

Assignment NO 1

Q 1 →

Even & odd no.

Flowchart:

(Start)

```

graph TD
    Start((Start)) --> Input[/Take a input from user/]
    Input --> Decision{if(Ans % 2)}
    Decision -- "if Ans == 0" --> Even[/print even no/]
    Decision -- "else Ans != 0" --> Odd[/print odd no/]
    Even --> Stop((STOP))
    Odd --> Stop
  
```

if(Ans % 2)

 if Ans == 0
 else Ans != 0

 print even no
 print odd no

(STOP)

Algorithm:

Step 1 → Start the program

Step 2 → Take a input from user.

Step 3 → Ans = input % 2

if (Ans == 0)

else (Ans != 0)

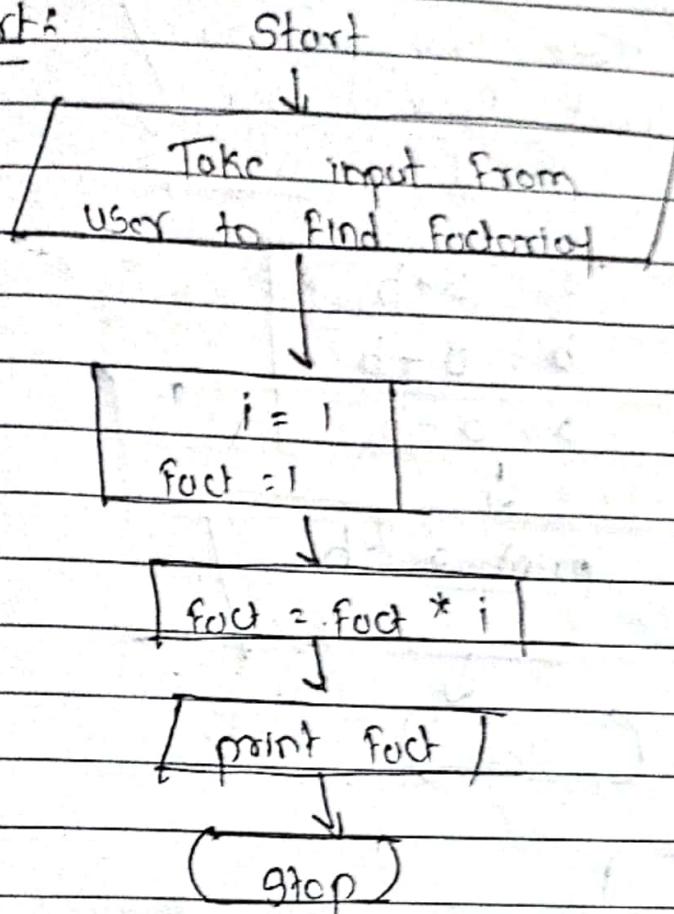
Step 4 → print even if not
then print odd.

Step 5 → End.

Q2

Factorial

flowchart:



Algorithm:

Step 1 → Start the program.

Step 2 → Take a input from the user.

Step 3 → multiply each digit & update final value.

Step 4 → Find end value.

Step 5 → End

Q) Swapping
Numbers

(Start)

↓
Take two no's
input from user.

↓

$$a = a + b$$

$$b = a - b$$

$$a = a - b$$

↓
print a & b

↓
(Stop)

Algorithm

→ Step 1 → Start the program.

Step 2 → Take a input from user
two no.

Step 3 → add two no on step 1

$$a = a + b$$

$$\text{and } b = a - b$$

$$a = a - b$$

Step 4 → Stop

Flowchart :

(Start)



Take a input of year
from user



if $\text{Ans} = \text{year} \% 4$

$\text{Ans} = 0$

if $\text{Ans} = \text{year} \% 100$

$\text{Ans} = 0$



print is leap year

if condition Match



(end)

Algorithm :

Step 1 → Start the program.

Step 2 → Take input from user as
a year.

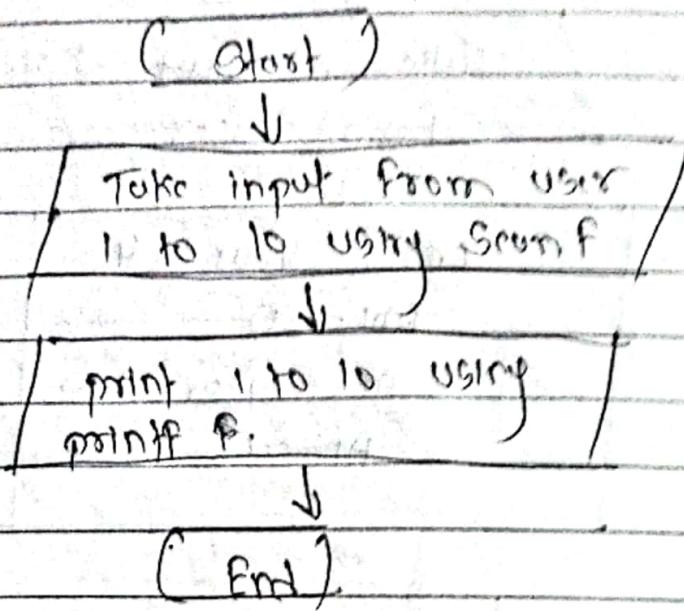
Step 3 → check the condition if
 $\text{year} \% 4$ & $\text{year} \% 100$
remainder '0'

Step 4 → print it leap year otherwise
not leap year.

Step 5 → Stop

Q) print 1 to 10

Flowchart:



Algorithm:

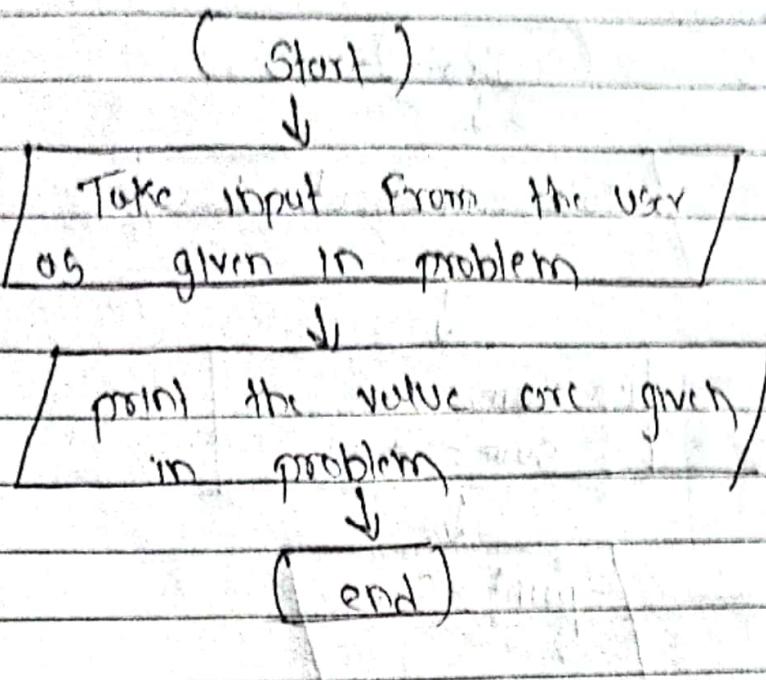
Step 1 → Start the program
Step 2 → Scan the 'input' from user
1 to 10.

Step 3 → printf %d print the value
from 1 to 10 take..

Step 4 → Stop.

8) print digit

Flow chart:



Algorithm:

Step 1 → Start the program.

Step 2 → put the digit which is given in the problem as input.

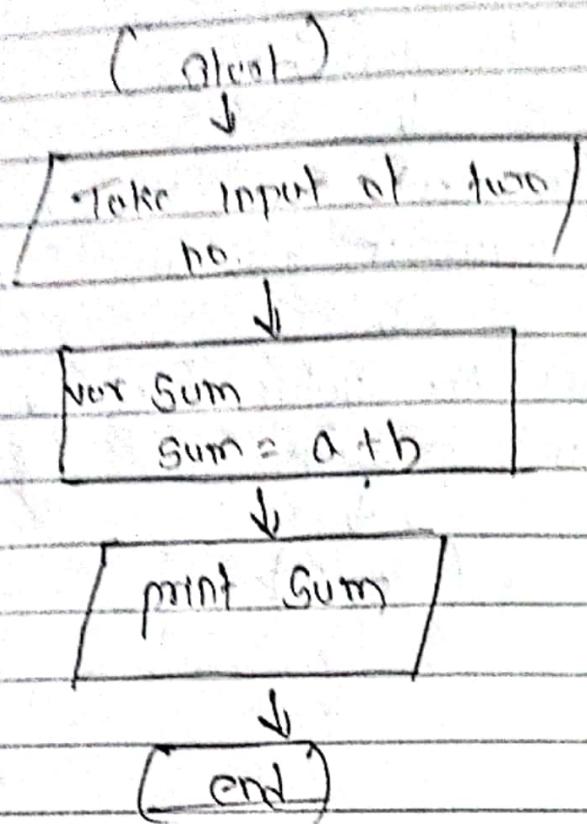
Step 3 → point the digit one given

Step 4 → Stop.

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Addition

Flawchart :



Algorithm

Step

Step 1 : Start the program

Step 2 : Take the input of two no from user.

Step 3 : Initialize third variable which store the sum = a+b

Step 4 : print the sum

Step 5 : End.

Step 1 : Start

Step 2 :

(Start)

↓
Give the input of 3
to the program

↓
compare 3 no
 $a > b \ ?$ using if
 $b < c \ ?$ else

↓
print the
output

↓
(STOP)

Algorithm : Input and Output

Step 1 : Start the program

Step 2 : Take a input from user or give

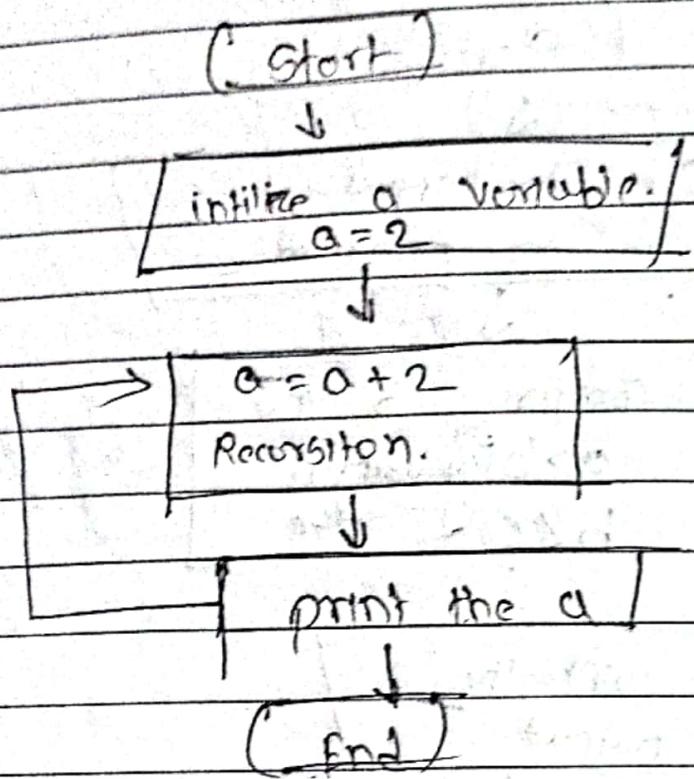
Step 3 : compare 3 no to each other

Step 4 : print the output

Step 5 : Stop.

19) Even no Series.

Flowchart:



Algorithm:

Step 1 : Start the program.

