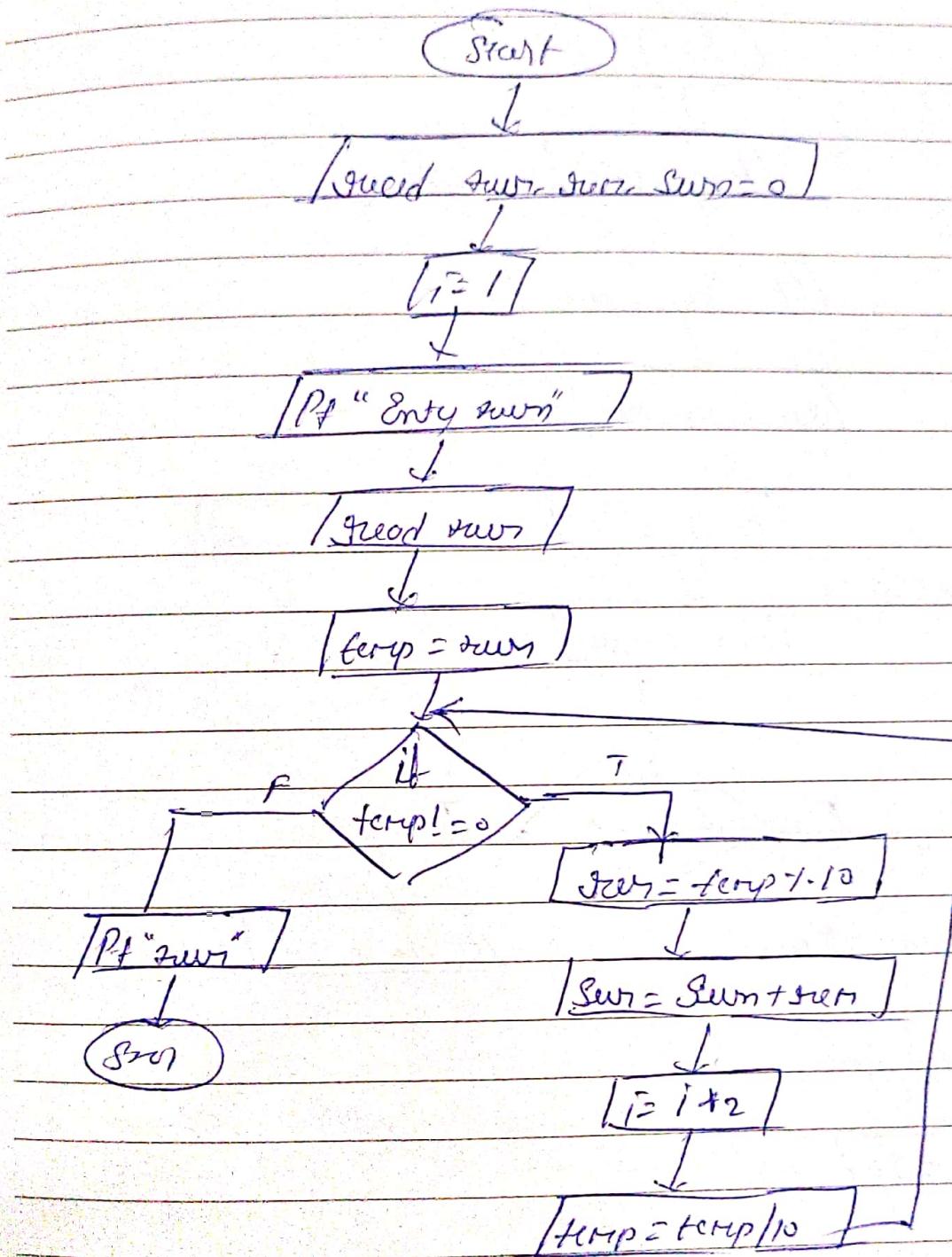
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

