

Calculate Area and Perimeter

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

Algorithm:

Step 1: Start

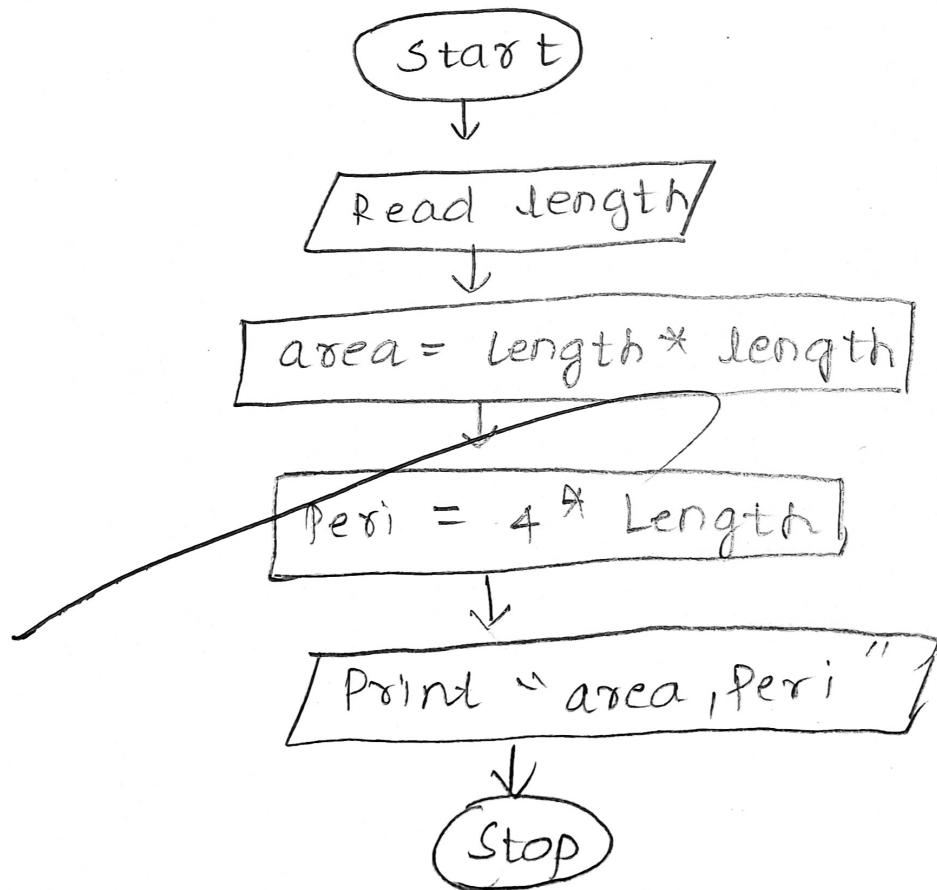
Step 2: Read Length

Step 3: calculate
area = length * length

Step 4: calculate
Perimeter = 4 * length

Step 5: Point "area, peri"

Step 6: End.

Flowchart:

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29/09/29

Ex. No.: 2

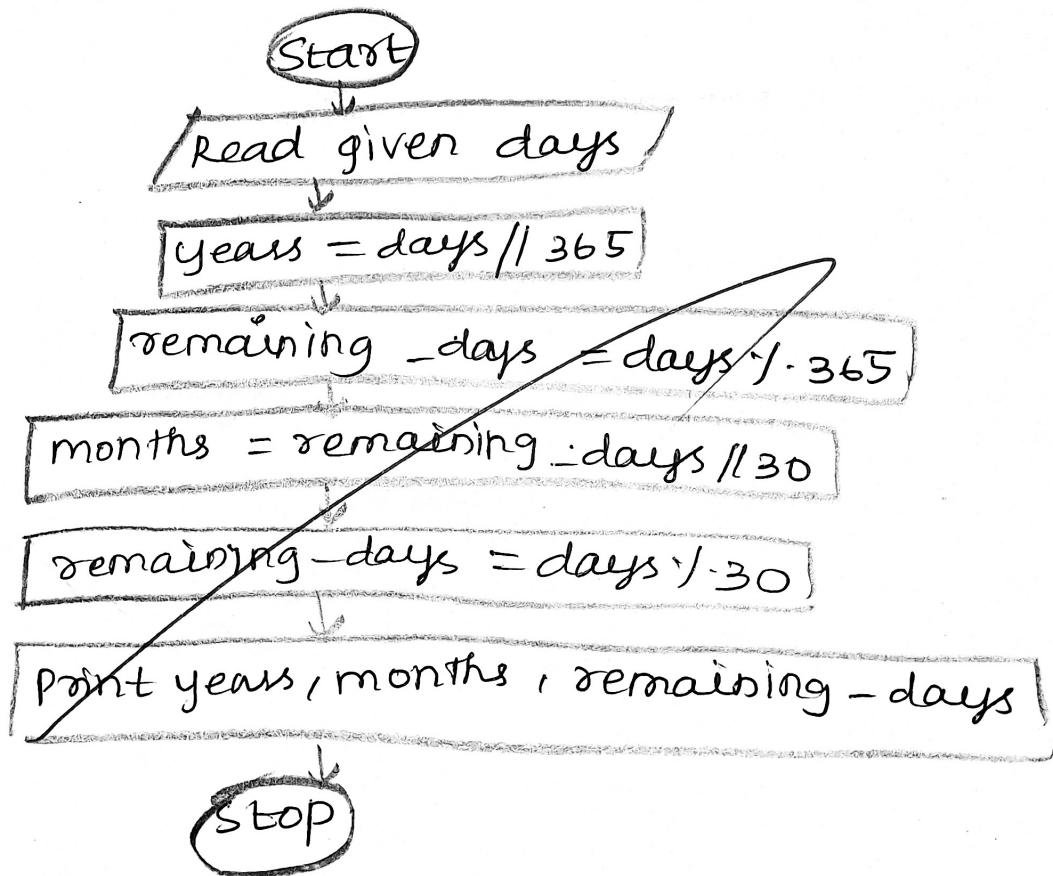
Date: 21/09/24

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 the given days
- Step 3: years = days // 365
- Step 4: remaining -days = days % 365
- Step 5: months = remaining -days // 30
- Step 6: remaining -days = days % 30
- Step 7: Display years, months and remaining -days
- Step 8: Stop

Flowchart:

Ex. No.: 3.

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Date: 21/09/24

Prime Number

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

Algorithm:

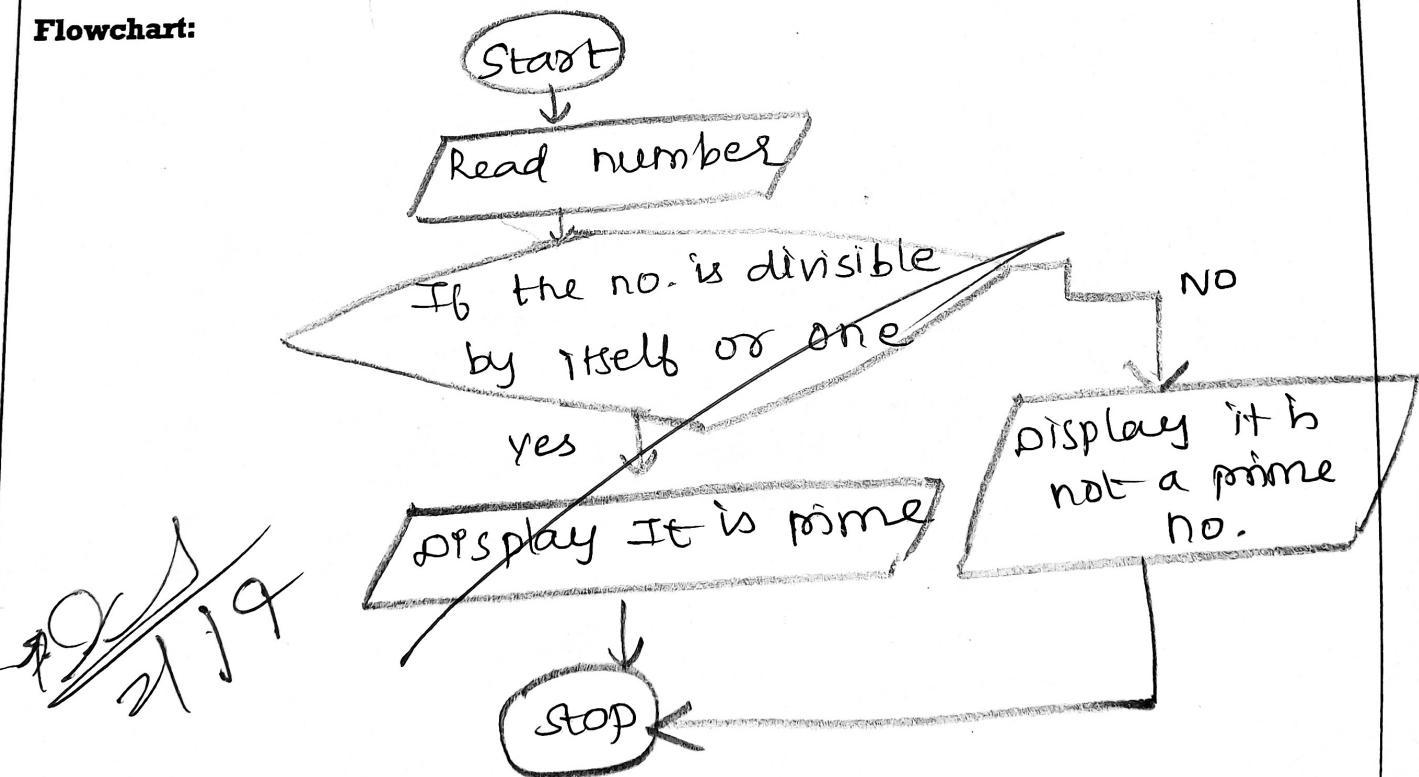
Step 1: Start

Step 2: Read number

Step 3: Using math module, check if the no. is divisible only by 1 and itself, if this is satisfied print it is prime.

Step 4: otherwise, print it is not a prime number.

Step 5: STOP

Flowchart:

Ex. No.: 4

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Date: 25/09/24

Leap Year

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

Algorithm:

Step 1: Start

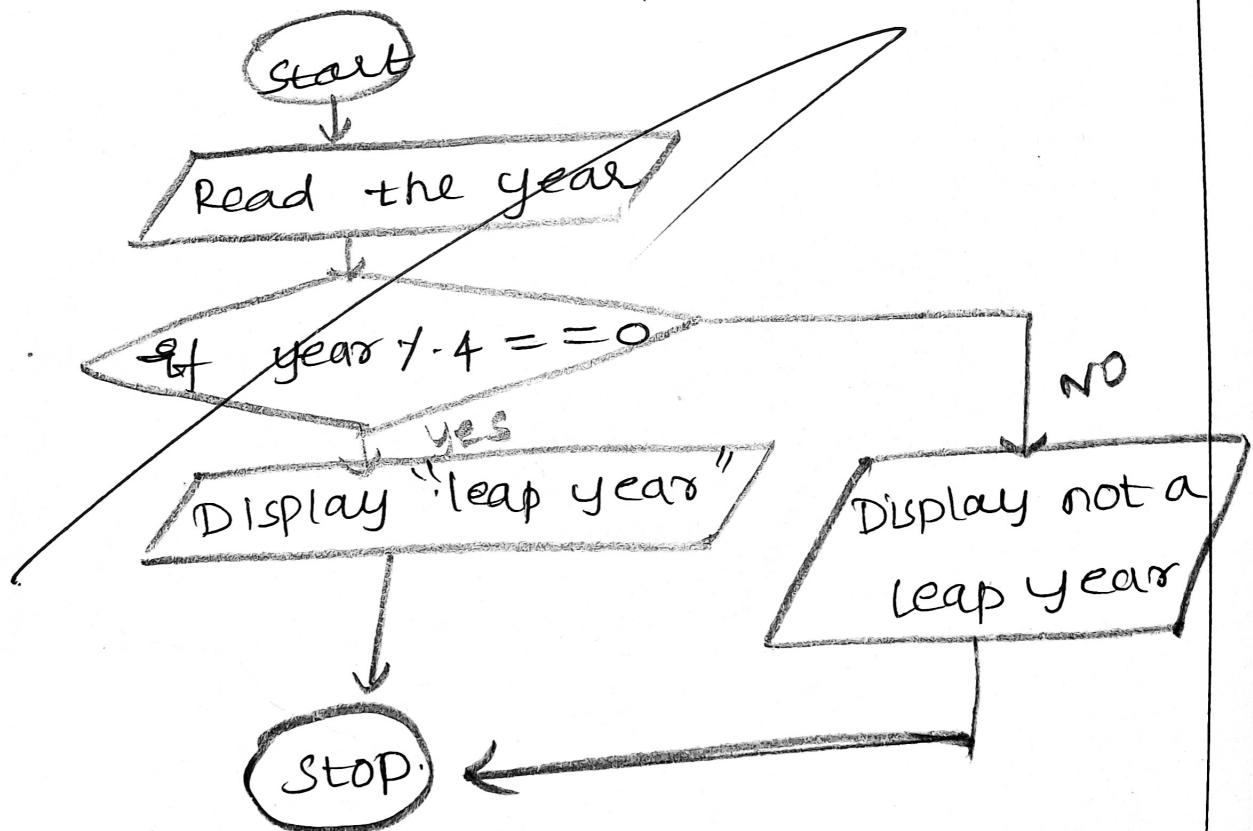
Step 2: Read the value of the year

Step 3: If $\text{year} \% 4 == 0$

Step 4: Display it is leap year.

