

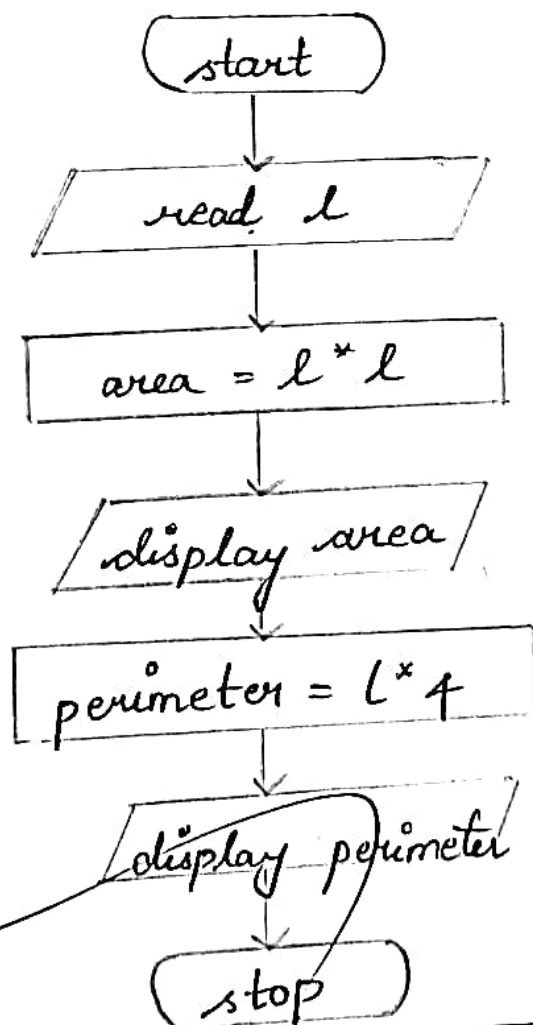
## Calculate Area and Perimeter

Write an Algorithm and draw a Flowchart to Calculate the area and perimeter of a square.

## Algorithm:

- step 1 : start
- step 2 : read the side of the square
- step 3 : multiply the side by side
- step 4 : display the area
- step 5 : multiply side by 4
- step 6 : display the perimeter
- step 7 : stop