19

TUESDAY

JULY

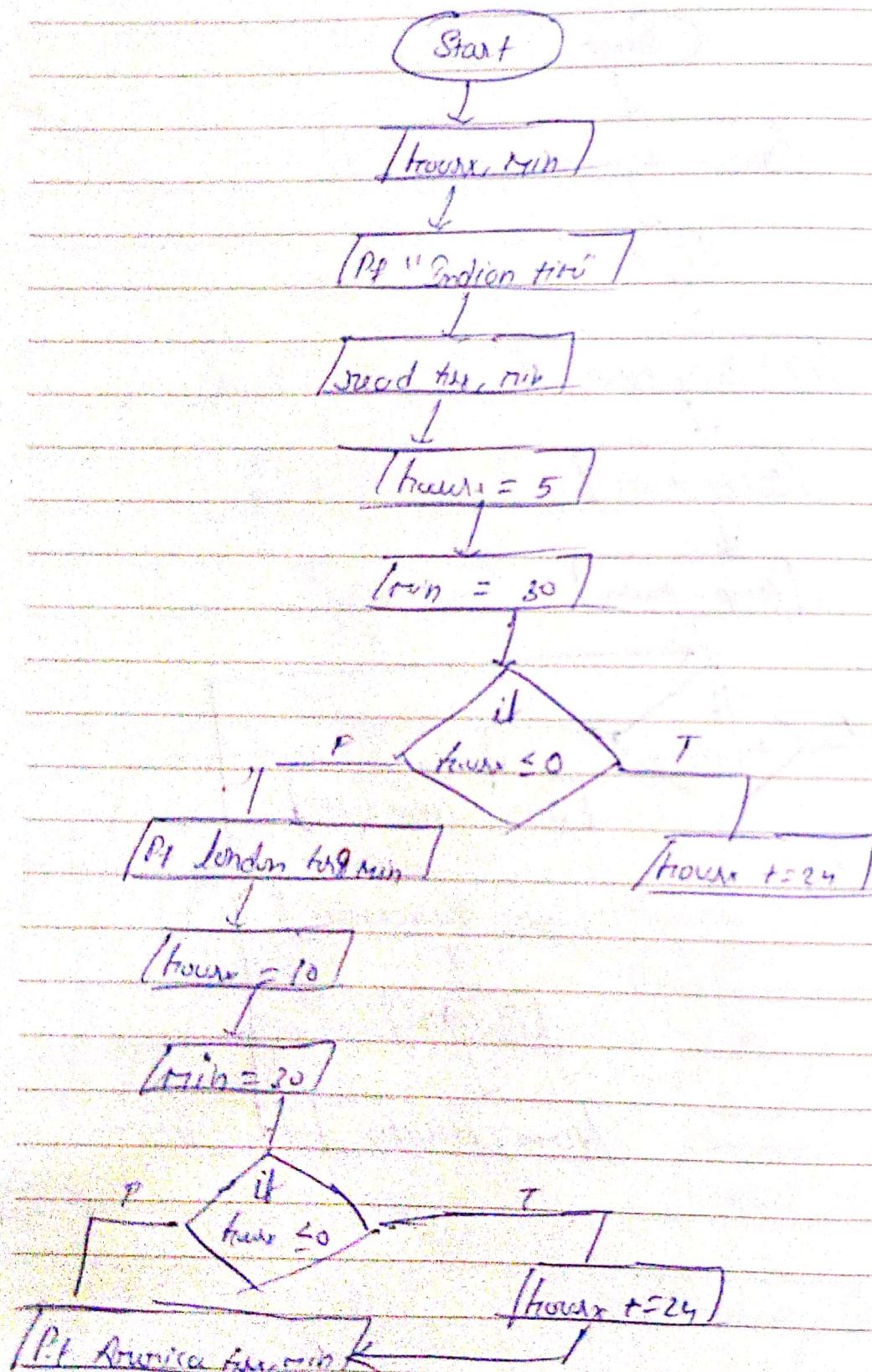
2022

36) Binary to fixed-decimal conversion

20 WEDNESDAY

JULY
2022

38) Indian tire to London & America



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

