Table of contents

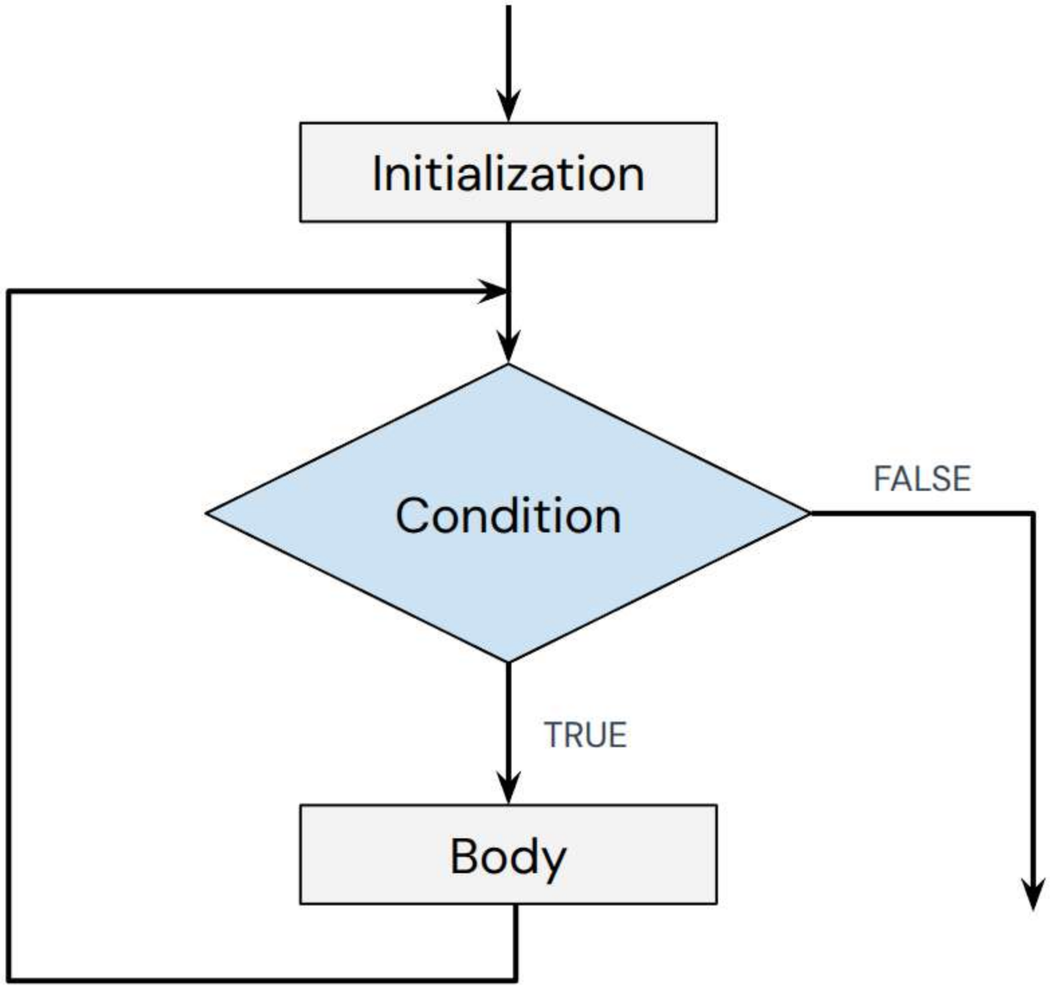
01

Flowchart for Loops