## Flowchart:



By  
25/9/24

Ex. No.: 2

Date: 25/9/24

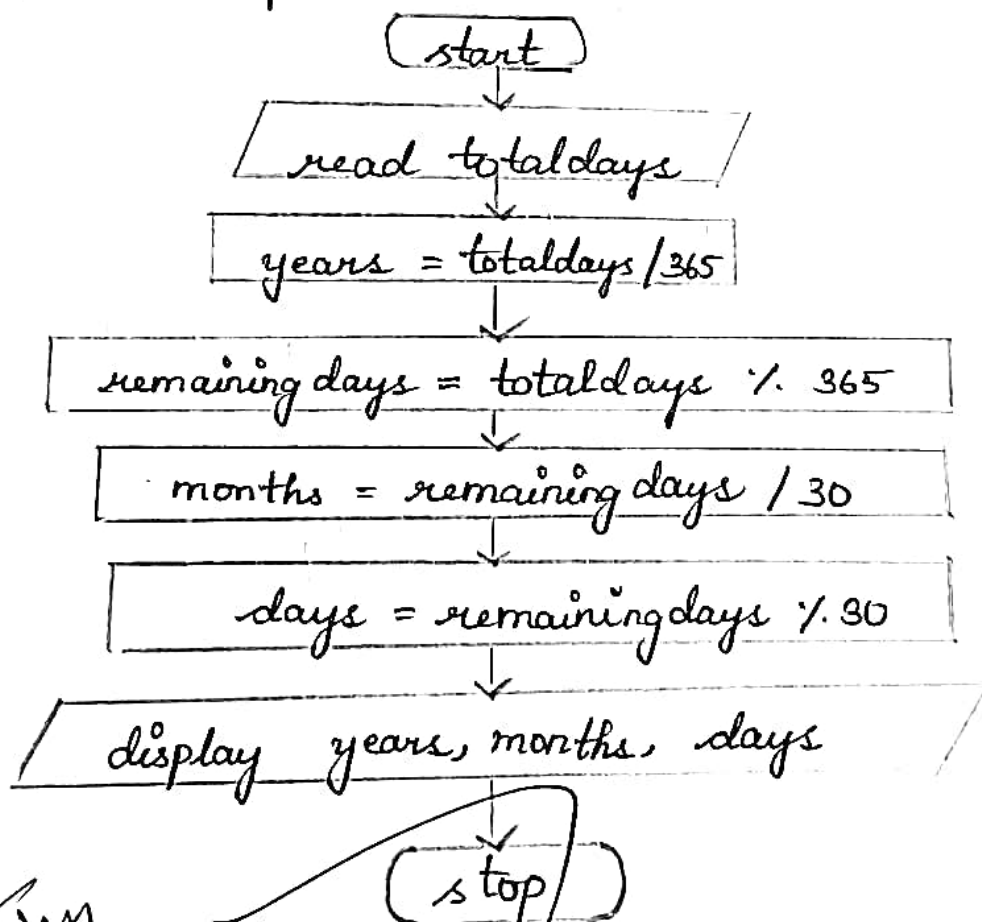
## Days to Year Conversion

Write