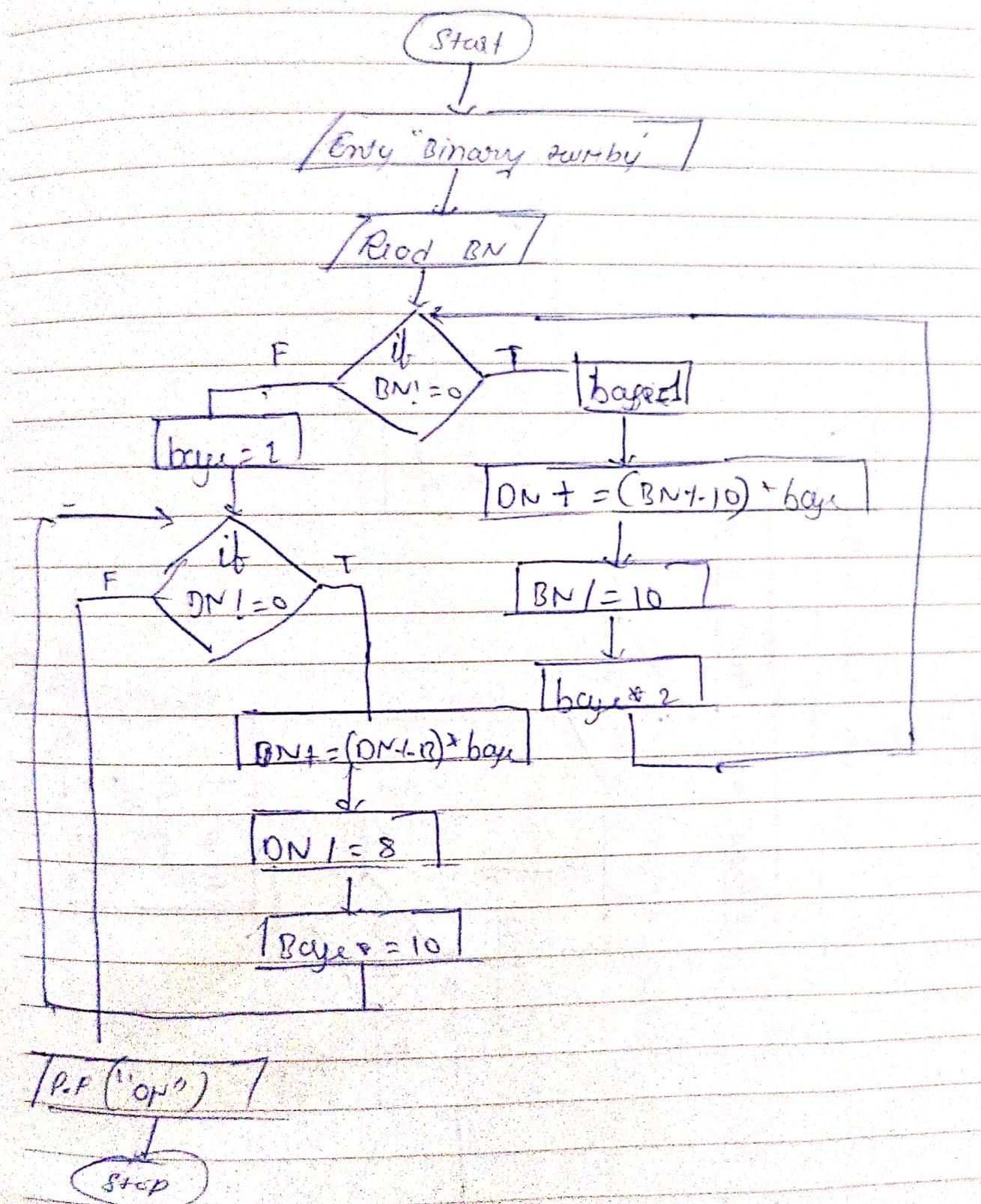
21

THURSDAY

JULY

2022

37) Binary to octal conversion



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

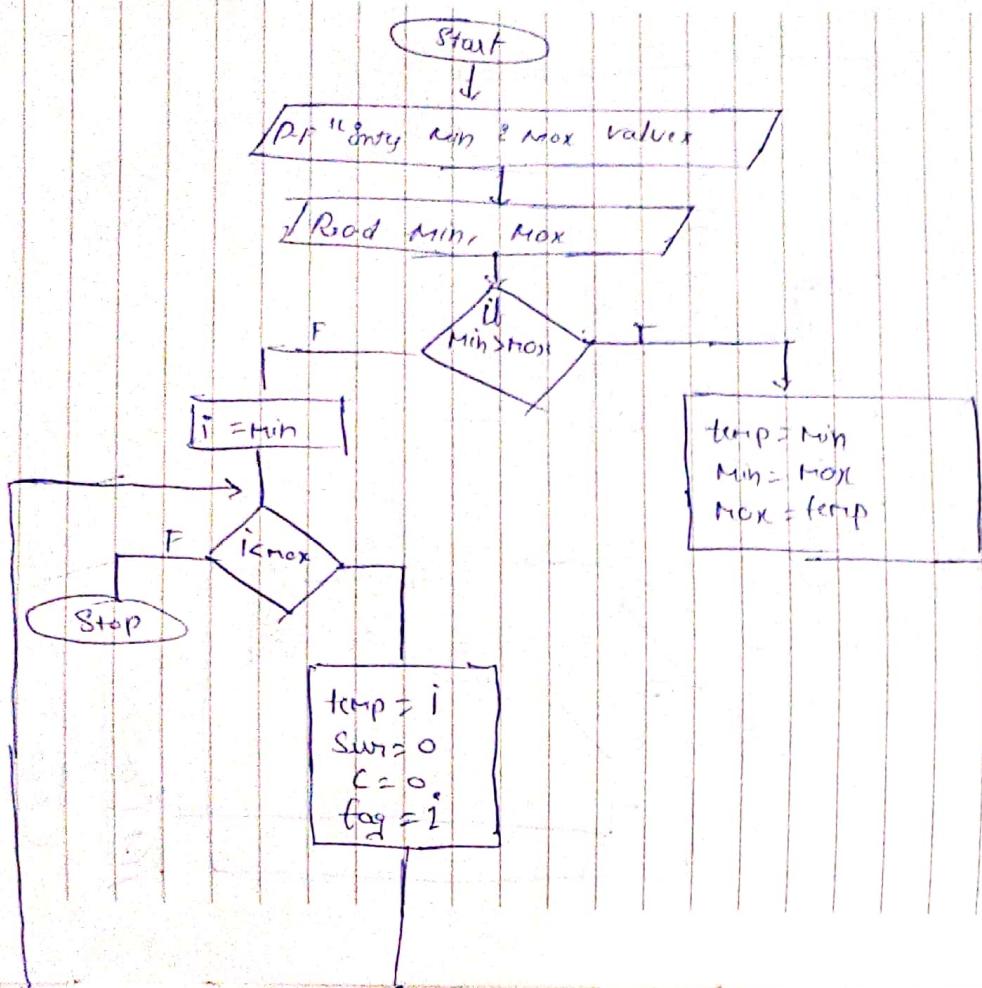
22 FRIDAY

