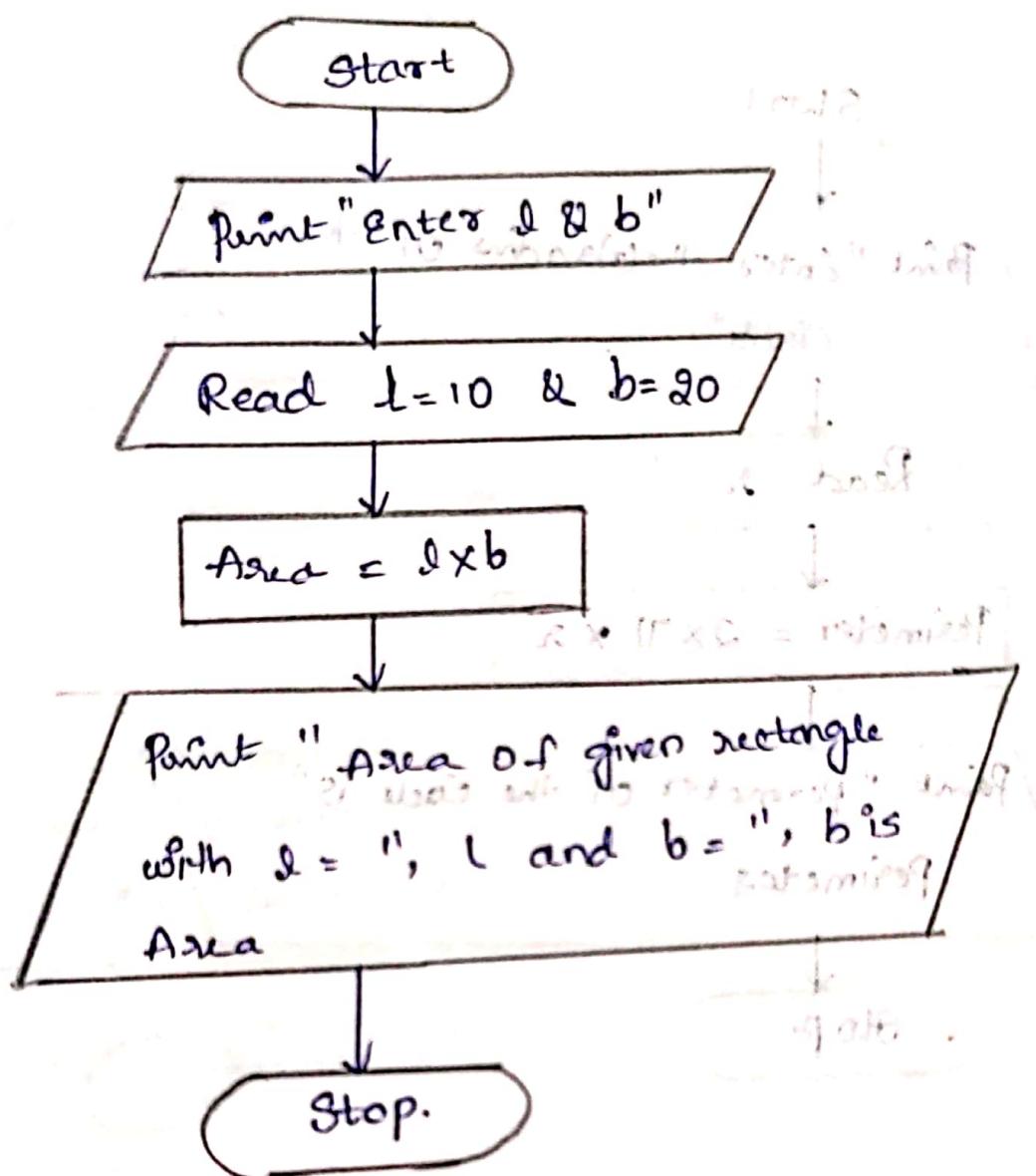
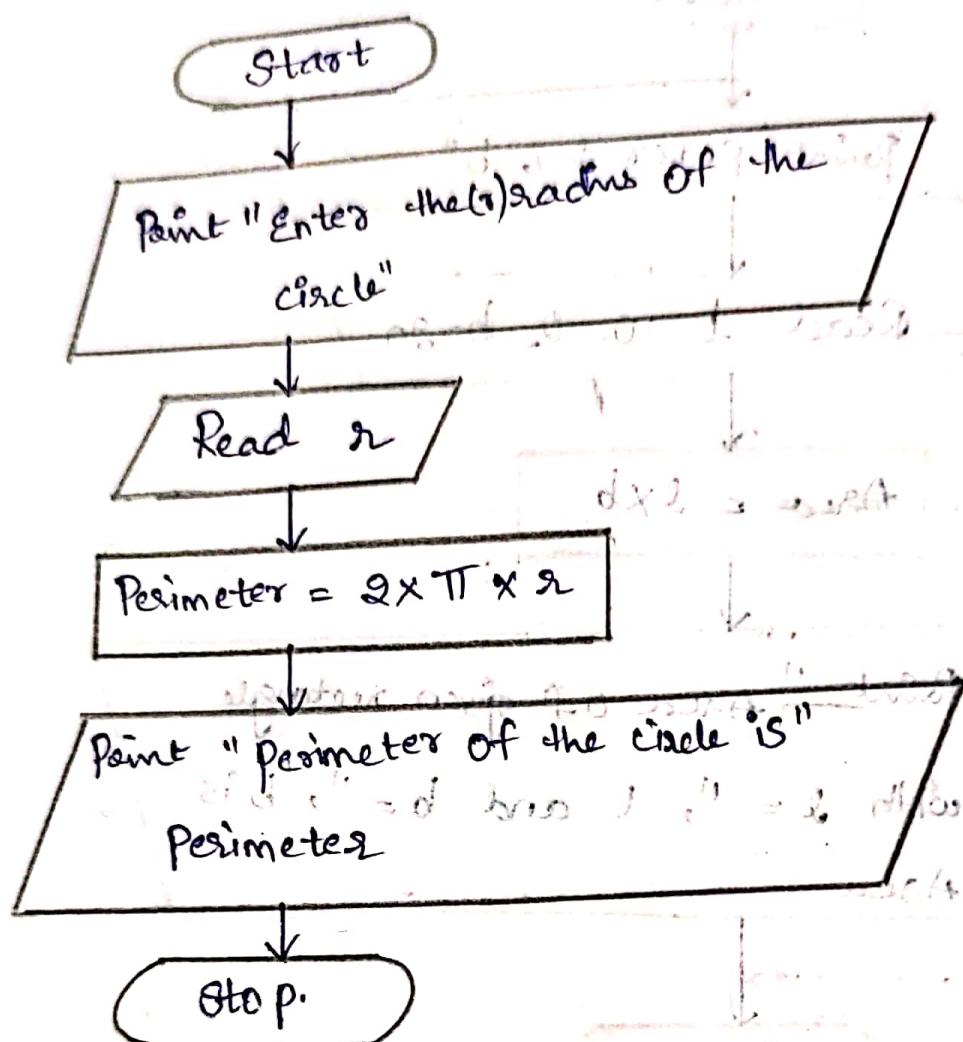


27/12/25

Q. Write the flowchart to print Area of rectangle.

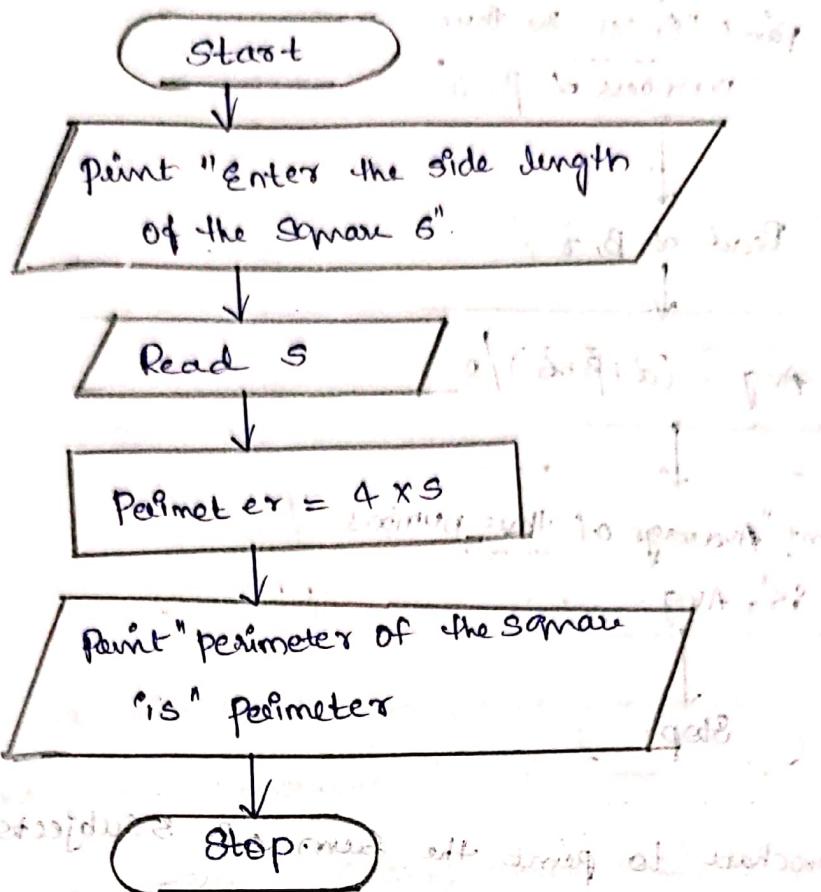


- ② Draw a flowchart to print perimeter of a circle.  
Sol Perimeter of a circle is  $2\pi r$  [ $\pi = 3.14$ ].



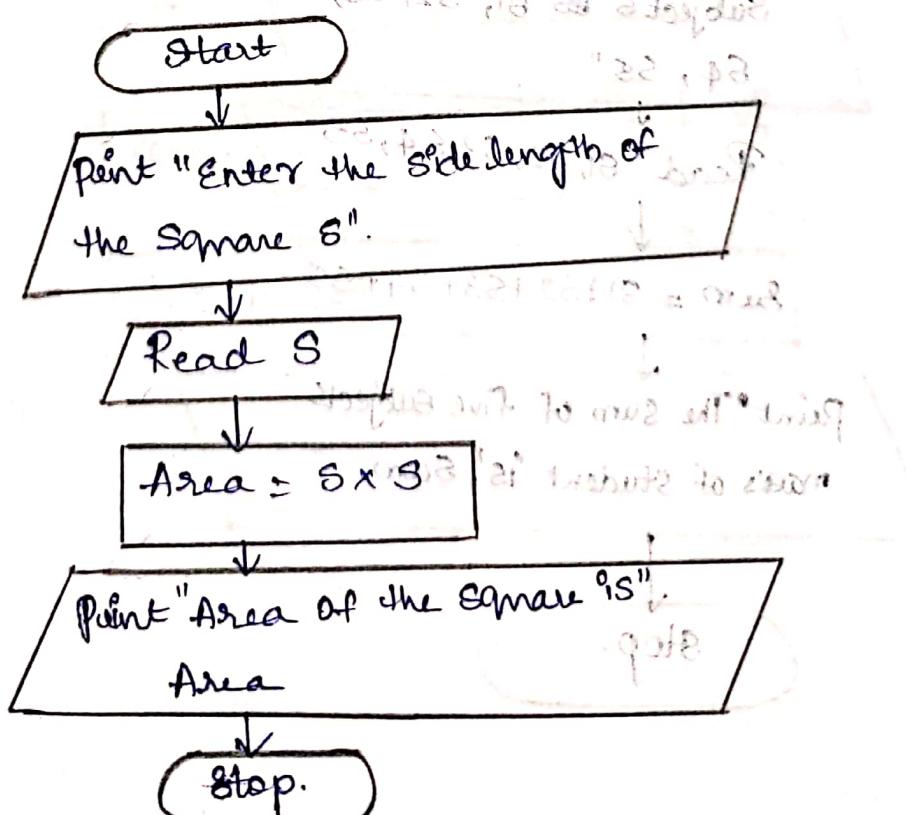
Draw a flowchart to print perimeter of a square.

perimeter of a square is  $4s$ .

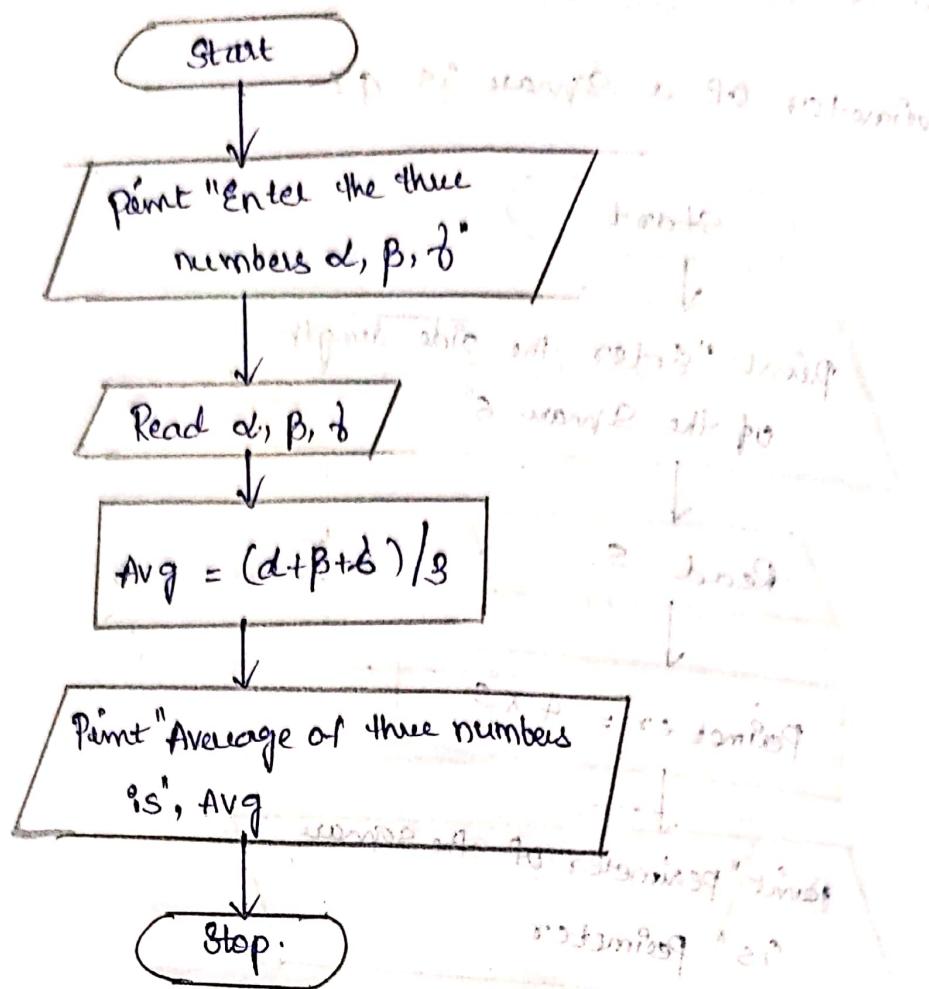


④ Draw a flowchart to print Area of Square.

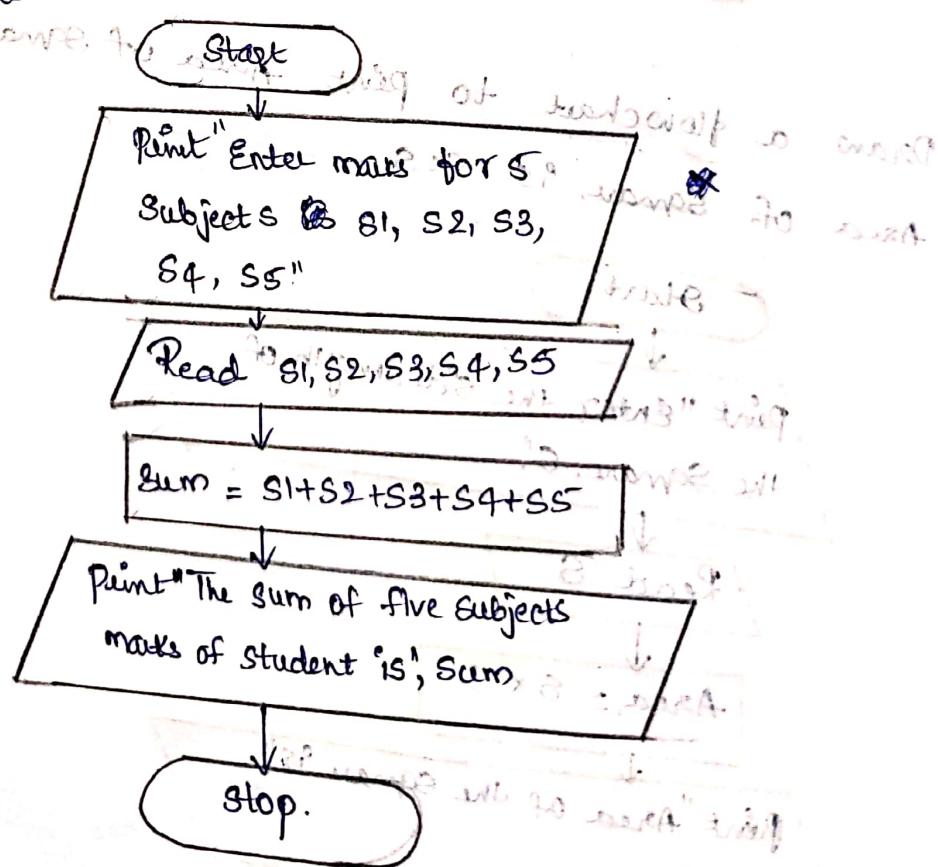
Area of Square is  $s \times s$ .



- ⑤ Draw a flowchart to print the average of 3 numbers

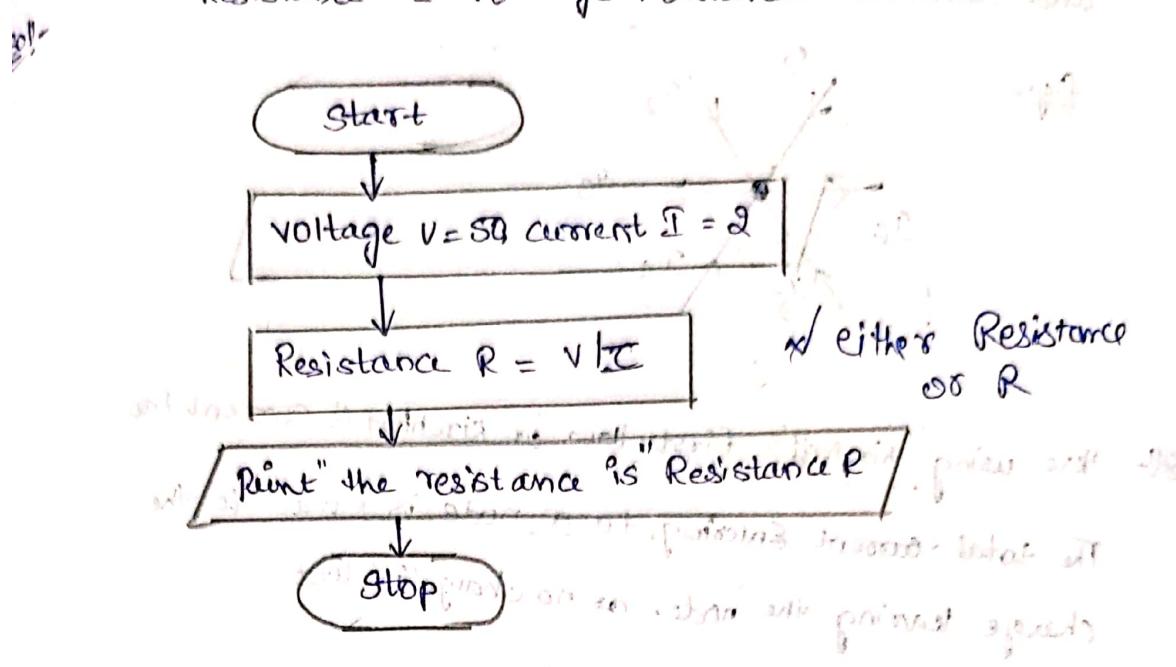


- ⑥ Draw a flowchart to print the sum of 5 subjects of student.



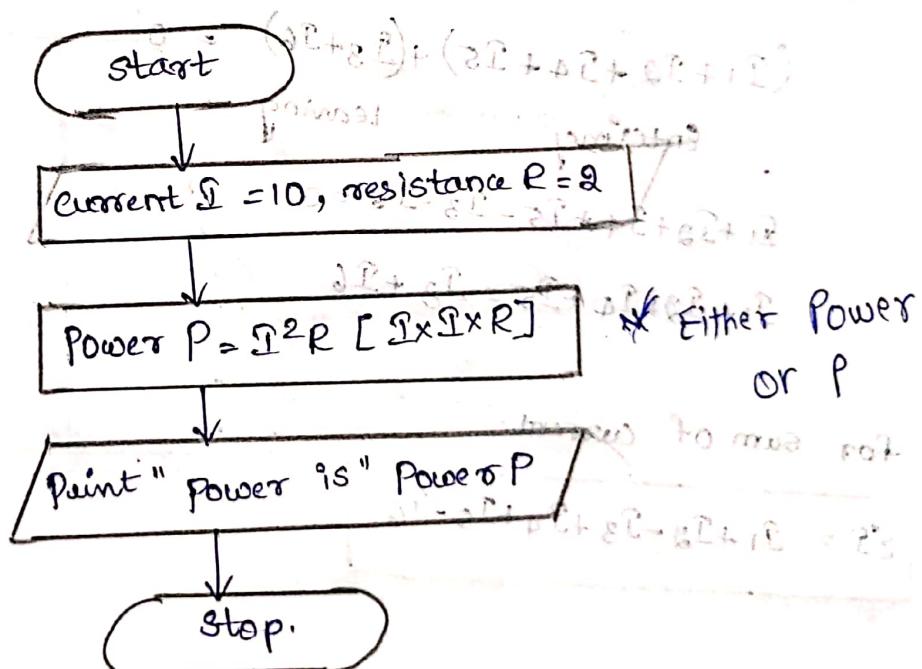
Draw a flowchart to print the value of resistance when voltage and current are provided.

$$\text{Resistance} = \frac{\text{Voltage}}{\text{Current}}$$



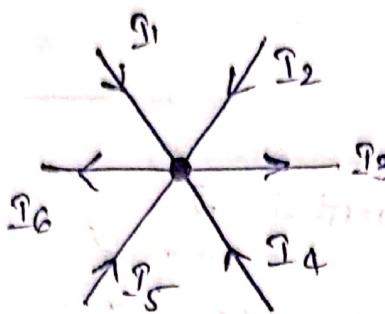
Draw a flowchart to print the power when the current and resistance is provided.

$$\text{Power} = I^2 R \quad (\text{using Ohm's Law}) \text{ or } P = V^2/R$$



⑨ Draw a flowchart to take value of  $i_1, i_2, i_3, i_4, i_5$ , current values flowing from the points and to the point and calculate the sum of current.

fig:-



Writing eqns in  $i_1 + i_2 + i_3 + i_4 + i_5 + i_6 = ?$

Q:- Here using Kirchhoff's first law or Kirchhoff's Current Law.