an Algorithm and draw a Flowchart to convert the given days into years & months.

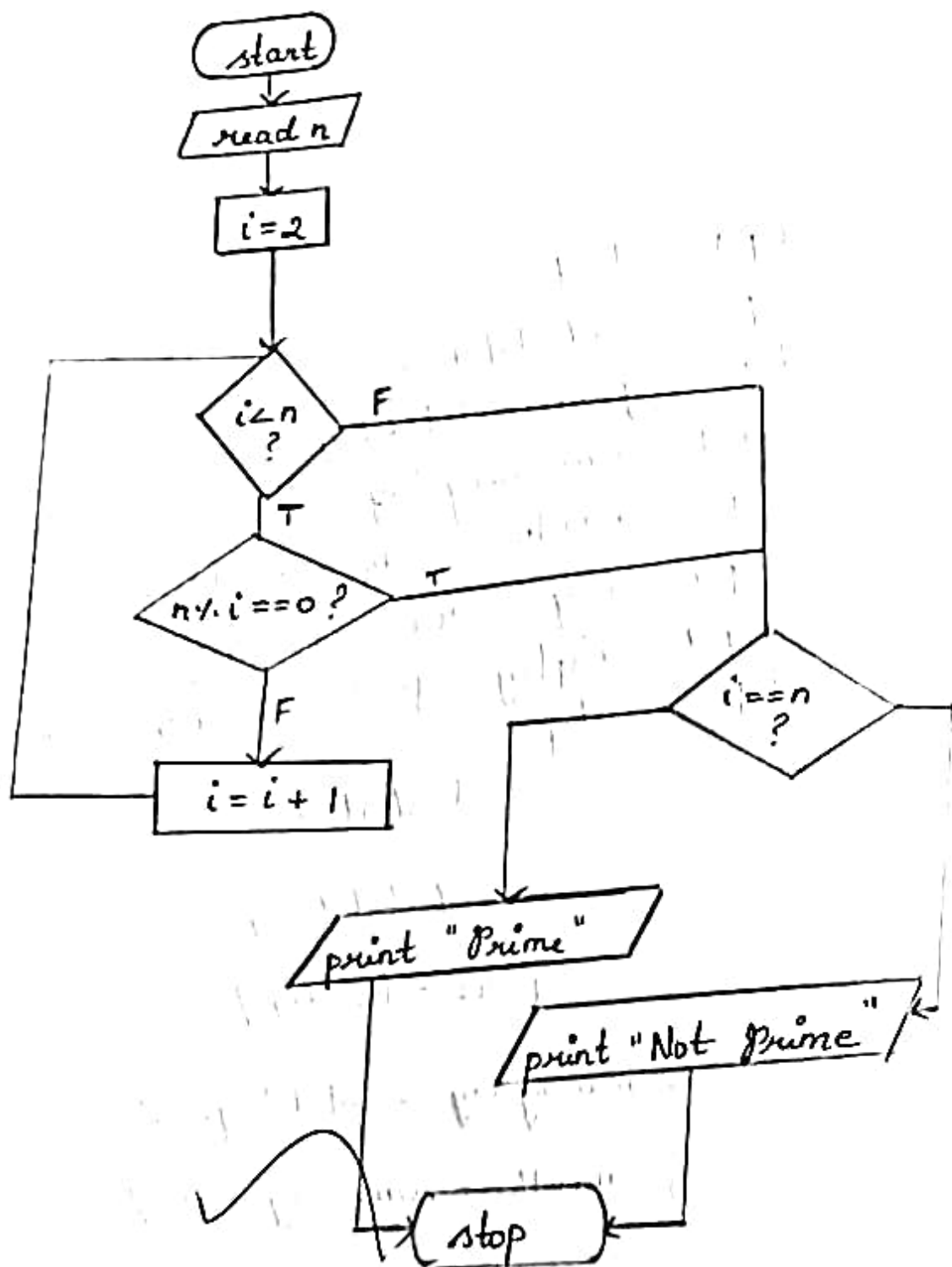
Algorithm:

- step 1: start
- step 2: read totaldays
- step 3:  $\text{years} = \text{totaldays} / 365$
- step 4:  $\text{remaining days} = \text{totaldays} \% 365$
- step 5:  $\text{months} = \text{remaining days} / 30$
- step 6:  $\text{days} = \text{remaining days} \% 30$
- step 7: display years, months and days
- step 8: stop

Flowchart:



25/9/24



Ex. No.: 3

Date: 25/9/24

**Prime Number**

Write an Algorithm and draw a Flowchart to check whether the given number is Prime or not.

**Algorithm:**

- step 1: start
- step 2: read the number  $n$
- step 3: initialize  $i = 2$
- step 4: check if  $i \leq n$ ,  $n \% i == 0$ ,  $i = n$  then move to step 6.
- step 5: If the conditions are false move to step 7
- step 6: display "Prime" and move to step 8
- step 7: display "Not Prime" and move to step 8
- step 8: stop

**Flowchart:**

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25/9/24

Ex. No.: 4

Date: 27/7/29

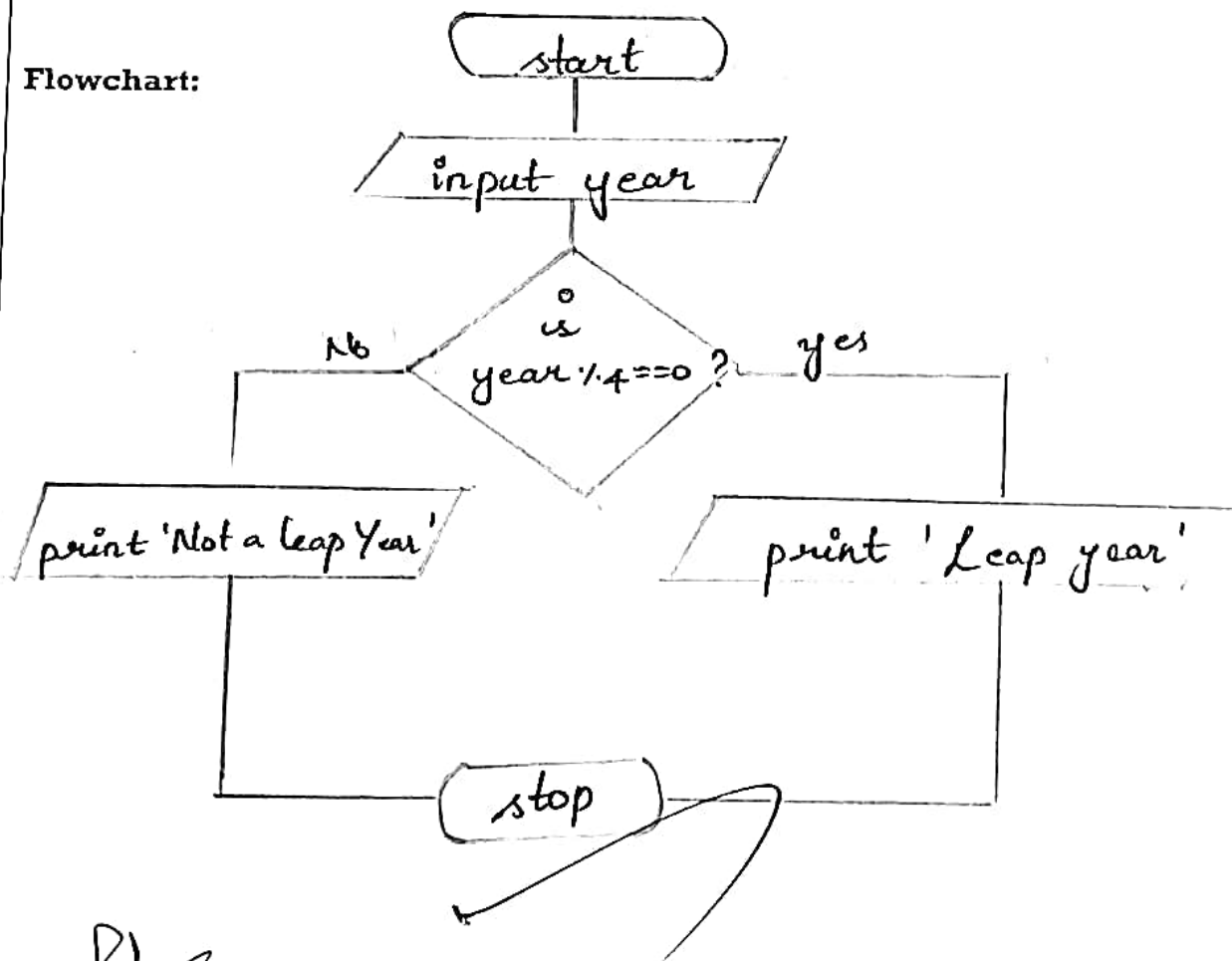
## Leap Year

Write an Algorithm and draw a Flowchart to check whether the given year is Leap year or not.

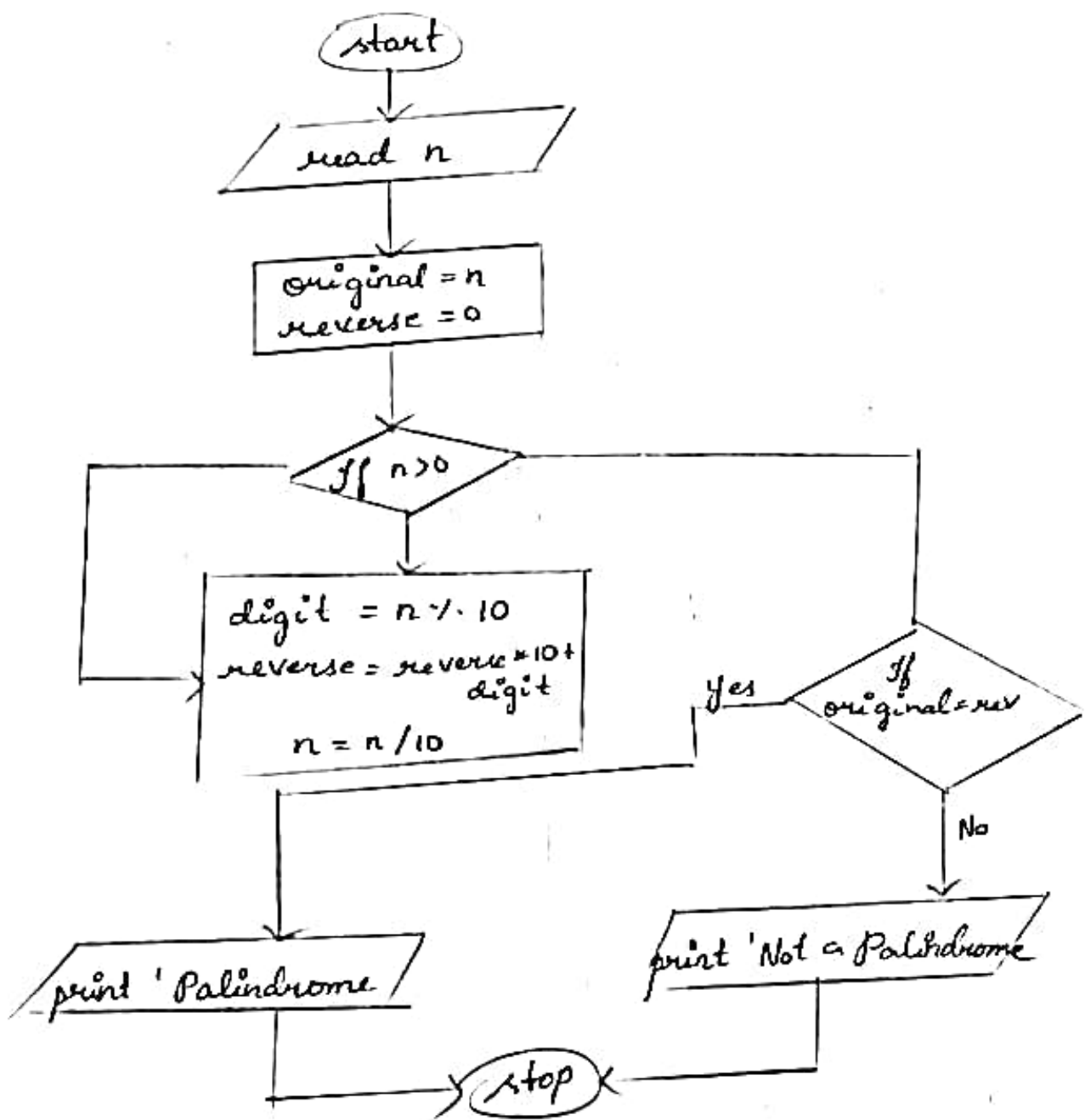
Algorithm:

- step 1 : start  
step 2 : read year  
step 3 : If  $\text{year} \% 4 == 0$ , then print "Leap year" else print "Not a leap year".  
step 4 : stop

Flowchart:



27/9/24



Date: 27/7/24

Ex. No.: 5

### Palindrome Number

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

Algorithm:

step 1: start

step 2: read num

step 3: initialize  $rev = 0$  while  $num > 0$

$digit = num \% 10$

$rev = (rev * 10) + digit$

$num = num / 10$

step 4: compare the original with rev

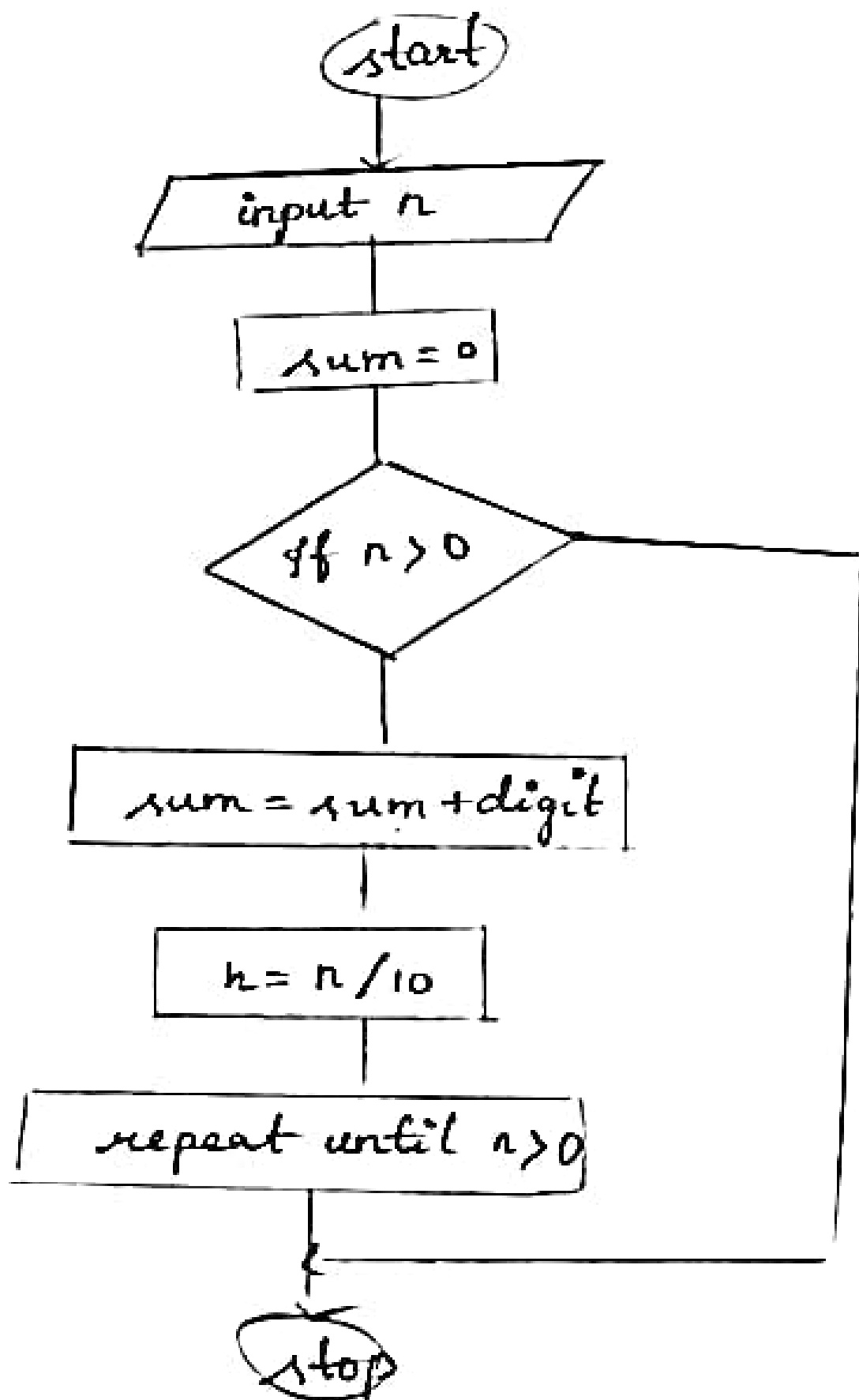
If they are same print

Flowchart:

"Palindrome" else "Not a Palindrome"

step 5: stop

A  
n/9/14





Ex. No.: 6

Date: 27/9/24

### Sum of Digits

Write an Algorithm and draw a Flowchart to calculate the sum of digits in the given number.

Algorithm:

step 1 : start

step 2 : read num

step 3 : initialize sum = 0

step 4 : remainder = num % 10  
sum = sum + remainder  
num = num / 10

step 5 : if (num > 0) then go to step 4  
else go to step 6

Flowchart:

step 6 : print sum

step 7 : stop

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