2022
JULY

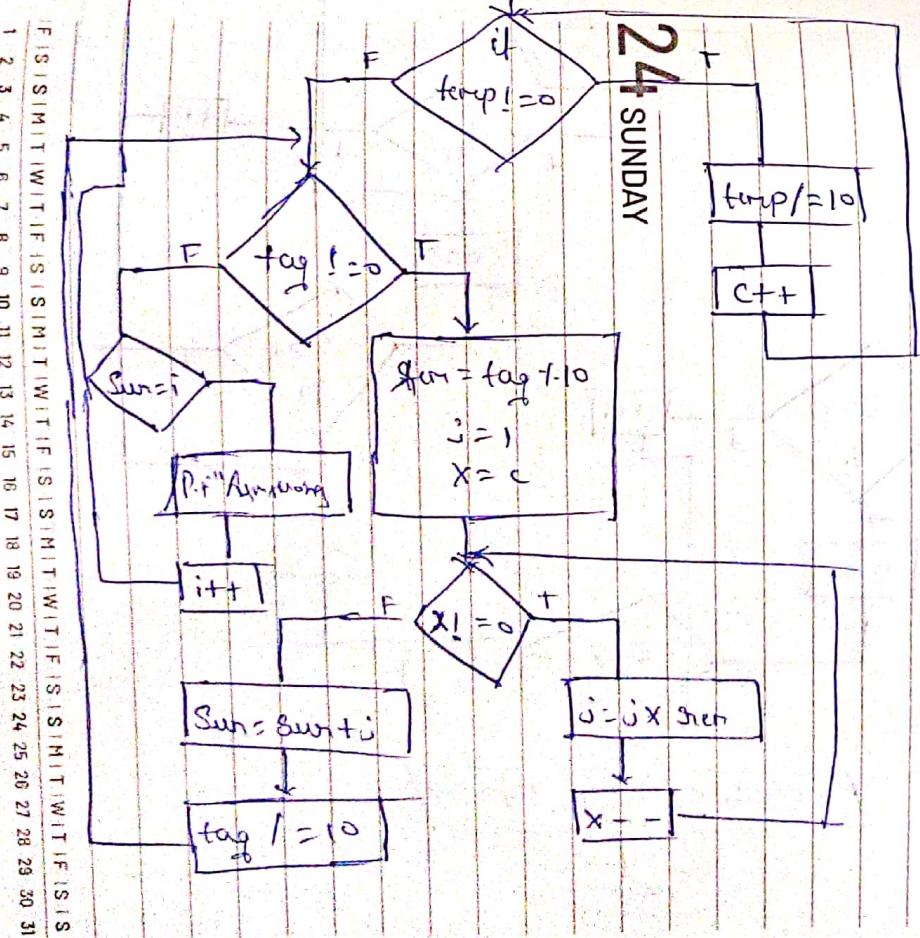
23 SATURDAY

2022
JULY

39) Rotating numbers between two intervals

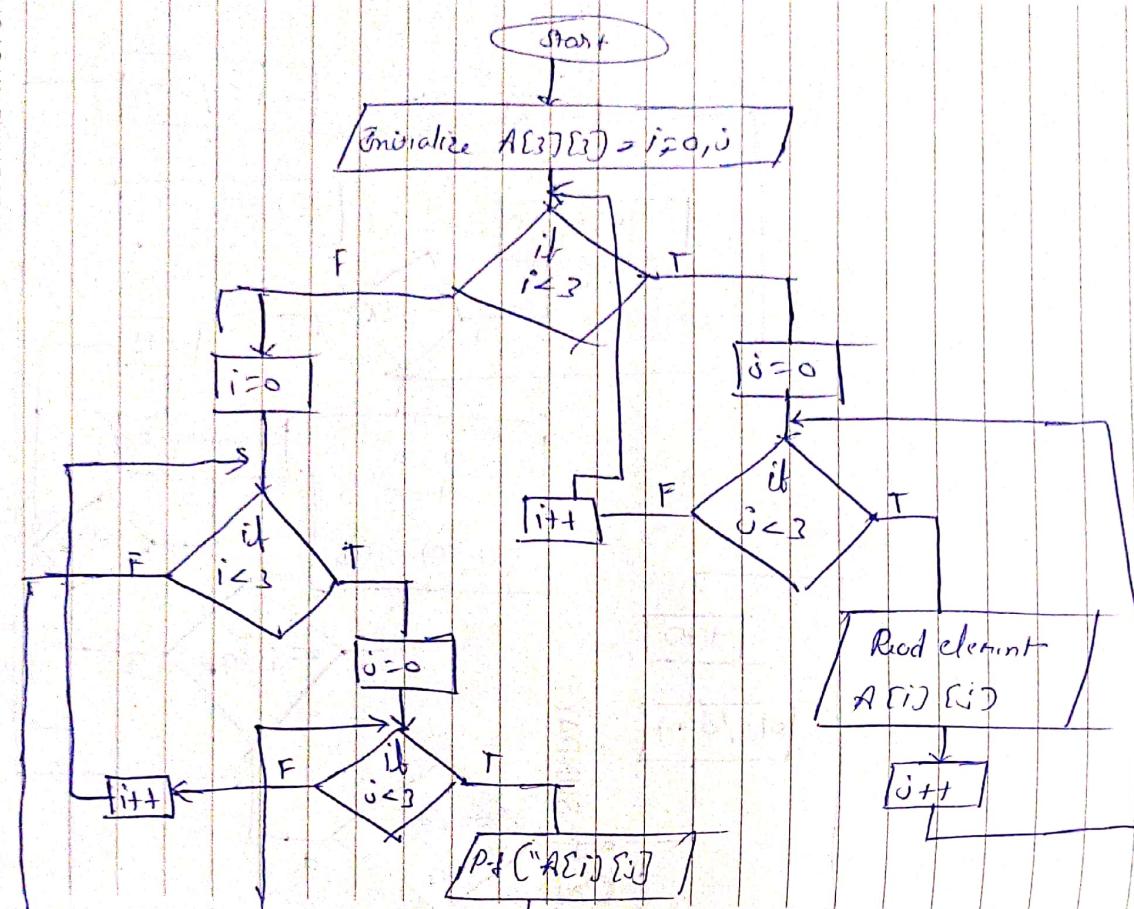


24 SUNDAY



40) Take matrix elements from the text & display the matrix