Flowchart for all types of loops

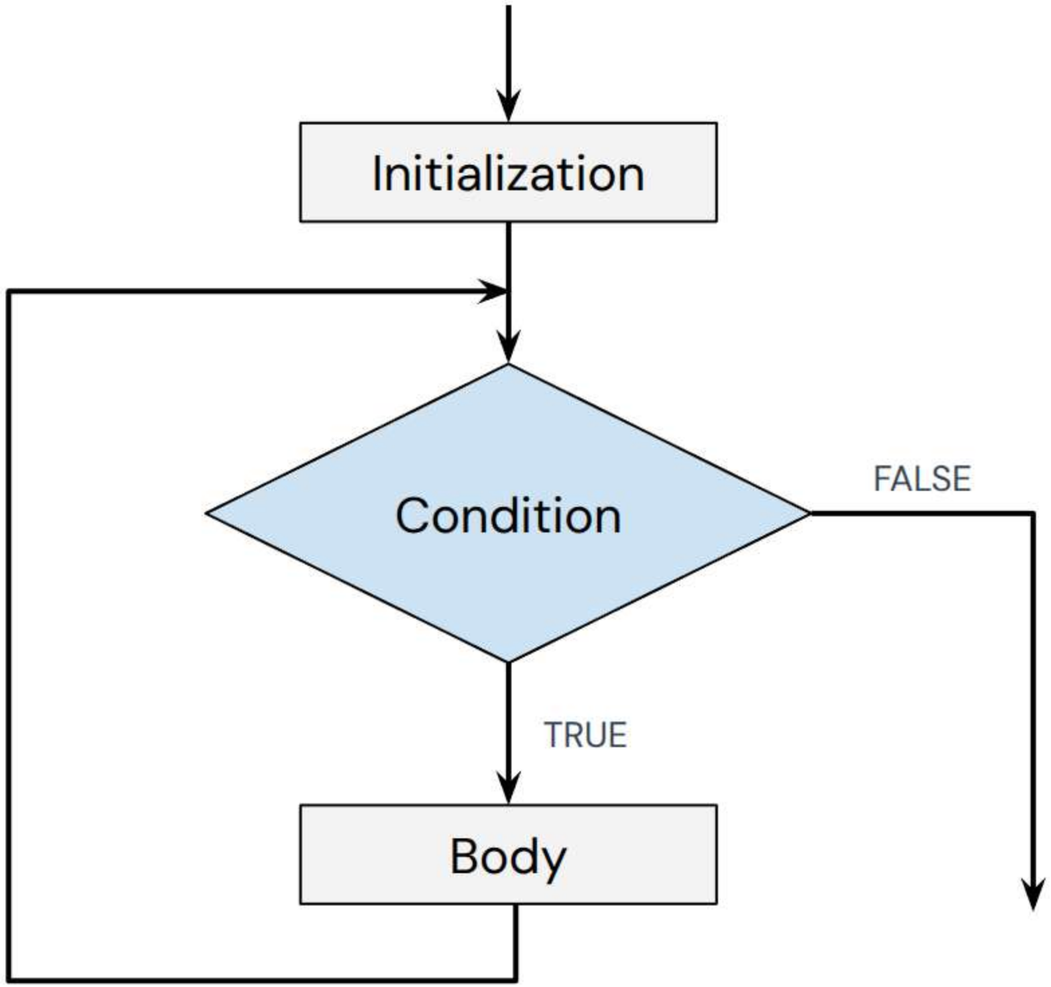
while loop

(Flowchart)