Step 2 : initialize the variable. $a=2$

Step 3 : $a = a + 2$ and repeat this

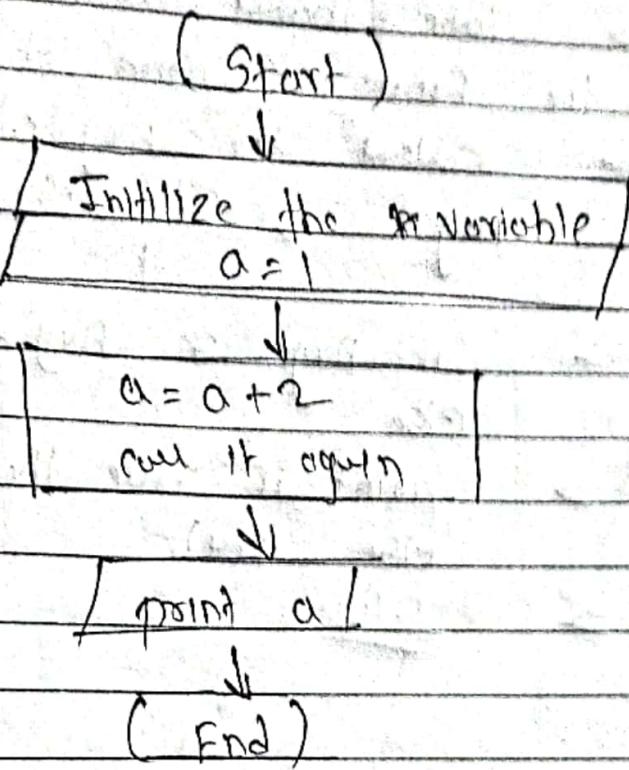
process

Step 4 : print the number

Step 5 : Stop

no> odd no.

flowchart :-



Algorithm :-

Step 1 : Start the program

Step 2 : initialize variable $a = 1$

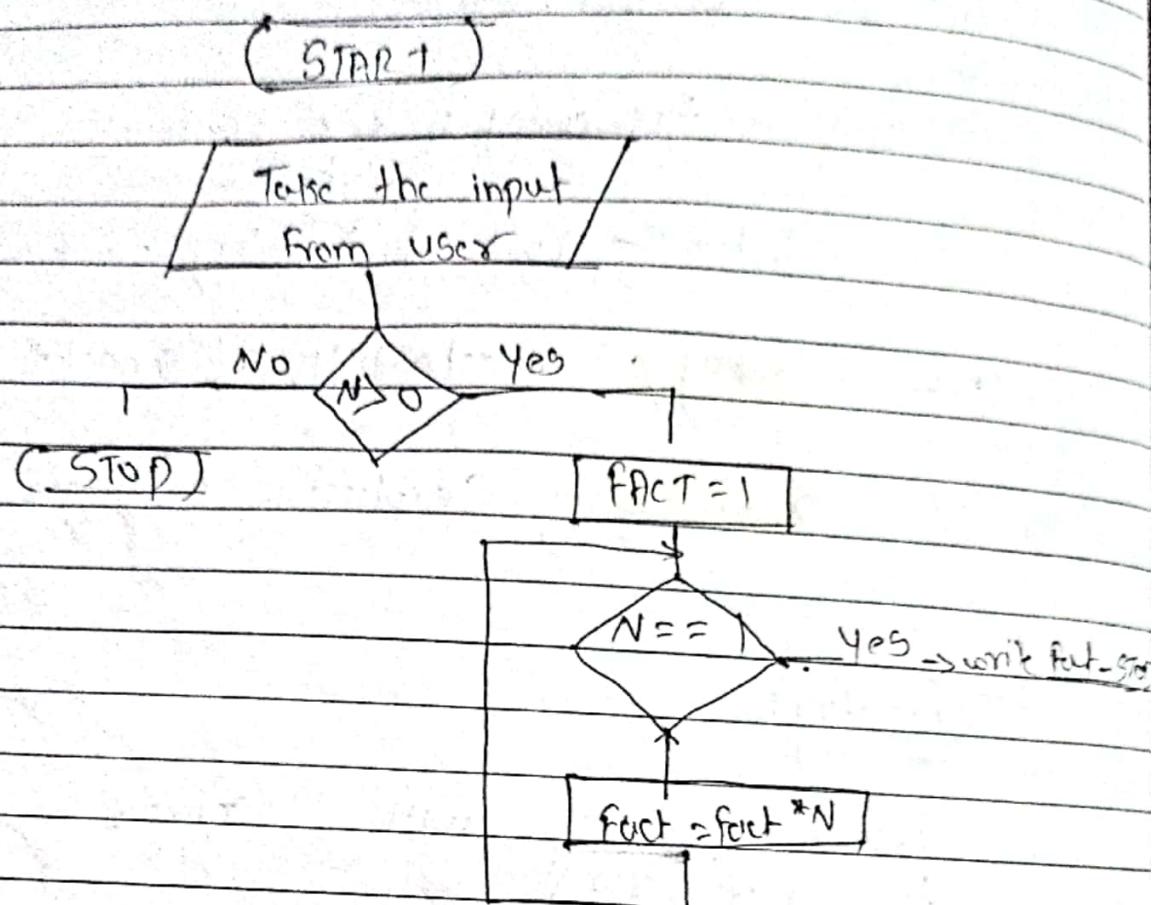
Step 3 : $a = a + 2$ and, run it again &
again

Step 4 : point no.

Step 5 : STOP.

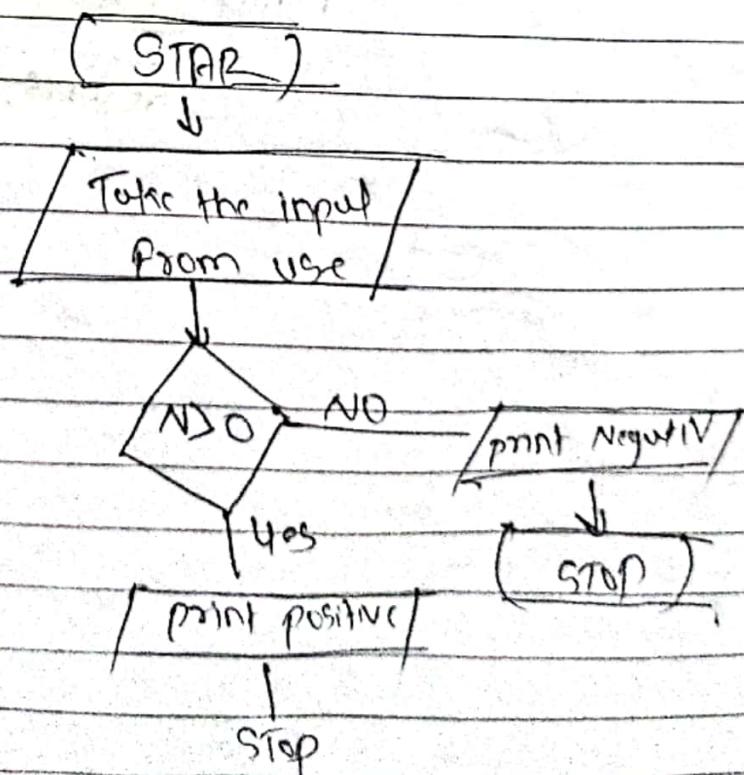
(3)

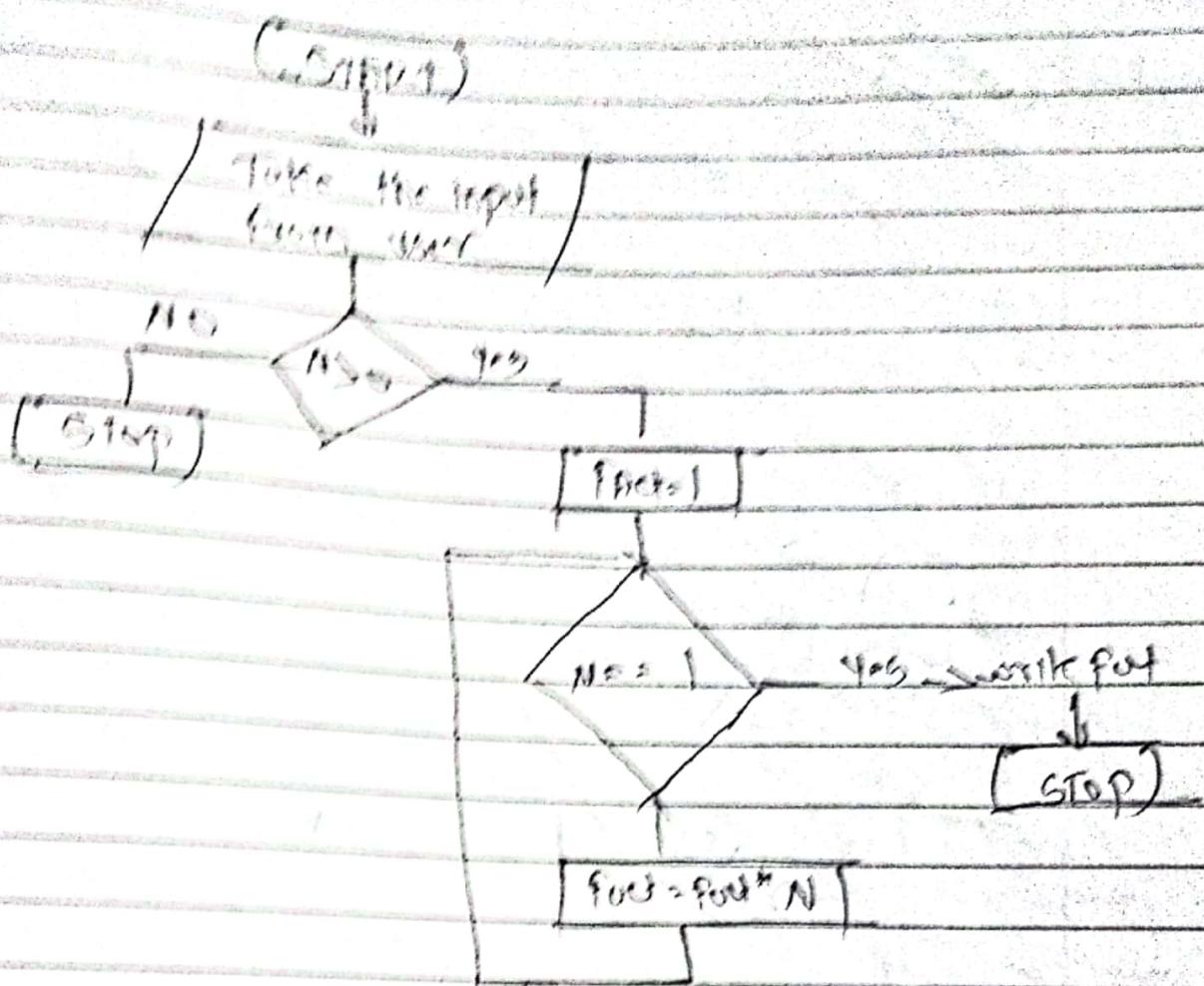
Recursion :



(5)

positive Negative.





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Step 1 : Start the program

Step 2 : Take in m from user. 2 , 4

Step 3 : $i=2; i++$

Step 4 : Repeat it up to three

Step 5 : STOP

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Reverse E

(Step)

Take the steps

↓

No. 2

No > 1 → No

Yes

No. 1	
No > 1 →	
Number = 7.10 8	
Number = 16 / 10	

No. 3

Press

(Step)

14

GCD

(Step)

↓

Take the most of

of 3 no. for

No. 1 > No. 2

Yes

No. 2 > No. 3

Yes

No. 1 > No. 3

Press

No. 1

No. 1

No. 2

No. 3

Press

Press

No. 1 is greater

Press

No. 1

No. 1

No. 2

No. 3

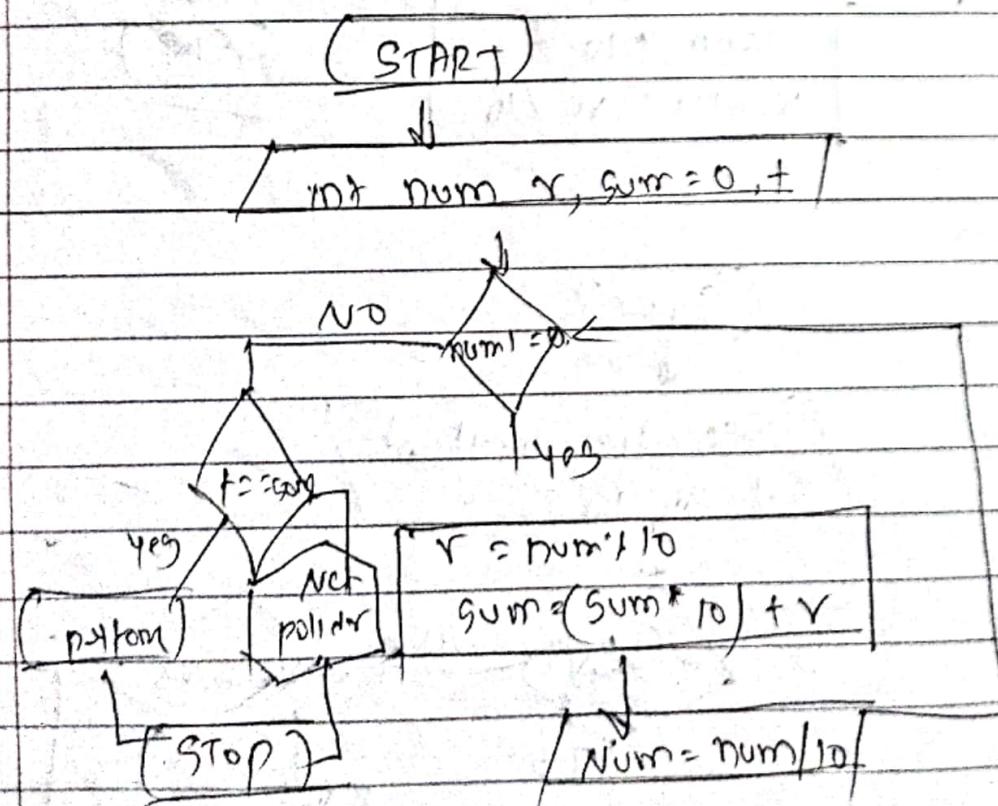
Press

15.

LCM of two numbers

- (1) Start
- (2) accept two numbers
- (3) IF $N_1 > N_2$ LCM N_1
else N_2 LCM.
- (4) validate LCM is divisible by both N_1 & N_2
- (5) IF divisible print LCM of two numbers.
- (6) else the value of LCM is incorrect.
- (7) Stop.

175 Check no. is palindrome or not.

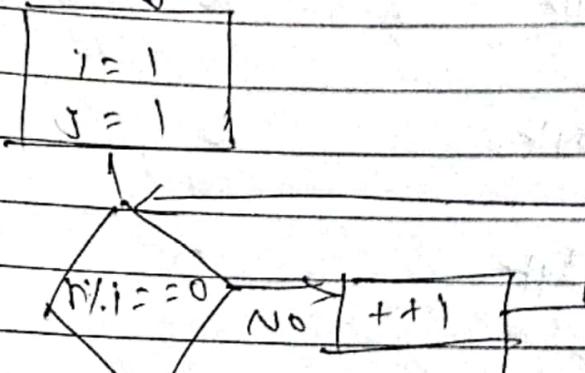


18 print factors of given no

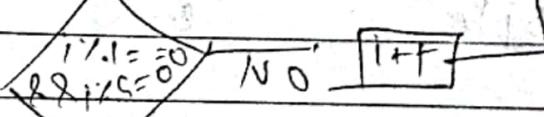
(START)



Accept number.



Yes



Yes