25 MONDAY



2022
JULY

26 TUESDAY

2022
JULY

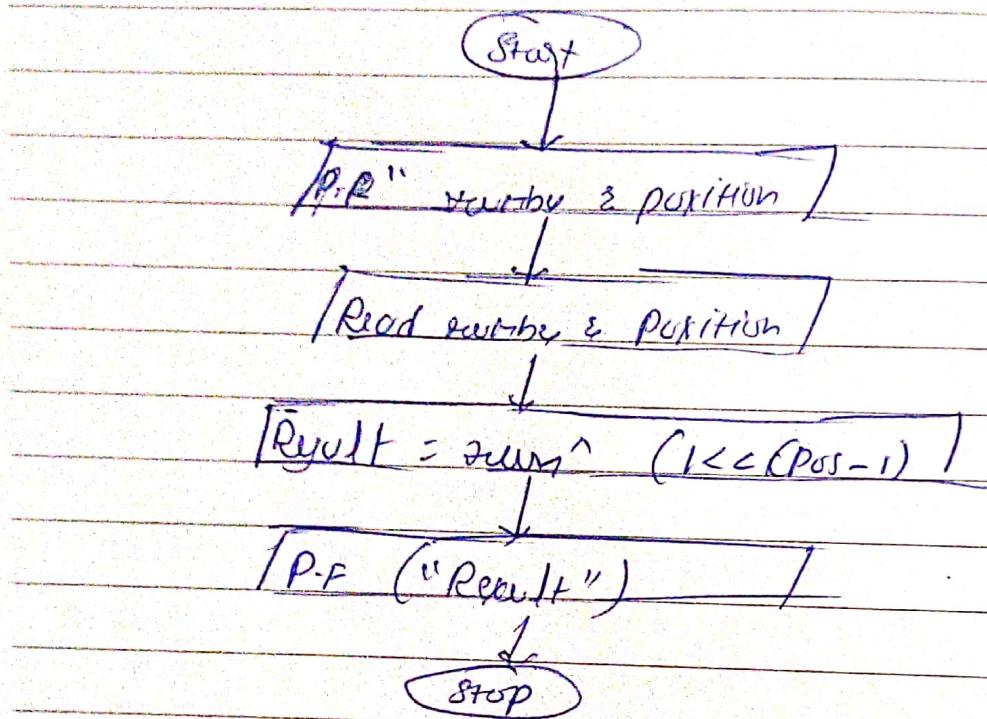
27

WEDNESDAY

JULY

2022

4) Write a program to read a character & toggle the bit band
on user input.



