

Ex. No.: I

Date: 21/09/2024

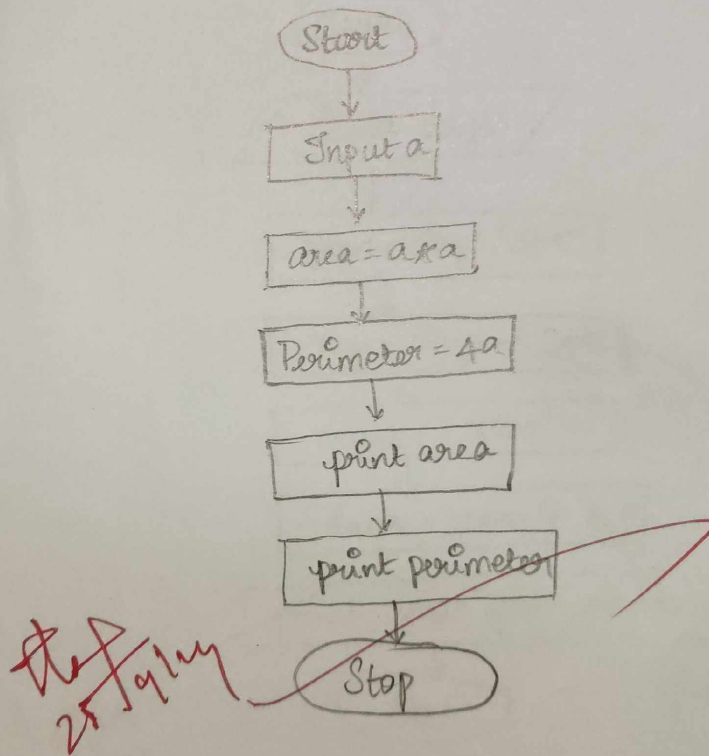
Calculate Area and Perimeter

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

Algorithm:

- Step 1: Start
- Step 2: Declare a, area, perimeter
- Step 3: Input a
- Step 4: $\text{area} = a \times a$
- Step 5: $\text{perimeter} = 4a$
- Step 6: printf area
- Step 7: printf perimeter
- Step 8: End.

Flowchart:



Ex. No.: II

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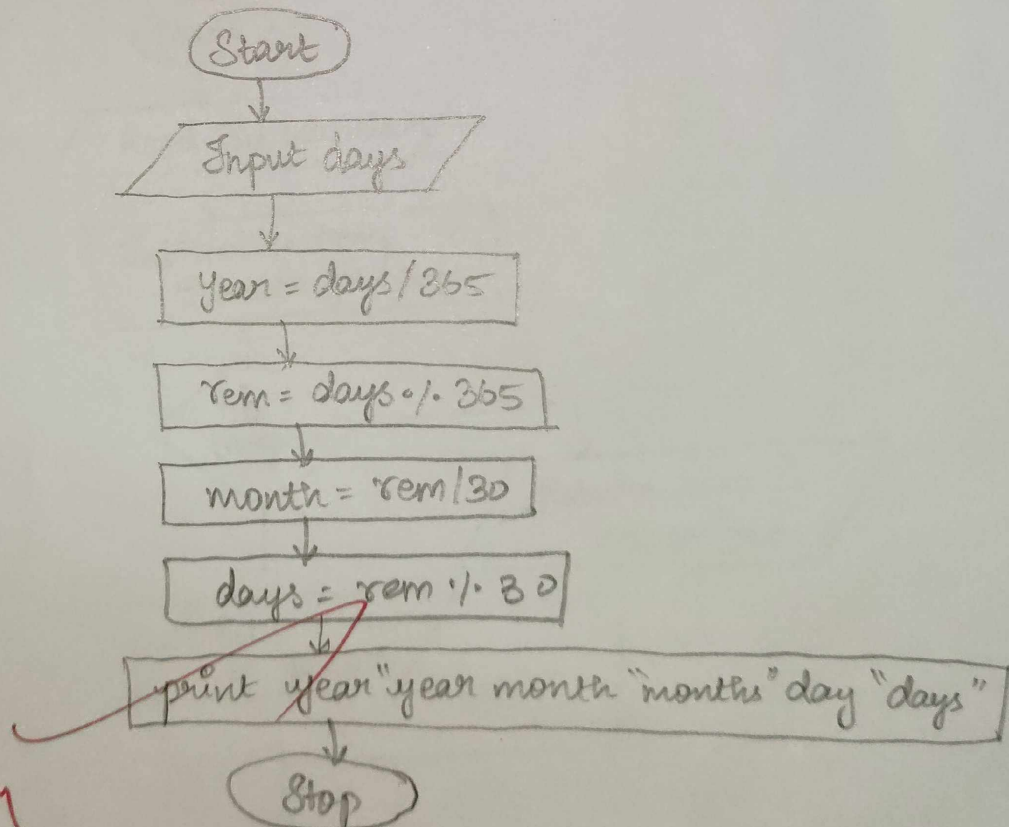
Days to Year Conversion

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

Algorithm:

- Step 1: Start
- Step 2: Declare days, month, year, rem
- Step 3: Input days
- Step 4: $\text{Year} = \text{days} / 365$
- Step 5: $\text{rem} = \text{day} \% 365$
- Step 6: $\text{month} = \text{rem} / 30$
- Step 7: $\text{days} = \text{rem} \% 30$
- Step 8: print year "year month" months "days" days "
- Step 9: End

Flowchart:



Ex. No.: III

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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: Declare i, n

Step 3: Input n

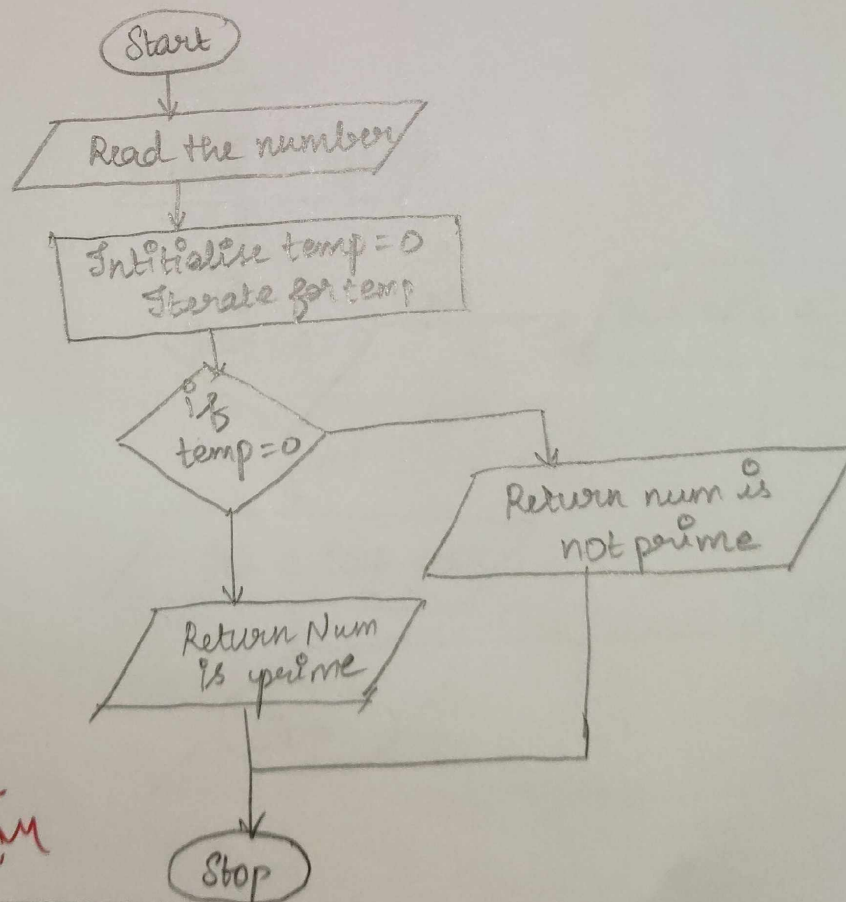
Step 4: $i = 2$
while $i < n$, otherwise go to step 5
 $r = n \% i$
check if $r \neq 0$, then go to step 6
 $i++$
repeat

Step 5: print "prime number"

Step 6: print "Not a prime number"

Step 7: end

Flowchart:



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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: Declare a

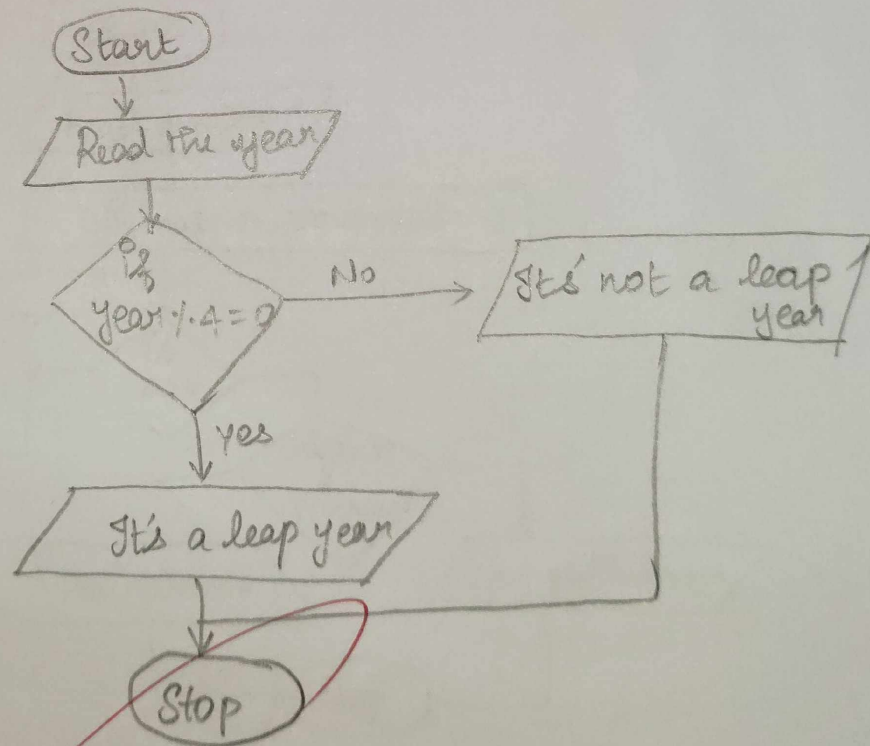
Step 3: Check if $a \% 4 == 0$, otherwise goto step 6

Step 5: print "Leap year", goto step 7

Step 6: print "Not a leap year"

Step 7: END

Flowchart:



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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: Declare n, last, rev = 0

Step 3: Input n
 $x = n$

Step 4: while $n > 0$

4a last = $n \% 10$

4b $rev = rev * 10 + last$

4c $n = n / 10$

4d repeat

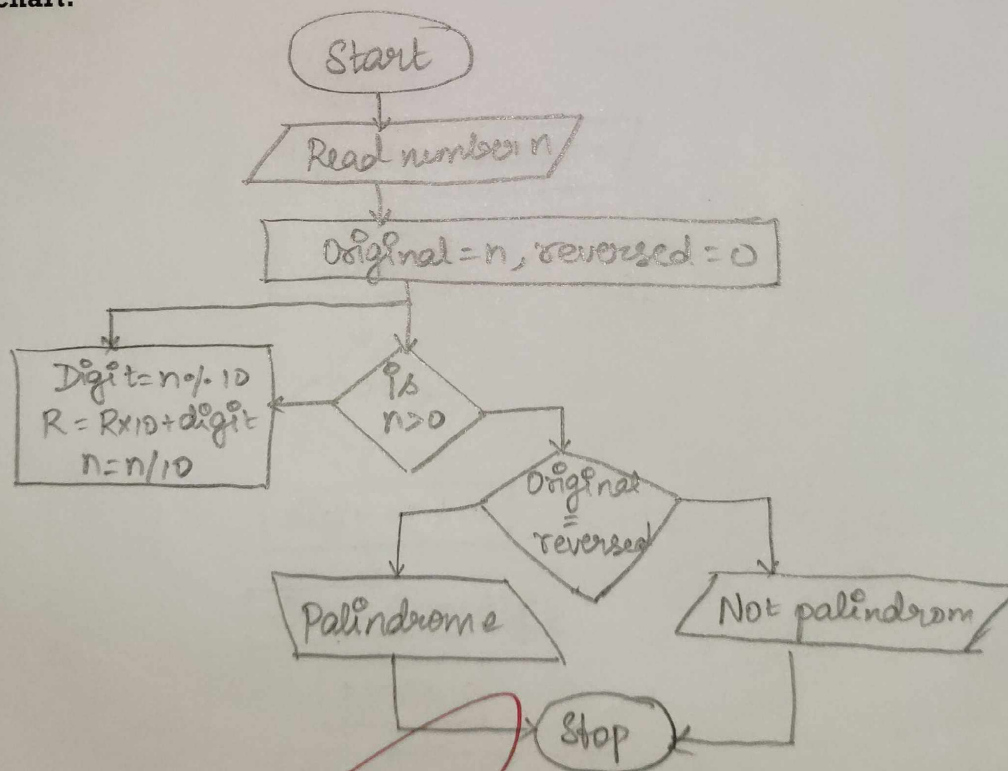
Step 5: Check if $x = rev$, otherwise goto step 7

Step 6: Print 'Palindrome', goto step 8

Step 7: print 'Not a palindrome'

Step 8: End.

Flowchart:



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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: Declare num, sum = 0, last
Step 3: Input num
Step 4: while num
 4a last = num % 10
 4b sum = sum + last
 4c num = num / 10
 4d repeat
Step 5: print sum
Step 6: End.

Flowchart:

