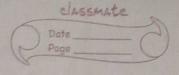
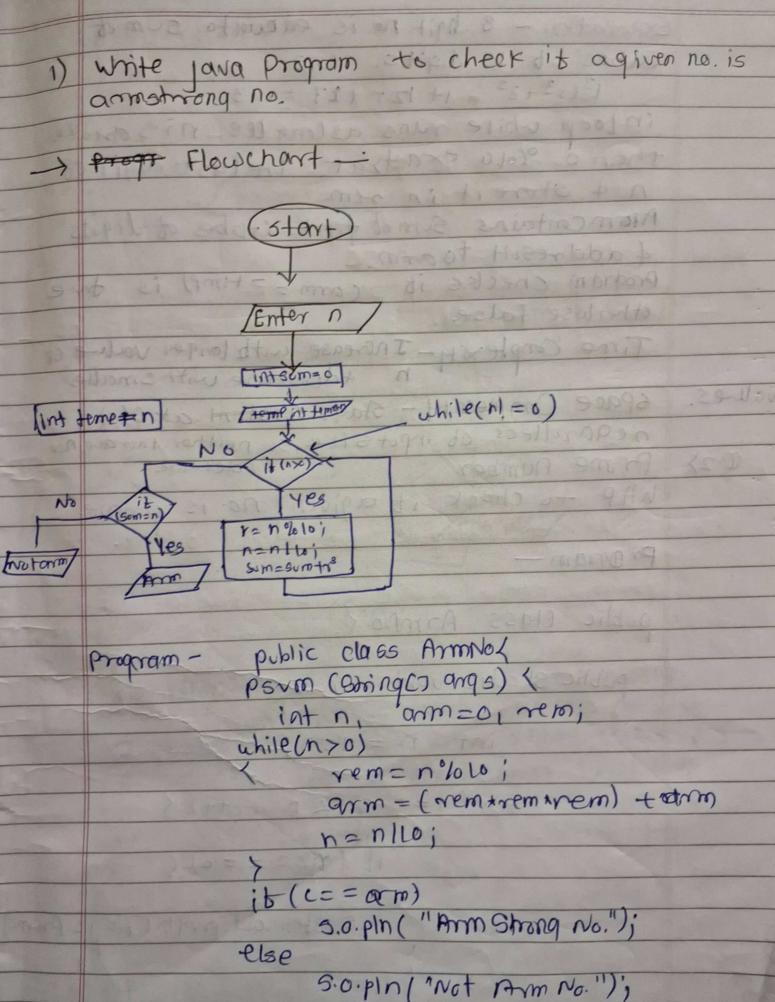
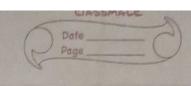
* + +96 igamment -1*



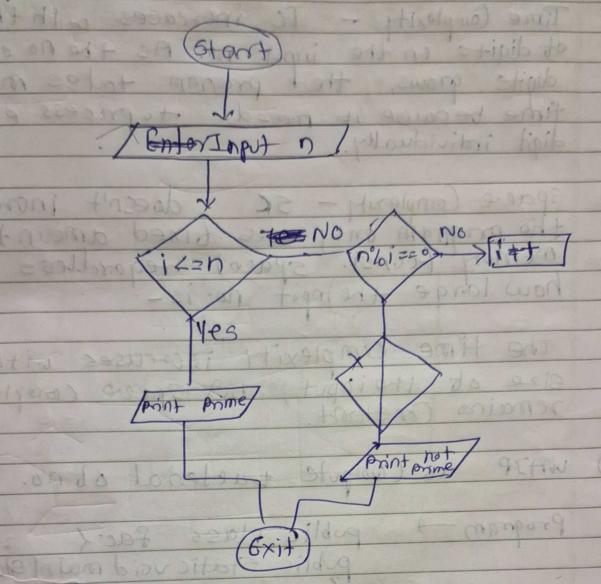


*1- tiponique + Explanation - 3 digit no. is earned sum of Cubes ob its digits. 1530 mm 13t53+33 = 1+ 125 +27 = 153 in loop while runs aslong les nis quater their o. % old exacts at the last digit of n 4 store it in rem. Ammentains sum of figits cribbes of digits 4 addresult to arm.

Arognam cheeks it com = = +tmp) is fre otherwise false. Time Complexity-Increase with larger value of a 4 decrease with smaller space Complexity - stays constant at 0(1) values. regardless of inputsize iso neither increase non denase. Prime number (0.2) WAP to check it agiven no is prime. Program public class ArmNo.? regreen public class Armhol public static void main int n, - 'anni-en nemi int n = (053) Plints 1 3:101° 11 = 111 = 1 anti- (mentar (i=+ minist h ; i++), } ib (81%2 = = 0) { il" on small man") alg & ystem. out. println ("No. is Prime) ((" or are) for jan 100 it (i=n) < println("prime");



Flow chart



Explanation - prime no. is is divide by only

itselt ax onel.). In this program

itselt ax onel.). In this program

I took one variable n 4 strore value is 3

I use for loop 4 check birst (andition,

it no. module by 2 it gives non prime no.

after loop completion it no. equalito

yiven no. print prime.

Output 153 is prime no.

Time Complexity - To increases with the no. of digits in the input no. As the no. of digits grows, the program takes muse time because it needs to process each digit individually.

space Complexity - SR doesn't increase the program only uses tixed amount ob memory (const. space) regardless of how large the input no. is-

The time complexity increuses with size of the input, but space complexity remains constant.

(P.3) WATP to Compute tuctorial obno.

Program - public class facil

public static void main [String anysi]

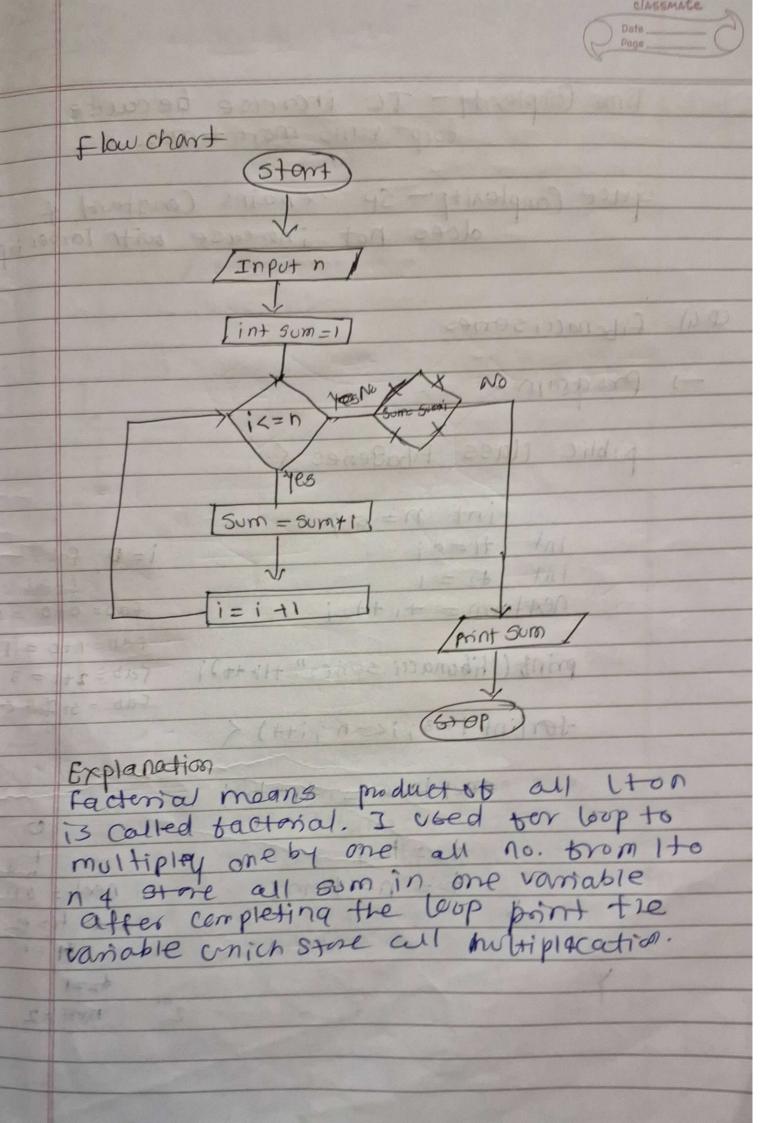
int somer;

I for (i=10) ico; i+1)?

time som single som six som i

System.out.pointla l'Fac is "+ sur

Eutport 15312 points por



Date
because
beause mes.
Constant 4
Constant 4 p with longer input
i=0 fab=0
i=0 fab=0 i+fab
fab= 0+0 = 0
fab=1+0=1
fab = 2+1 = 3
Fab = 3+ 3(x) 6
ð
HALMAN
नि विकार्
99/100 270
algitlum 1, to
next = 0 +1=1

1 + 1=+2

NOT = 2

int n=5; int +221 nexterm = +1++2; 1+ =1 print ("fibonacci series" +++++) i tor/int i=3; i <= n; i++) < next term = +1++2; tactorial. I veed you loop to the trip to the prince of the

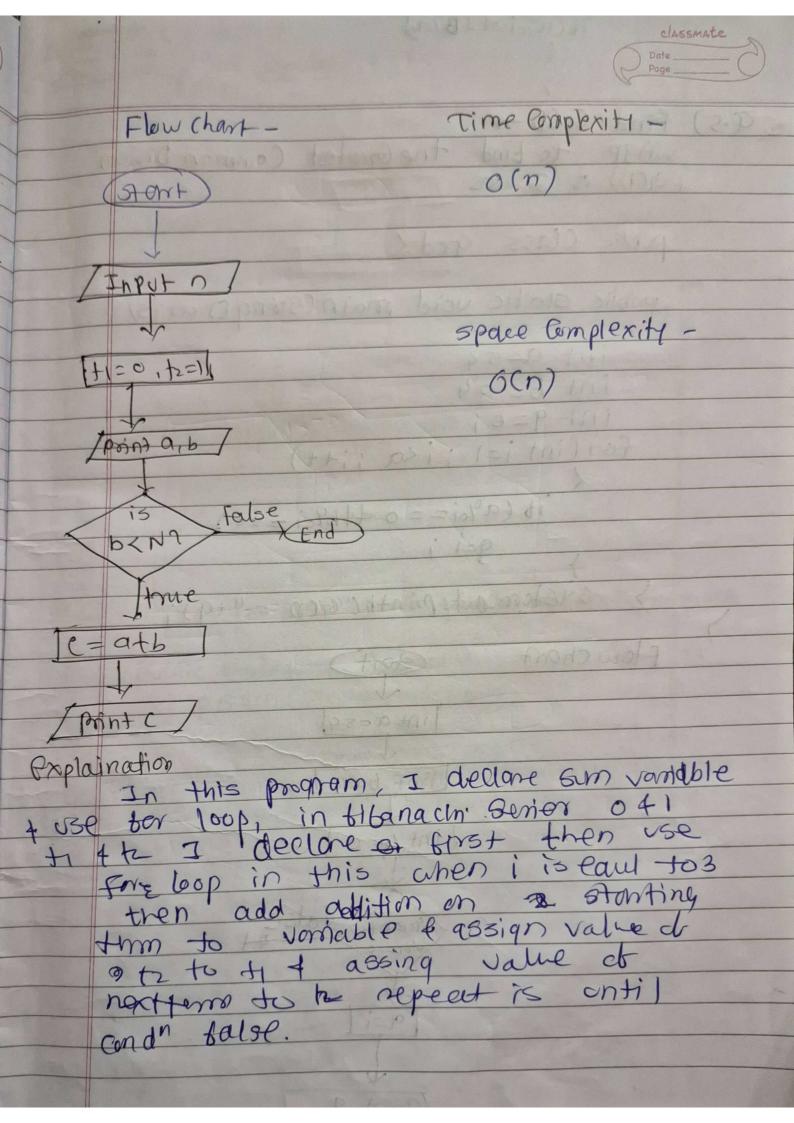
Time Complexity - TC increese

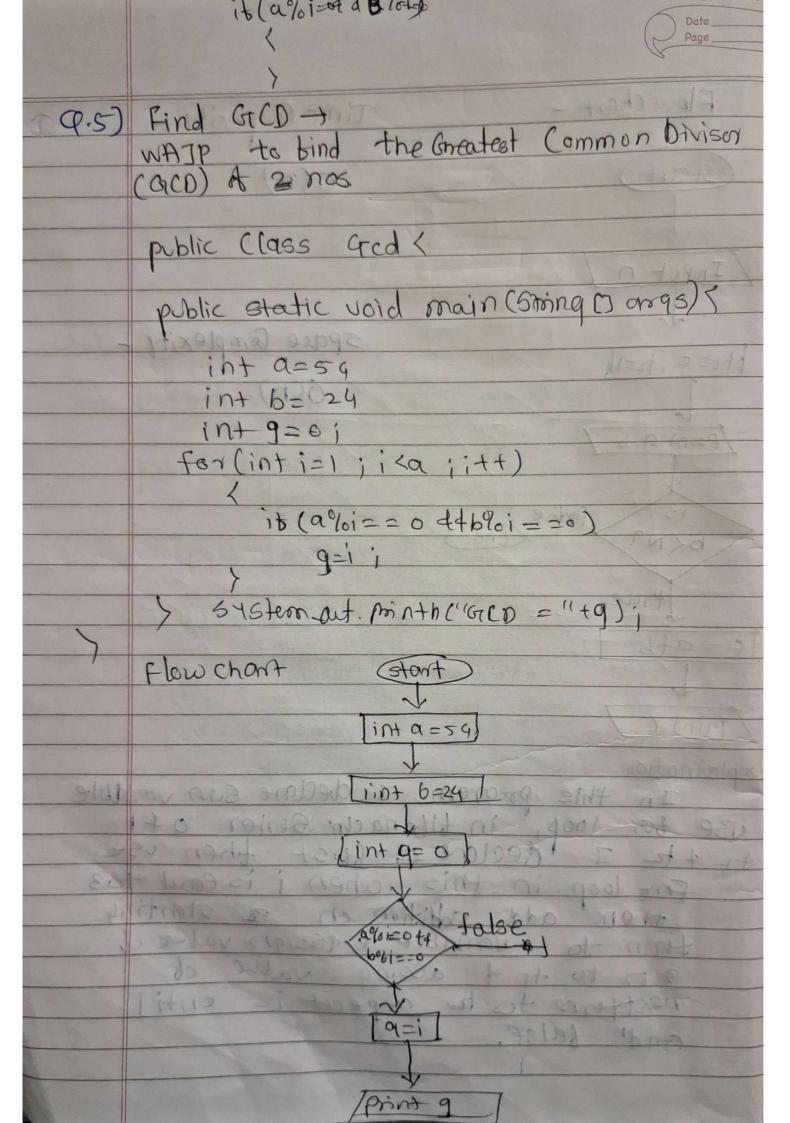
Space Complexity - Sp remains does not increase

(P.4) Fibonaccisories

-) brodeau -

public class Fibaseries





Explanation -

output-

Explanation- In for loop i will insernent apto the value of a there is on Condition & it value et a modulus to value ut Bi is quel to zore then it will assind value ut I to 9 of frint acono. Time Complexity o(n)

space Complexity -> o(1)

QE) WAIP to bind the square root ob a given no.

public code with Square () 6 3 6 3 6 9 9 9 () poum (string angel) 7

nom-schextInt

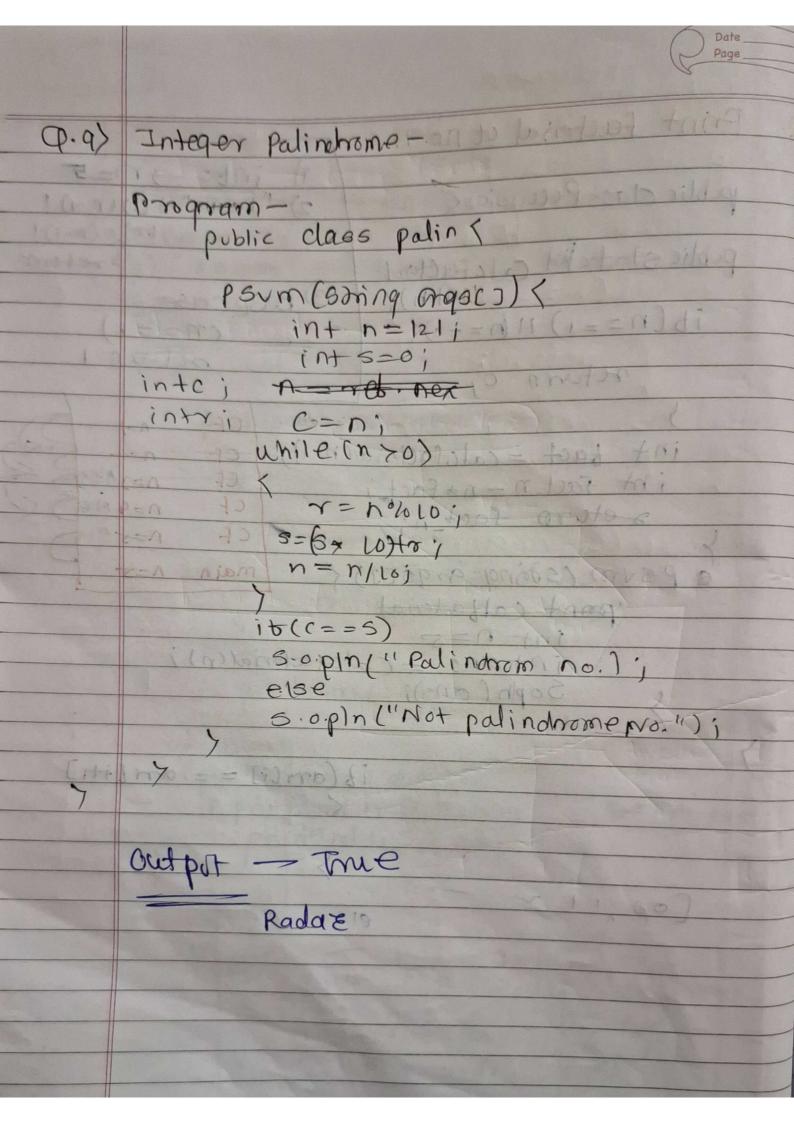
L'acional proposint sont = 0 ; inte ton (intilizinom; itt)?

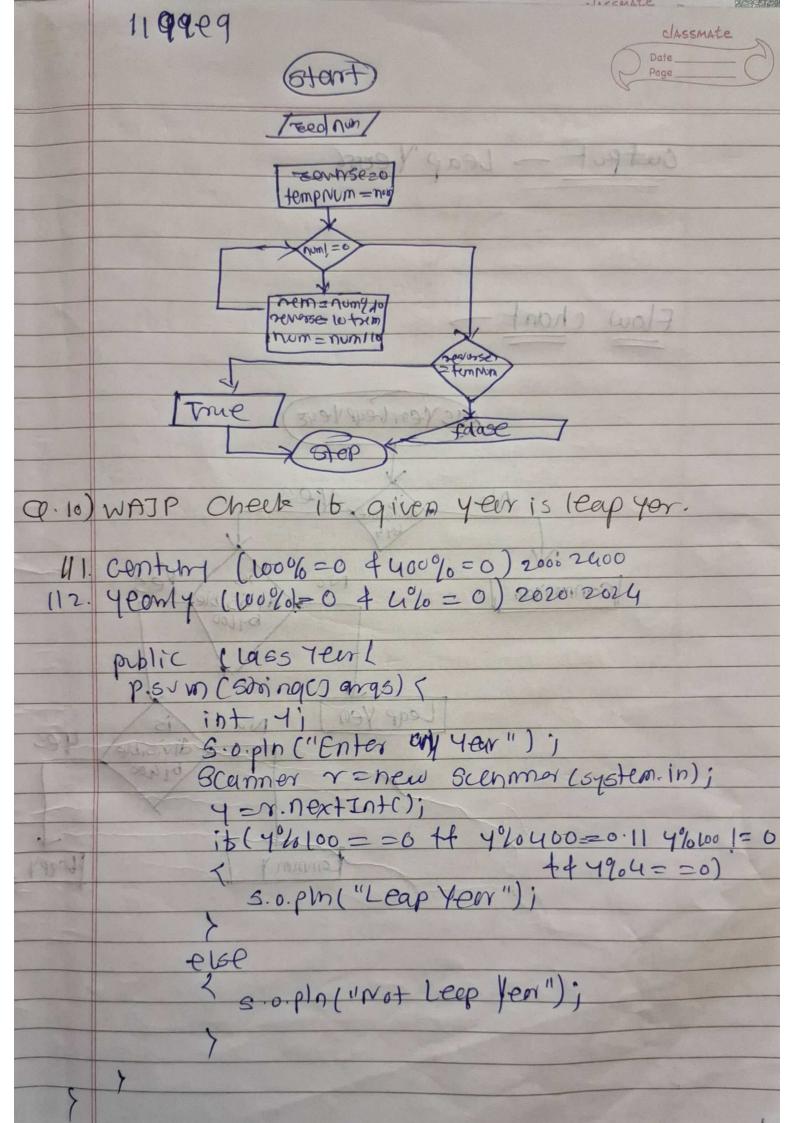
it (num'loi = = 0/5

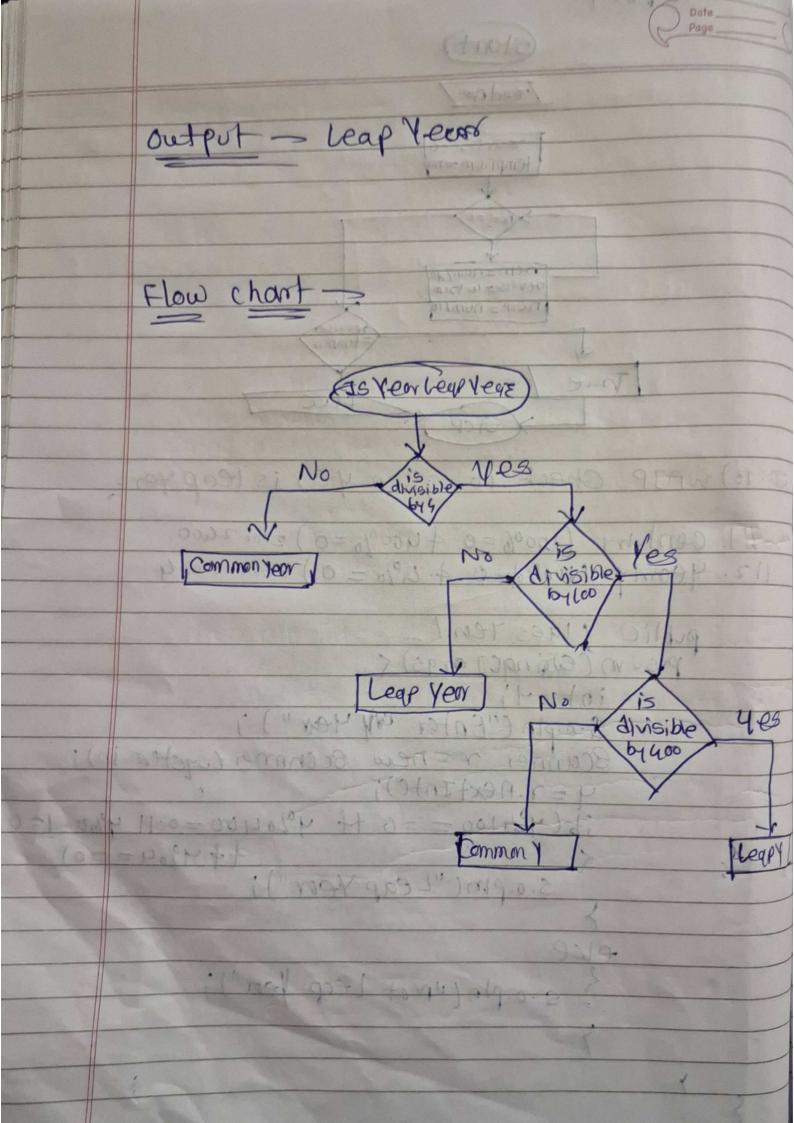
ite) queto not on prico 2 site of sile of

in a - House printe I significant - i give to

Systemandiprintln ("Square croot is "+ sqrt);







leap Years output Flow chart pilawa = maa ESYear Leap Veaz No DON Arvisible byloo Common year 403 divisible 61400 new Ocenand Cachen 11.0=00HOUN HO== Common Y ートライトチー 5.0 PM ("Leap Your")