29
FRIDAY

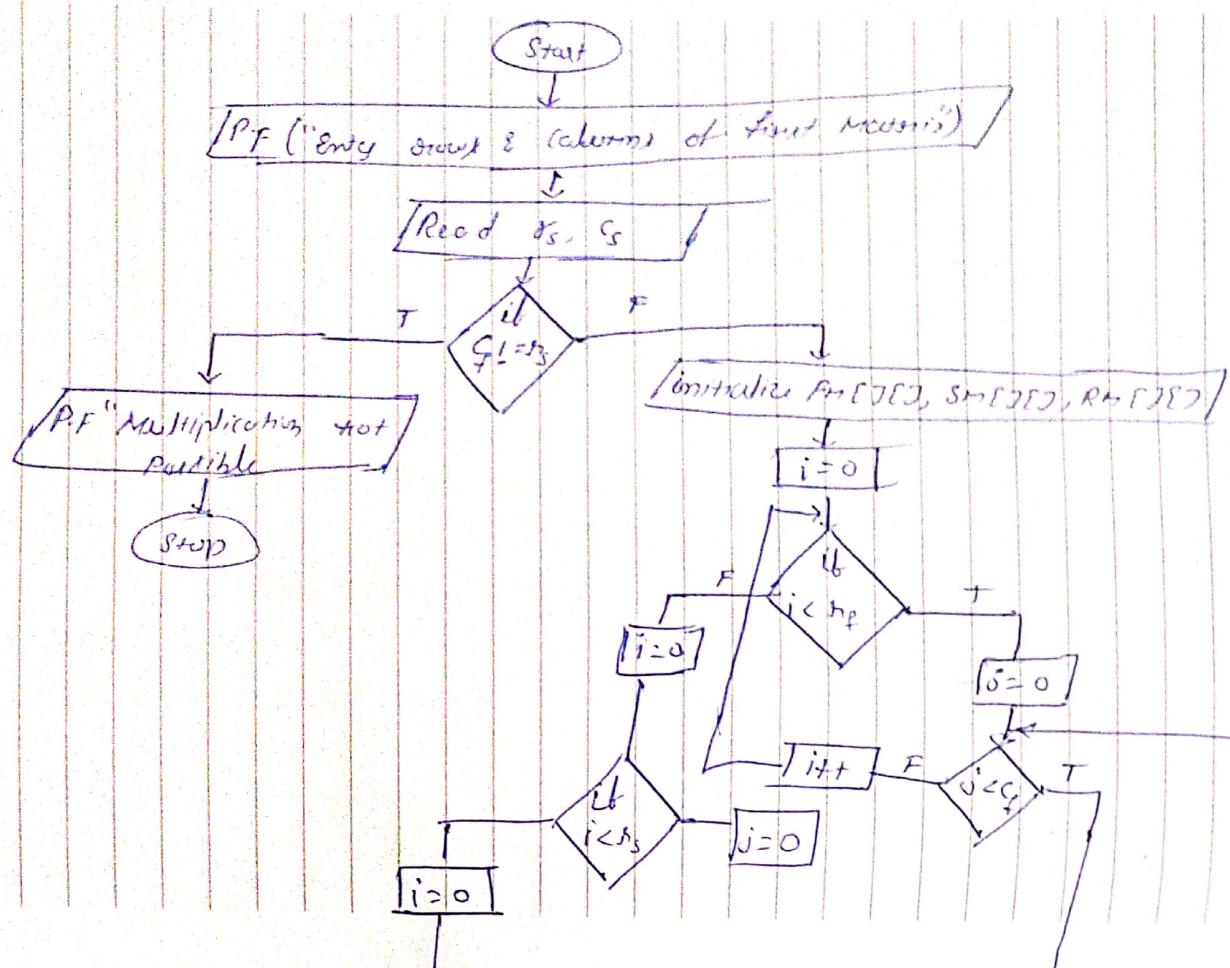
2022
JULY

30 SATURDAY

2022
JULY

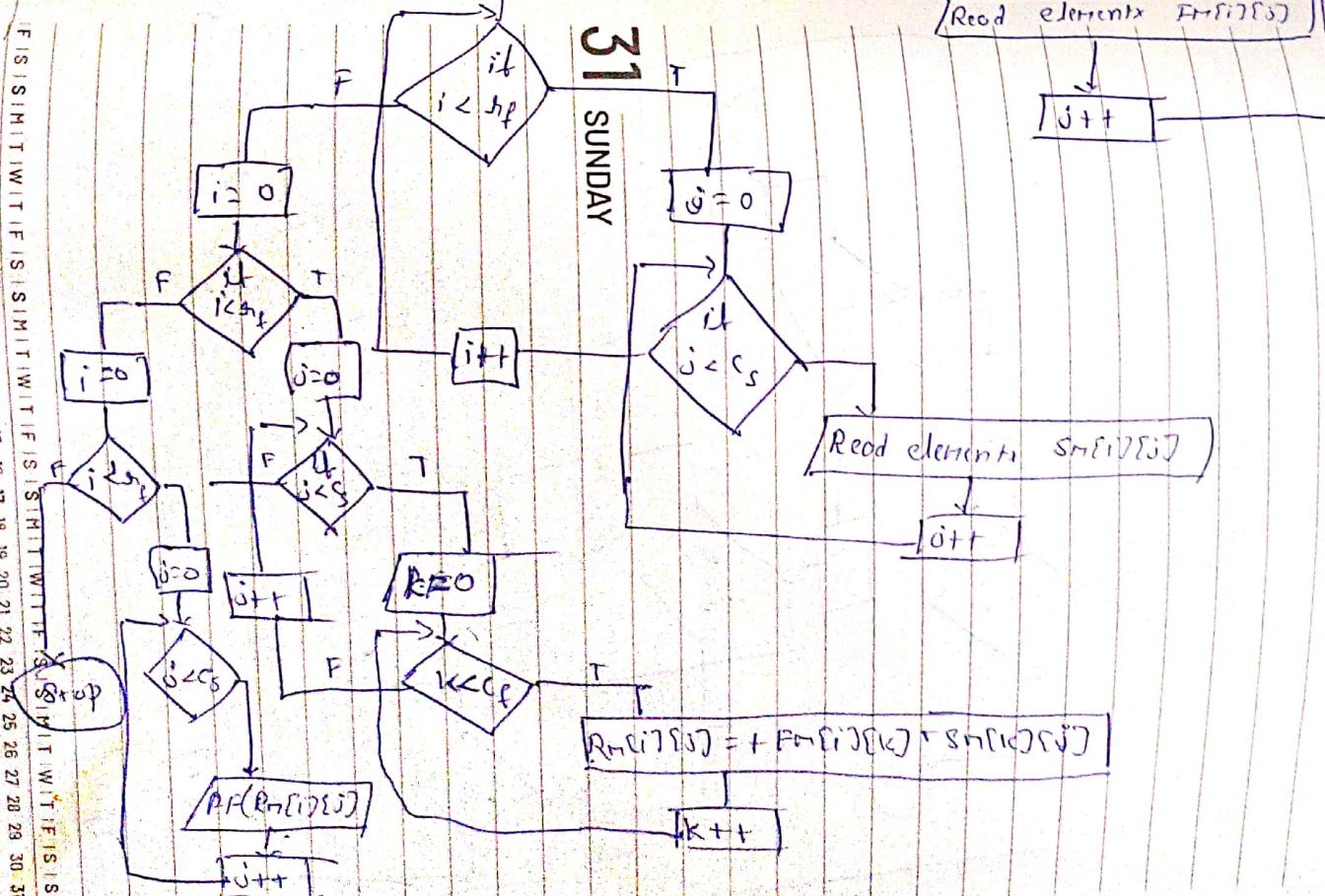
Matrix Multiplication

42)



