Date: 01/03/22

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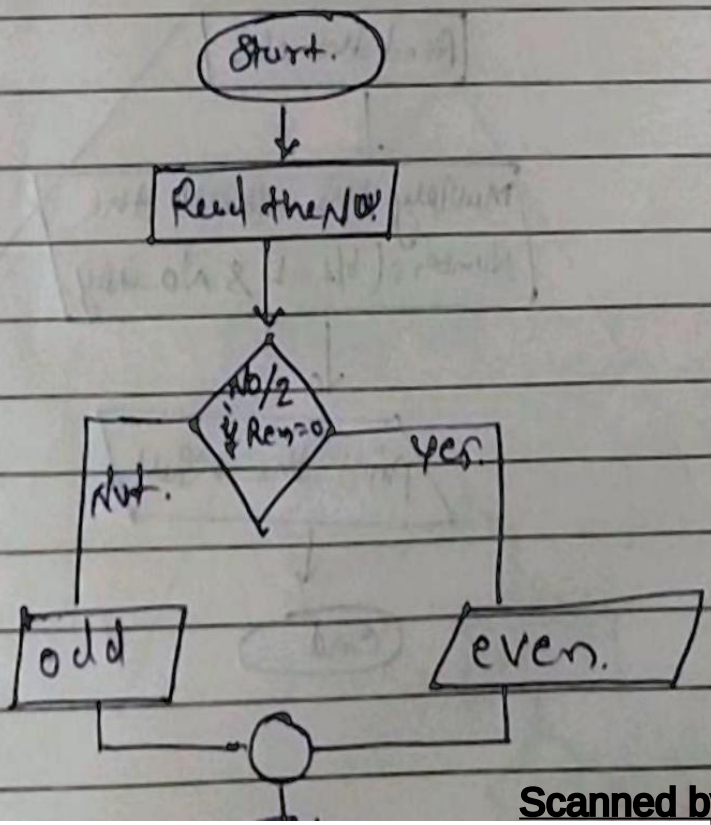
Assignment → 1

Q.1 Check the given Number is Even or odd.

Algorithom.

Step 1 → Start.
Step 2 → divide the number by 2
Step 3 → Check the remainder.
Step 4 → if remainder is 0 ~~go to Step 5~~.
Step 5 → then print even and goto step 8
Step 6 → if remainde is not 0
Step 7 → then print odd
Step 8 → End

Flow chart.



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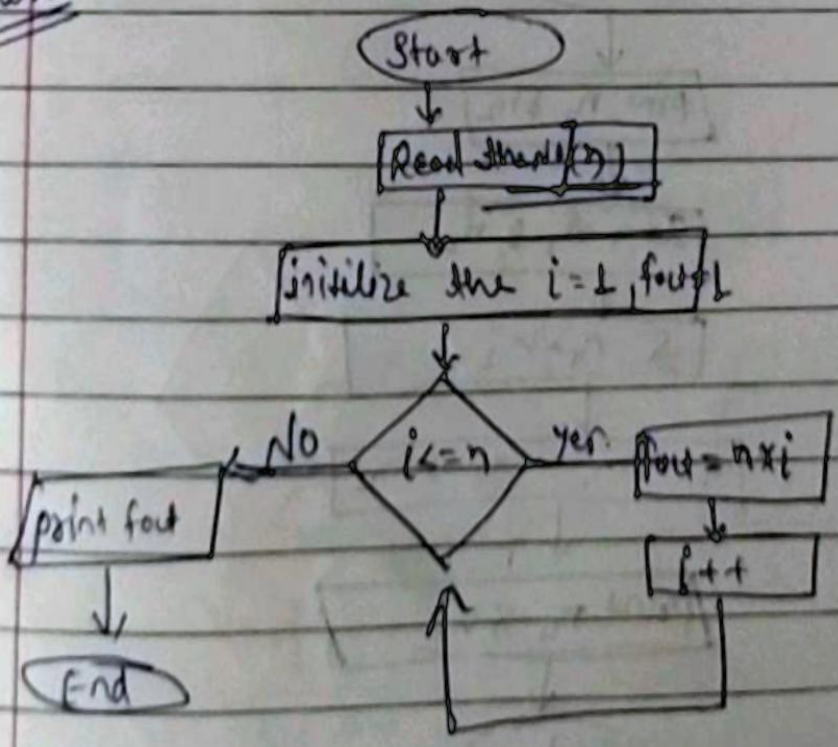
Q2 W.r.t. a program to find factorial of number.

Algorithm

Step 1 Start
Step 2 Read the number n
Step 3 initilize the variable $i = 1$
Step 4 if $i <= n$ then step 5 other wise go to step 8
Step 5 fact = $n \times i$
Step 6 Increase the value of i
Step 7 again go to step 4
Step 8 print the value of Factorial
Step 9 End

flow chart



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Q3 find the factorial of a number using recursion.

Algorithm

Step (1) Start

Step (2) Read the number.

