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Looping Exercises

Exercises of Looping with Algorithm and Flowchart

01

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Exercises of Looping with Algorithm and Flowchart

Q.1 Multiplication table of N

(Algorithm)

Step 1: Start

Step 2: Input the number **num**

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

Step 4: Repeat steps 5-7 until **i** is less than or equal to **10**

Step 5: Display the table values in the given output format (num **x** i = **num*i**)

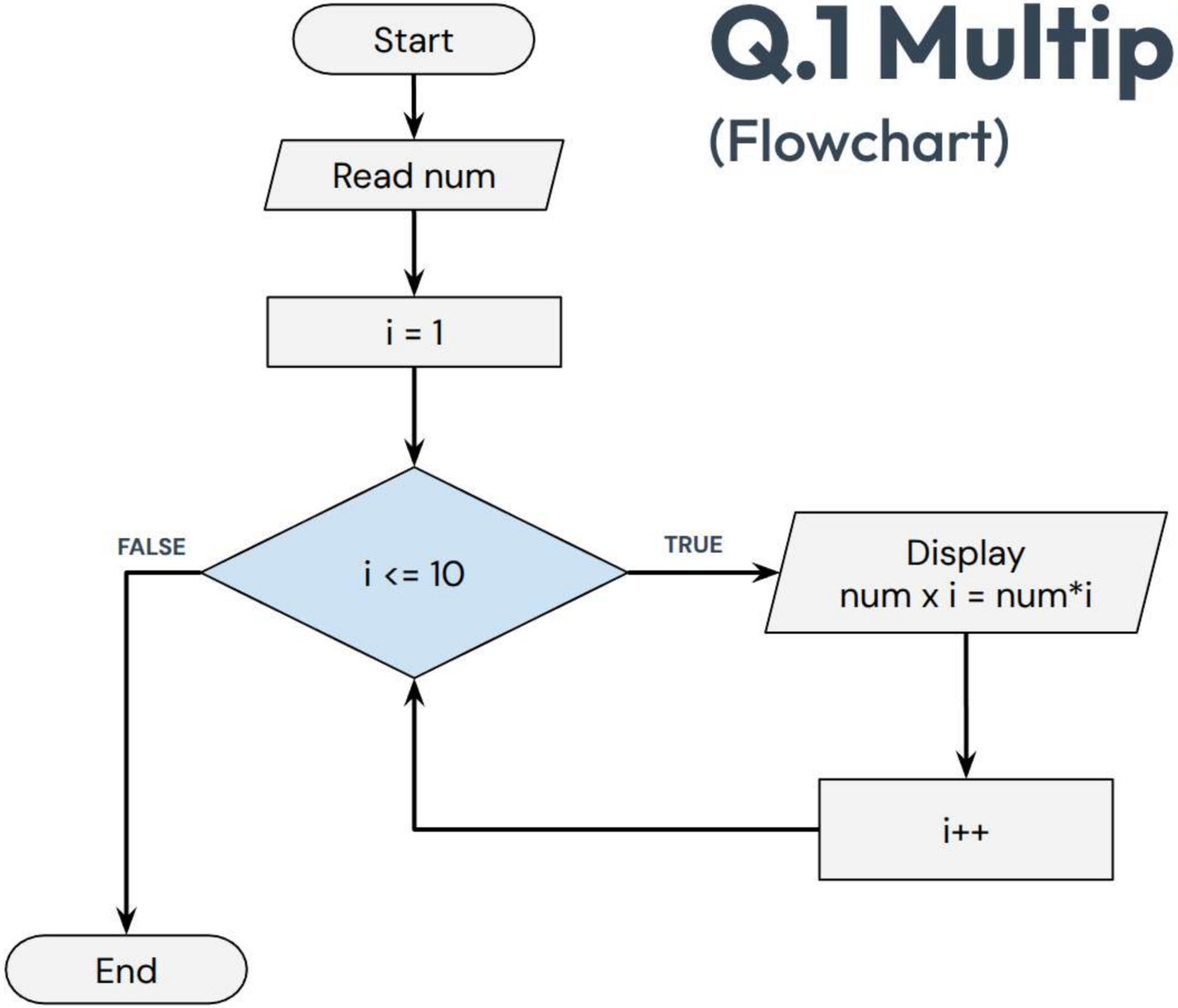
Step 6: Increment **i** by 1

Step 7: Go to step 4

Step 8: End

Q.1 Multiplication table of N

(Flowchart)



Q.2 Sum of all digits

(Algorithm)

Step 1: Start

Step 2: Input the **num**

Step 3: Initialize a variable **sum** to 0

Step 4: Repeat steps 5-8 until **num** is greater than 0

Step 5: Extract the last digit of **num** (lastDigit = num % 10)

Step 6: Add **lastDigit** to **sum** (sum = sum + lastDigit)

Step 7: Remove the last digit from **num** (num = num / 10)

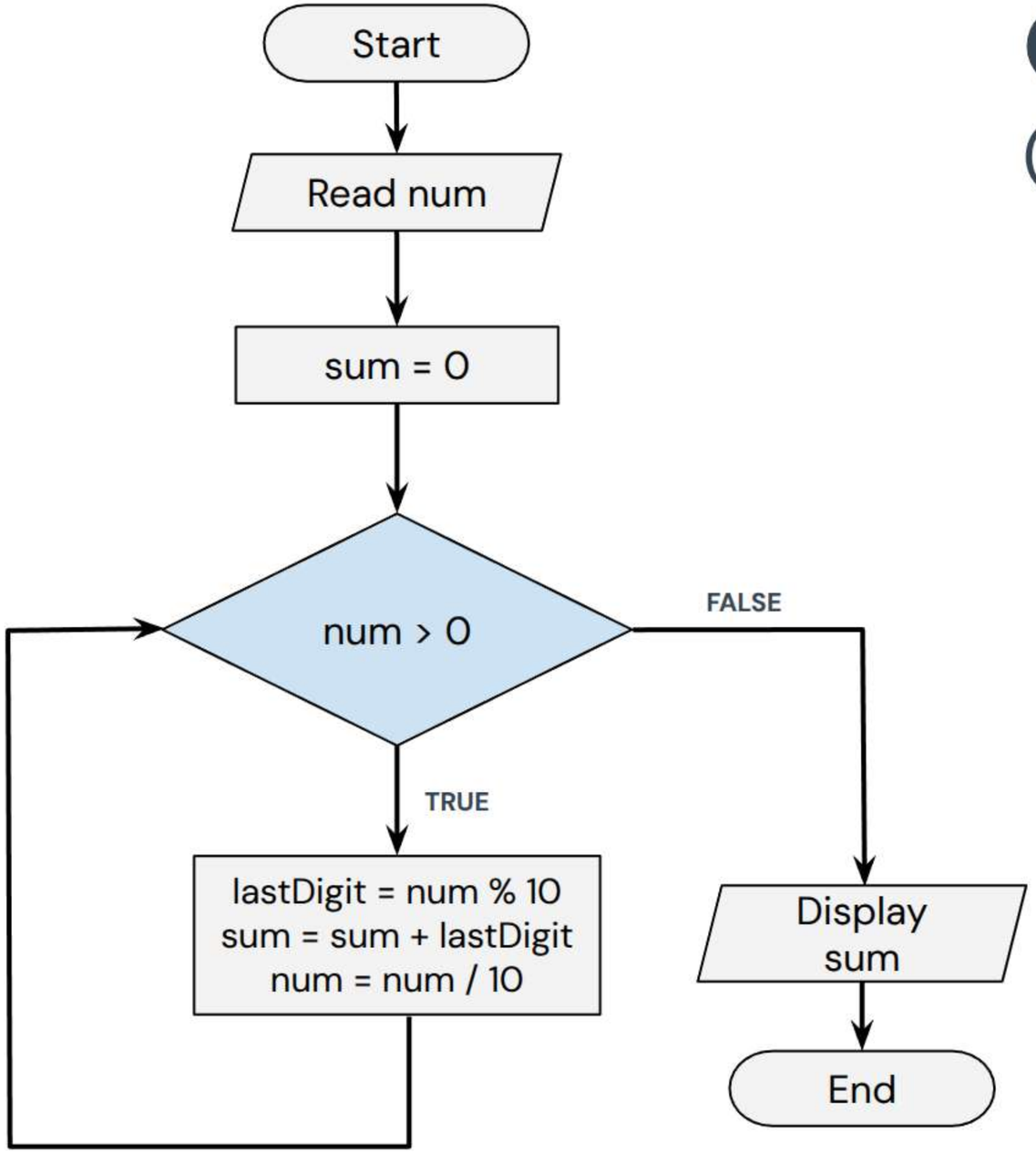
Step 8: Go to step 4

Step 9: Print **sum** as the sum of digits

Step 10: End

Q.2 Sum of all digits

(Flowchart)



Q.3 Sum of first & last digits

(Algorithm)

Step 1: Start

Step 2: Input the **num**

Step 3: Initialize a variable **sum** to 0

Step 4: Extract the last digit of **num** (lastDigit = num % 10)

Step 5: Repeat steps 6 until **num** is greater than or equal to 10

Step 6: Remove the last digit from **num** (num = num / 10)

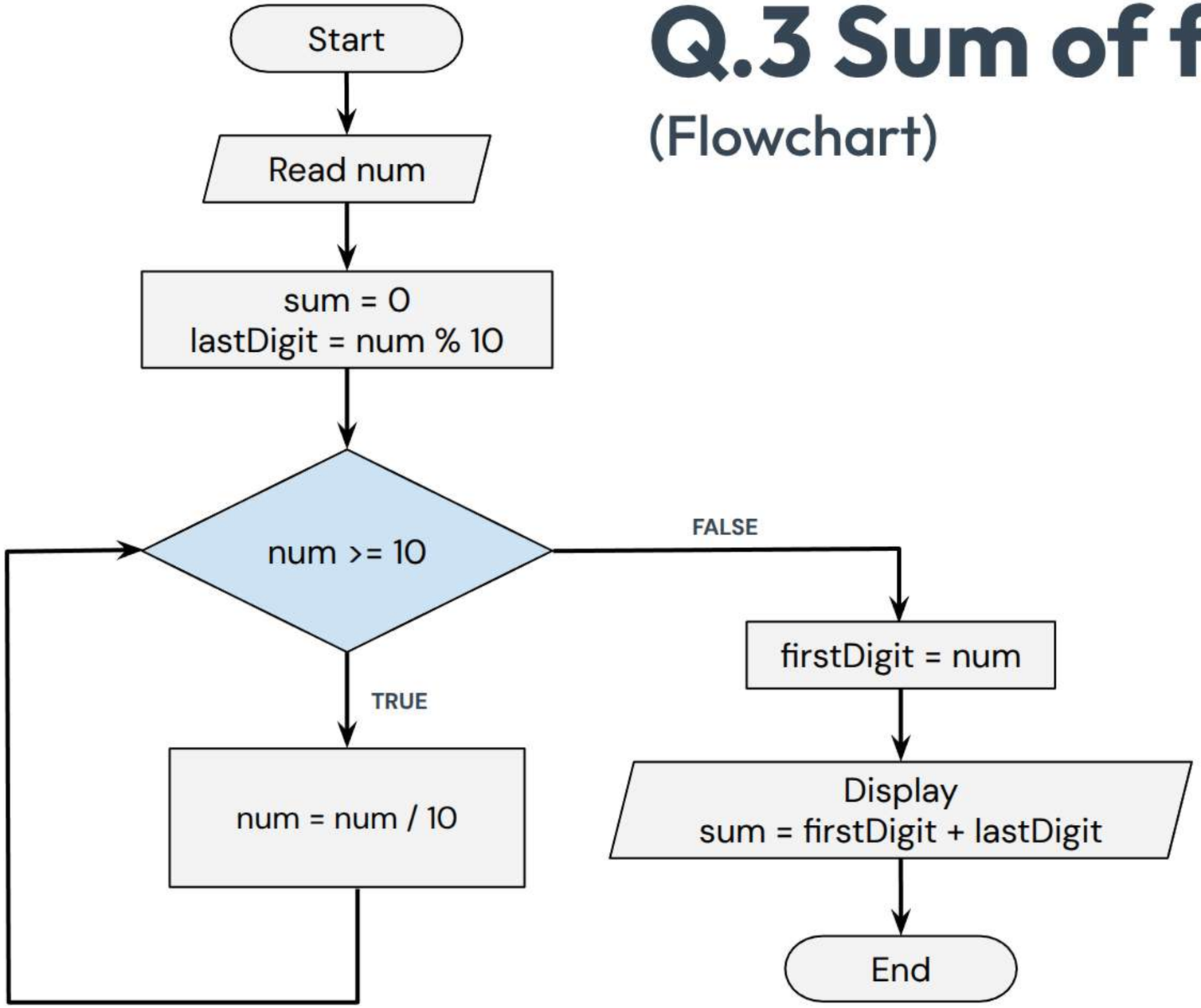
Step 7: Assign num to firstDigit

Step 8: Calculate and Print **sum** as the sum of firstDigit and lastDigit

Step 9: End

Q.3 Sum of first & last digits

(Flowchart)



TL;DR