31

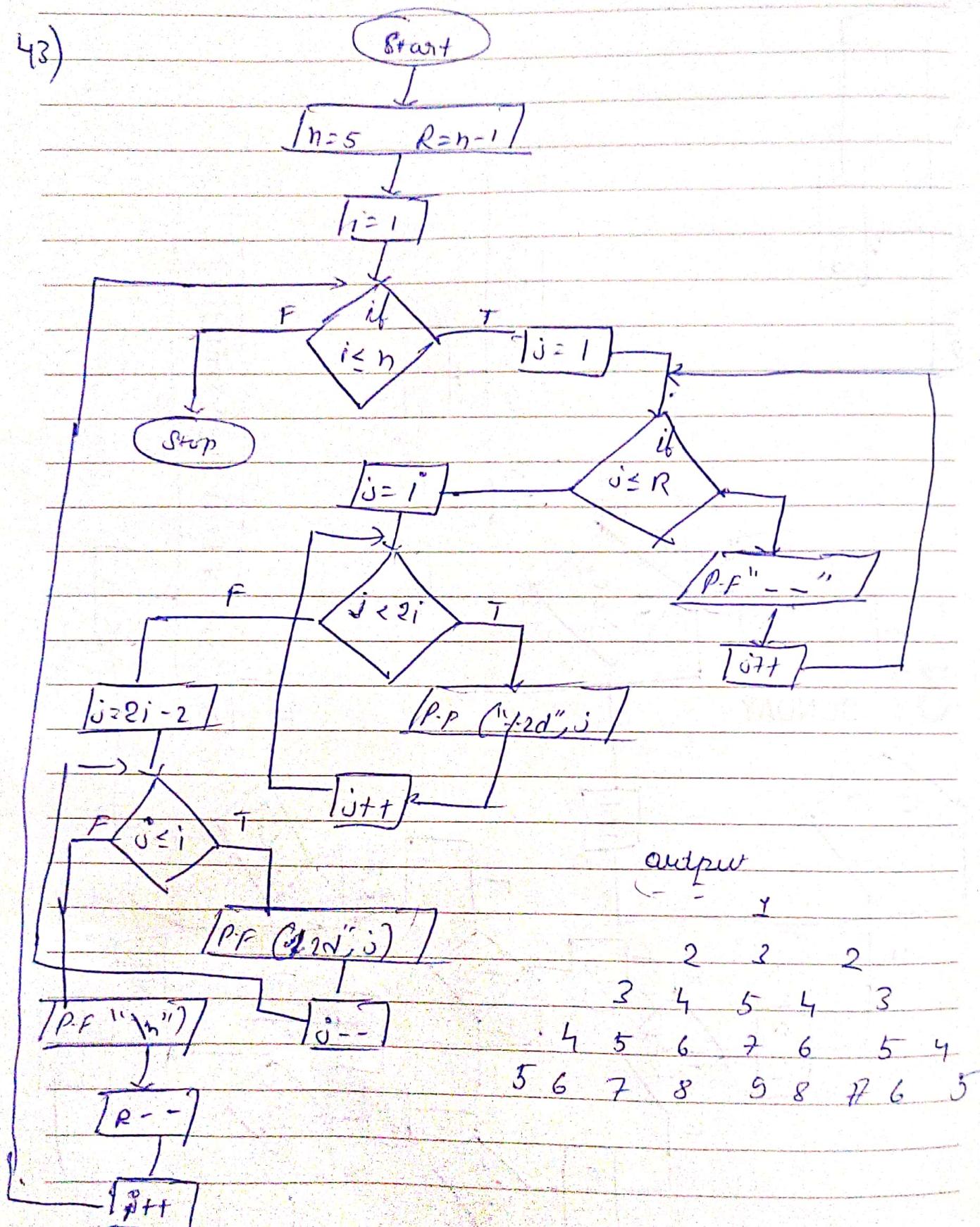
SUNDAY



01 MONDAY

AUGUST
2022

43)



output

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

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

04 THURSDAY

AUGUST
2022

$$44) \frac{1!}{1} + \frac{2!}{2} + \frac{3!}{3} + \dots + \frac{n!}{n}$$

Start

↓

P.F "entry number"

