

Ex. No.: 2

Date: 26/9/24

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 days, months, years

Step 3: Compute $\text{years} = \frac{\text{Total days}}{365}$

Step 4: [Compute remaining days]
 $\text{Rem} = \text{total days} - 365$

Step 5: [Compute months]
 $\text{months} = \frac{\text{Rem}}{30}$

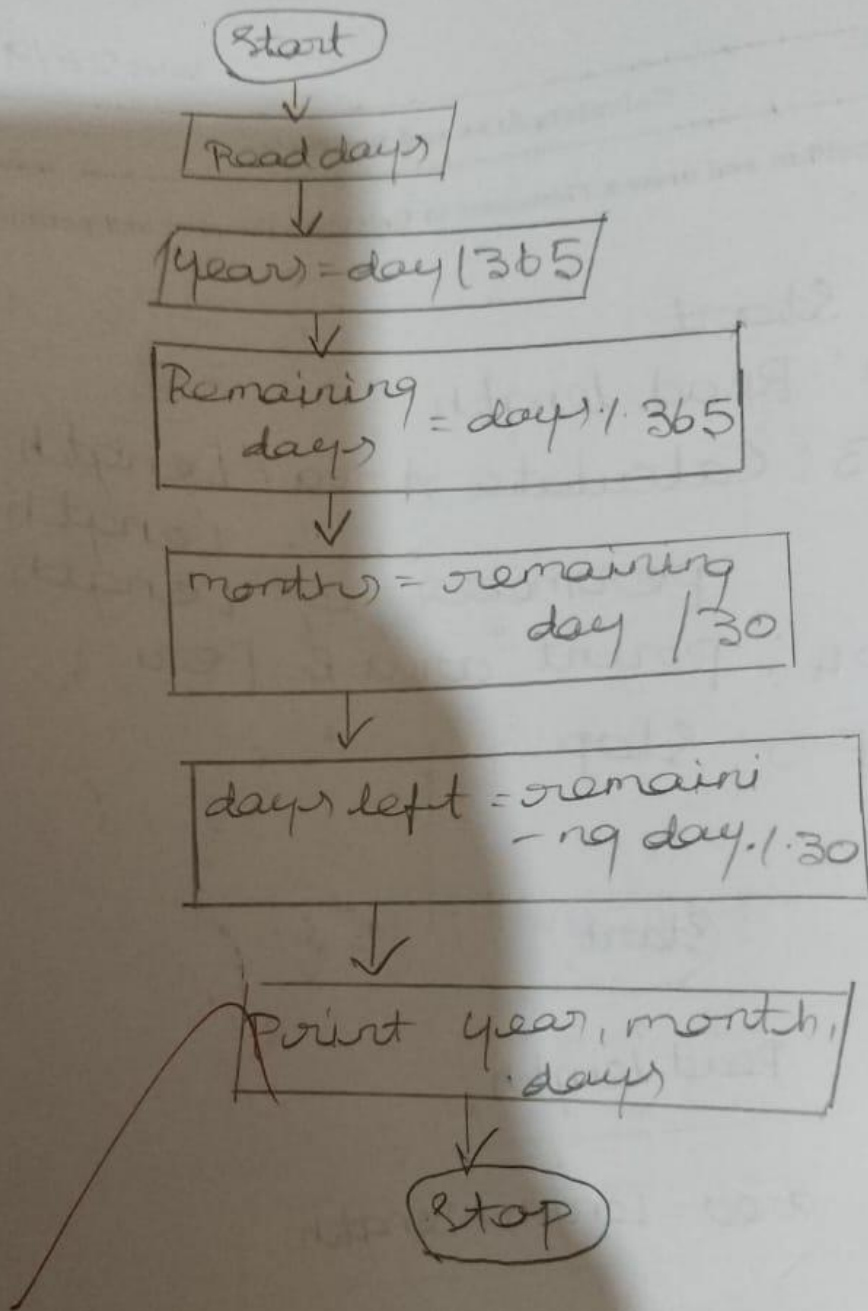
Flowchart:

Step 6: [Compute remaining days]
 $\text{Day} = \text{Rem} - 30$

Step 7: Print "years, months"

Step 8: End.