Step (3) Call the factorial(n)

factorial(n)

if factorial(n=1)

return 1

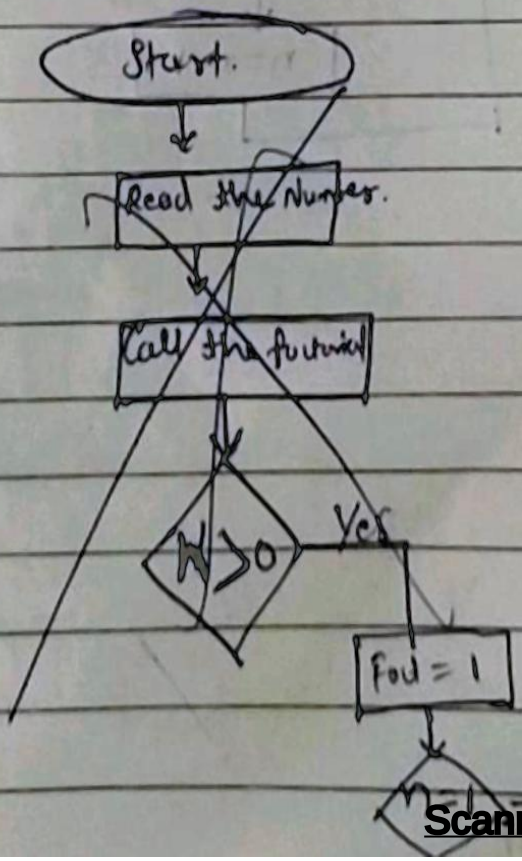
else

factorial = n x (n-1)!

Step (4) print factorial Value

Step (5) End

Flow Chart



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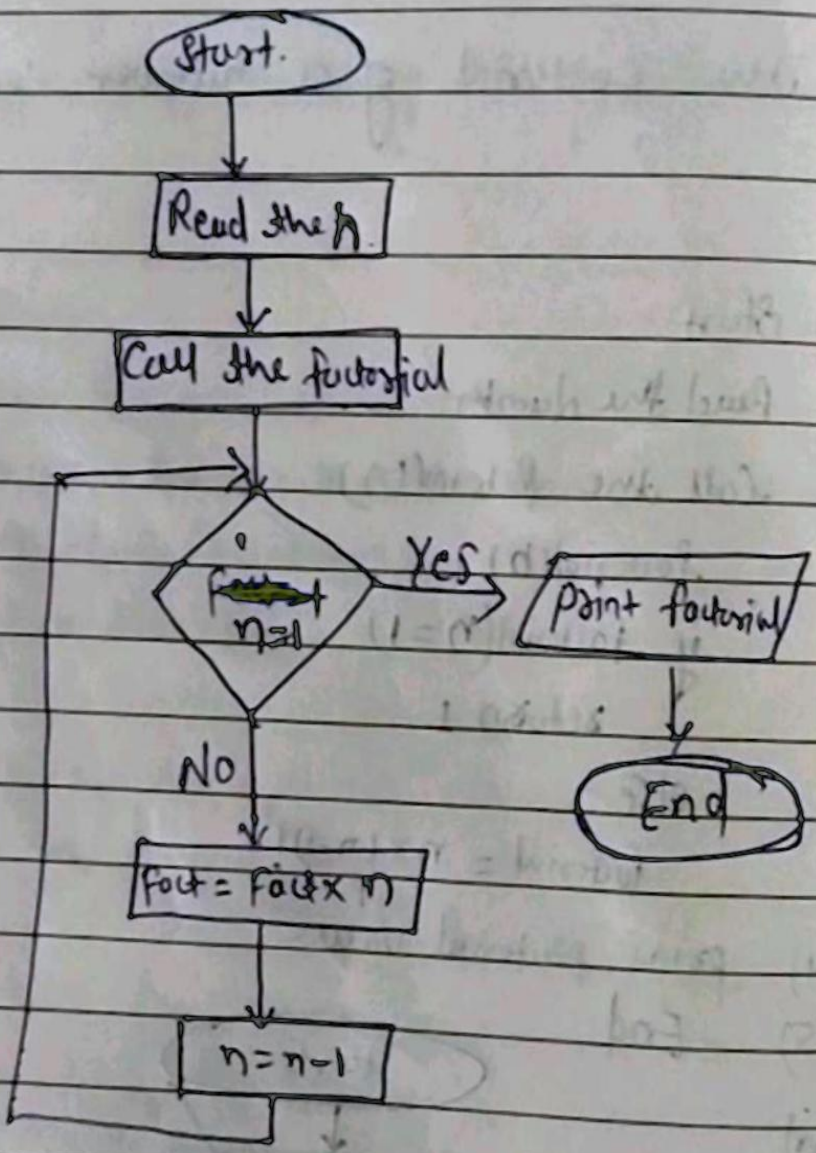
Flow Chart



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④ Swap two Numbers using without using third variable approch.

Algorithm

Step 1 Start

Step 2 Enter the Numbers (N_1 N_2)

Step 3 Read the Numbers

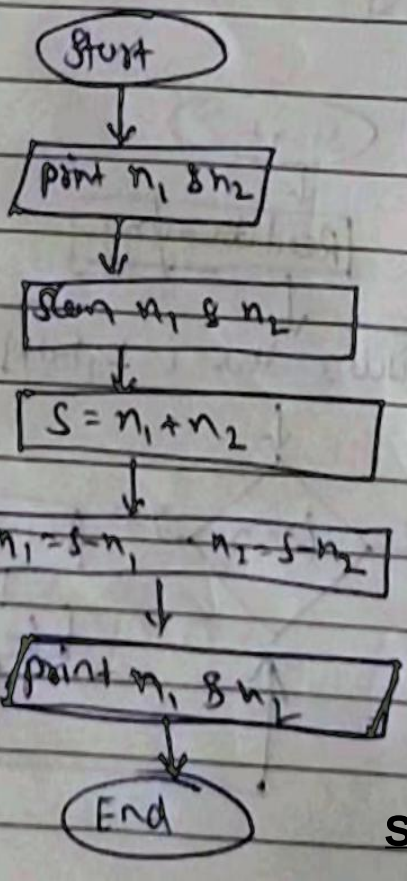
Step 4 Add both the Numbers (S)

Step 5 $N_1 = S - N_1$, $N_2 = S - N_2$

Step 6 print N_1 & N_2

Step 7 End.

flow Chart



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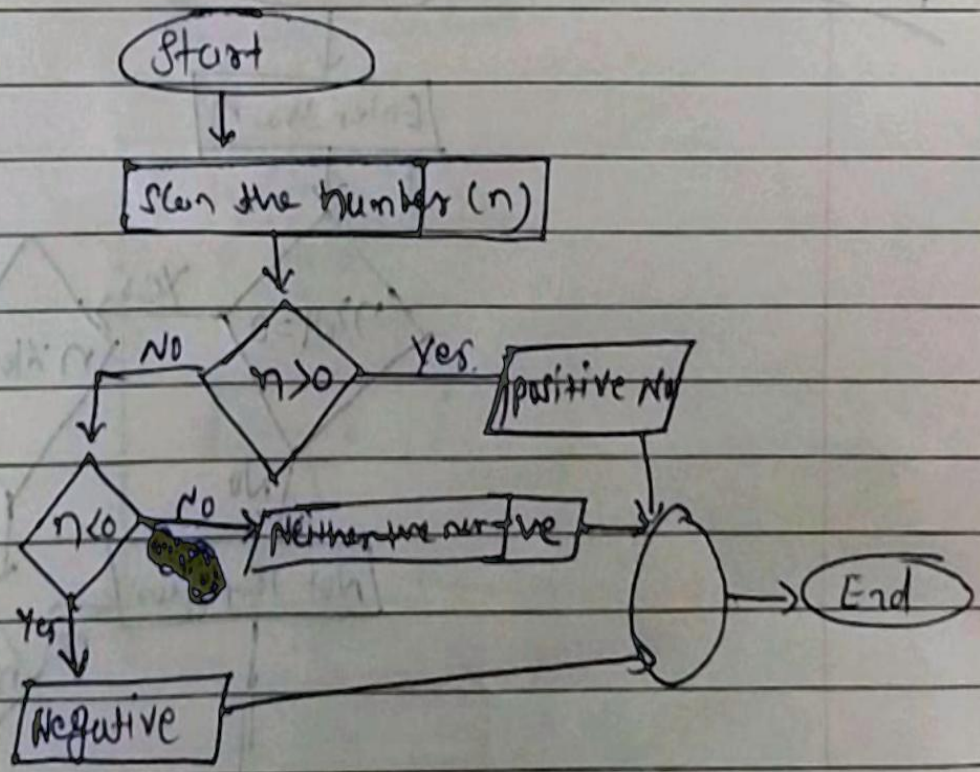
⑤ How check the given Number is positive or Negative in java.?

Algorithm.

Step 1 Start
Step 2 Read the Number (n)
Step 3 if (n>0) else go to step 5
Step (4) print positive number. go to step 8
Step (5) print if (n<0) else go to Step 7
Stp (6) print negative Number. go to step 8
Step (7) print neither positive nor negative.
Stepe(8) End

Flow Chart



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Q.6 Write a program to find whether given number is a leap year or Not.?

algorithum

Step 1 Start.

Step 2 Scan the number.

Step 3 divide the Number by 4 if R=0 then Step 4 Otherwise Step 5

Step 4 Check whether the No. is multiple of 100 if Not Step 6

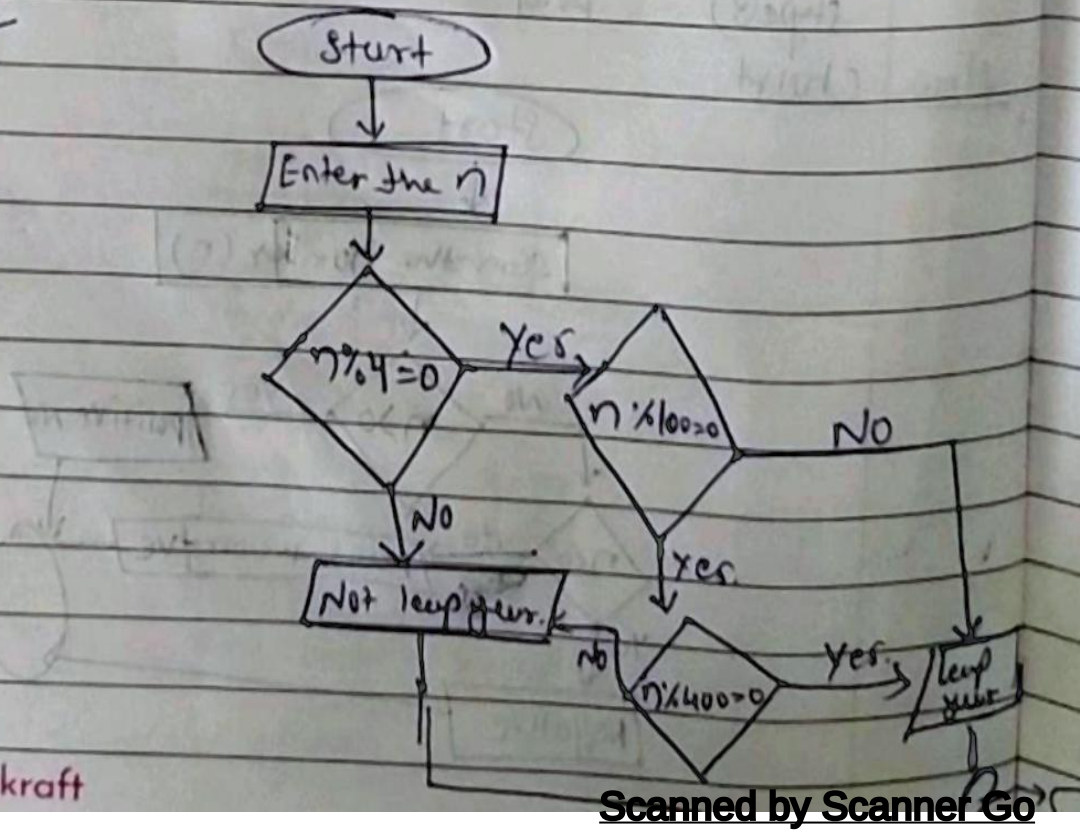
Step 5 divide the Number by 400 if R=0 then if Not Step 7

Step 6 print leap year. Otherwise

Step 7 print Not a leap year.

Step 8 End.

flow chart



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Q.7 W.t.p java program to print 1 to 10 without using loop.

algorithem.

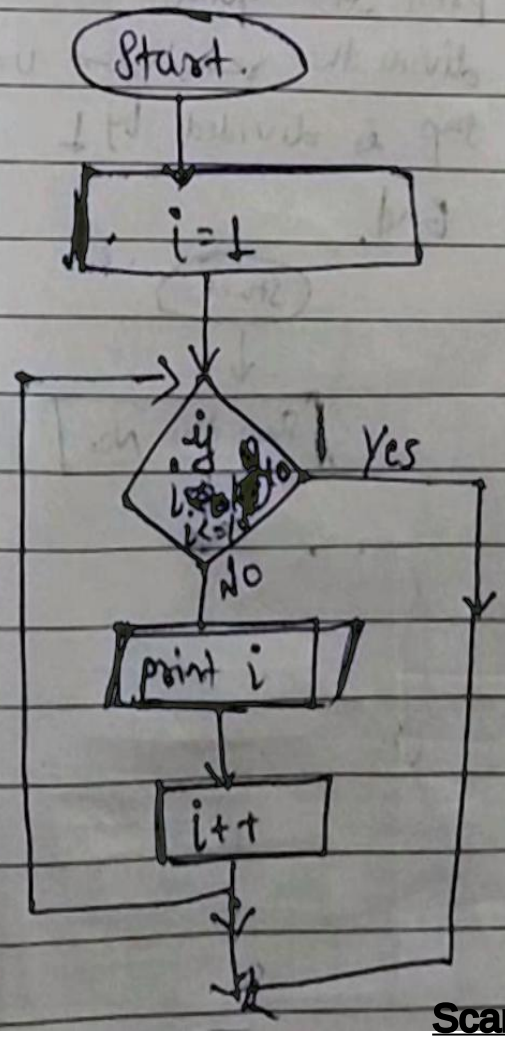
Step 1 Start

Step 2 intillize i=1

Step 3 for(i=1 i<=10 i++)

Step 4 print(i);

Step end;



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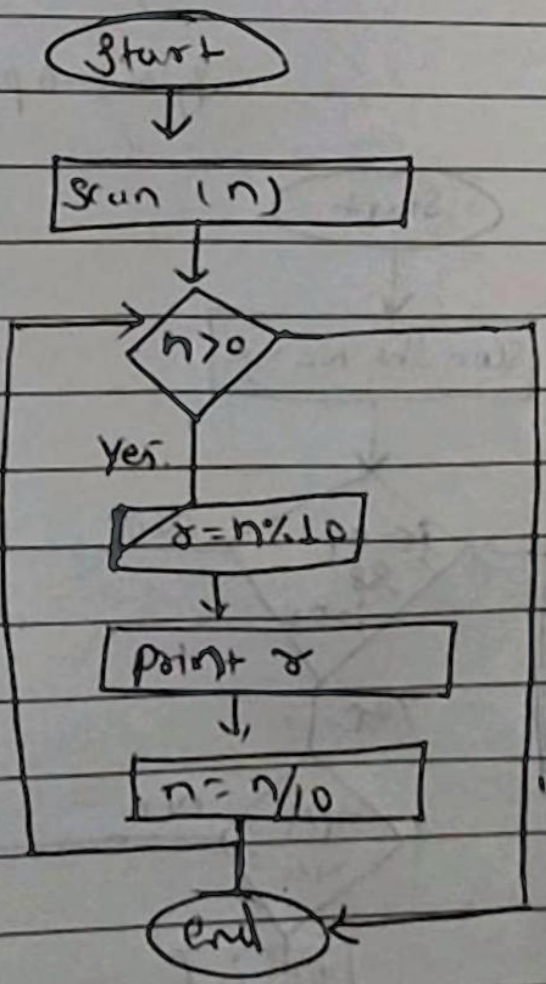
8 Wacp a program to print the digits of a number

Step 1 Start
Step 2 Scan the number
Step 3 divide the number by 10 ($n>0$)
Step 4 print remainder
Step 5 Save $n = n/10$;
Step 6 again go to step 3 with n
Step 7 Stop.



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factors of the No.

Q) algorithm

Step 1 Start

Step 2 Scan the Number

Step 3 ~~Divide the number~~ initilize i=1

Step 4 ~~provide~~ if if N%i=0 i++

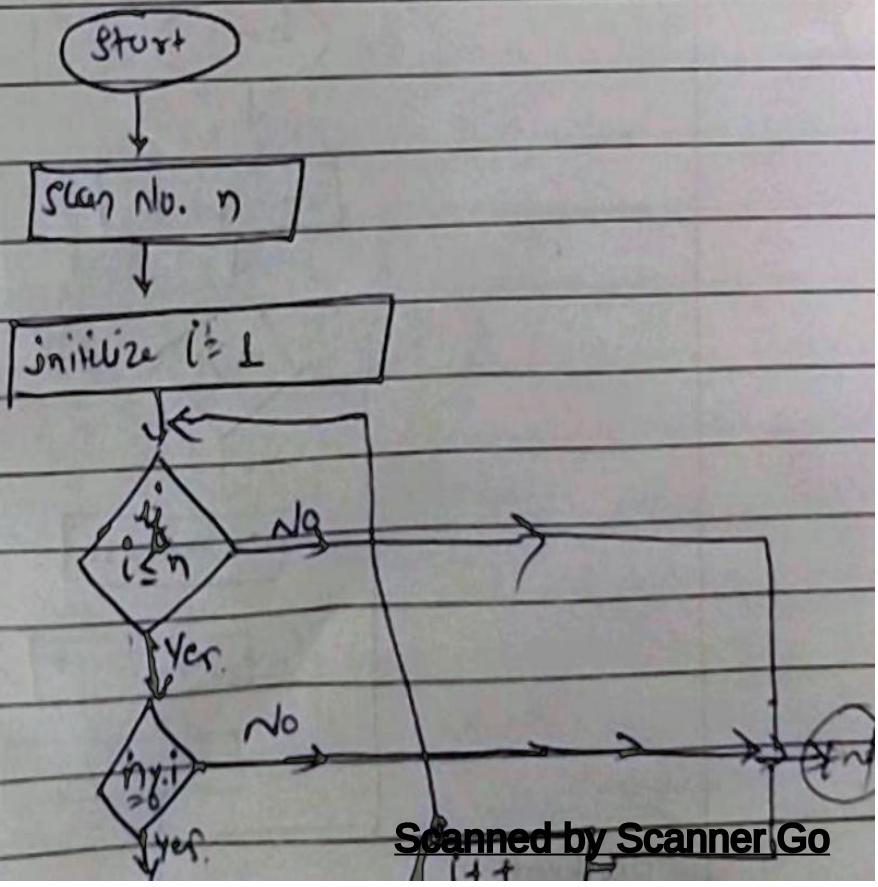
Step 5 ~~again go step~~ print i again go to step 4

Step 4 if N%i≠0 without printing go to step 4

Step 5 repeat the process till i=N

Step 6 End.

flow chart



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Q.10 W.r.t. a program to find sum of the digits of a given Number.

algorithm

Step 1 Start

Step 2 Scan the Number n

Step 4 if $n > 0$ if not goto step 8

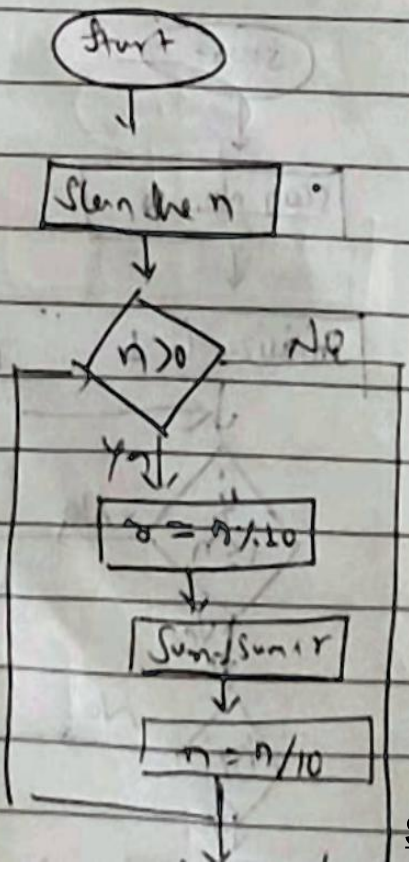
Step 5 $m = n \% 10$

Step 6 Sum = Sum + m

Step 7 Remainder = m again goto 5

Step 8 print Sum

Step 9 End



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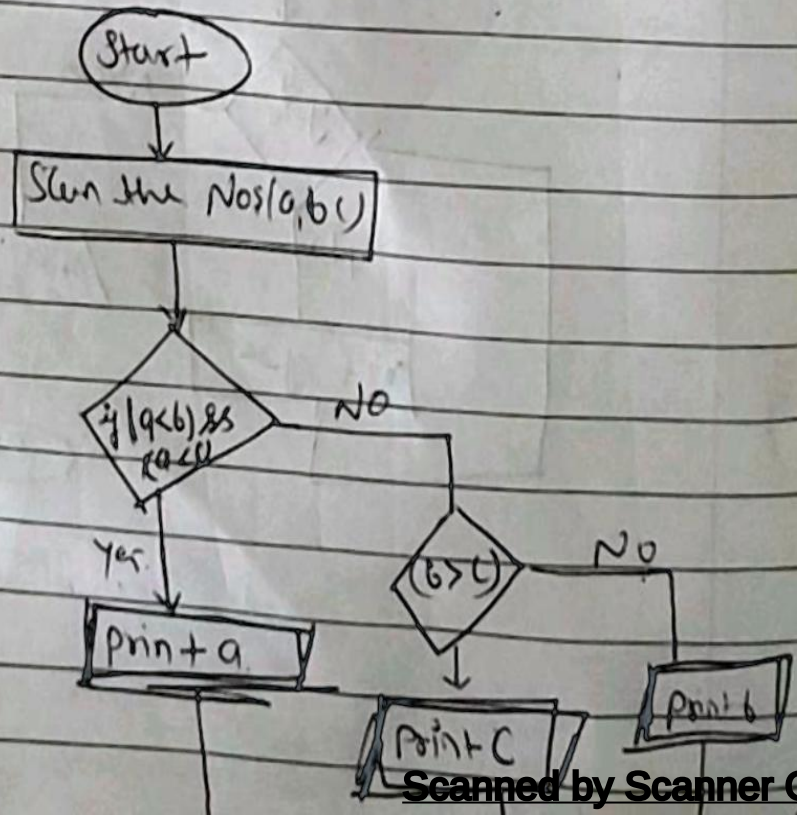
11 3 No is is Smallest.

algorithm.

1. Start.
2. Given the Numbers a, b, c
3. if (a<b) && (a<c) if not go to step 5
4. print a go to step.
5. ~~if~~ else
6. if (b>c) if not go to step 8
7. print c
8. print b
9. End.



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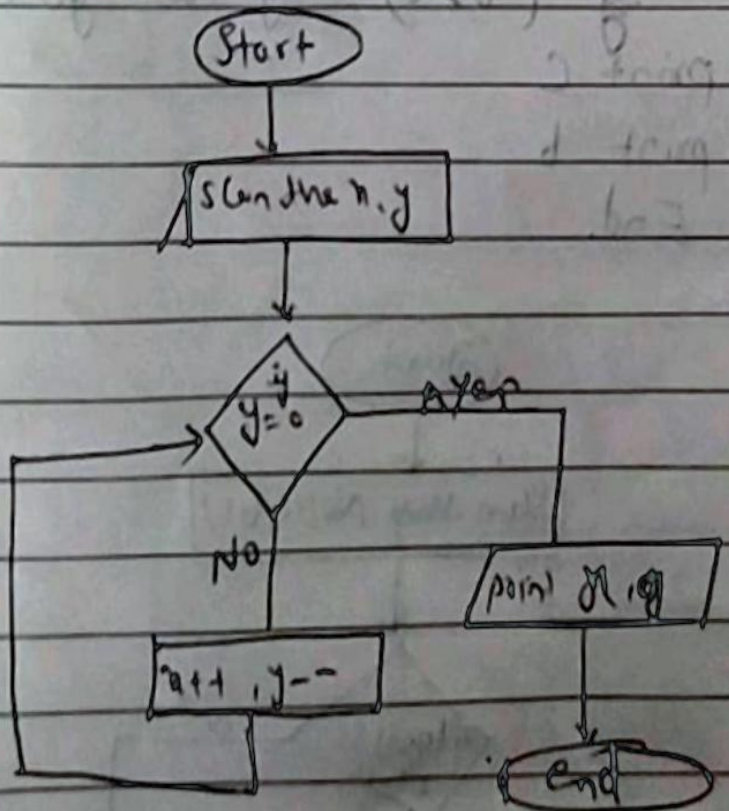
(12) add No without using arthmatic operater.

algorithm

1. Start
2. Scan the two number.
3. x++ , y--
4. perform till y=0
5. print x
6. end.



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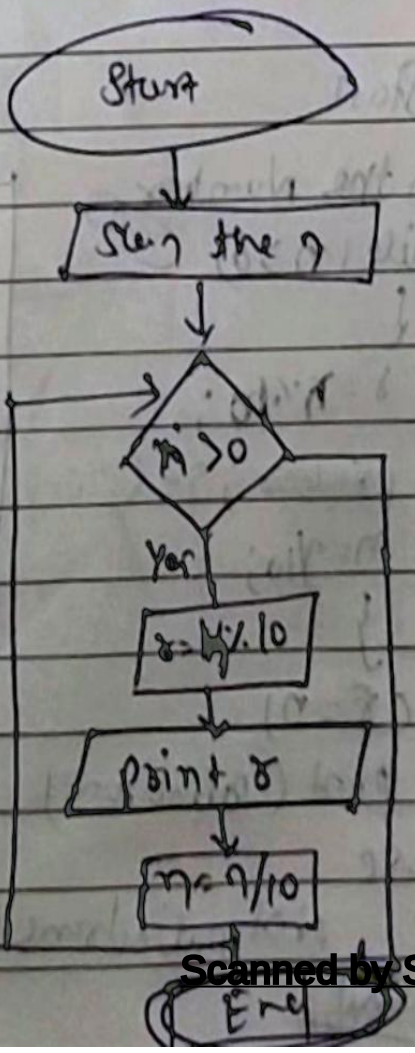
(13) Reverse the number.

1. Start
2. Scan the no. define int n, r
3. while (n > 0)
4. r = n % 10
5. print r
6. n = n/10
7. again go to step 3
8. End.

```
Start
Scan the no.
While loop (N > 0)
{
    r = N % 10;
    print r
    N = n/10;
}
```



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~~8/17~~

~~8/16~~ Prog to find the gcd of 2 Nos.

Algo

Start

Scan the Numbers (n_1, n_2)

initialize (gcd)

for(i=1; i<=n_1 && i<=n_2; i++)

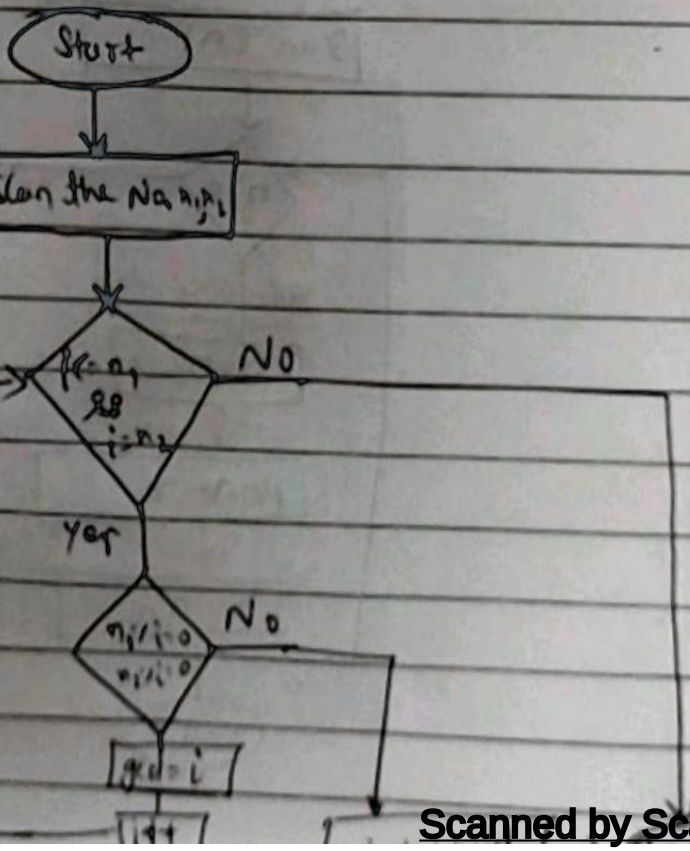
{

if (n_1%i==0 && n_2%i==0)

gcd = i;

}

print gcd



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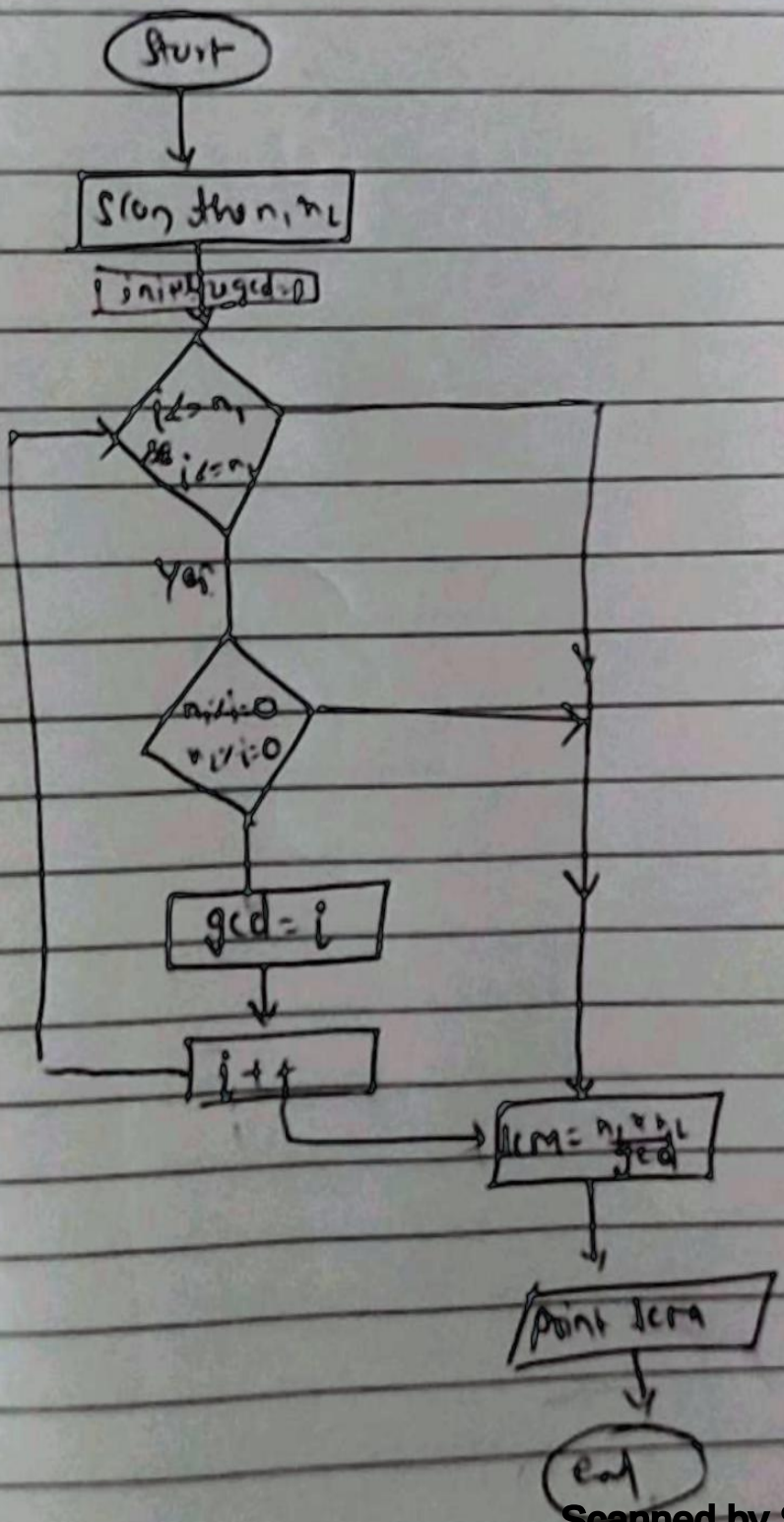
Q. LCM of two Numbers



Start

Scan both the number n, & n,

Run the loop for 1 to max n,

check whether the number di

the Empty or not

Palindrome

Start

Scan the Number

while (n>0)

{

r = n%10;

S = (S*10)+r

n = n/10;

}

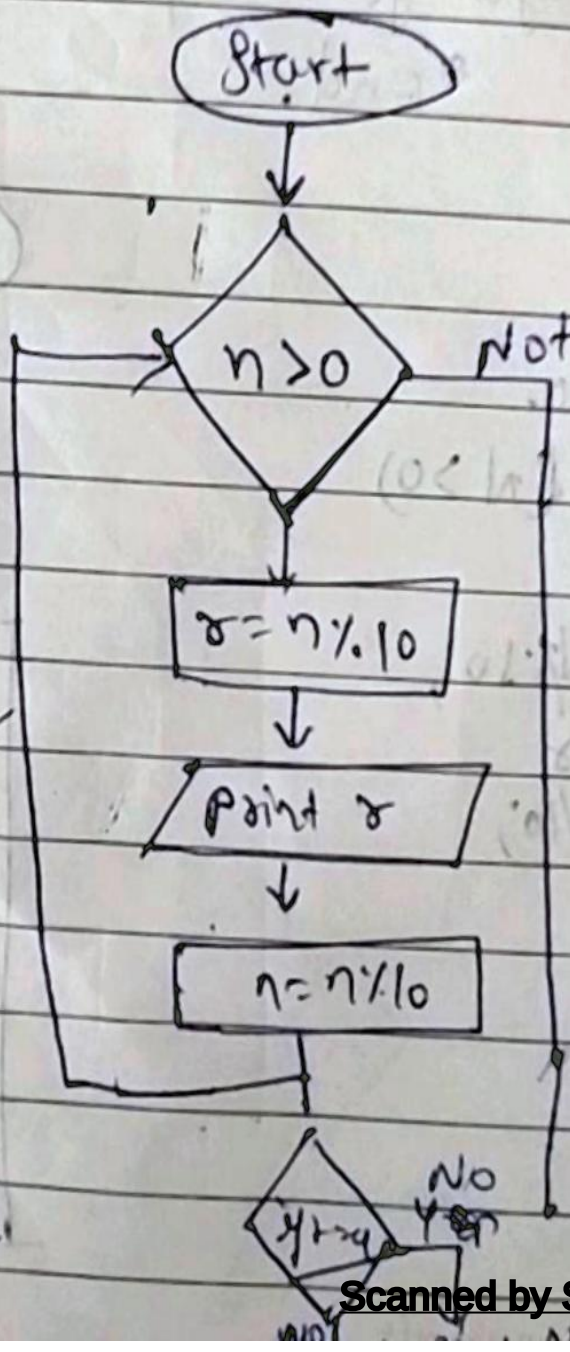
if (S = n)

print (Palindrome)

else

Not palindrome.

End



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(19) To print the following series even number series 2,4,6 8 10 12, 16 - - -

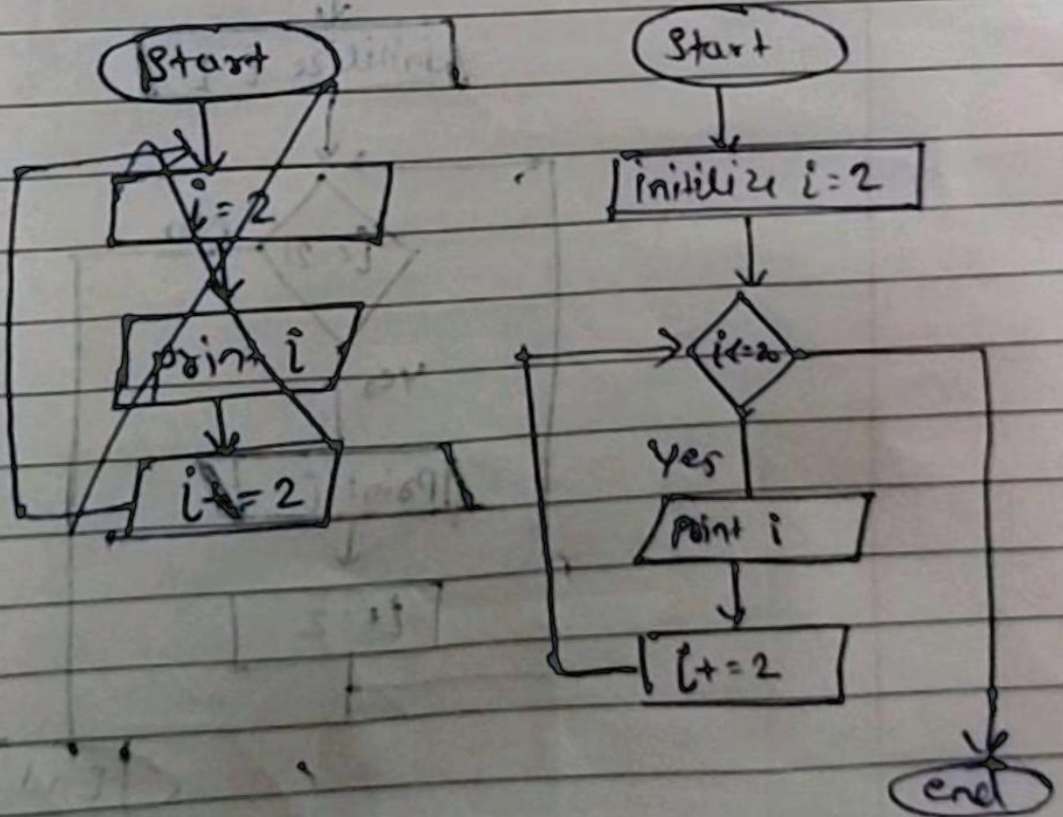
Start

infor(i=2; i>=20; i=i+2)

print i;

End.

flow Chart



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(20) To print the following series odd series
1, 3, 5, 7, 9 - - -

Step 1	Start	Start
Step 2	for (i=1; i+=2)	initilize i = 1, Condition i<=21, i+=2;
Step 3		print i
Step 4	print i;	End.

flow chart