↓

Read n

↓

double sum = 0.0

↓

fact = 1

↓

i = 1

↓

if
i ≤ n

↓

j = 1

↓

if
j ≤ i

fact = j

j = j + 1

↓

fact = 1

↓

i = i + 1

↓

stop

P.F "Sum + 2/n" sum

sum = fact / i

↓

j = j + 1

↓

fact = 1

↓

i = i + 1

↓

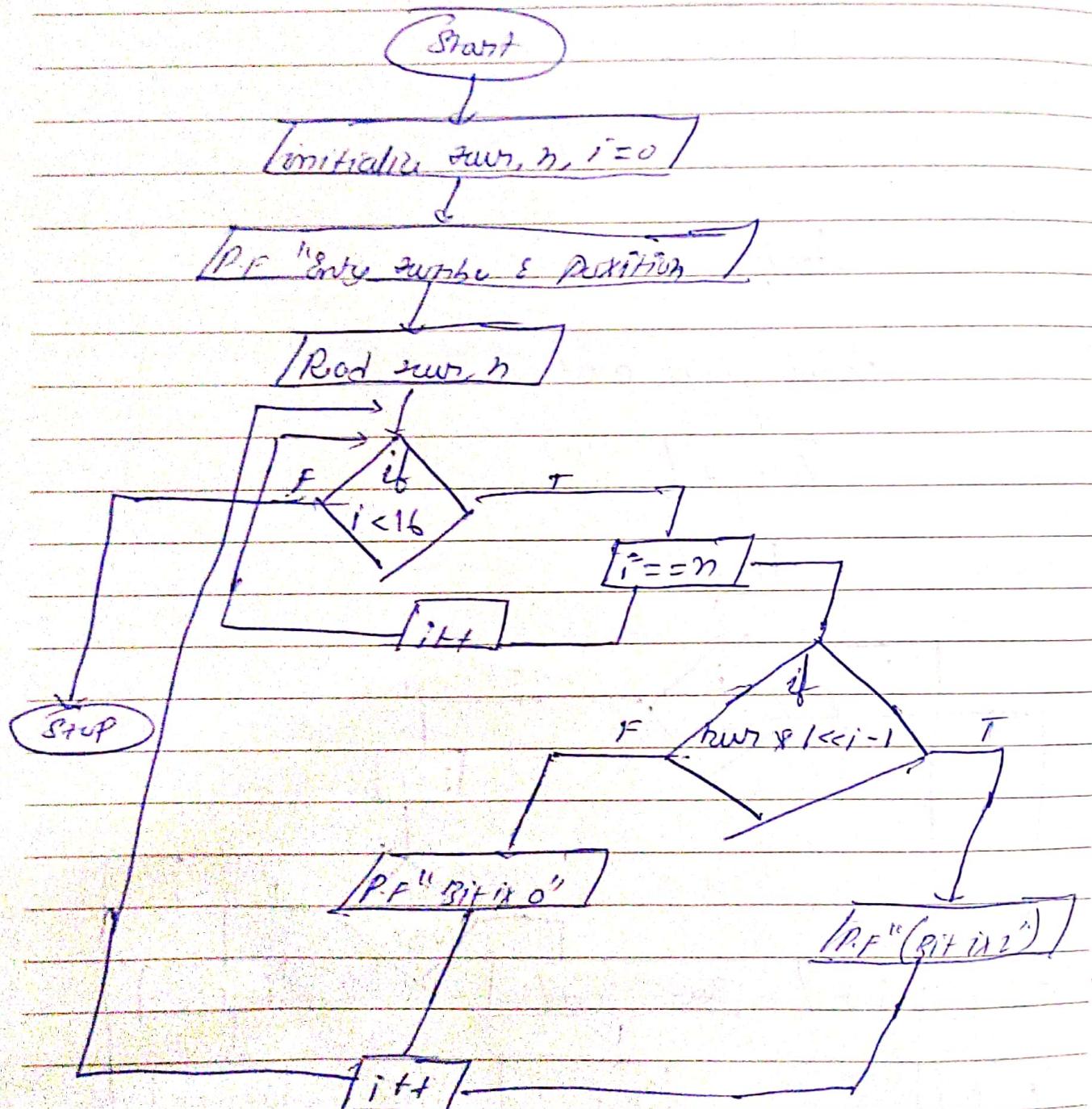
stop

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

05 FRIDAY

AUGUST
2022

45) Take number from user & display the n^{th} bit



INIT WIT IF IS IS INIT WIT
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

10 WEDNESDAY

2022 AUGUST

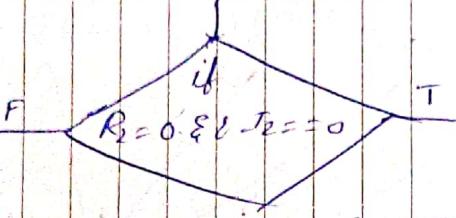
47) Take a 2 coreductor sumbutor sum up & divide & print the result

Part 8 Imaginary part

Start

Initialization R_1, R_2, J_1, J_2, R, S

End R_1, R_2, J_1, J_2, R, S



$$dN = R_2 \times R_2 + J_2 \times J_2$$

$$R = \frac{R_1 \times R_2 + J_1 \times J_2}{dN}$$

P.F ("Division by zero" & undefined)

Stop

$$I = \frac{J_1 \times R_2 - R_L \times J_2}{dN}$$

P.P "Rt & I"

Stop

11 THURSDAY

2022 AUGUST

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31