Calculate area and Perimeter.

Write an Algorithm and draw a flowchart to calculate the area and perimeter of a square.

Algorithm :-

Step 1 :- Start

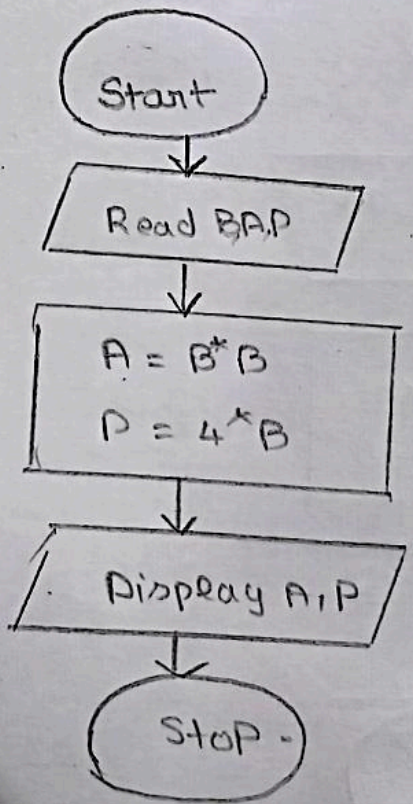
Step 2 :- Read the variables B as length of the side of the square, A is area and P perimeter.

Step 3 :- Calculate B*B as A for area and 4*B as P for perimeter.

Step 4 :- Display both A and P.

Step 5 :- Stop.

Flow chart



Days to Conversion.

write an algorithm and draw a flowchart to convert the given days into years & months.

Algorithm:-

Step 1:- Start

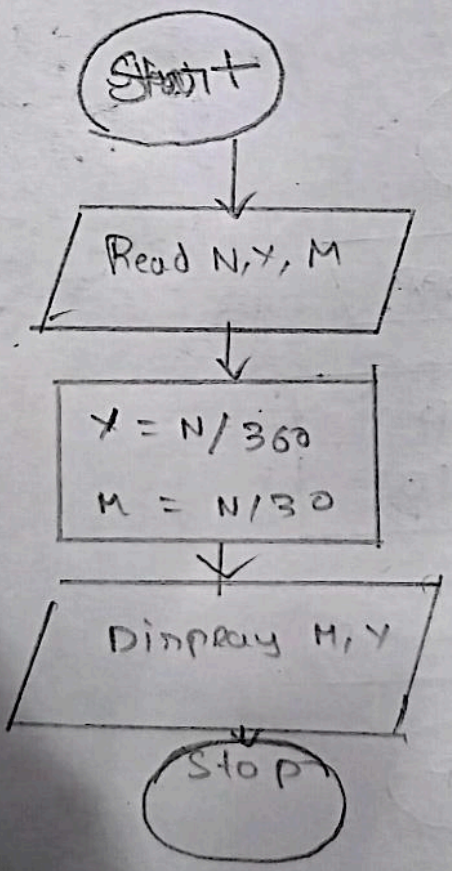
Step 2:- Read N, Y, M, as number of days, Y as number of years.

Step 3:- Calculate Y = N/365, M = N/30

Step 4:- Display M, Y

Step 5:- Stop.

Flowchart.



Write an Algorithm and draw a Flowchart to check whether the given number is prime!:-

Algorithm !:-

Step 1 :- Start

Step 2 :- Read value n

Step 3 :- set i = 1, count = 0

Step 4 :- if i <= n, if true go to step 5, else go to step 8.

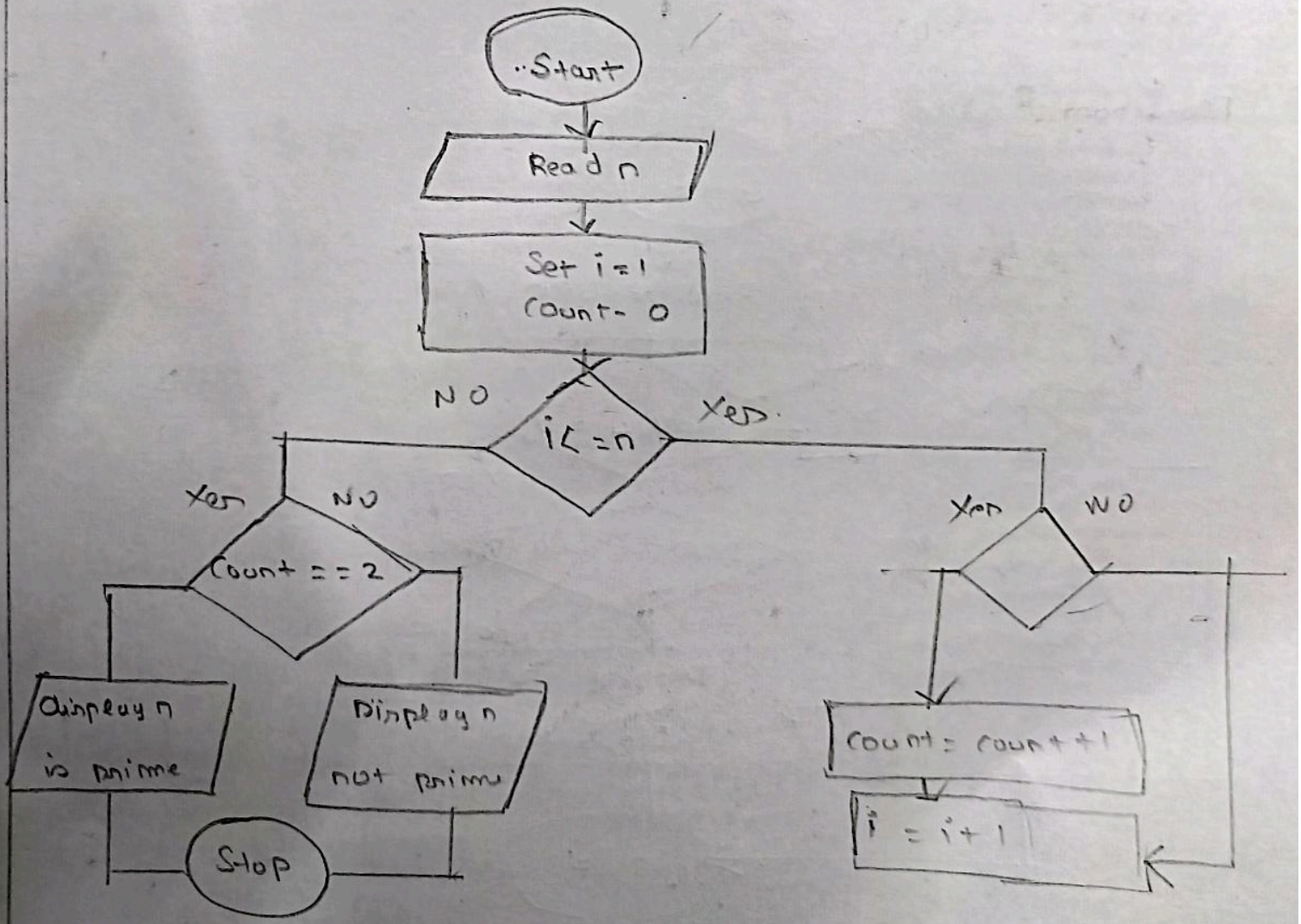
Step 5 :- set count = count + 1

Step 6 :- i = i + 1 go to step 4

Step 7 :- Check count, if count = 2, display it is a prime number if not display it is not a prime number.

Step 8 :- Stop.

Flowchart.



Write an algorithm and draw a flowchart to check wether the given year is leap year or not.

Algorithm:-

Step 1 :- Start

Step 2 :- Read the year to be checked, given by the user.

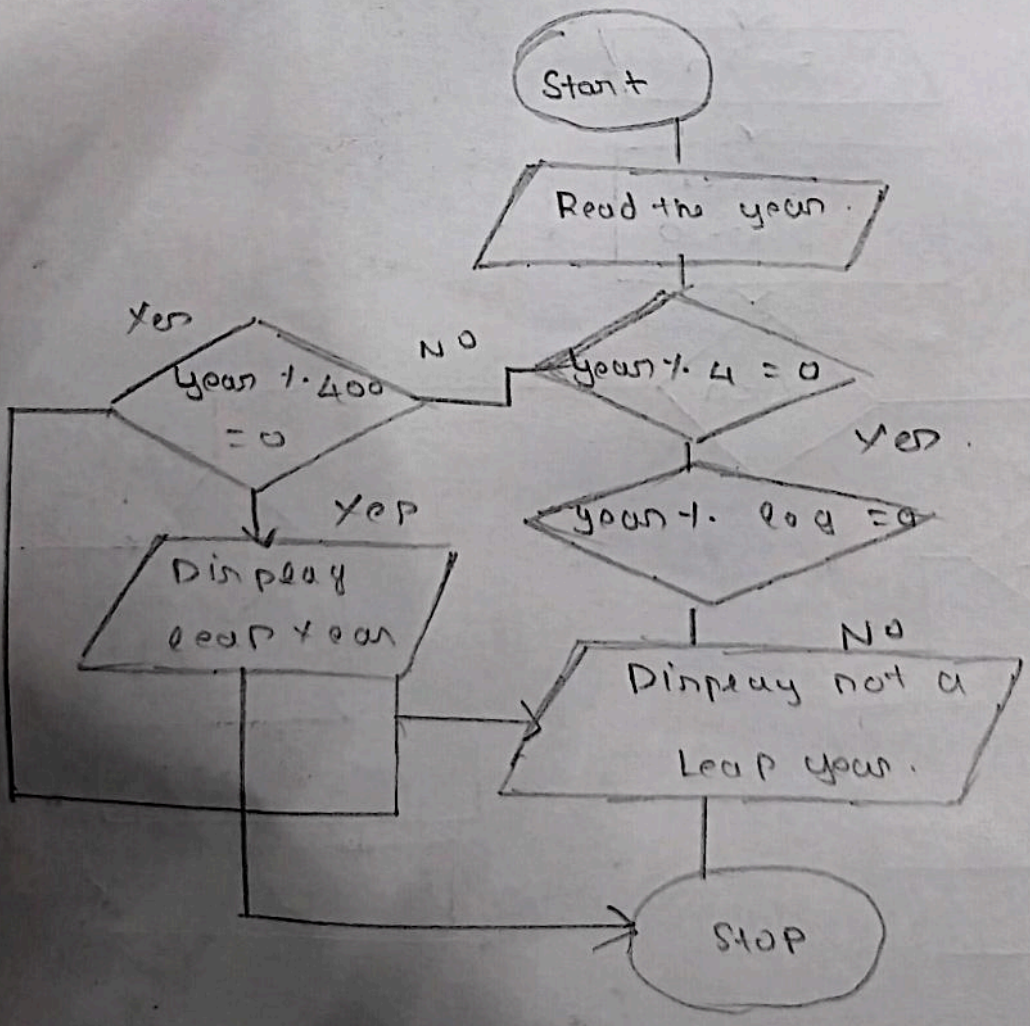
Step 3 :- Assign it to a variable 'year'

Step 4 :- if (year % 4 = 0 AND year % 100 != 0) OR year % 400 = 0

Step 5 :- Display 'Leap year'

Step 6 :- Stop.

Flowchart :-



Write an algorithm and draw a flowchart to check whether the given number is palindrome number or not.

Algorithm :-

Step 1 :- Start

Step 2 :- Get input from user.

Step 3 :- tempNum = num

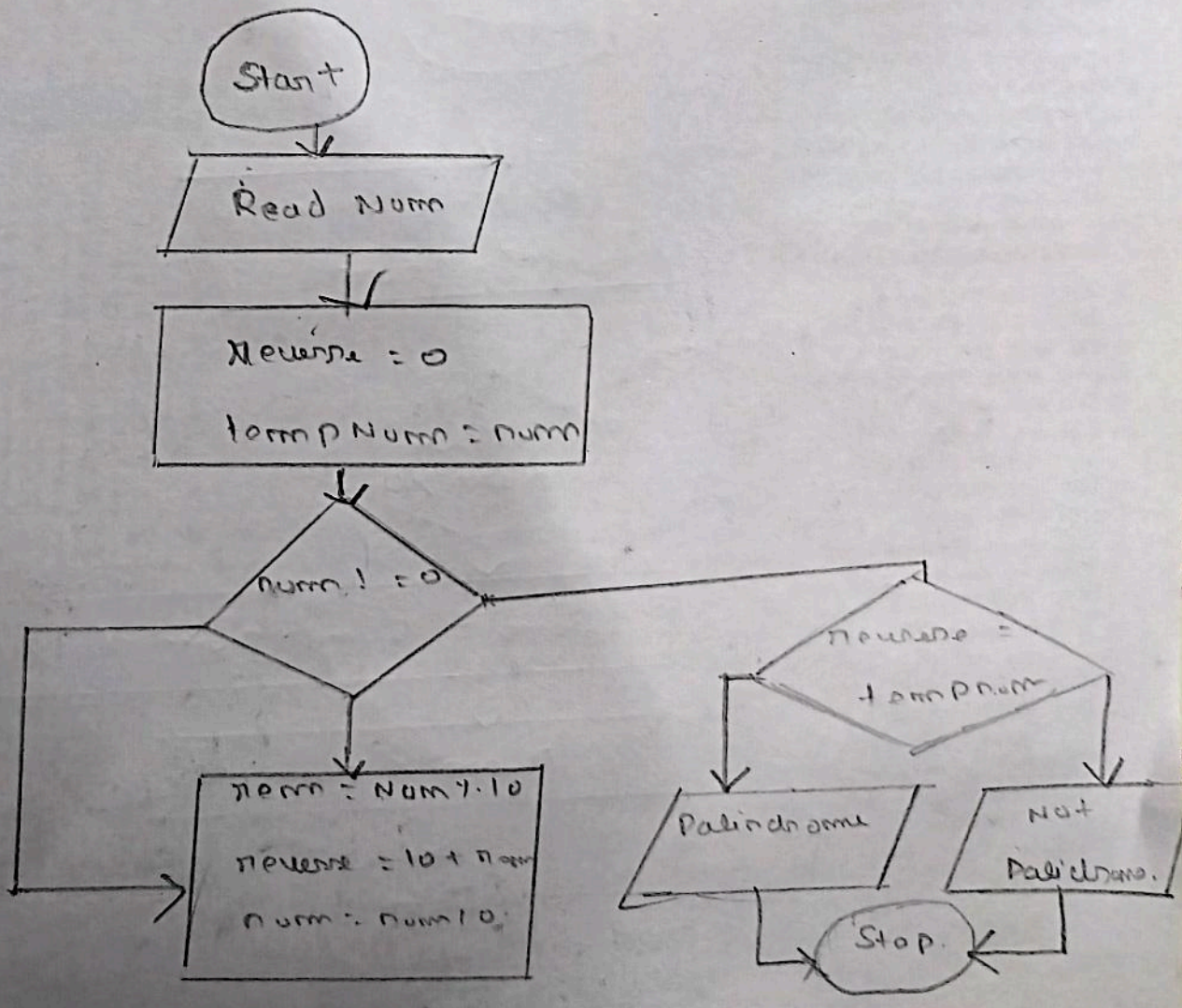
Step 4 :- rem = num % 10

reverse = 10 * rem

num = num / 10

Step 5 :- Check if reverse == tempNum.

Step 6 :- if true then number is palindrome



Write an algorithm and draw a flowchart to calculate the sum of digits in the given number.

Algorithm :-

Step 1 :- Start

Step 2 :- Initialize the variable sum = 0 to count sum of digits for num.

Step 3 :- Start a while loop with condition num > 0

Step 4 :- Sum = Sum + Sum % 10
Divide the num by 10 with current digit.

Step 5 :- Stop.