The total current entering to a node is equal to the charge leaving the node. as no charge is lost.

$$I(\text{entering}) + I(\text{leaving}) = 0.$$

$$\therefore \boxed{\sum I = 0}$$

Here from above fig  $\sum I$  is

$$(i_1 + i_2 + i_4 + i_5) + (i_3 + i_6) = 0$$

Entering                    leaving

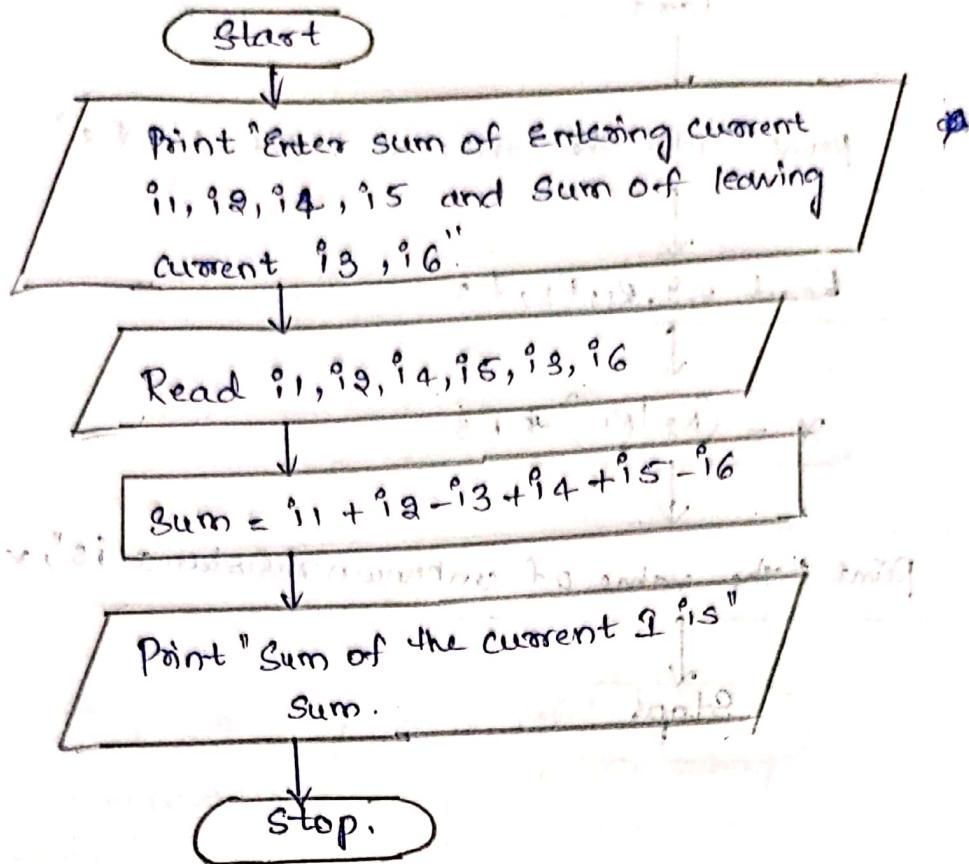
$$i_1 + i_2 + i_4 + i_5 - i_3 - i_6 = 0$$

$$i_1 + i_2 + i_4 + i_5 = i_3 + i_6$$

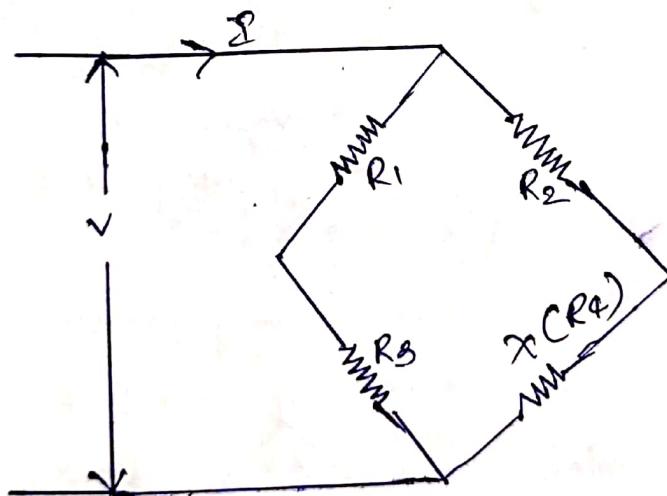
for sum of current.

$$\boxed{\sum I = i_1 + i_2 + i_3 + i_4 + i_5 + i_6}$$

flowchart



- 10) Draw a flowchart to get the values of  $V$ ,  $i$ ,  $R_1$ ,  $R_2$ ,  $R_3$  and calculate the value of  $X$ .

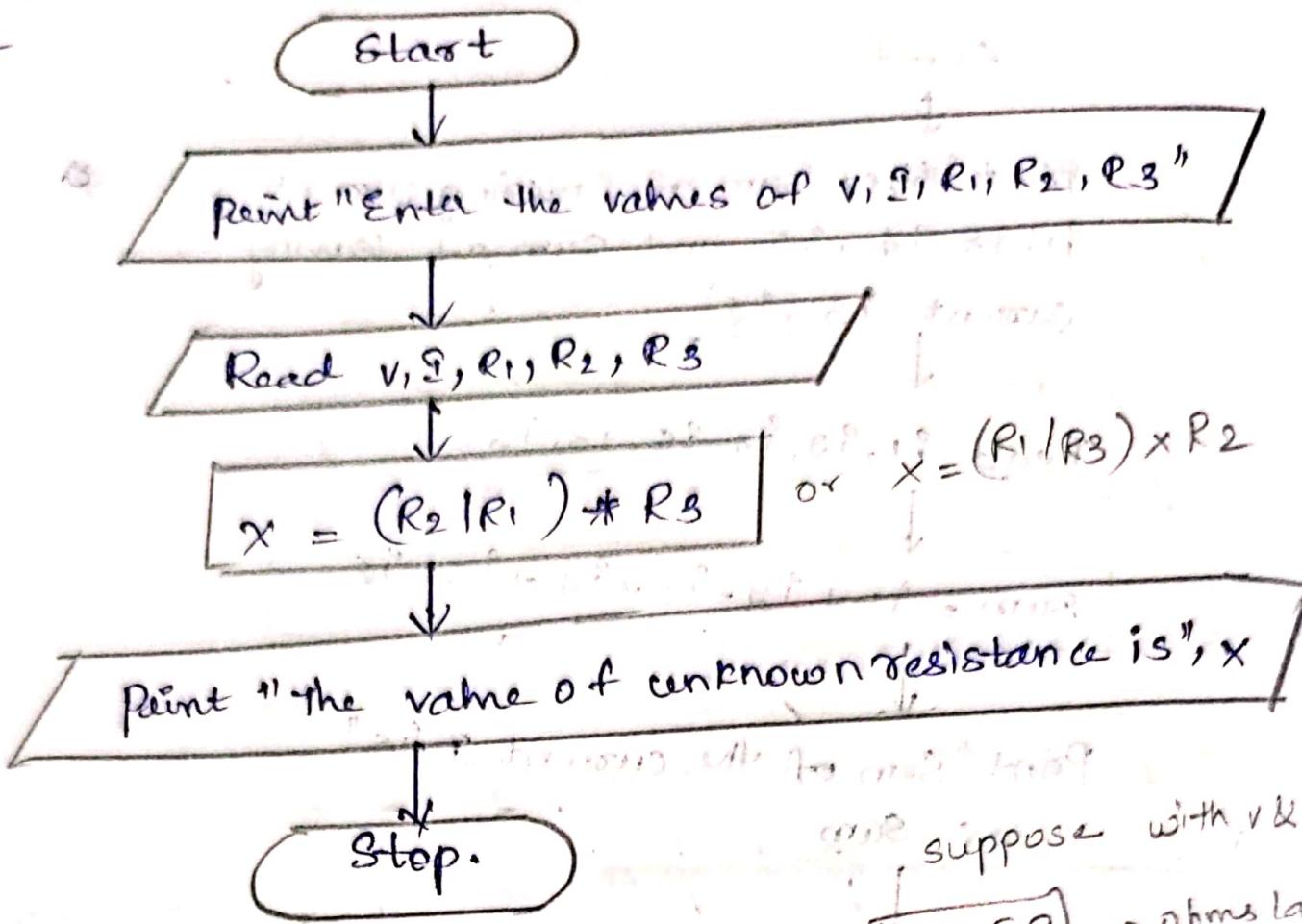


$$\frac{R_1}{R_3} = \frac{R_2}{R_4(X)} \quad \text{for balanced bridge.}$$

$$\frac{R_2}{R_X} = \frac{R_1}{R_3}$$

$$R_X = \frac{R_1 \times R_2}{R_3}$$

Sol:-



$$x = (R_2/R_1) \times R_3 \quad \text{or} \quad x = (R_1/R_3) \times R_2$$

Suppose with V & I

$$V = IR \rightarrow \text{Ohms law}$$

Apply at each resistor

$$R_1 : V_1 = I \cdot R_1$$

$$R_2 : V_2 = I \cdot R_2$$

$$R_3 : V_3 = I \cdot R_3$$

$$R_x : V_x = I \cdot R_x$$

V<sub>out</sub> is zero.

V<sub>drop</sub> at R<sub>1</sub> = R<sub>2</sub>

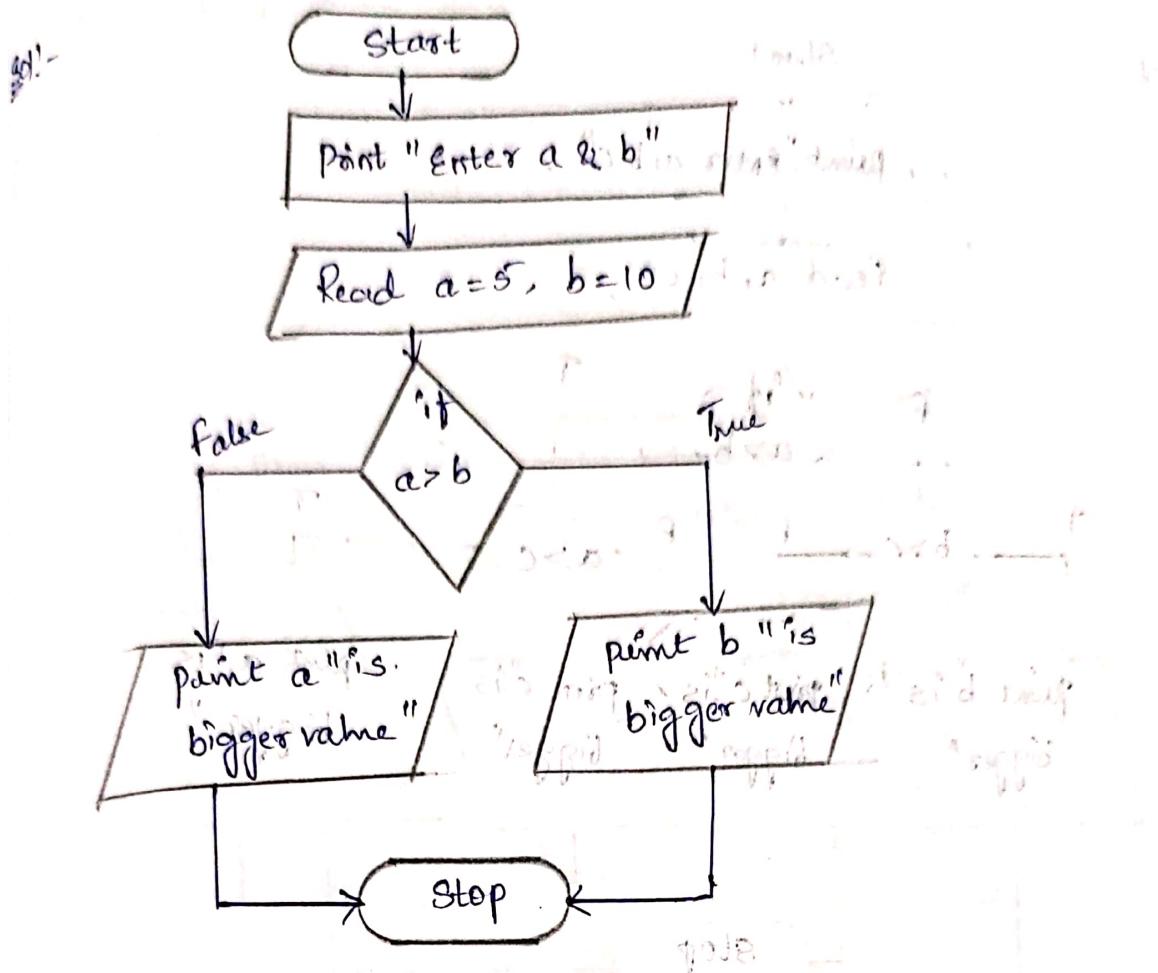
$$V_1 = V_2$$

Apply Ohms law to each

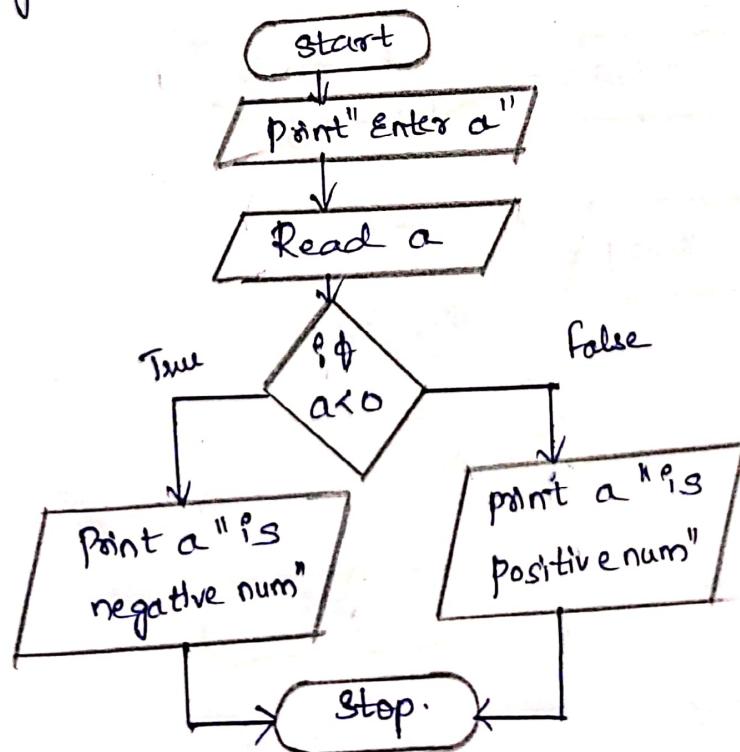
$$I \cdot R_1 = I \cdot R_2$$

$$R_2 = R_3 \times \left[ \frac{R_1}{R_2} \right]$$

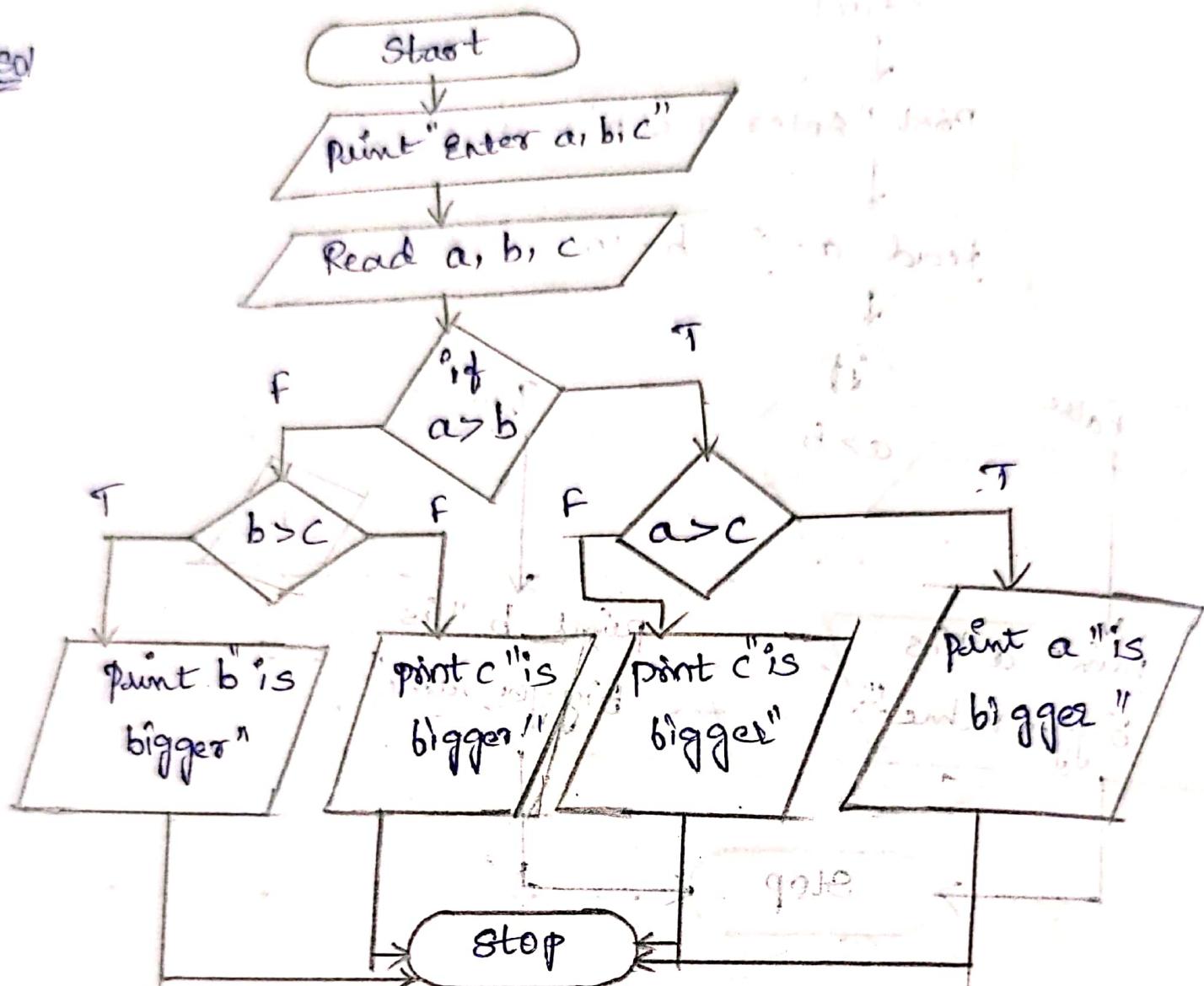
- ⑪ draw a flowchart to read two numbers from the user and print the bigger value.



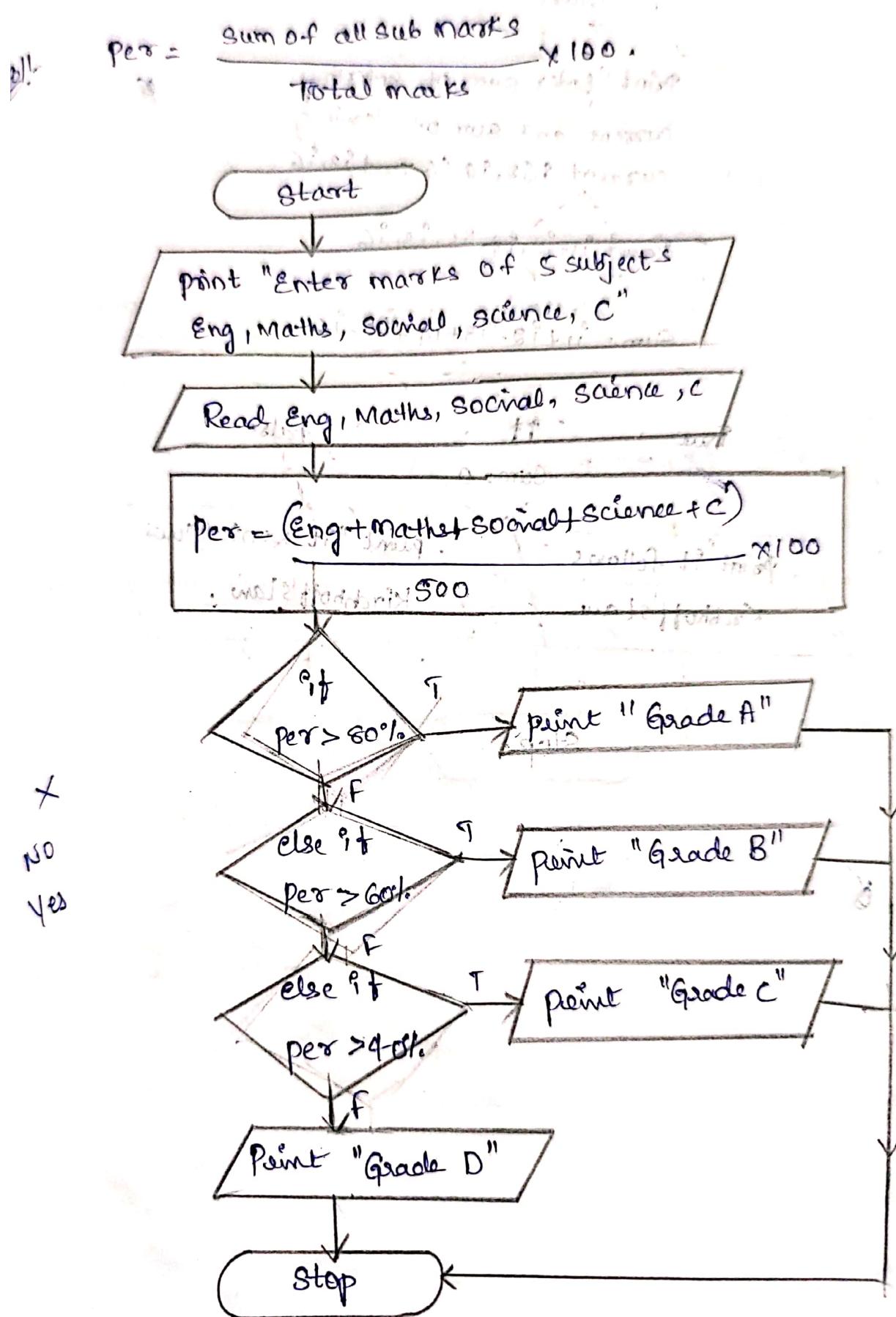
- ⑫ draw a flowchart to print given number is positive or negative number.