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Ex. No.: 3

Date: 26/9/24

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 n

Step 3: if $i = 2$ and $i \leq n$, goto Step 7

Step 4: $i \cdot 1 \cdot 2 = 0$, goto Step 7

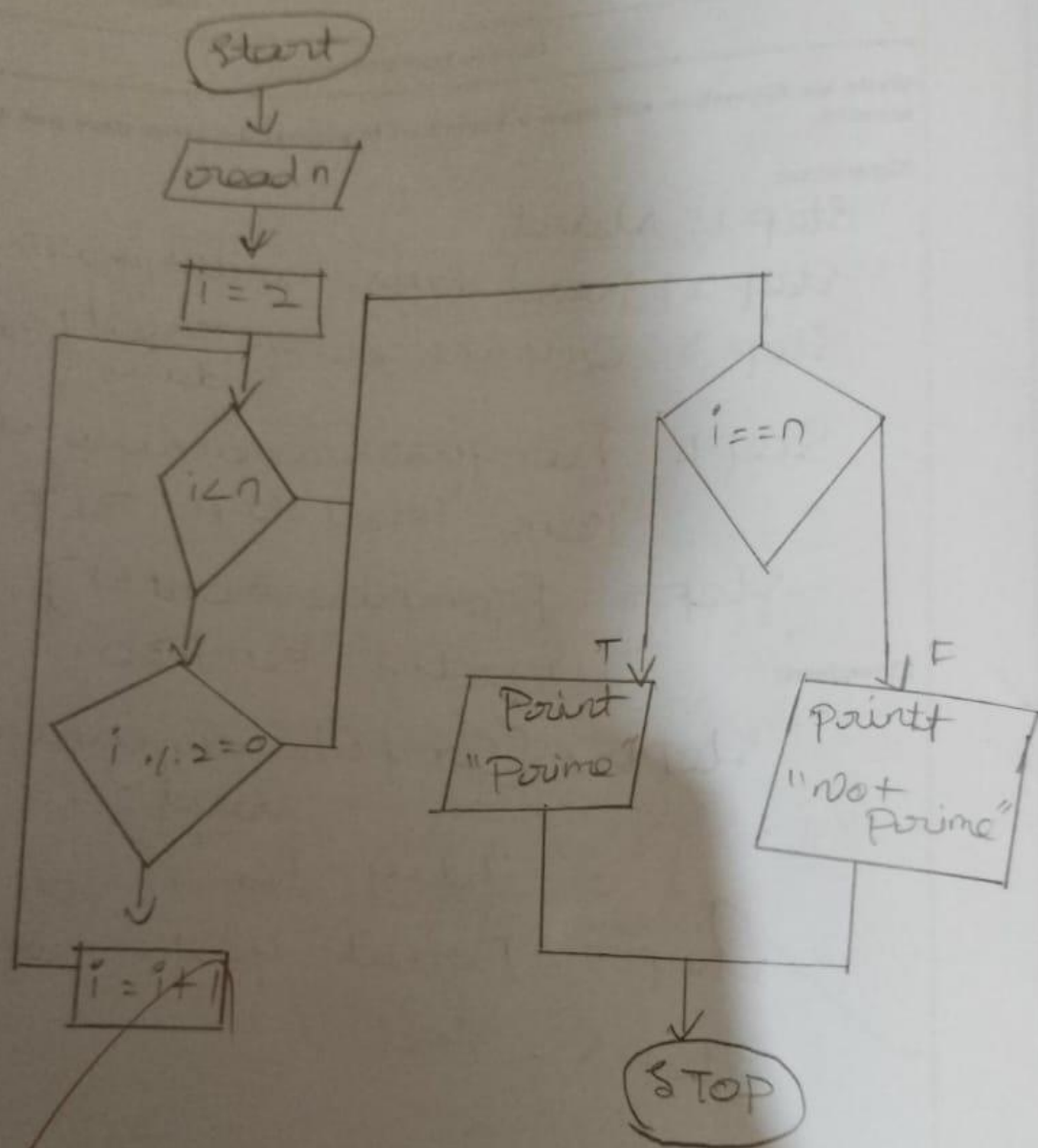
Step 5: $i = n$

Step 6: $i = i + 1$, goto Step 3

Flowchart: Step 7: if $i = n$, Print "not prime",
Print "prime"