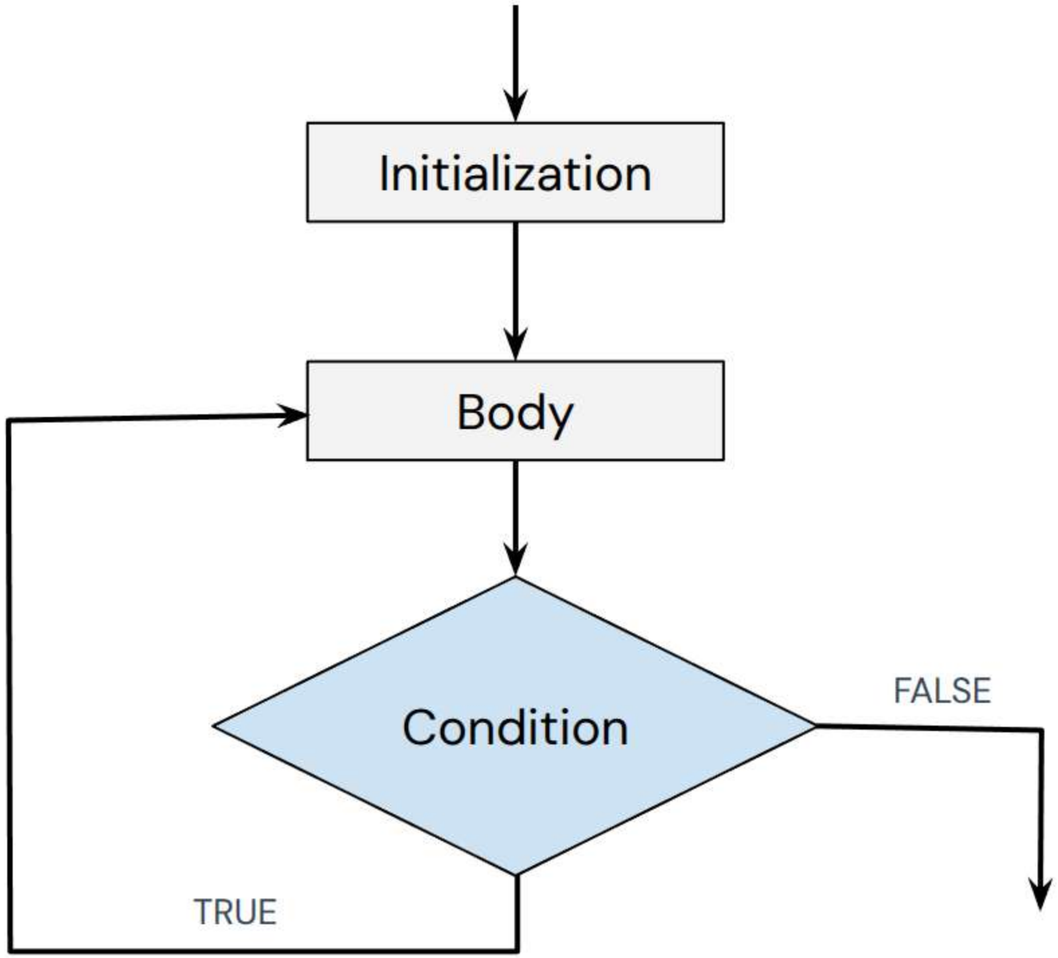
for loop

(Flowchart)



do while loop

(Flowchart)



02

Looping Exercises

Exercises of Looping with Algorithm and Flowchart

Q.1 Sum of N numbers

(Algorithm)

Step 1: Start

Step 2: Initialize variables

Step 3: Check for condition

Step 4: If the condition is true, then go to step 5 otherwise go to step 7

Step 5: sum = sum + i

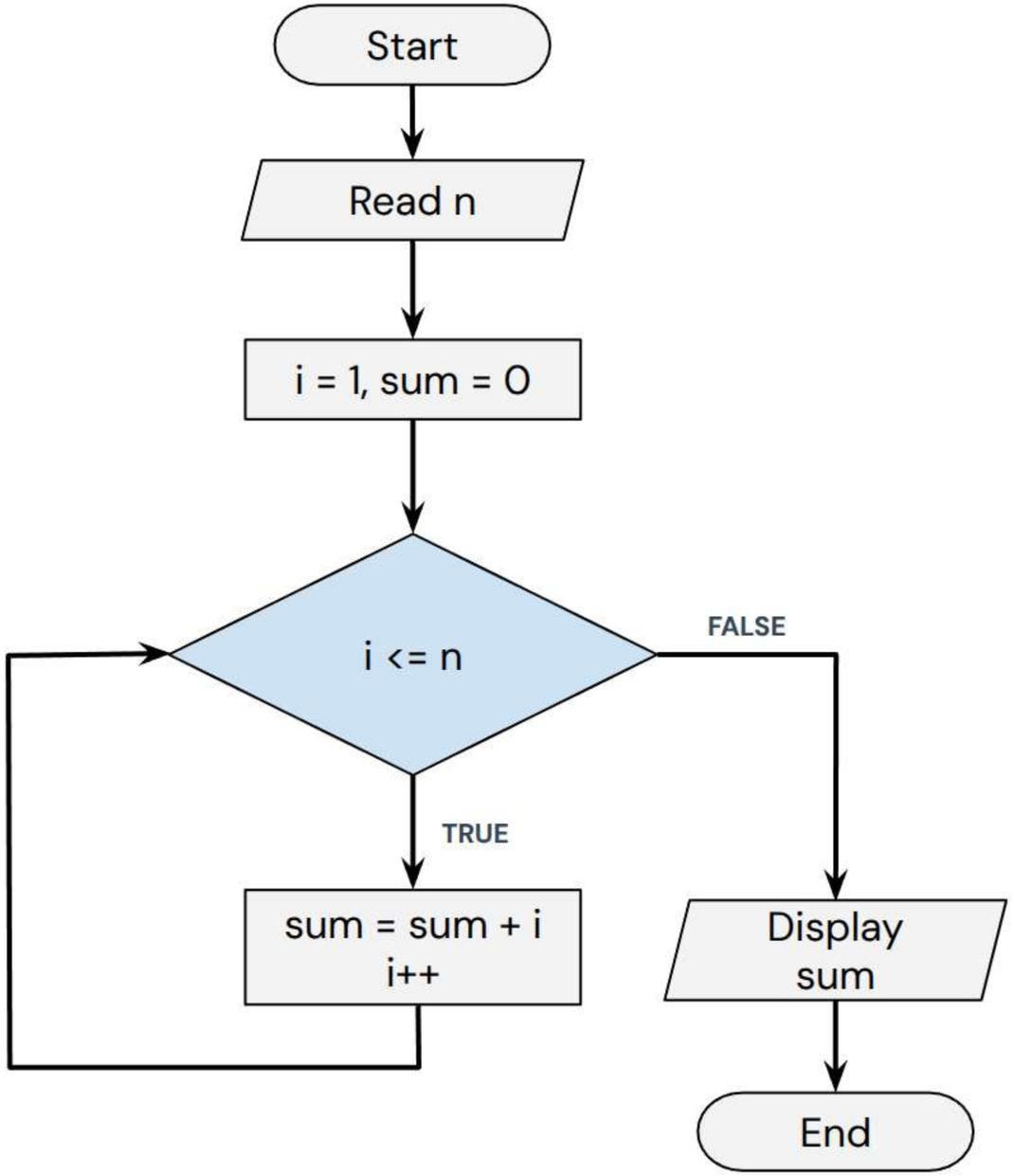
Step 6: Go to step 3

Step 7: Print value of sum

Step 8: End

Q.1 Sum of N numbers

(Flowchart)



Q.2 Factorial of a number

(Algorithm)

Step 1: Start

Step 2: Initialize variables

Step 3: Check for condition

Step 4: If the condition is true, then go to step 5 otherwise go to step 7

Step 5: fact = fact * i

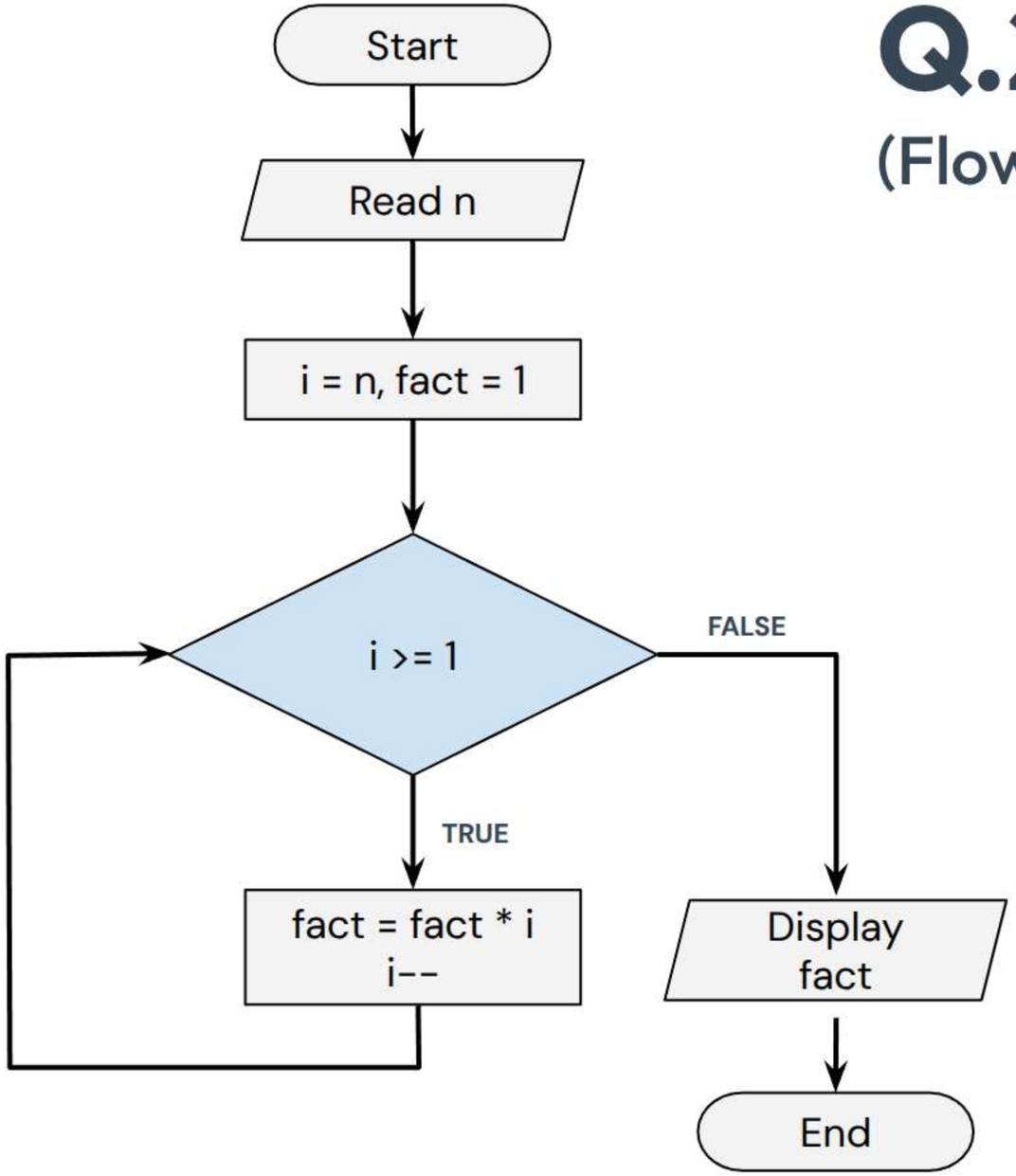
Step 6: Go to step 3

Step 7: Print value of fact

Step 8: End

Q.2 Factorial of a number

(Flowchart)



Q.3 Factors of a number

(Algorithm)

Step 1: Start

Step 2: Input the number **num**

Step 3: Initialize a variable **i** with 1

Step 4: Repeat steps 5-8 while **i** is less than or equal to **num**

Step 5: If **num** is divisible by **i** (num % i == 0), then go to step 6; otherwise, go to step 8

Step 6: Print **i** as a factor of **num**

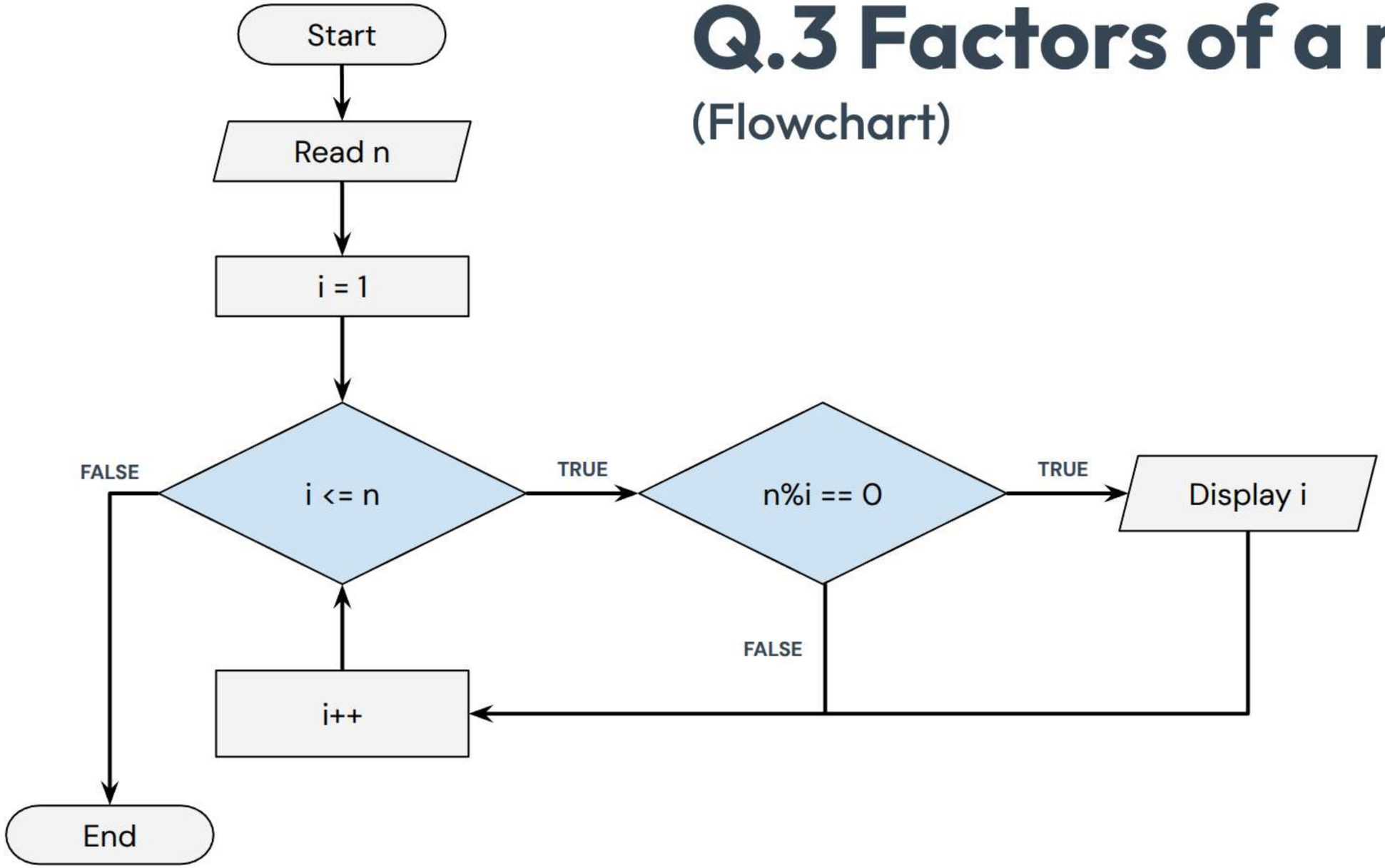
Step 7: Increment **i** by 1

Step 8: Go to step 4

Step 9: End

Q.3 Factors of a number

(Flowchart)



TL;DR

Flowchart for Loops

- Both while loop and for loop has same type of flowchart
- Always prepare an algorithm first before making a Flowchart

Looping Exercises

- Sum of N numbers
- Factorial of a number
- Factors of a number