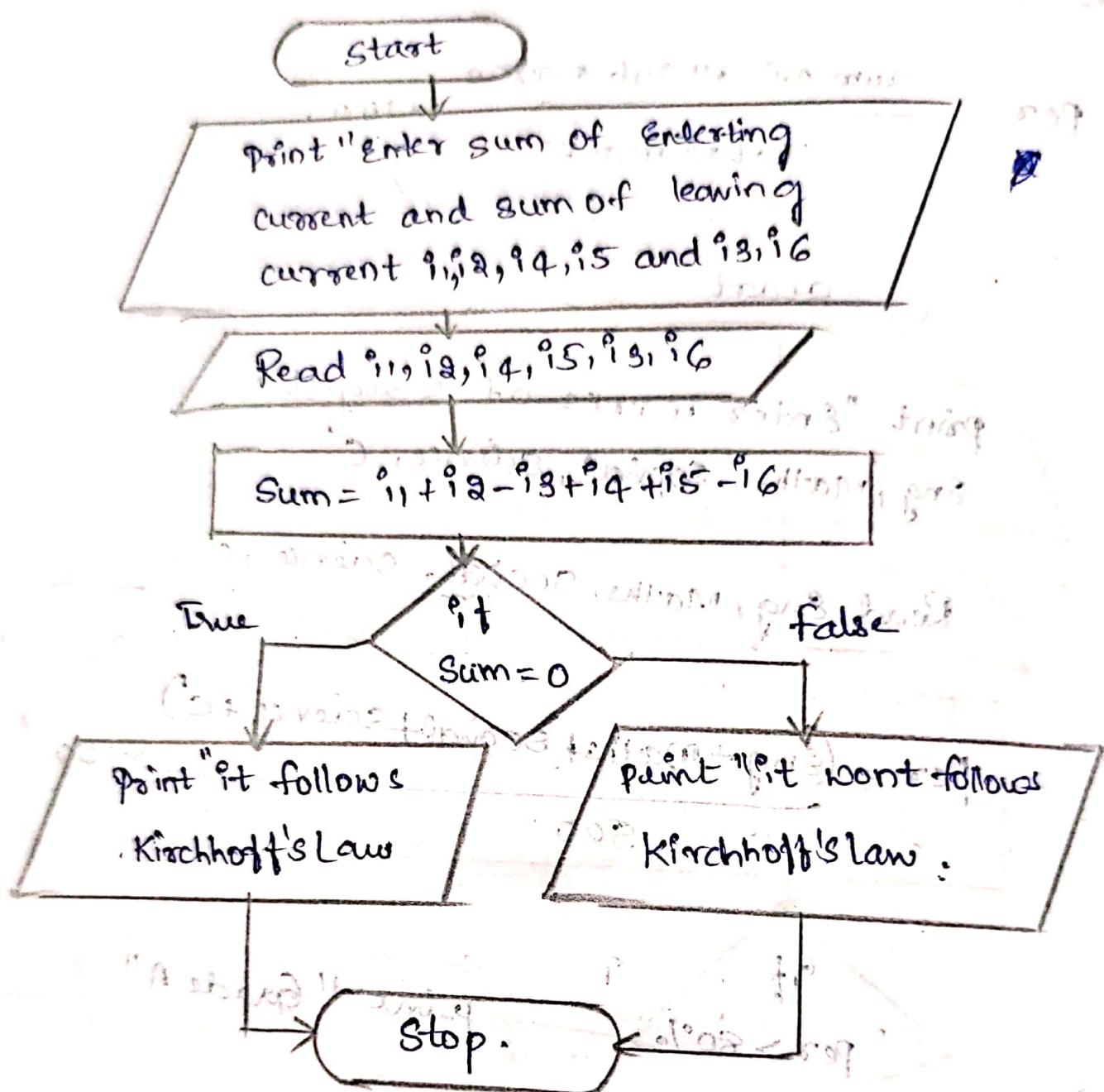
Q13) Draw a flowchart to read 3 no's from the user and print the biggest value.



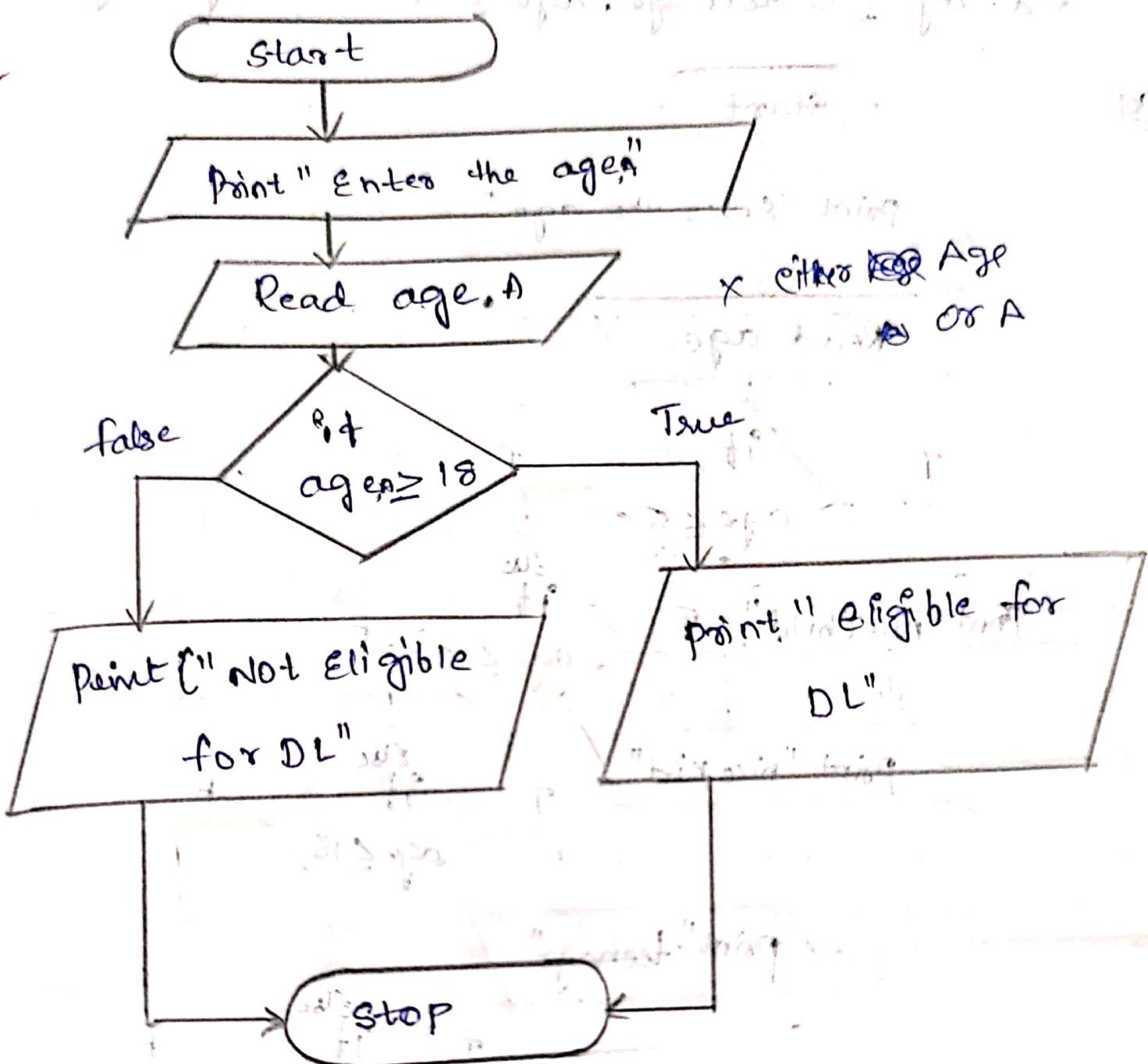
A draw a flowchart to get marks of 5 subjects of a student and point the grade A is above 80%, B is above 60%. C is 40%. D is below 40%.



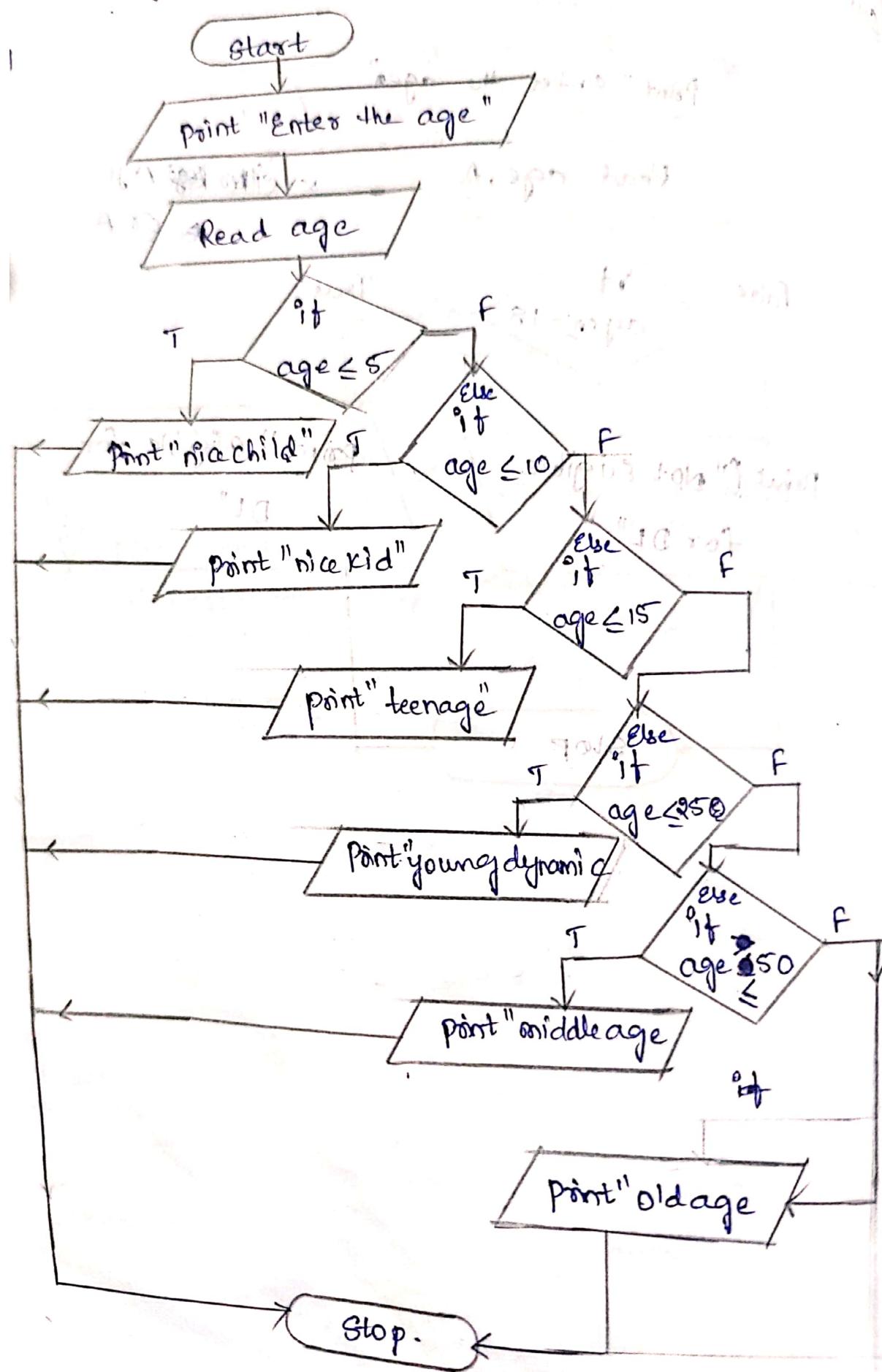
15) Draw a flowchart to check whether the value of flowchart a follows Kirchhoff's law or not.



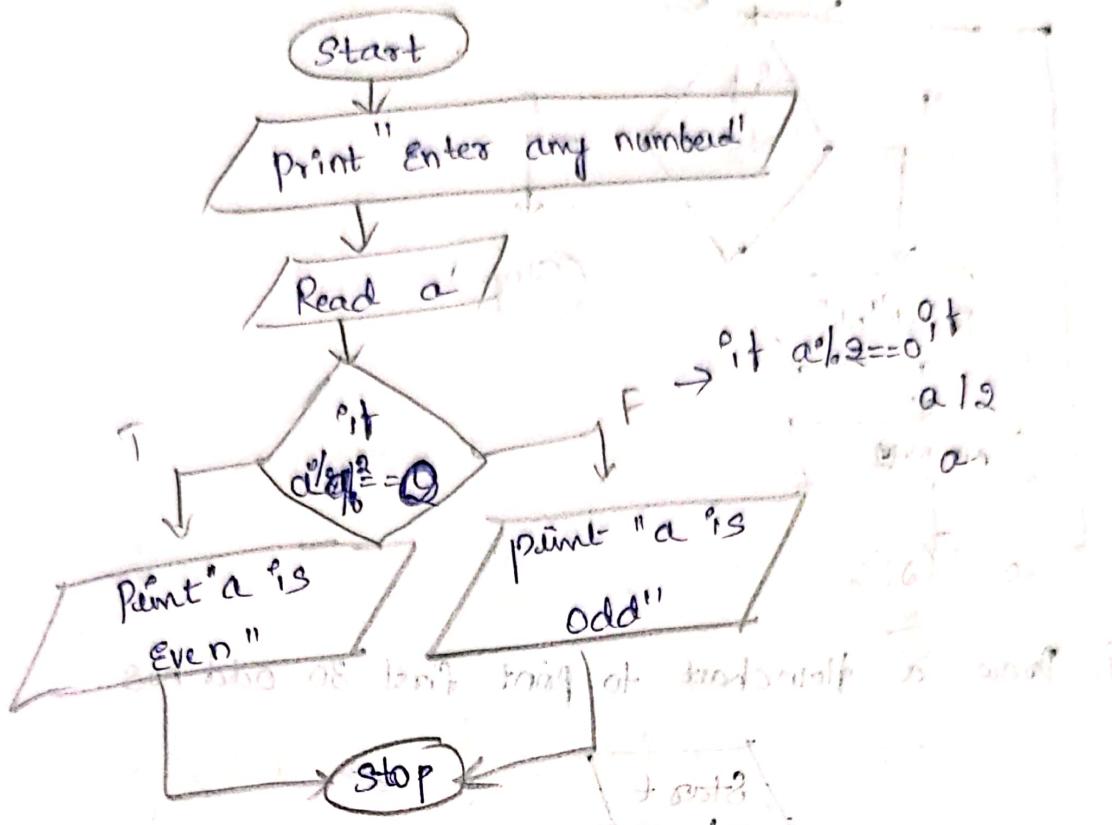
Q16) Draw a flow chart to get age of a person to point whether he is eligible for driving license or not?



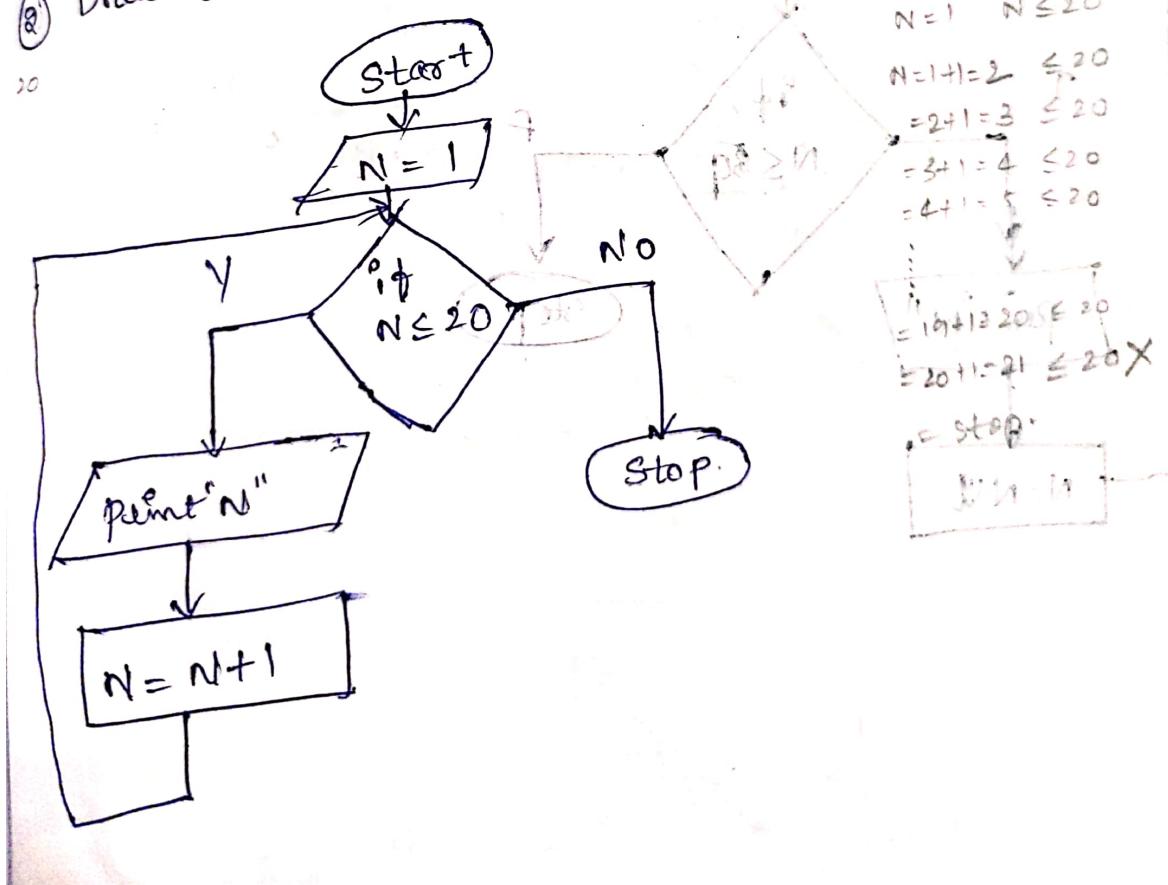
Draw a flowchart to get age of a person to print greeting message. If age  $\leq 5$  nice child, age  $\leq 10$ , nice kid, age  $\leq 15$  teenage, age  $\leq 50$  middle age, age  $> 50$  old.



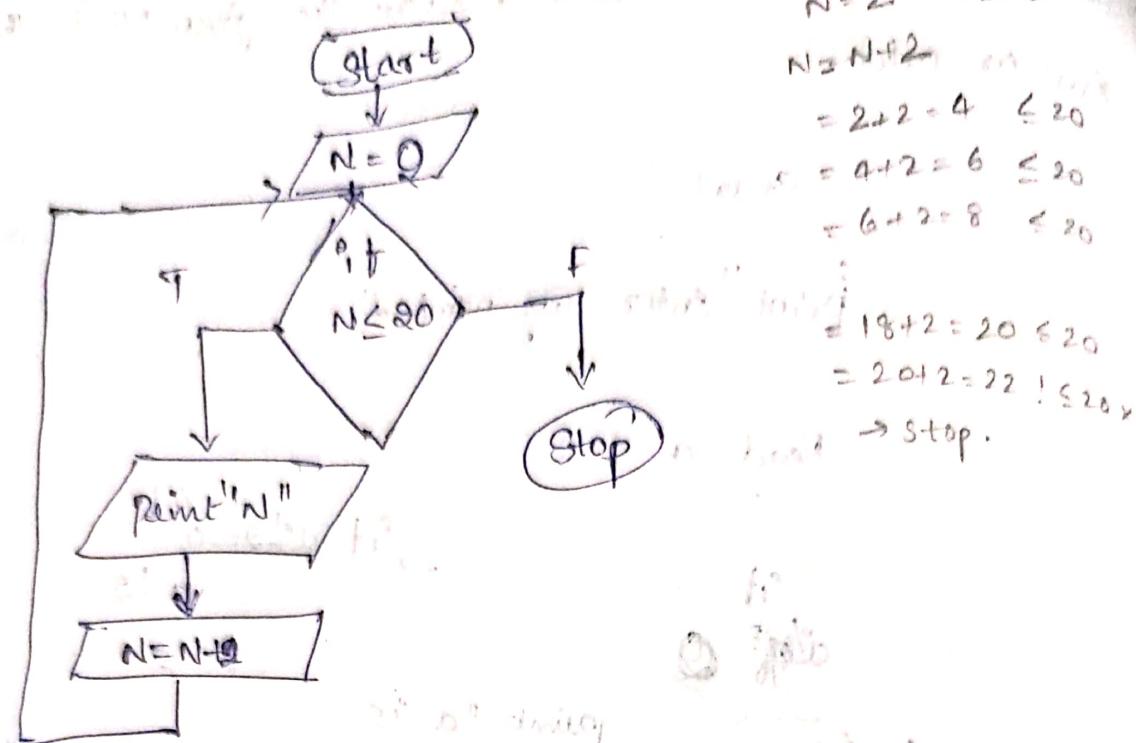
- ① Draw a flowchart to check whether the given no is even or odd.



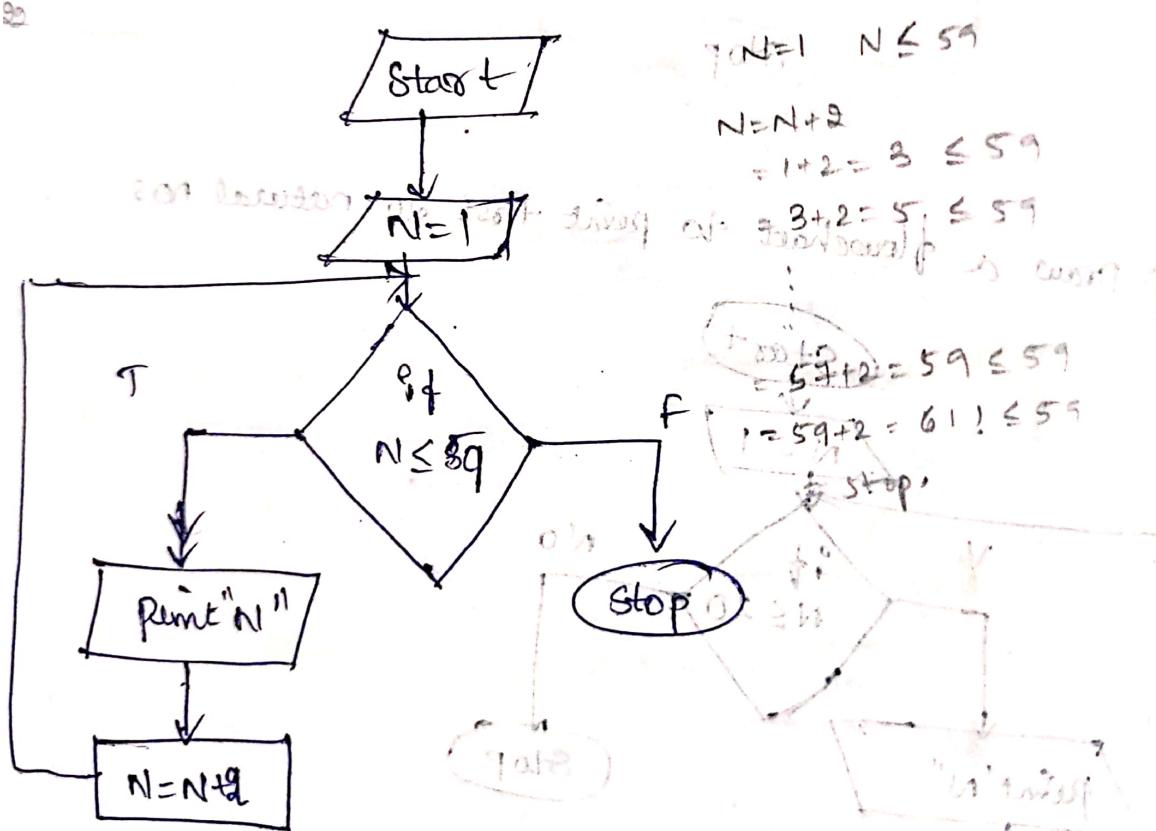
- ② Draw a flowchart to print first 20 natural nos.



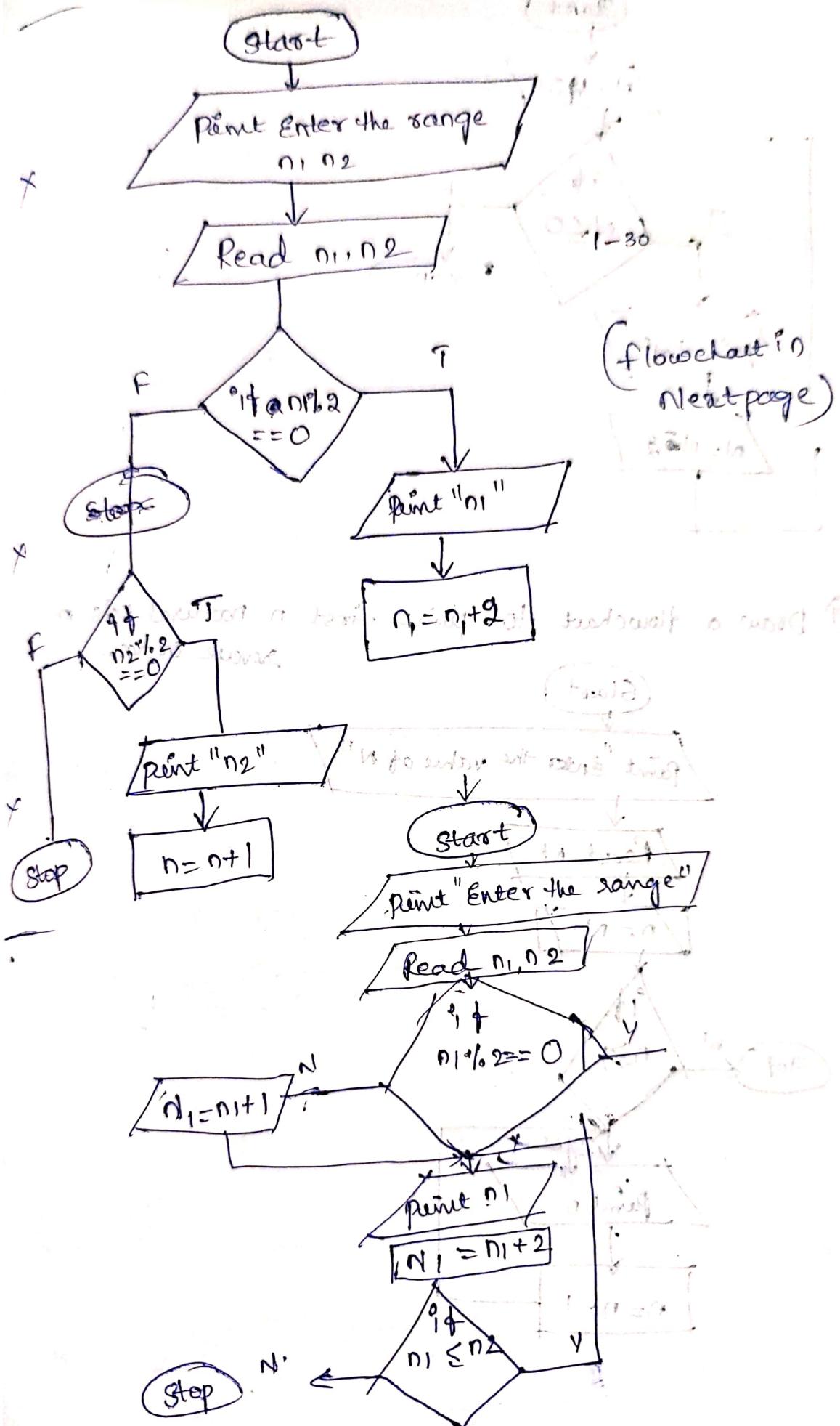
③ Draw a flowchart to print first 10 even nos.



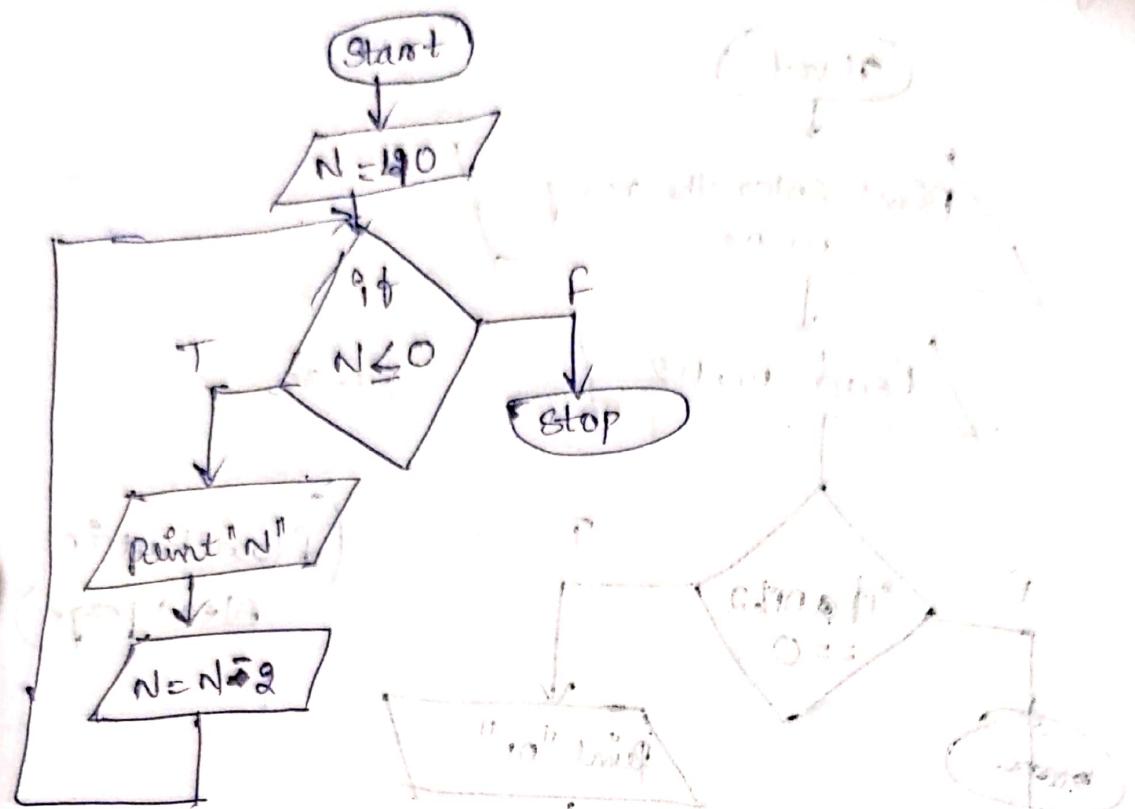
④ Draw a flowchart to print first 30 odd nos.



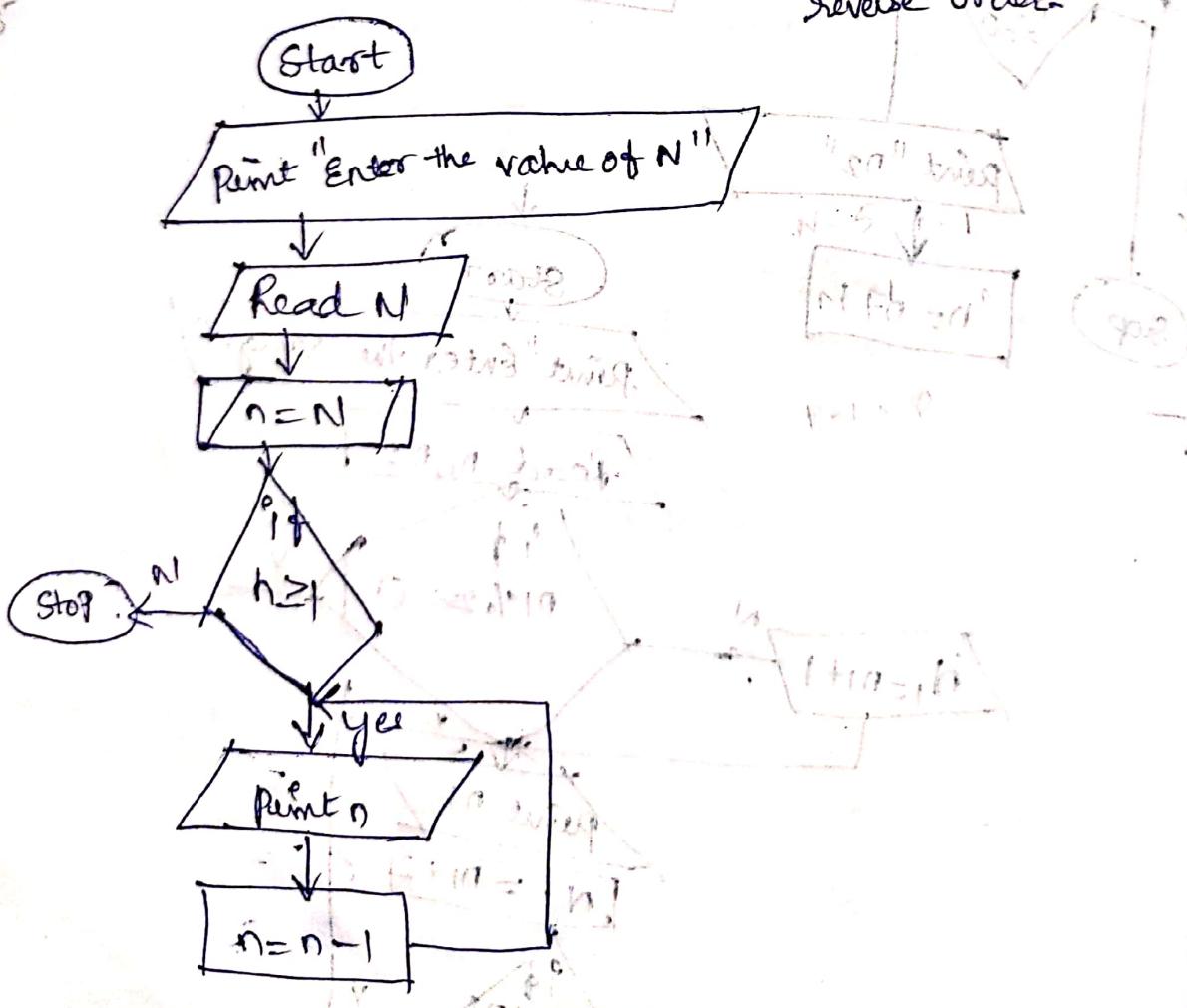
draw the flowchart to print all the even nos in a given range.



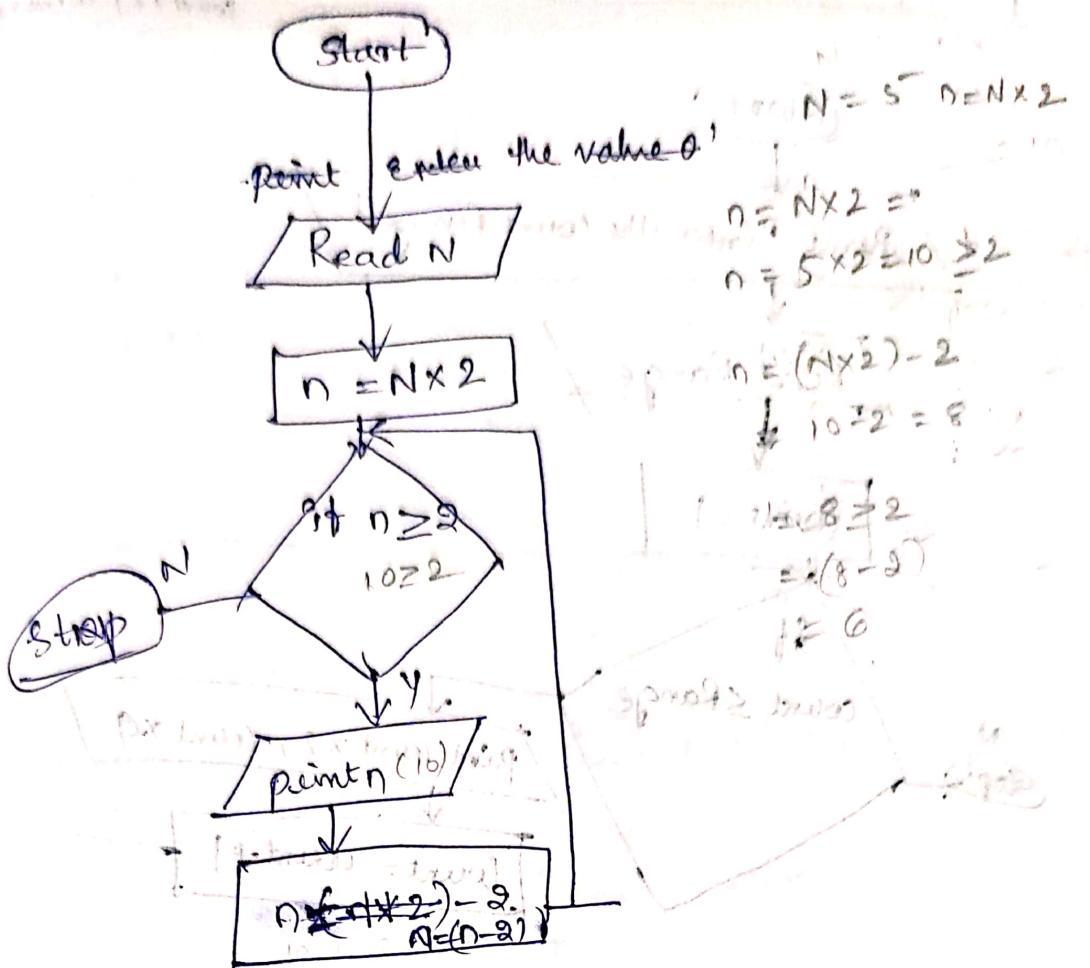
⑥ Draw a flowchart to print first 20 even nos in reverse order.



⑨ Draw a flowchart to print first n natural nos in reverse order.

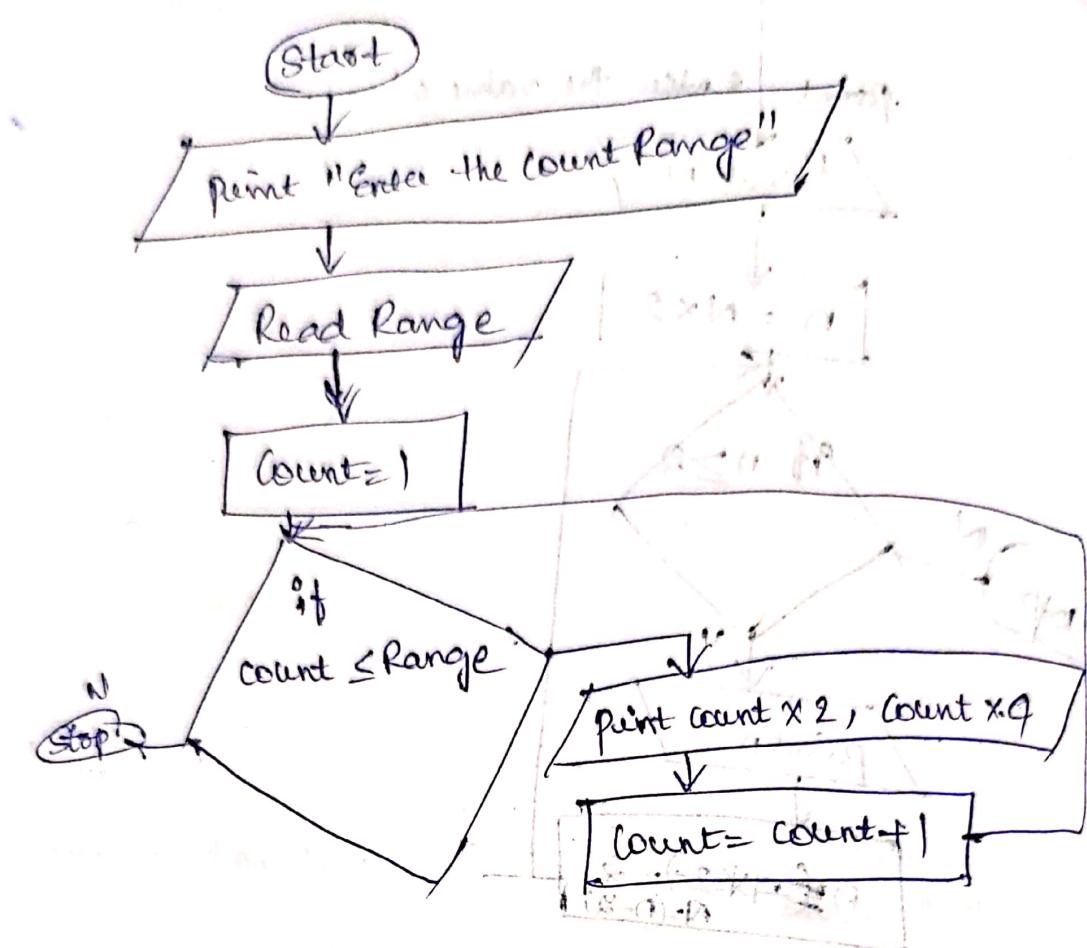


8) Draw a flowchart to print first n even numbers in reverse order.

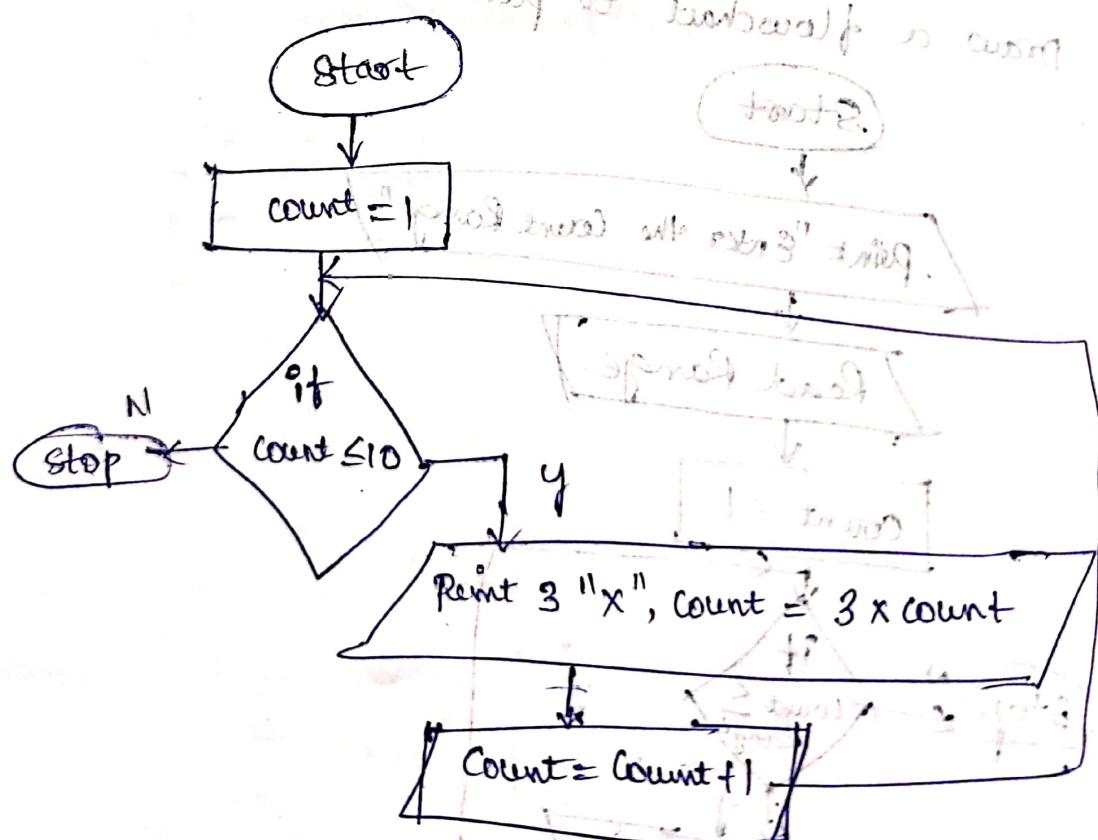


⑩ Draw a flowchart to print given series of no.

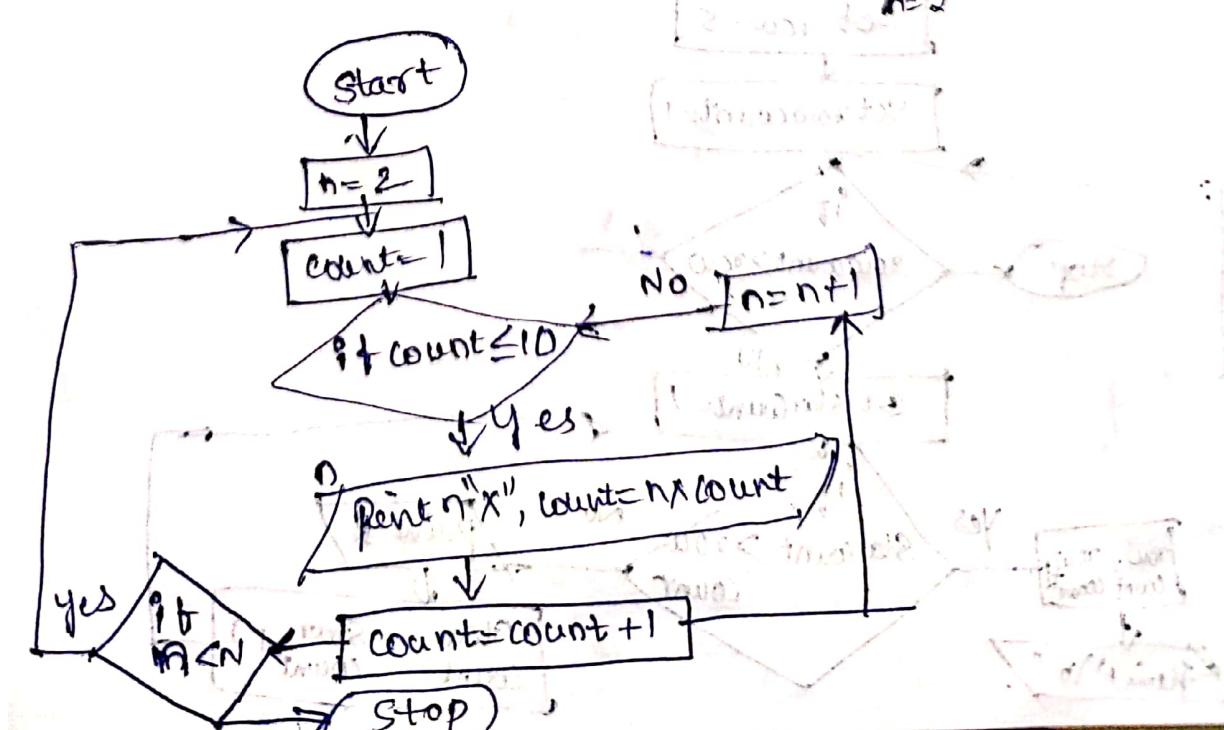
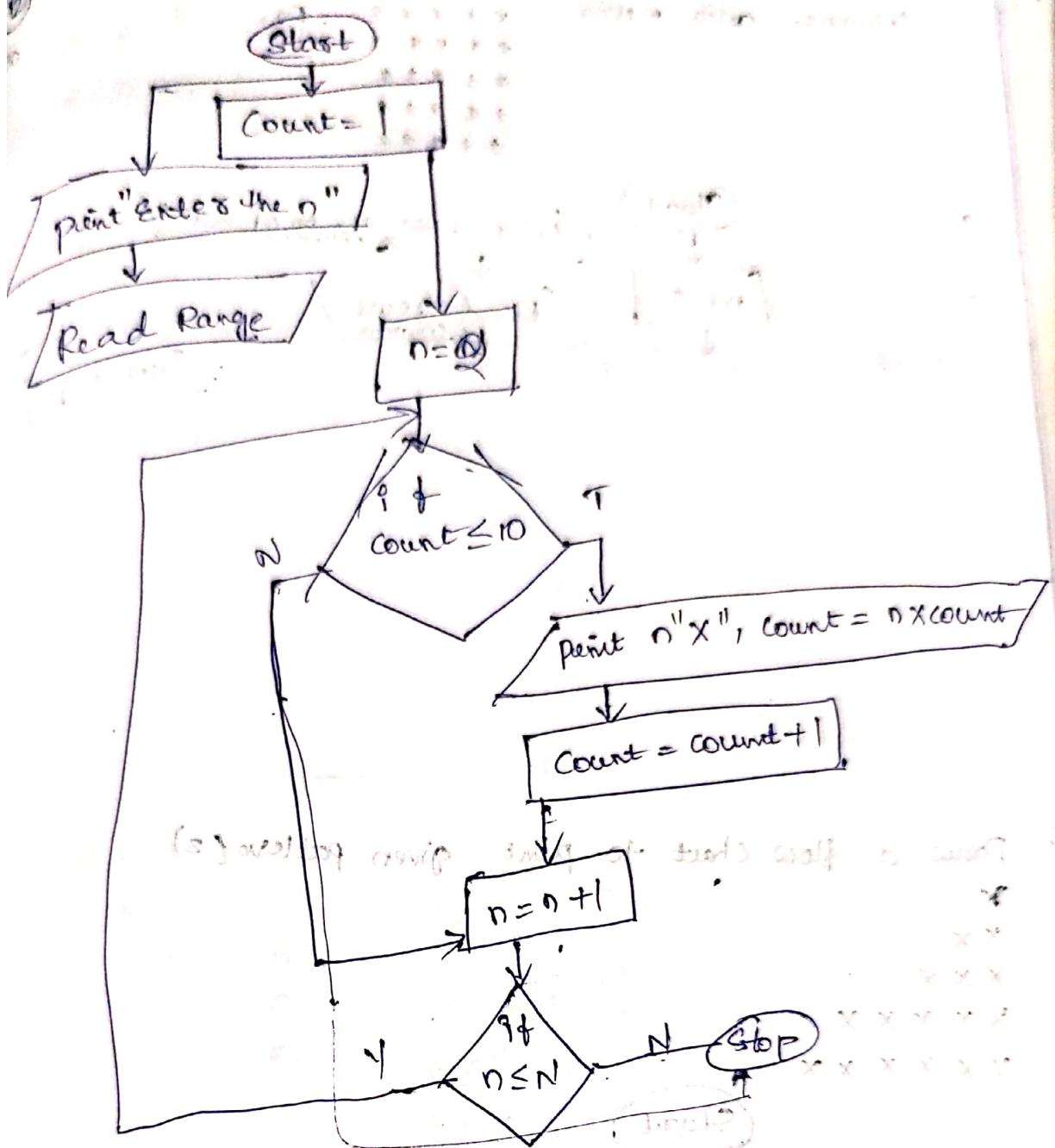
2, 4, 4, 8, 6, 12, 8, 16, 10, 20



⑪ Draw a flowchart to print mul of 3.

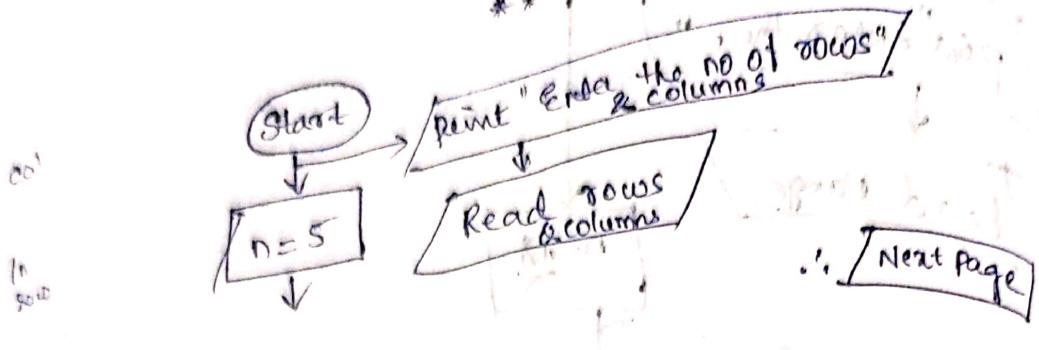


draw a flowchart to print first n null tables.



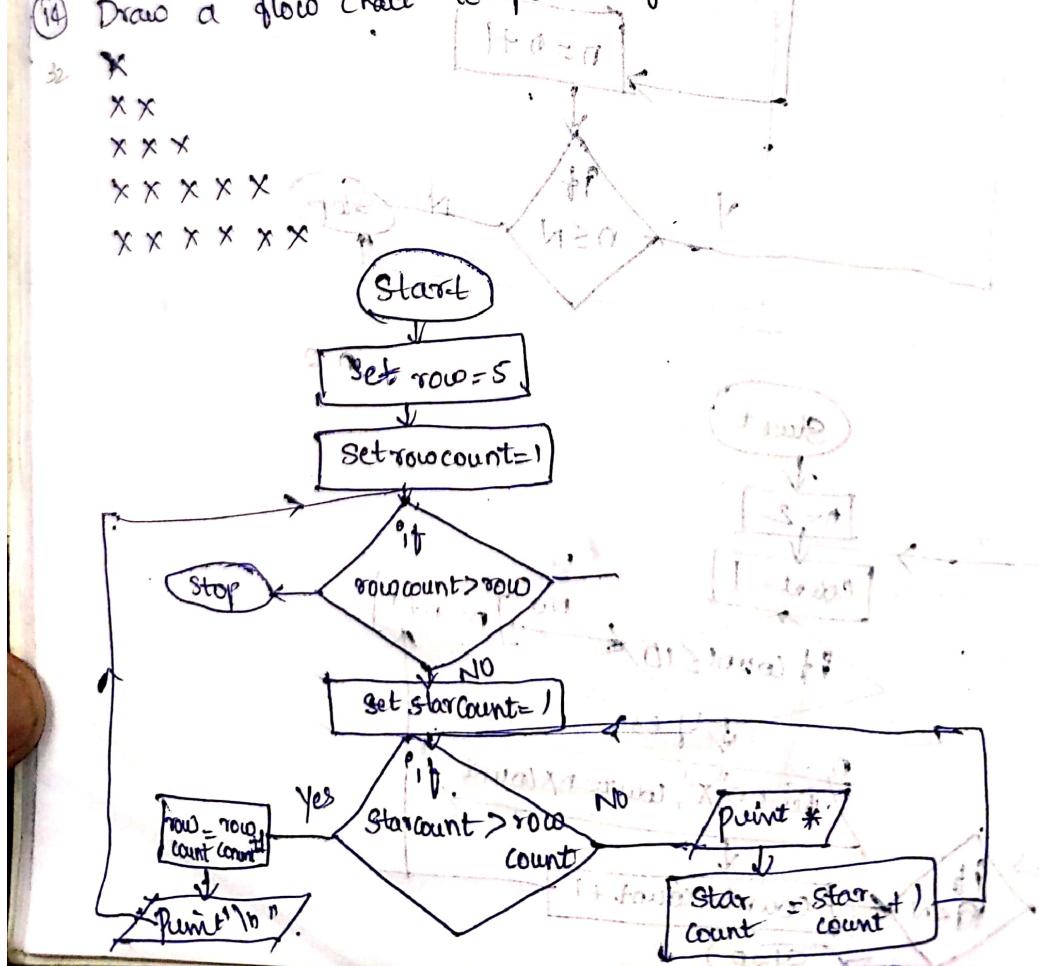
- ⑬ Draw the flowchart to print the matrix like the rows & columns, asterisk matrix

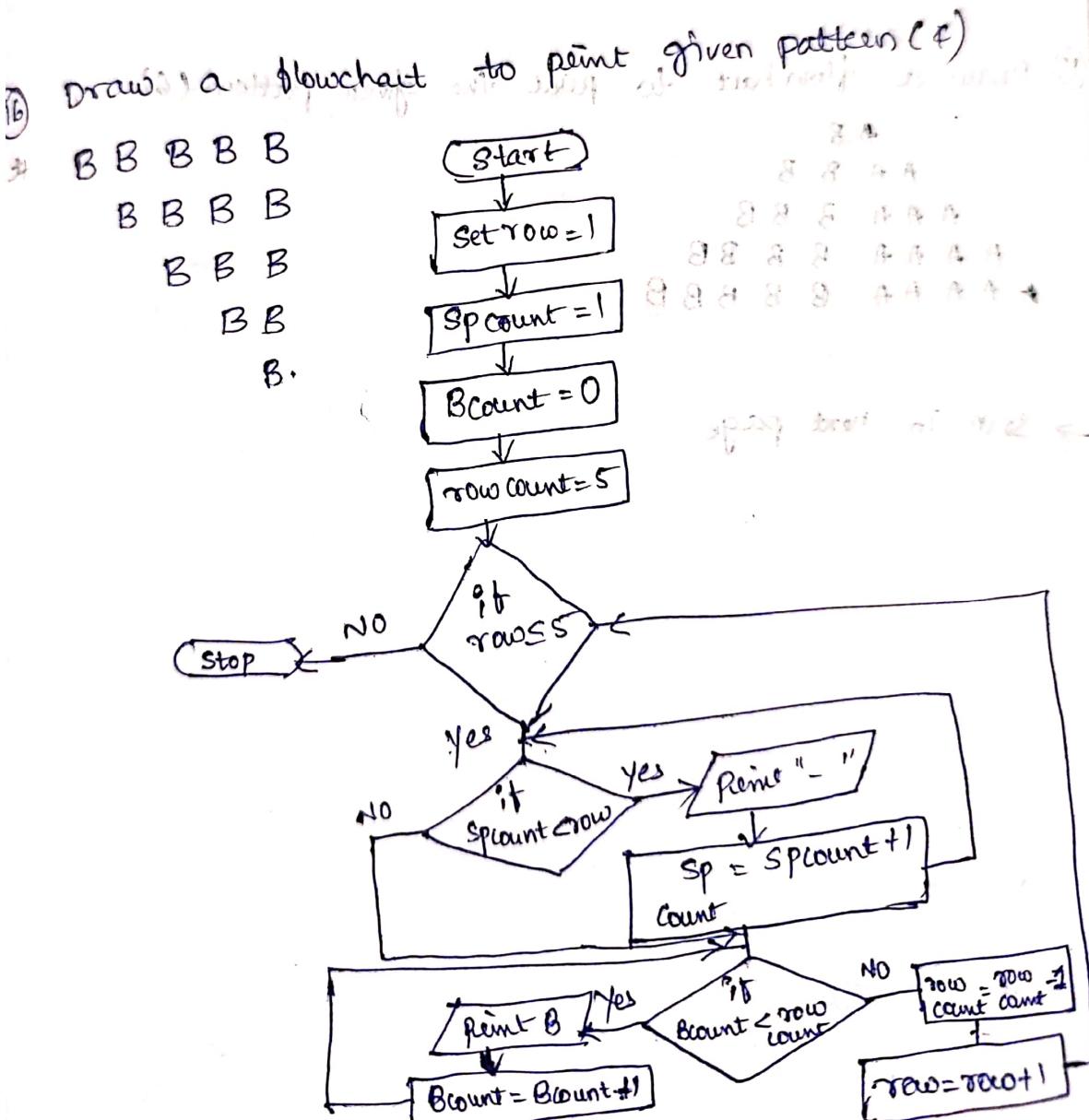
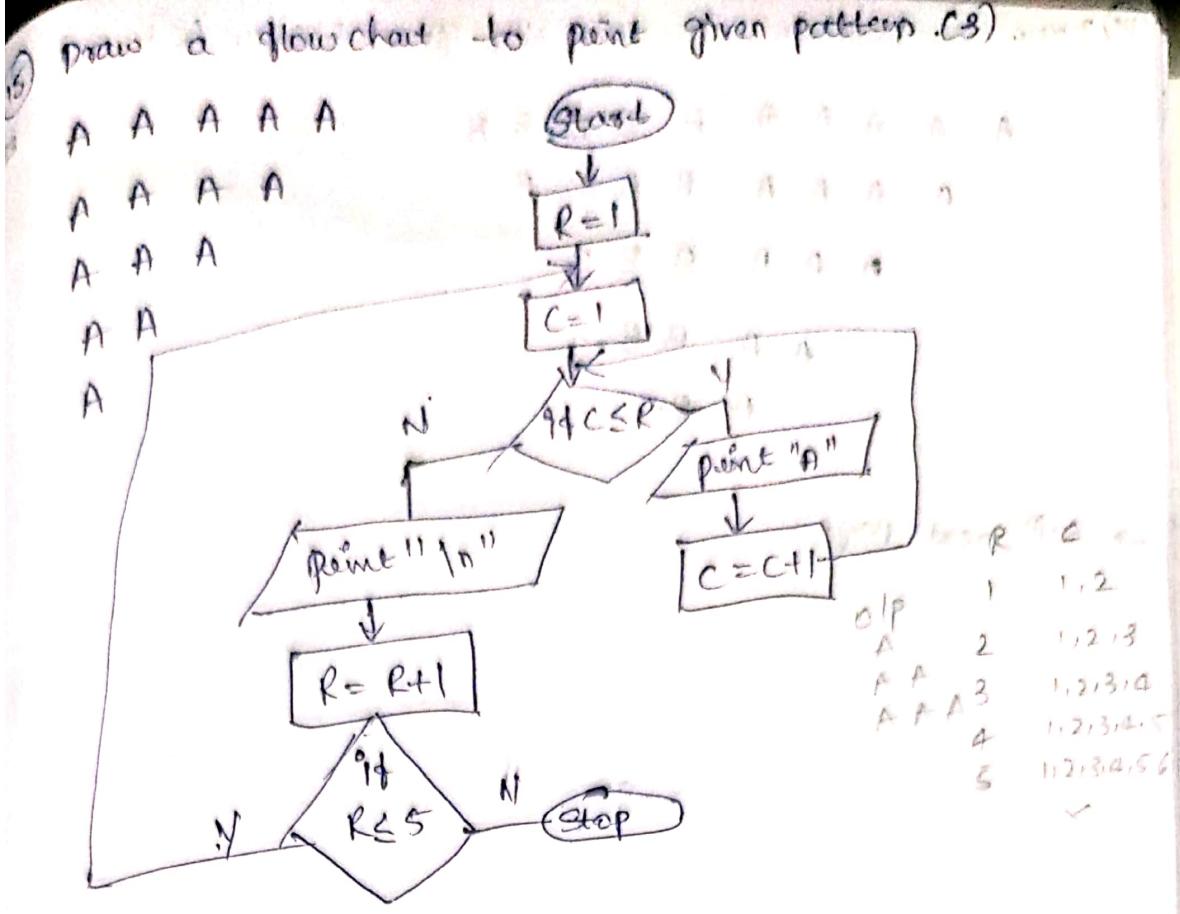
Pattern 1.



- ⑭ Draw a flow chart to print given pattern (2)

\*  
 XX  
 XXX  
 XXXXX  
 XXXXXX





Q) Draw a flowchart to print the given pattern (5)

35  
A A A A A B B B B B  
A A A A B B B B B  
A A A B B B B  
A A B B B B  
A B B B B B

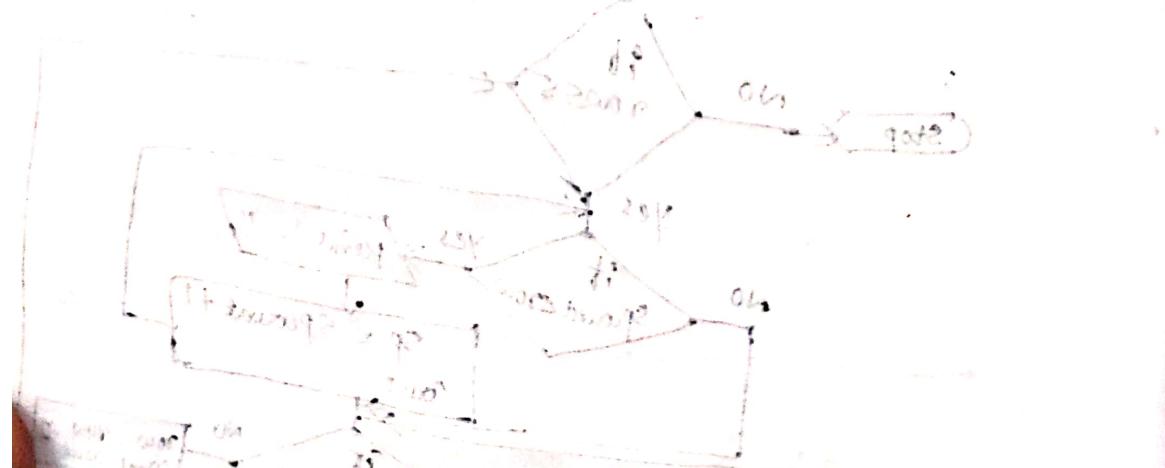
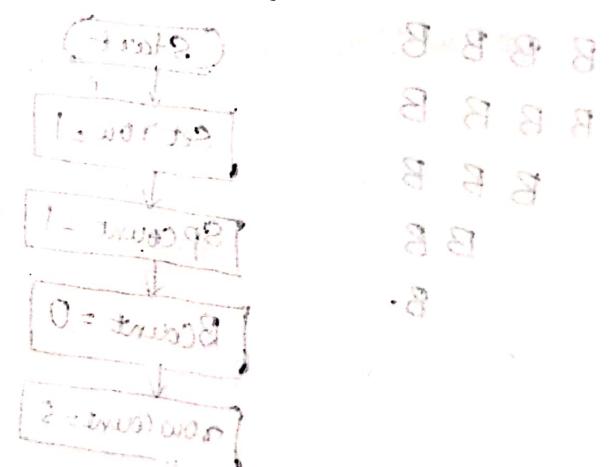
→ Soln next page

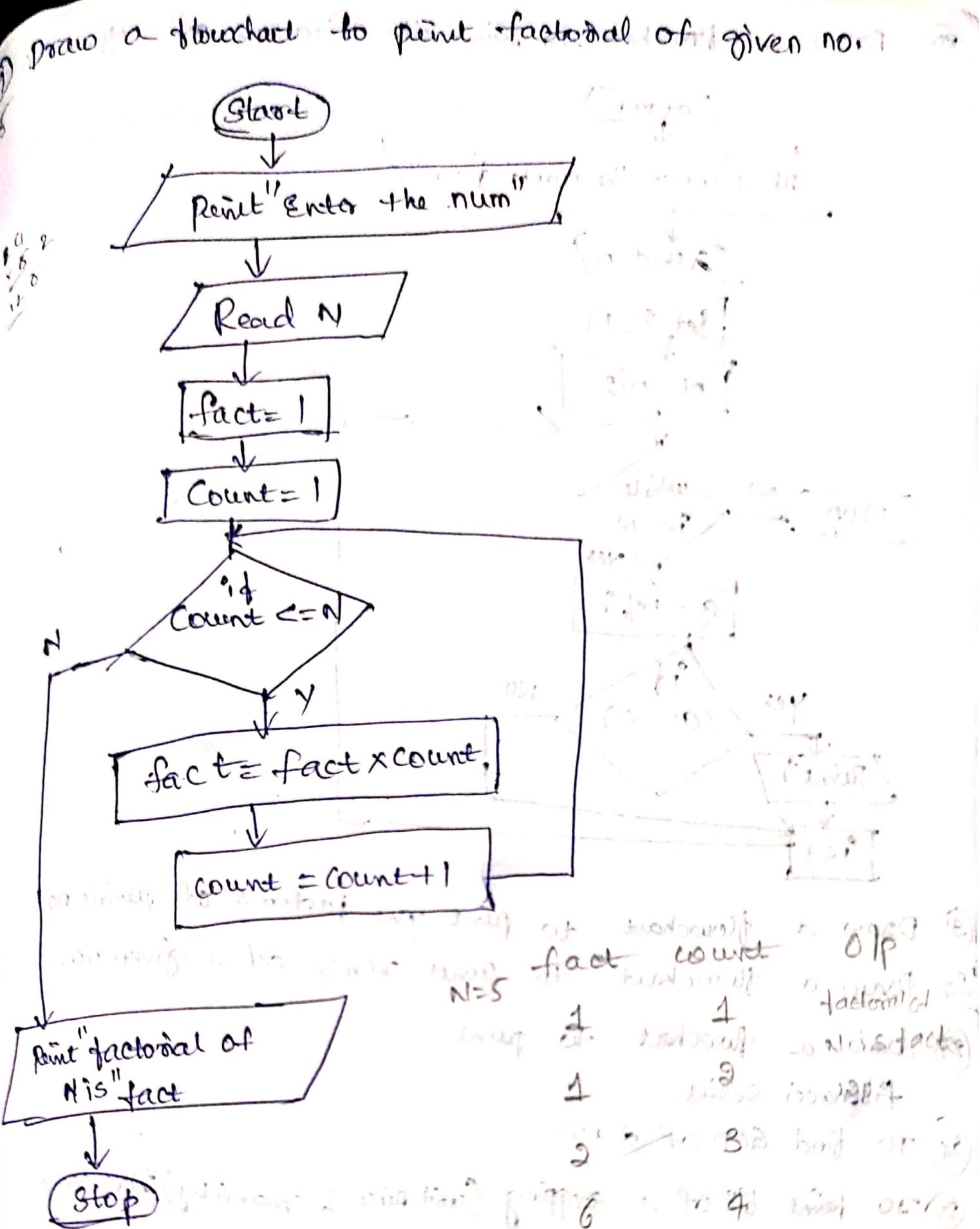


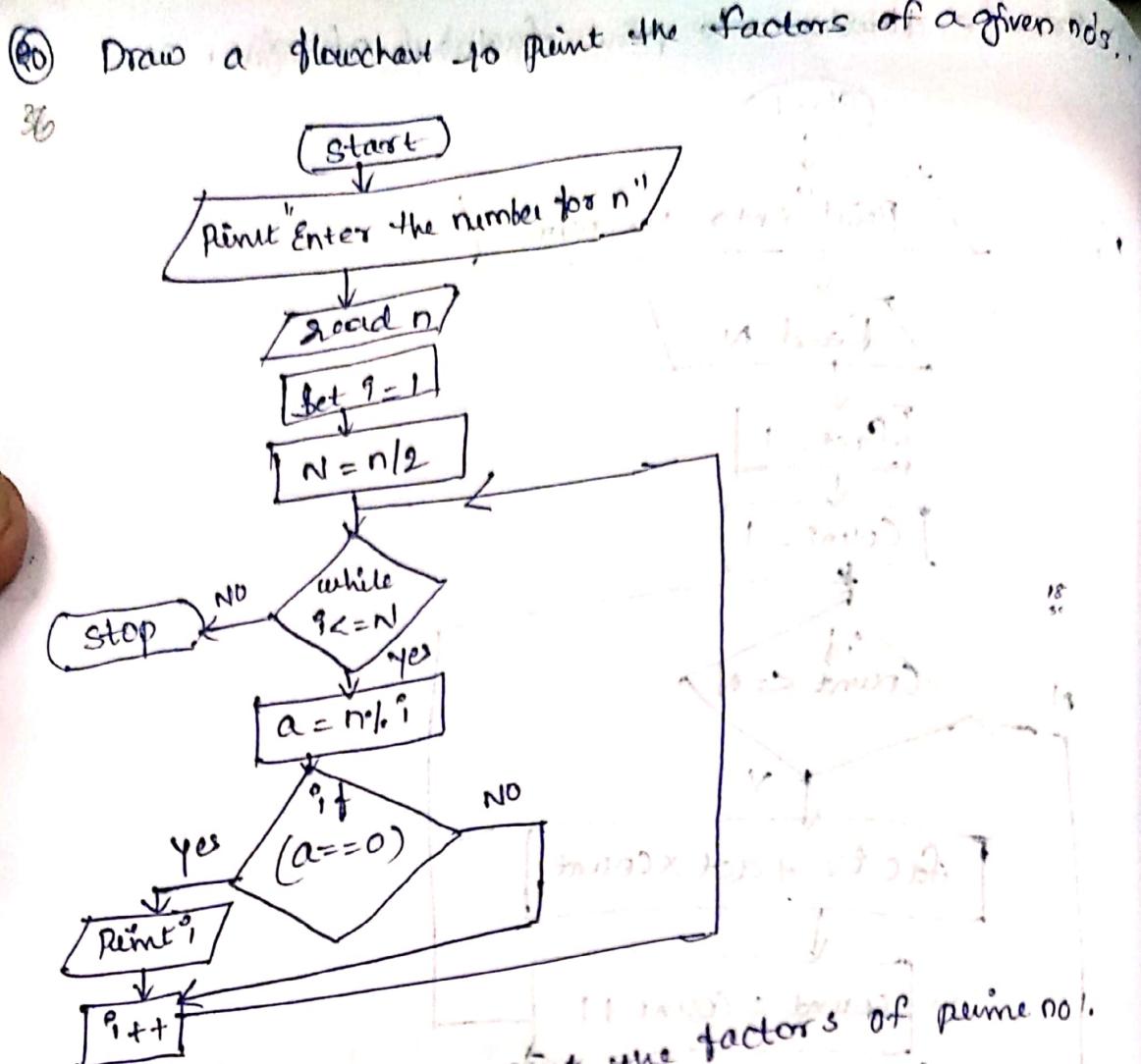
Q) Draw a flowchart to print the given pattern (6)

6  
A B  
A A B B  
A A A B B B  
A A A A B B B B  
A A A A A B B B B B

→ Soln in next page



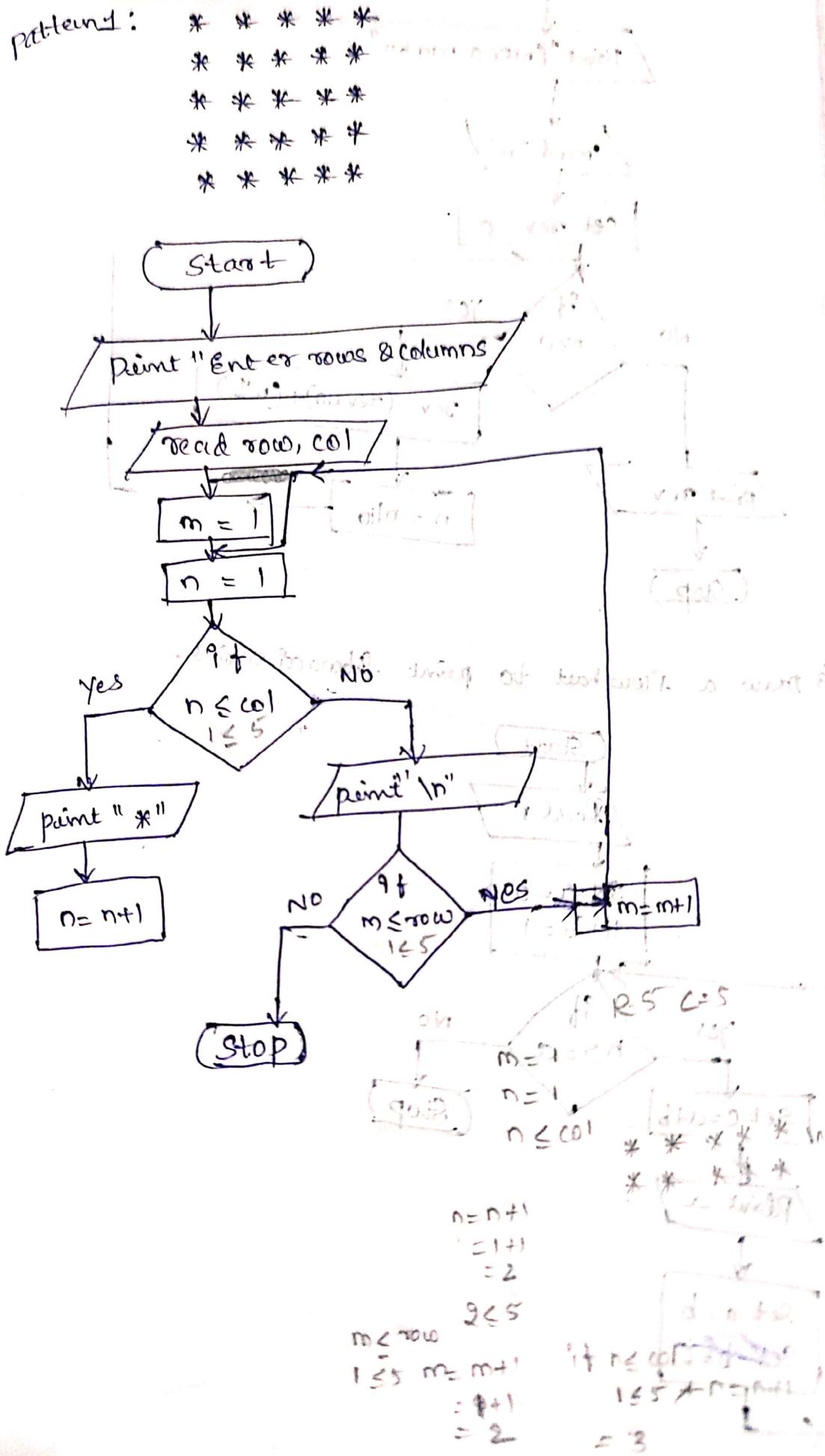




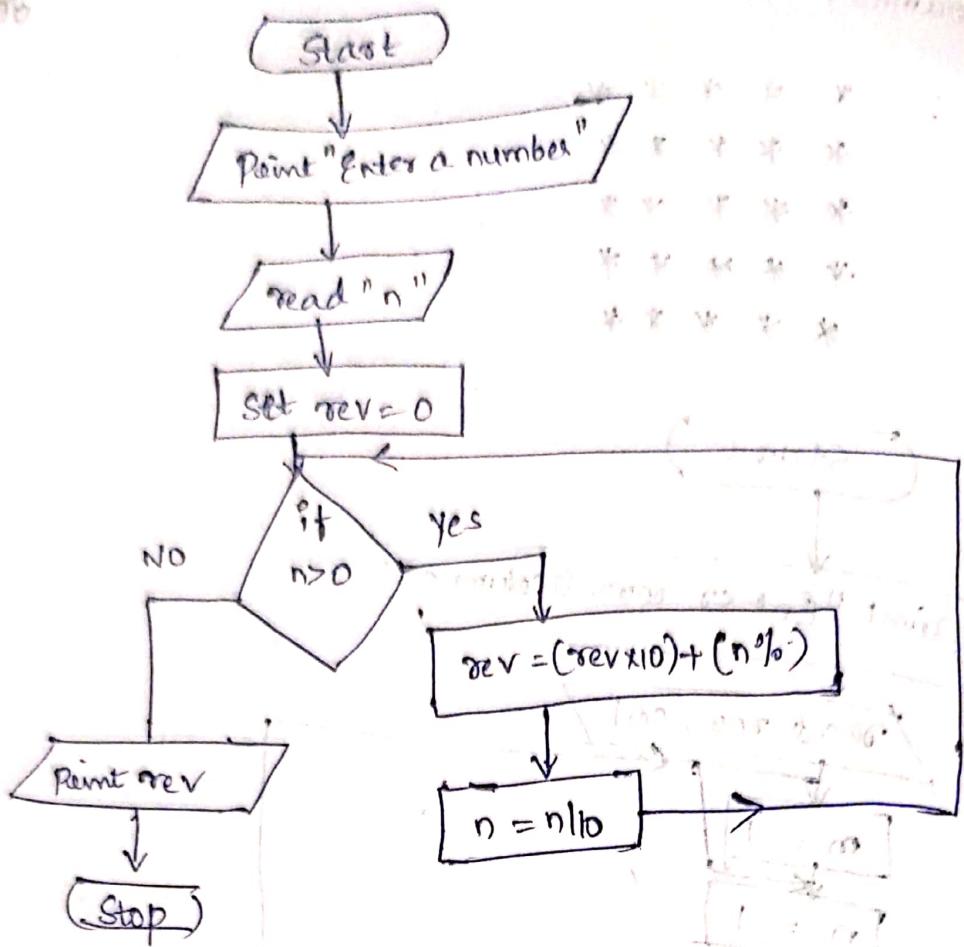
- ⑪ Draw a flowchart to print the factors of prime no.
- ⑫ Draw a flowchart to print reverse of a given no.
- ⑬ draw a flowchart to print fibonacci series.
- ⑭ To find GCD of 2 nos.
- ⑮ To print bill of a shopping (unit price & quantity) taken to be entered.
- ⑯ To check whether the given no is palindrome or not.
- ⑰ D.F.C to print BCD value of a given no. [4-bit BCD]
- ⑱ D.F.C to print hexa value of a given no.
- ⑲ D.F.C to print the decimal value of a hexa-num.
- ⑳ D.F.C to get 10 nos from user and print the a.o. [A[0]].
- ㉑ D.F.C to get n nos from the user ask the user to enter any one no from those nos, with a no which one is choosed. [value is zero].

(13) Pour the floorboard to paint the main the rooms and columns.

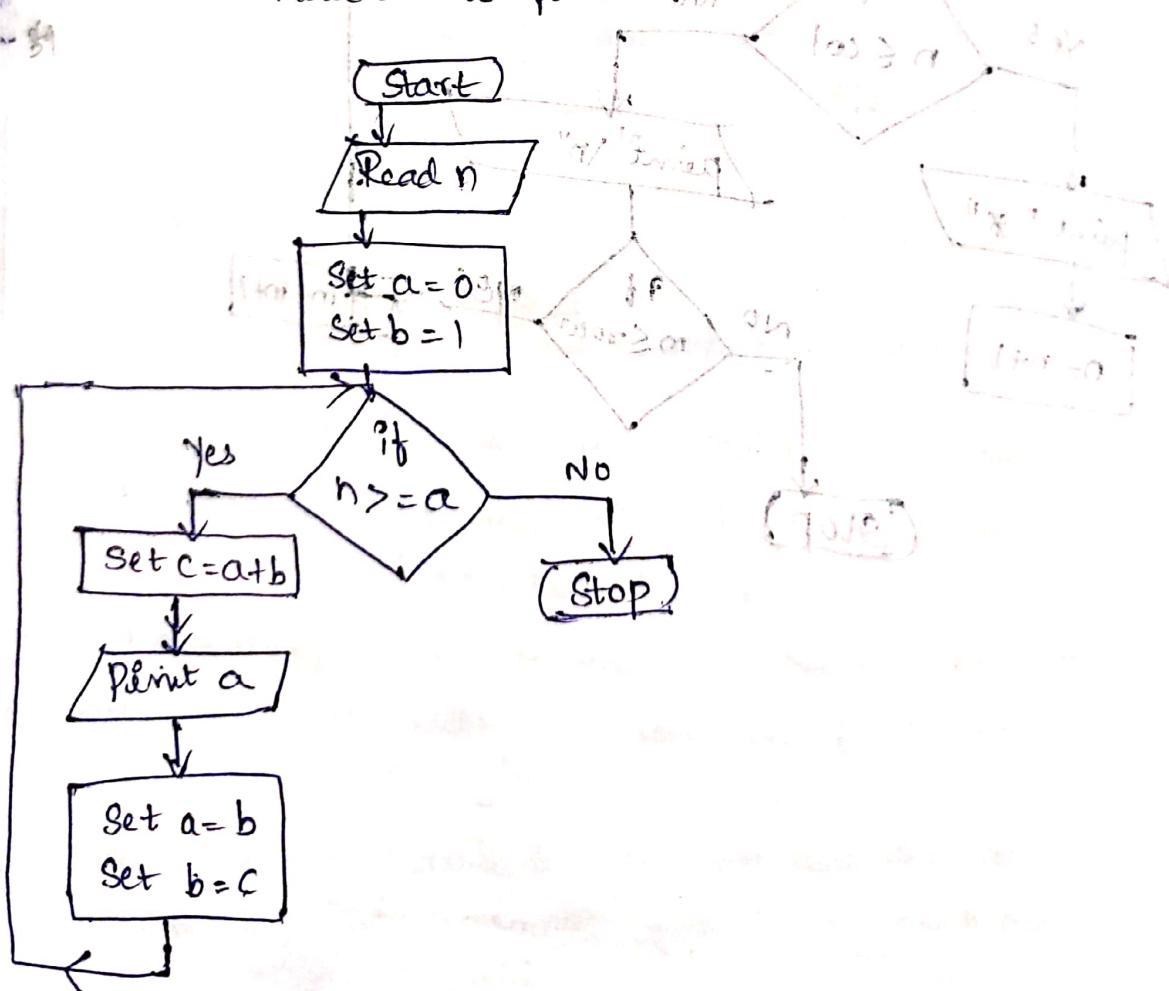
pattern:

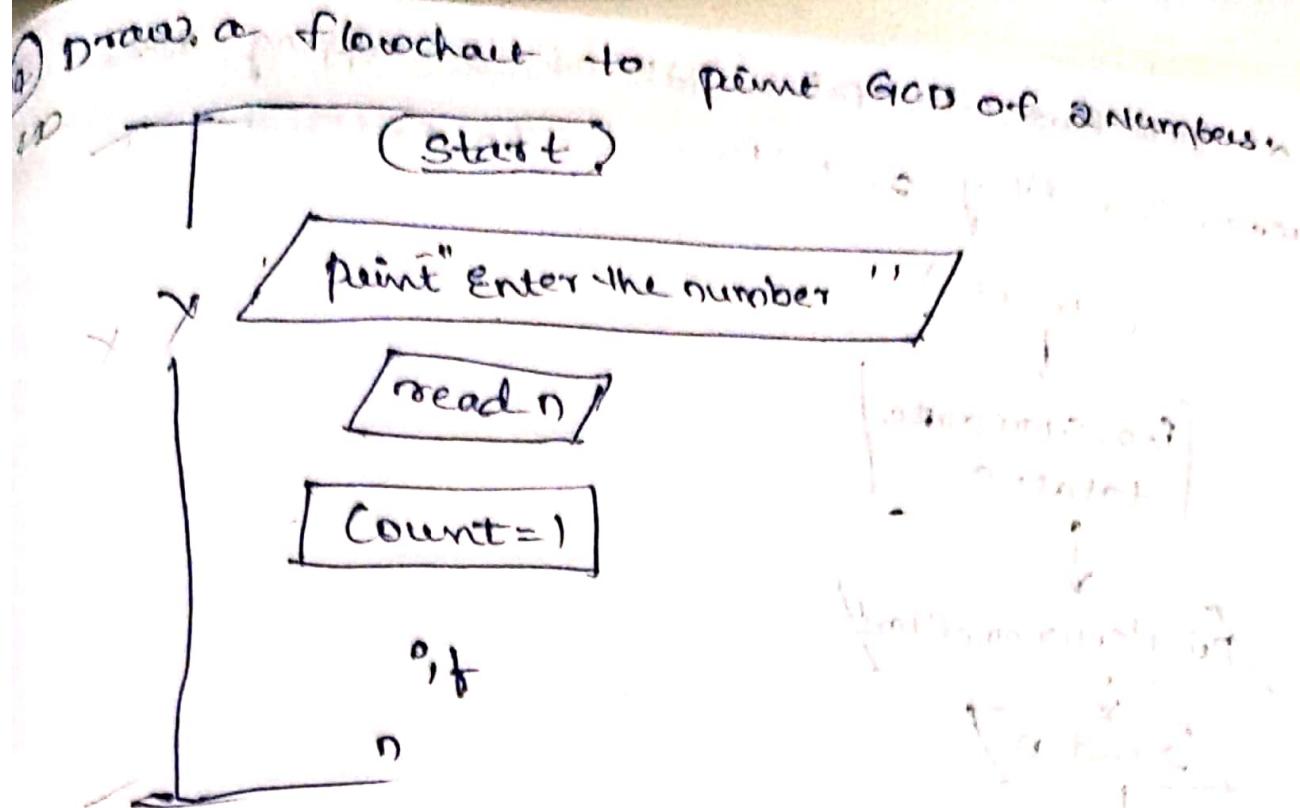


② Draw a flowchart to print reverse of a given number.

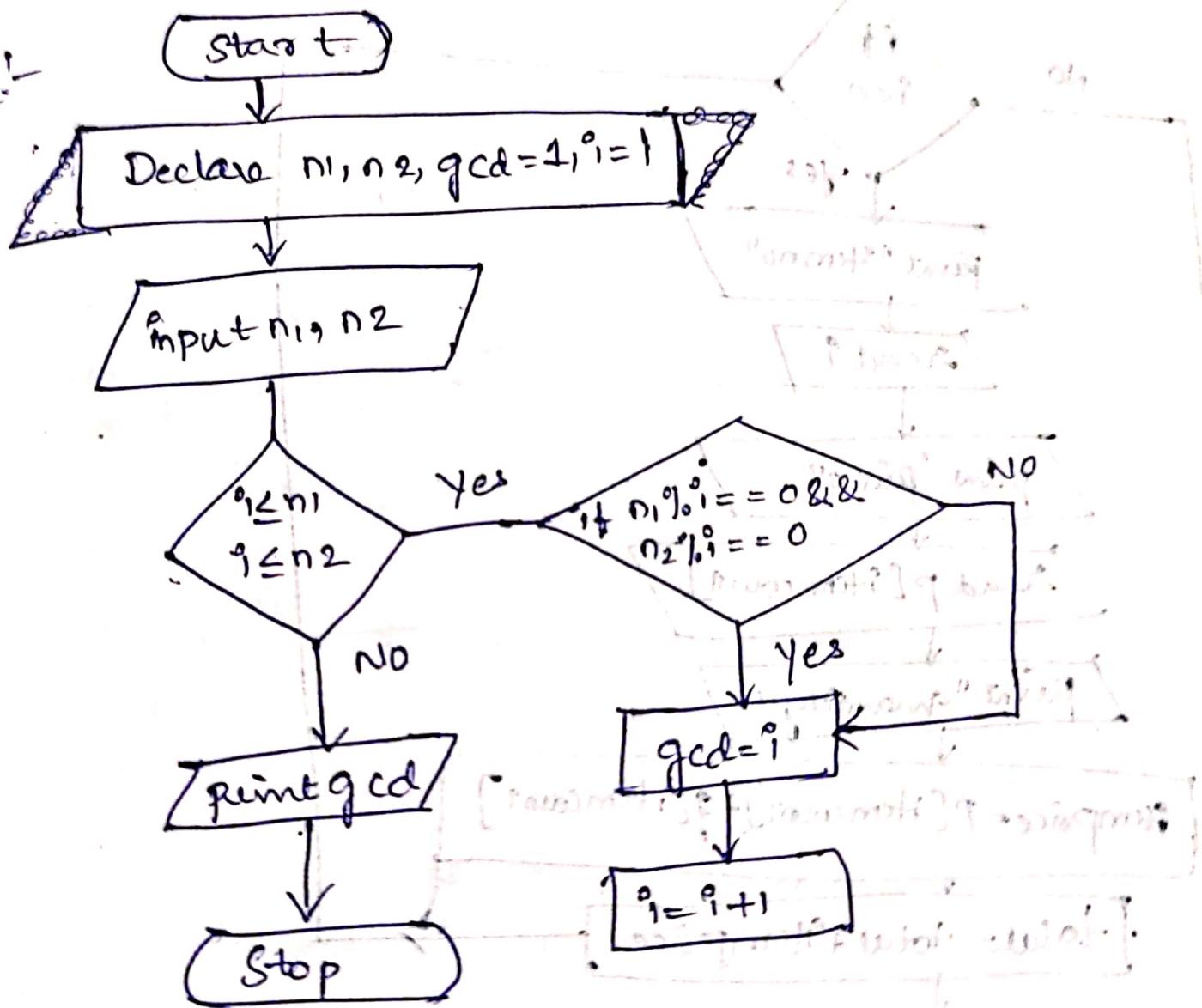


③ Draw a flowchart to print fibonacci series.

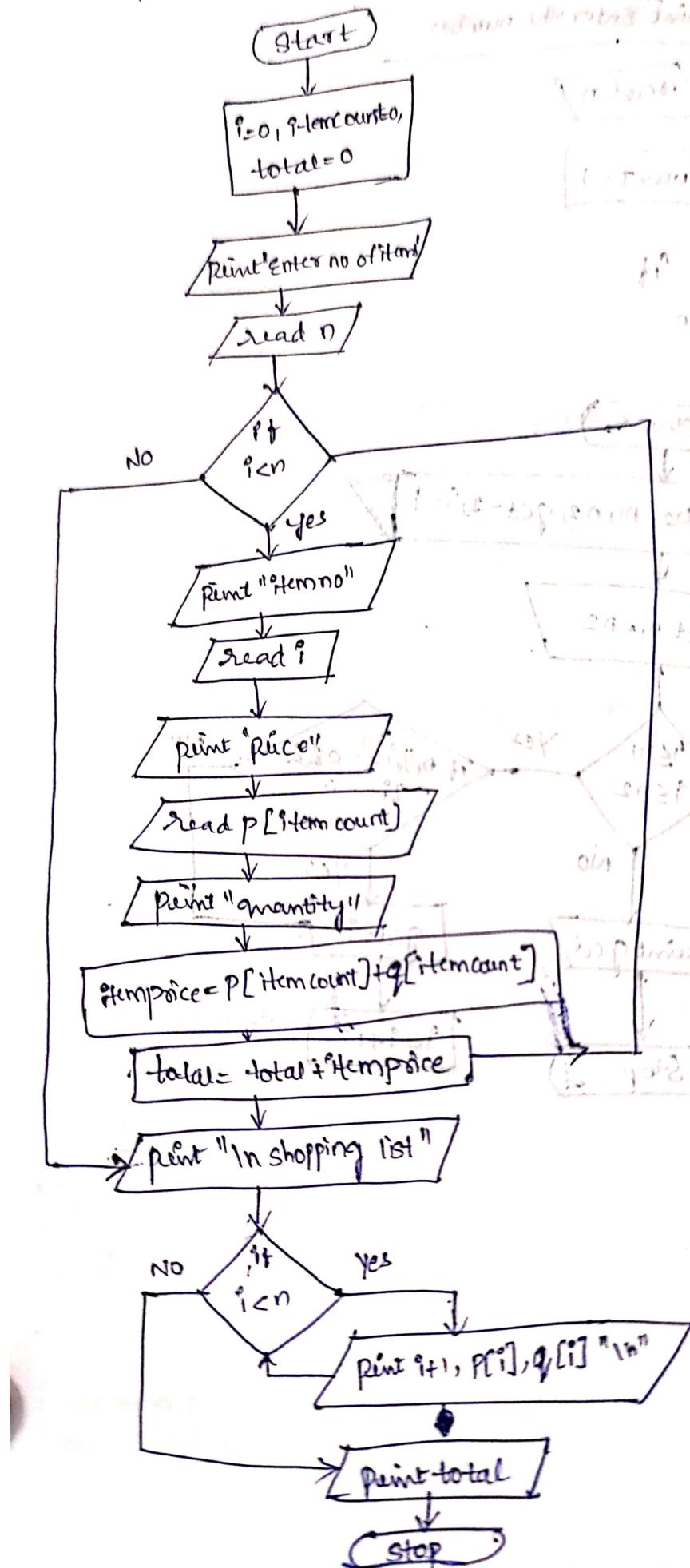




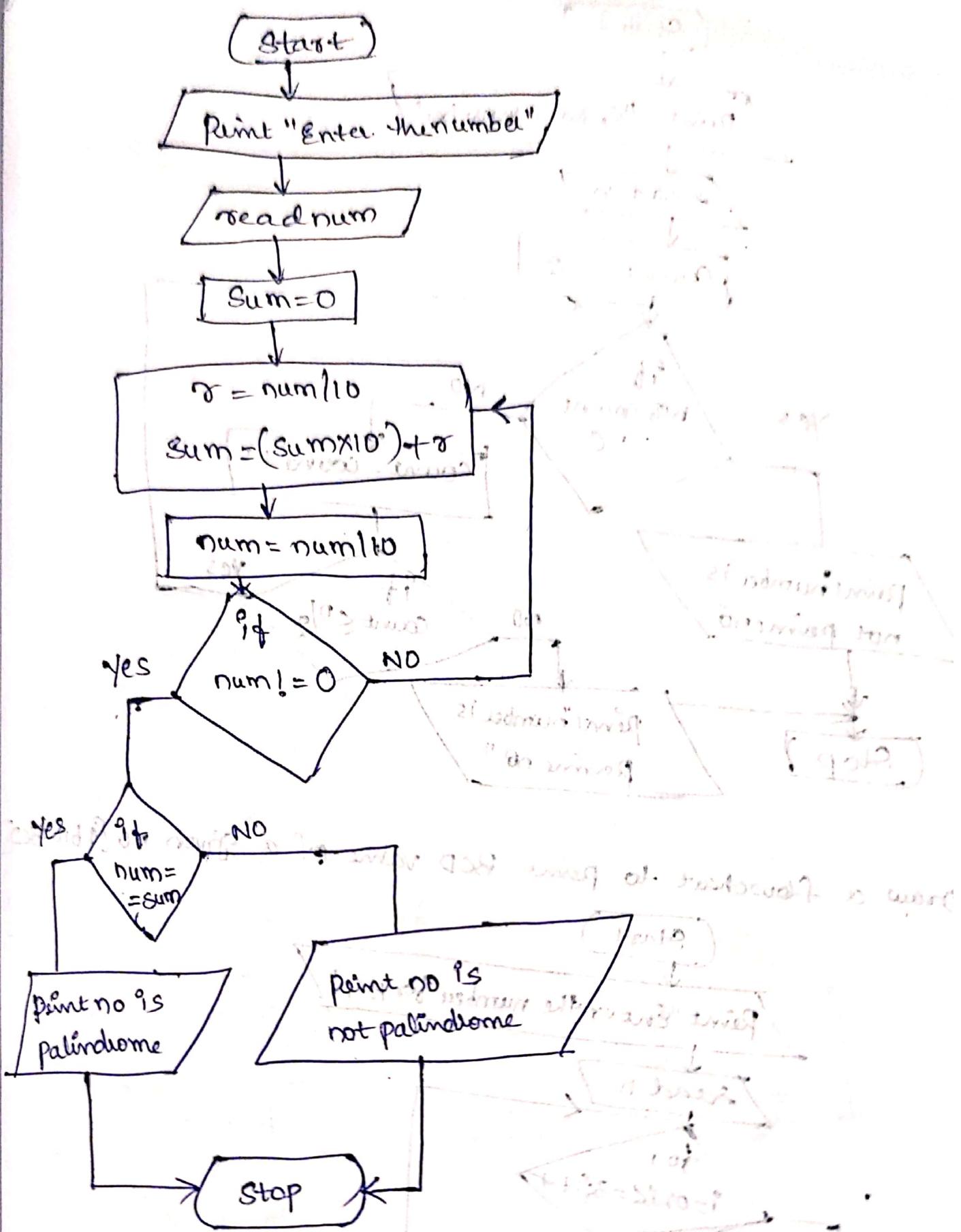
Sol:-

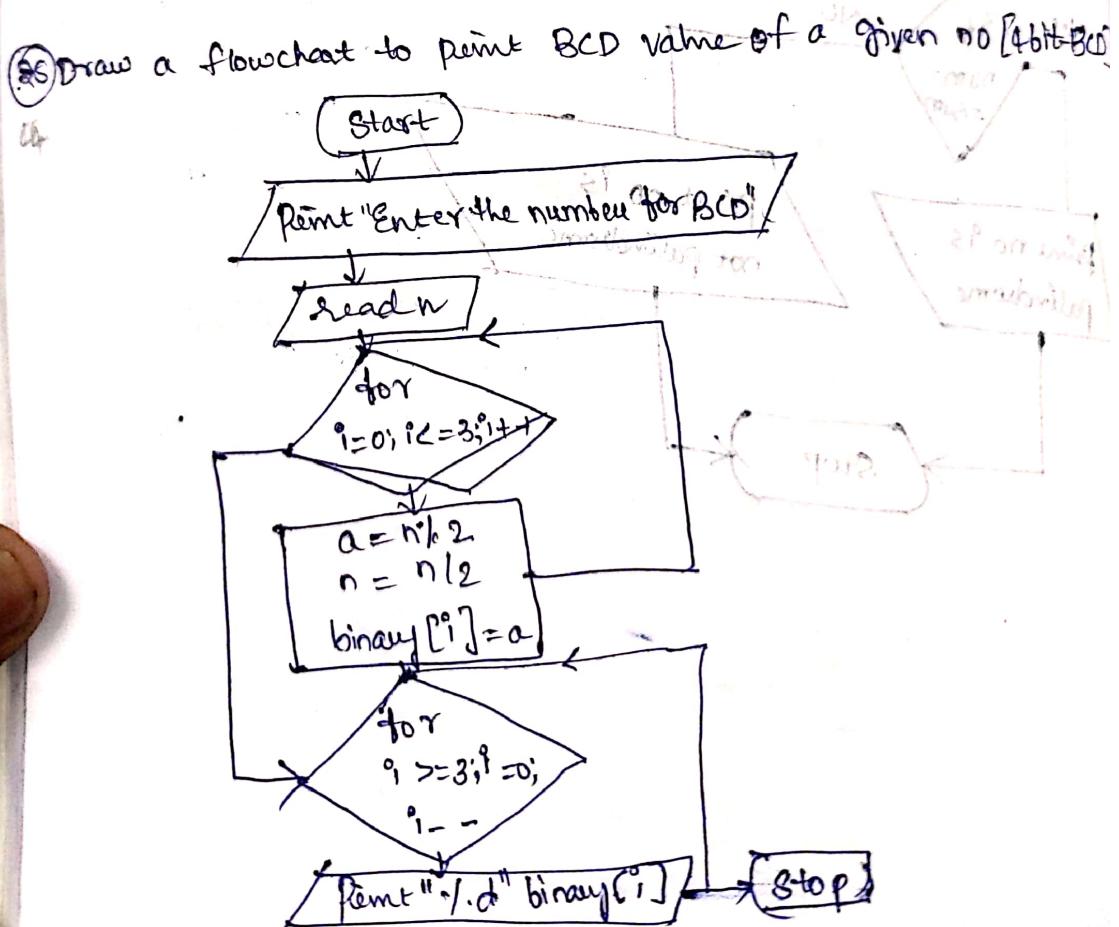
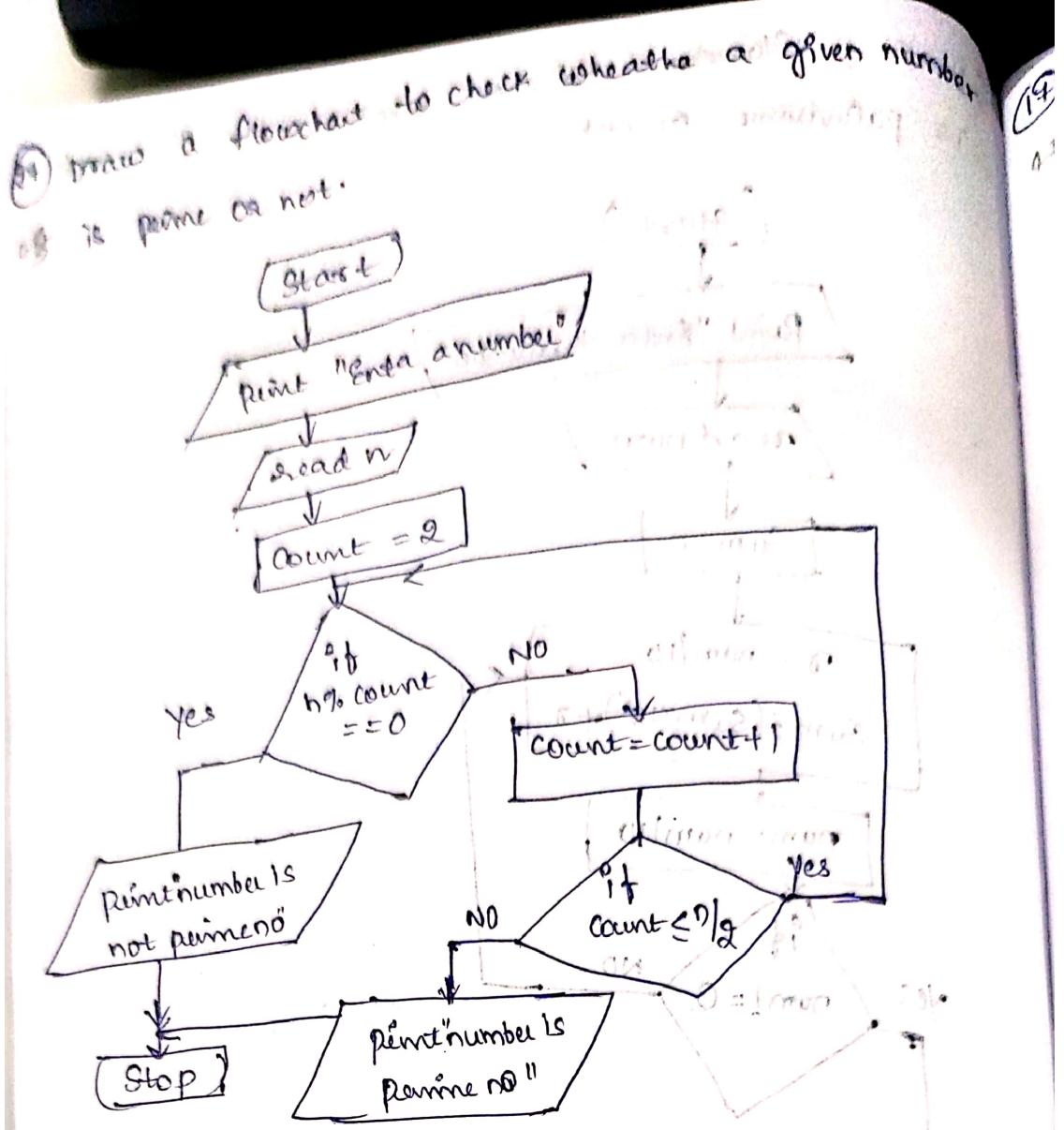


Q5) Draw a flowchart to print bill of a shopping where unit price, quantity and items to be entered.



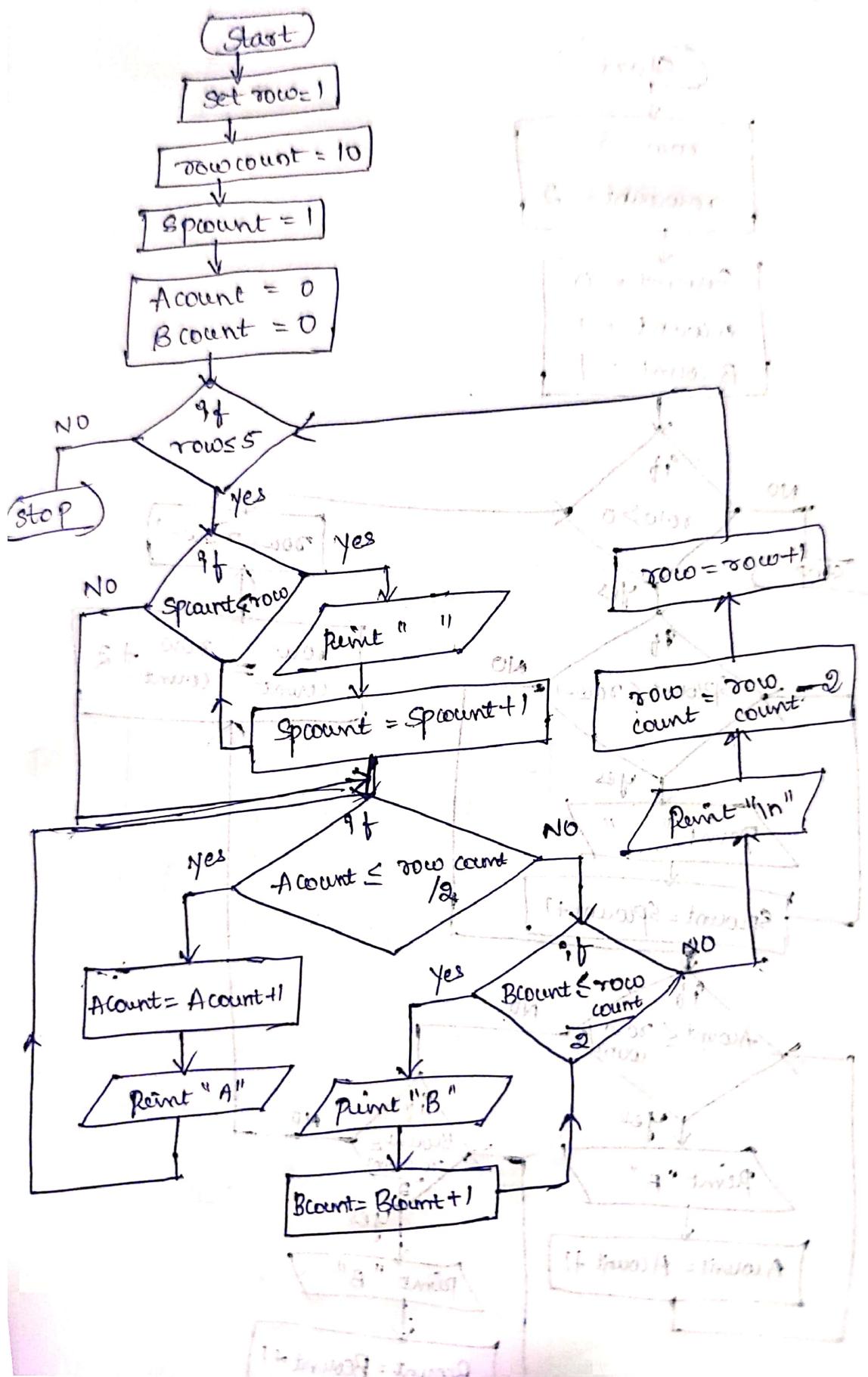
draw a flowchart to check whether the given number is palindrome or not.





Q) Draw a flowchart to print the given pattern 5.

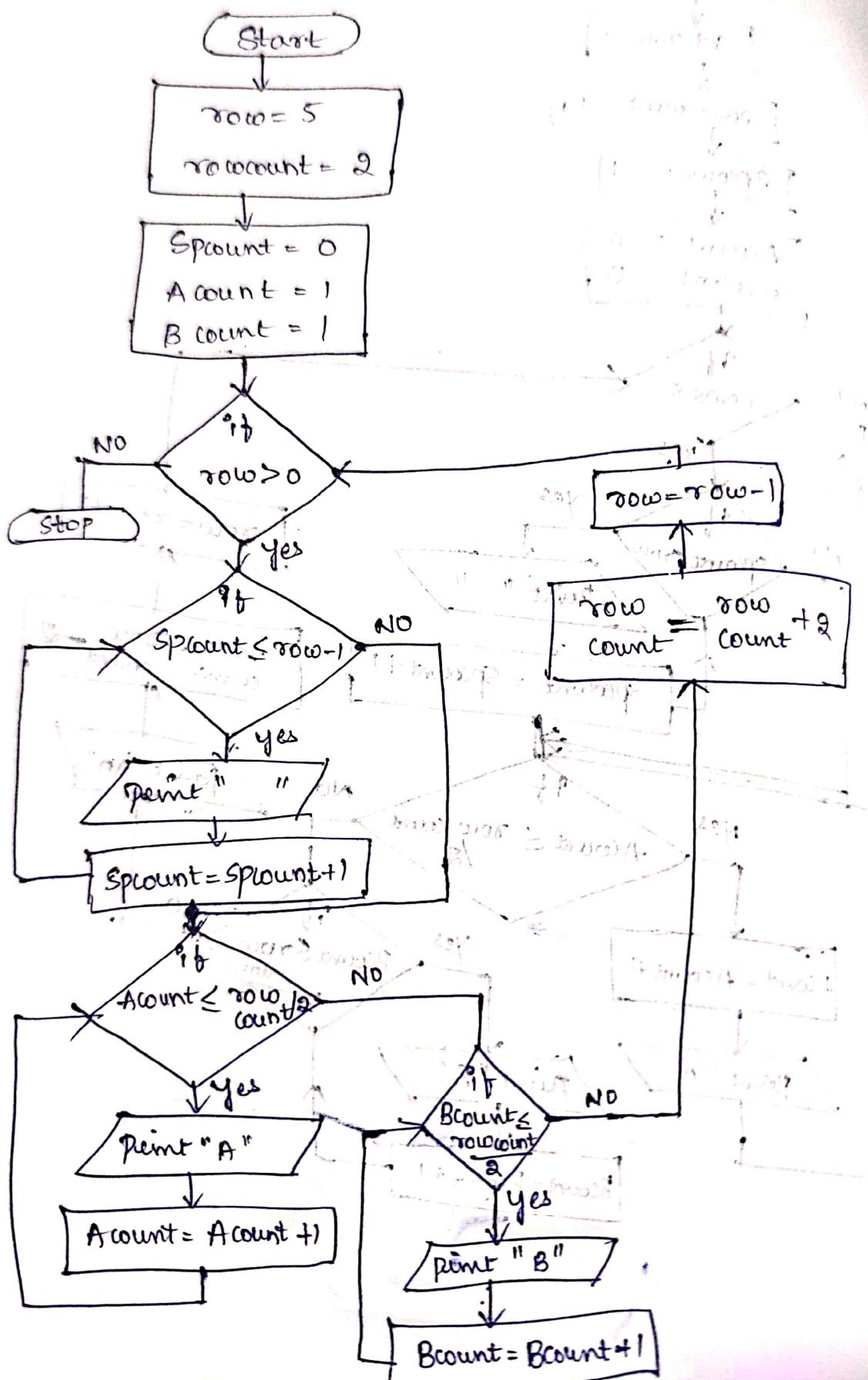
A A A A A B B B B B  
A A A A A B B B B B  
A A A A B B B B  
A A A B B B  
A B.



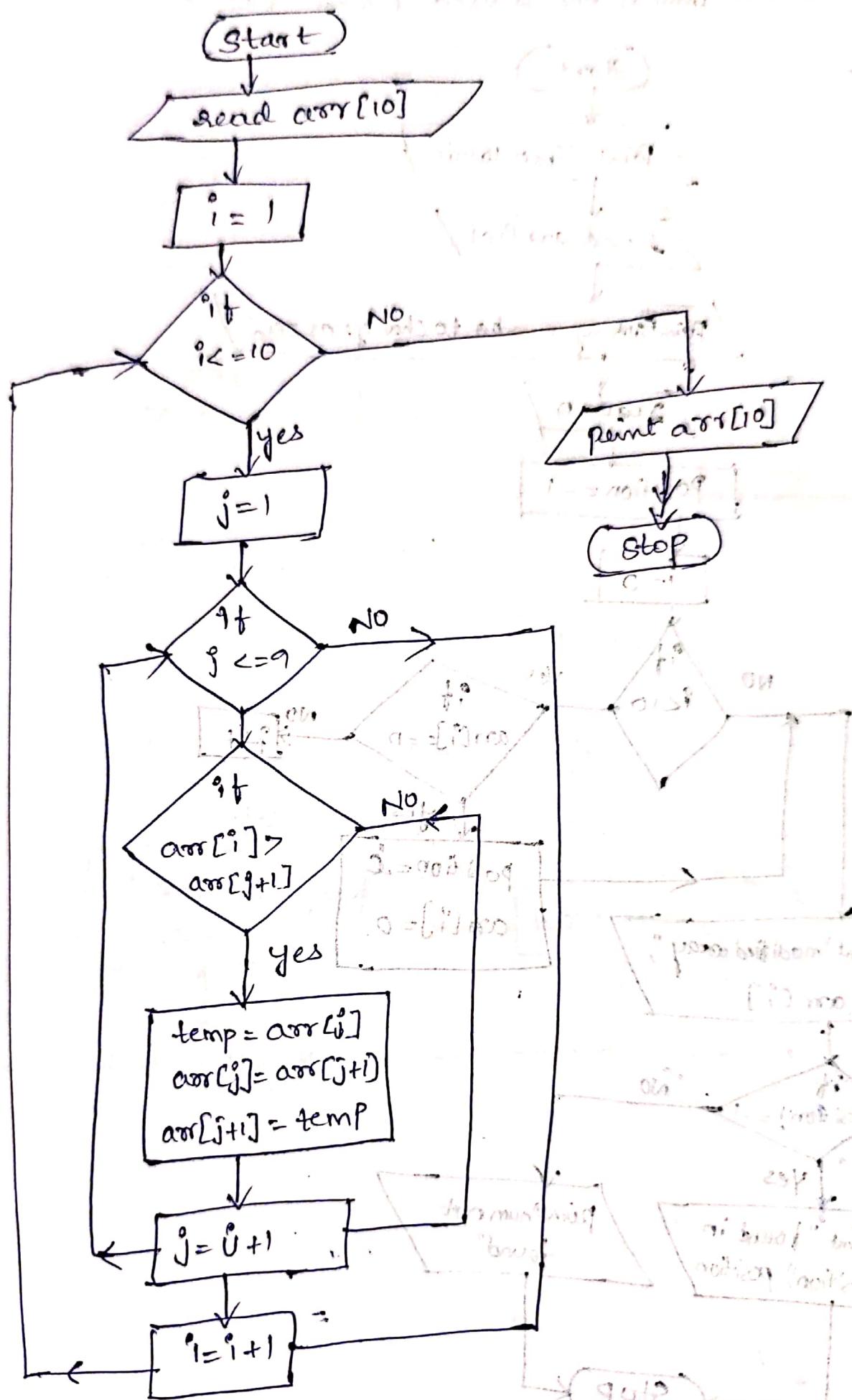
Q18 Draw a flowchart to print the given pattern.

46

A B  
A A B B  
A A A B B B  
A A A A B B B B  
A A A A A B B B B B

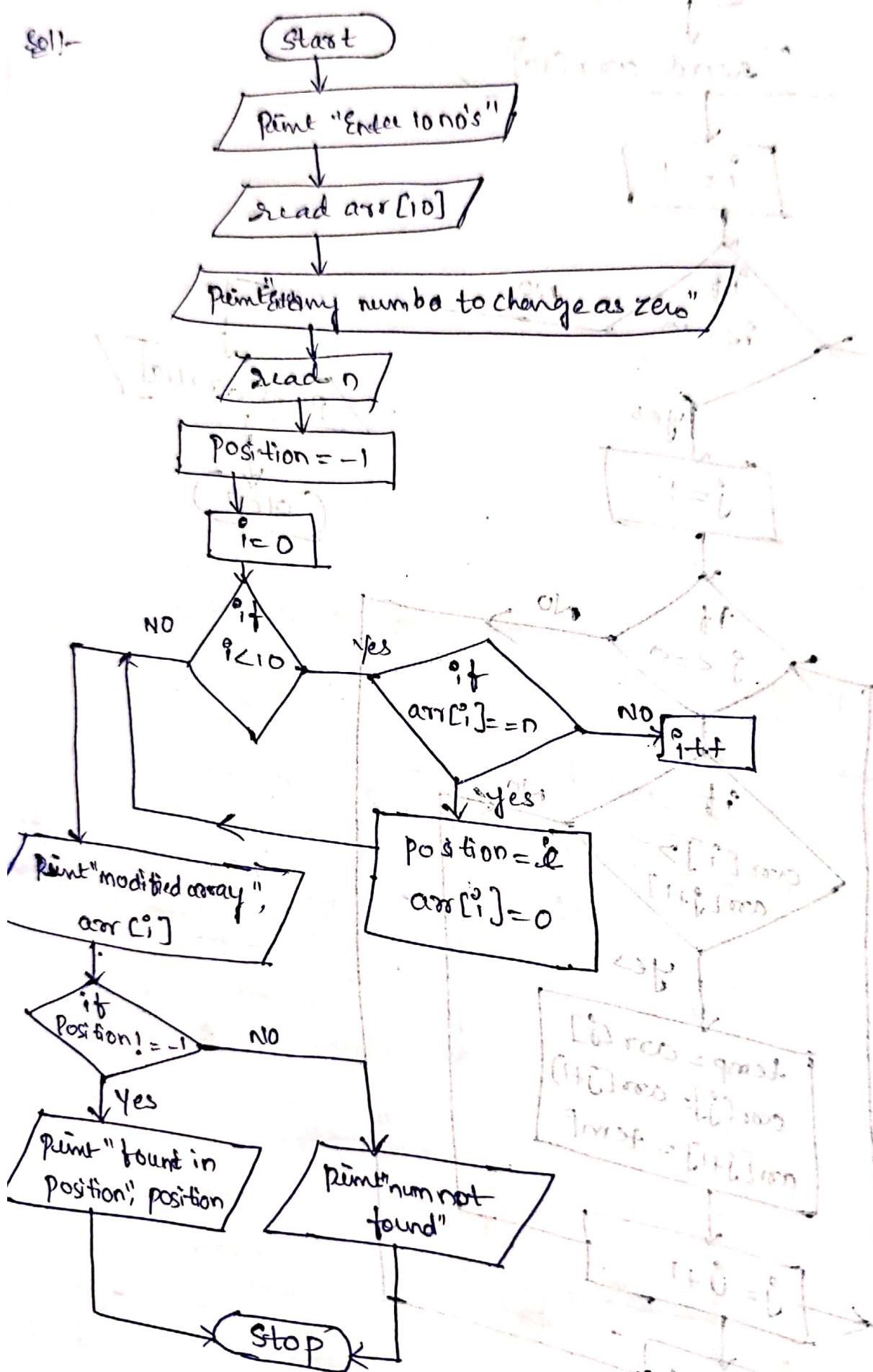


draw a flowchart to get 10 no's from user and print the Ascending Order A[0].

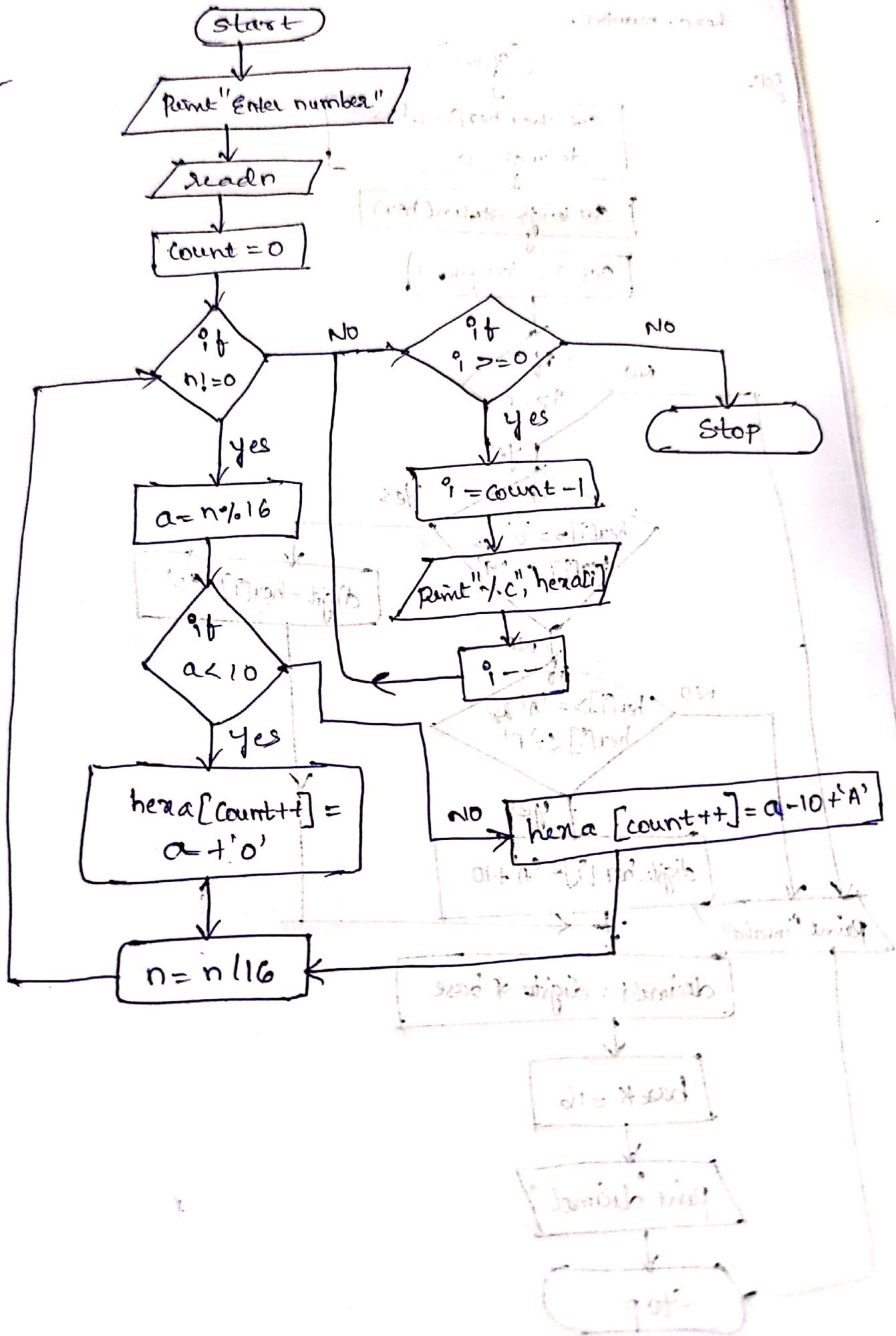


(30) Draw a flowchart to get n no's from the user. Ask the user to enter any one number from those numbers, mark the number which one is used [value is zero].

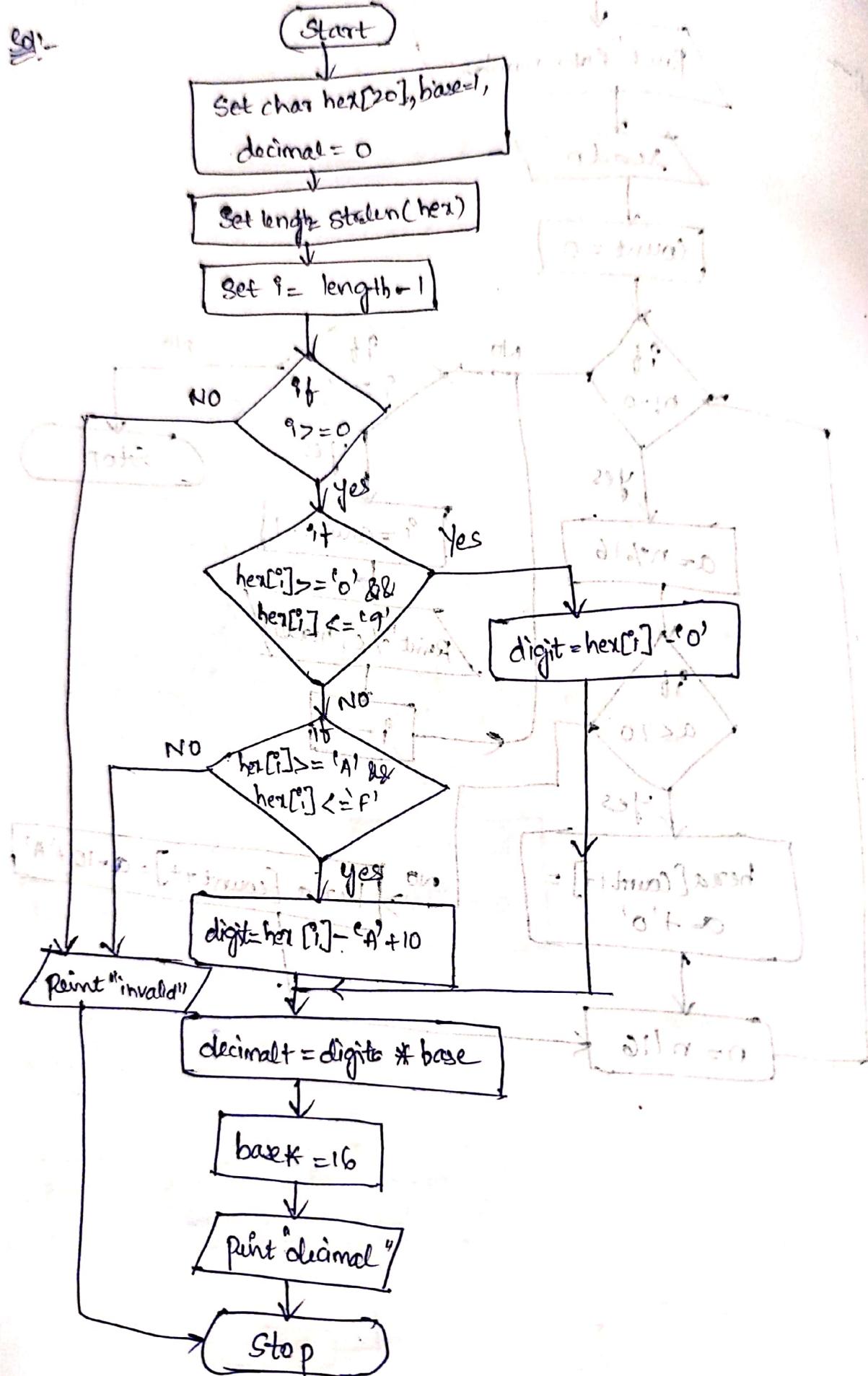
Sol:-



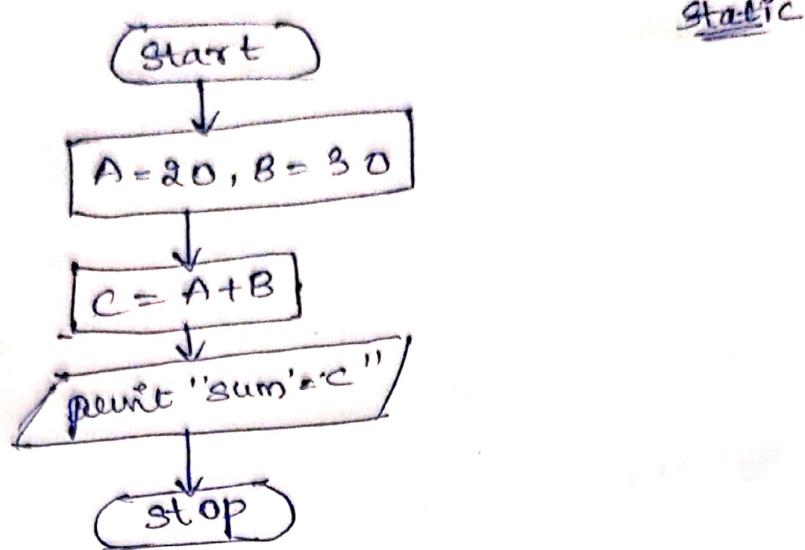
I draw a flowchart to print hexa value of a given number



③ Draw a flowchart to print the decimal value of a hexa-number.



Q) Draw a flowchart for adding of two numbers.



dynamic