Step 8: Stop

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Ex. No.: 4

Date: 28/9/24

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 it is Leap year

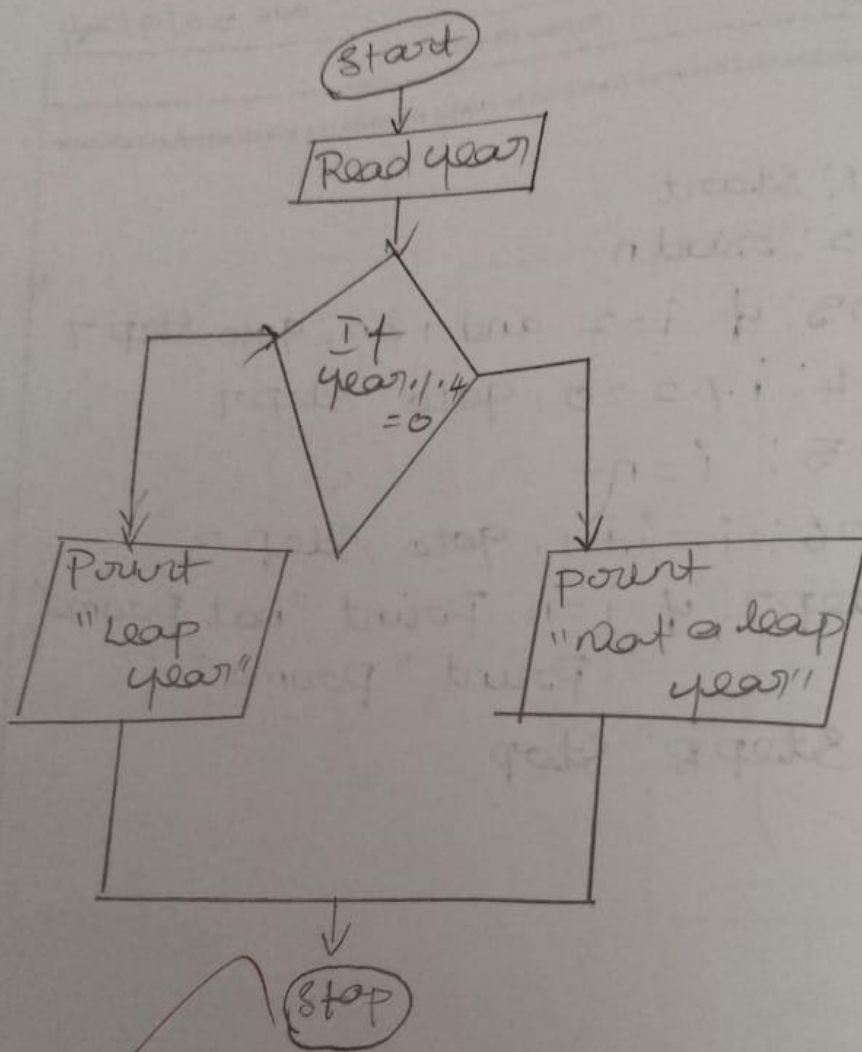
Step 4: $\text{year} \% 4 \neq 0$ then not leap year

Step 5: print "Leap year" or
"Not leap year"

Flowchart:

Step 6: Stop

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Ex. No.: 5

Date: 28/9/24

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 n

Step 3: Declare $temp = n$, $rev = 0$

Step 4: $rem = n \% 10$
 $rev = rev * 10 + rem$
 $n = n / 10$

Flowchart:

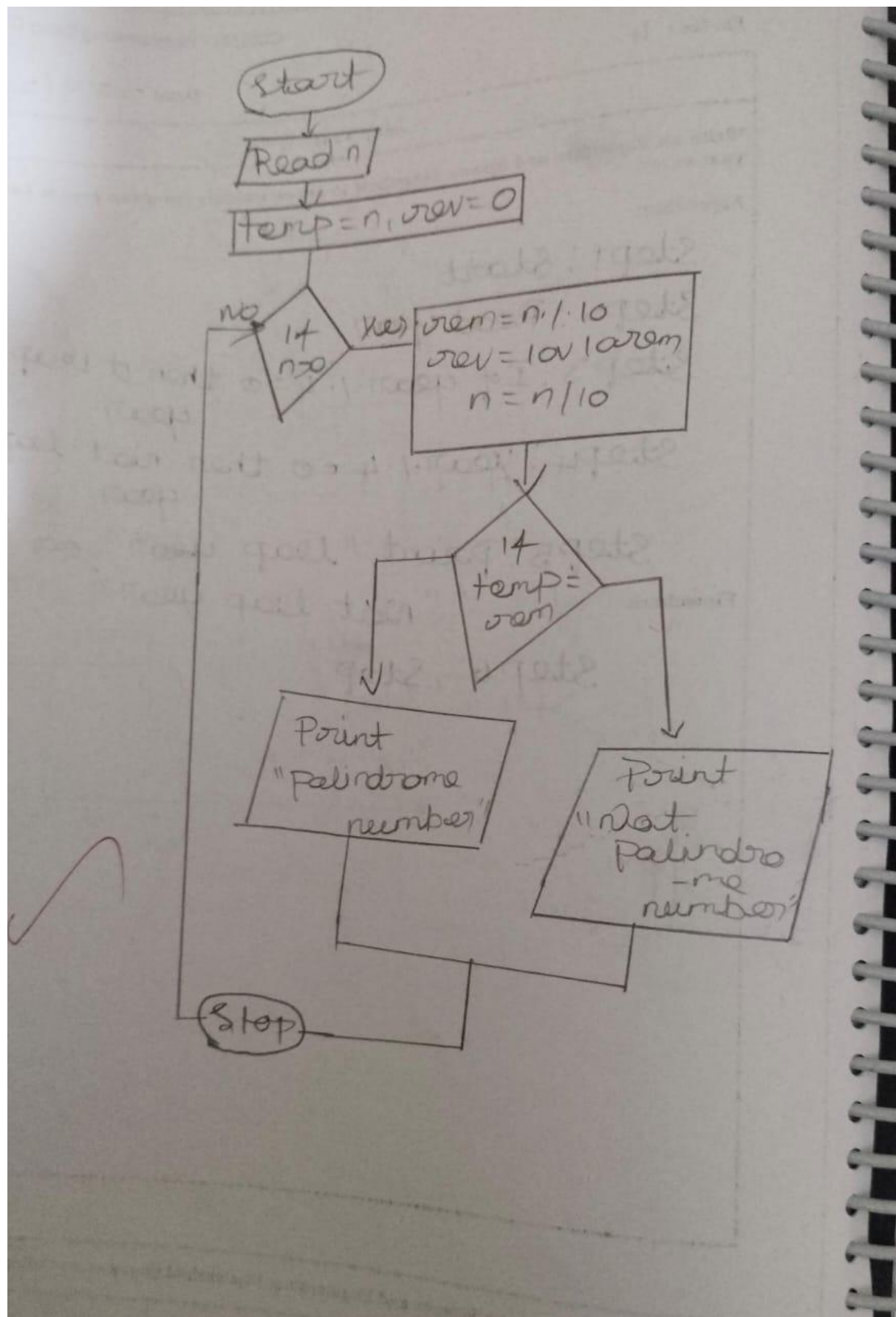
Step 5: if $(n > 0)$, goto Step 4 to 6

Step 6: If $temp = rev$ then
 print "Palindrome number"

Step 7: print "Not Palindrome number"

Step 8: Stop

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Ex. No.: 6

Date: 28/9/24

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 n

Step 3: $S = 0, m = n$

Step 4: Loop until $n = 0$

$r = n \% 10$

$S = S + r$

$n = n / 10$

Flowchart:

Step 5: If $n \neq 0$, goto step 4
Else Print " m, S "

Step 6: Stop

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