Step 5: otherwise it is not leap year

Step 6: Stop.

Flowchart:

Ex. No.: 5

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GE23131 - Programming using C

Date: 25/09/21

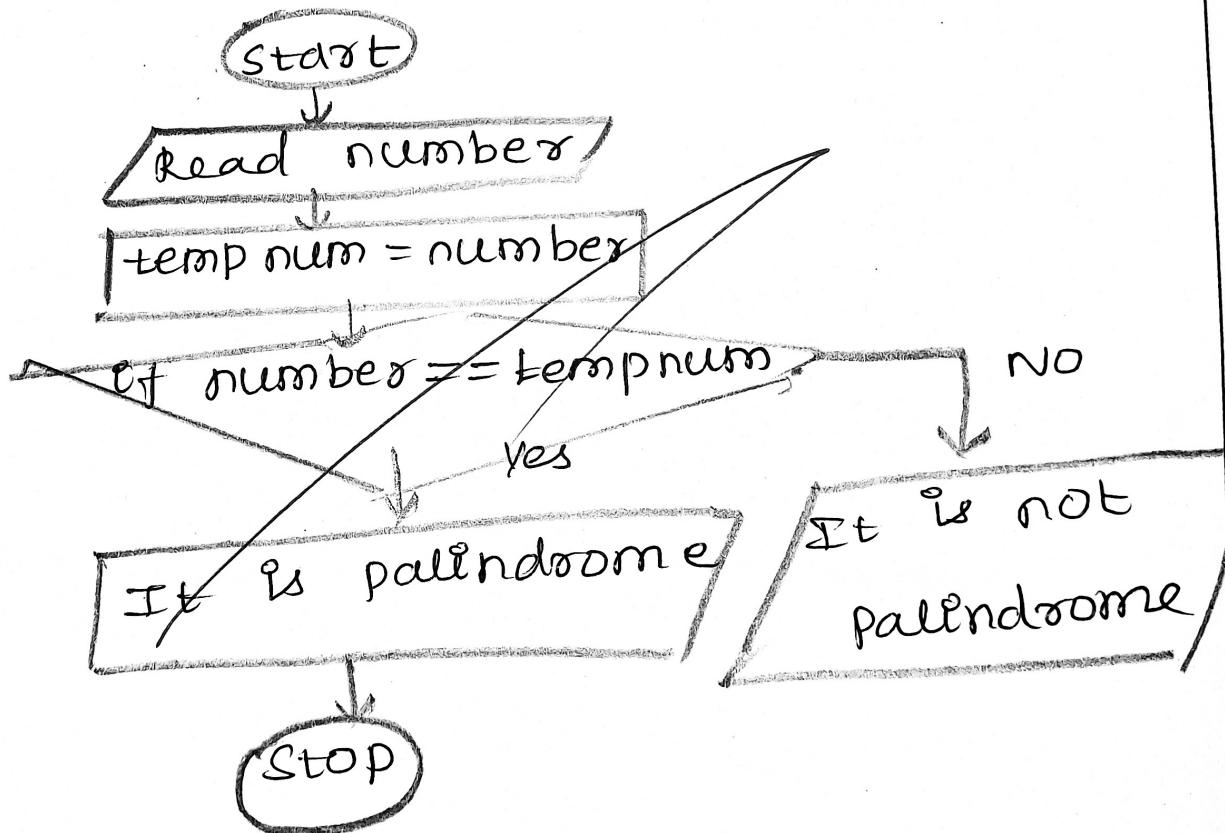
Palindrome Number

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 the number
- Step 3: Declare temp num = number
- Step 4: Check if number = tempnum, If this is true it is a palindrome.
- Step 5: If not, it is not a palindrome.
- Step 6: STOP.

Flowchart:



Ex. No.: 6

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Date: 25/09/24

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: Construct a variable to hold total and initialize the value to 0.
- Step 3: Divide the no. by 10 to obtain the rightmost digit using remaining "percent" operator - then add to the total.
- Step 4: Use % operator to divide the integer by 10 to the last digit.
- Step 5: print the total
- Step 6: STOP

Flowchart: