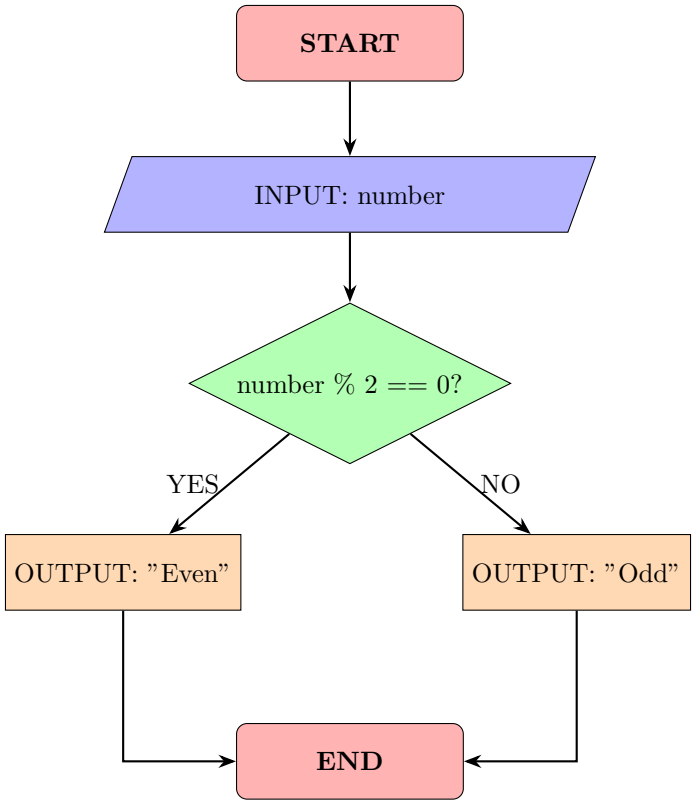
Algorithm Flowcharts - Topic 2

Attendance Recognition Project

October 5, 2025

1 Algorithm 1: Even/Odd Number Checker

This flowchart demonstrates a simple decision algorithm that determines whether a number is even or odd.

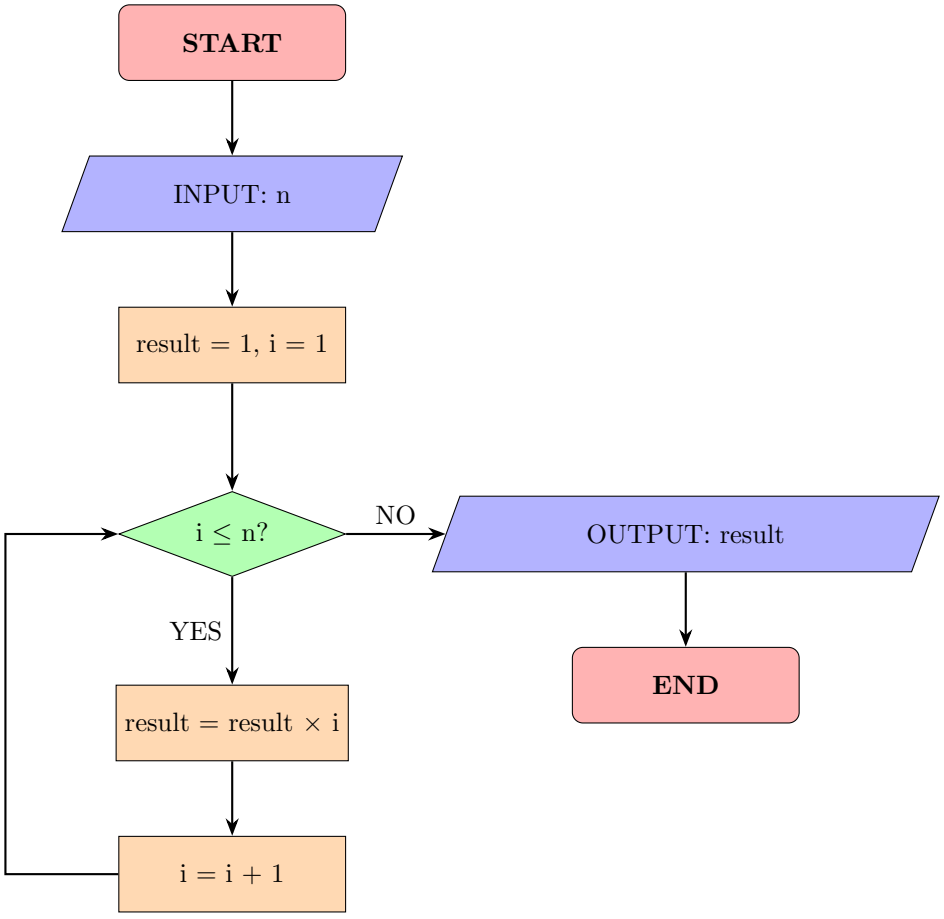


Algorithm Description:

1. Start the program
2. Read input number from user
3. Check if number modulo 2 equals 0
4. If YES: Display "Even"
5. If NO: Display "Odd"
6. End the program

2 Algorithm 2: Factorial Calculator

This flowchart shows a loop-based algorithm for calculating the factorial of a number.



Algorithm Description:

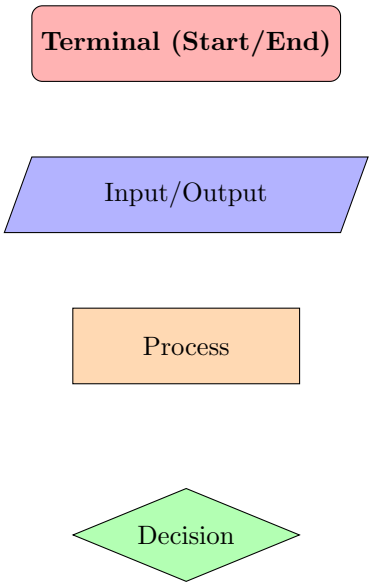
1. Start the program
2. Read input number n from user
3. Initialize result = 1 and counter i = 1
4. Check if i ≤ n
5. If YES:
   - Multiply result by i
   - Increment i by 1
   - Go back to step 4
6. If NO: Display result
7. End the program

Example: For n = 5:

- i=1: result = 1 × 1 = 1
- i=2: result = 1 × 2 = 2
- i=3: result = 2 × 3 = 6

- i=4: result = $6 \times 4 = 24$
- i=5: result = $24 \times 5 = 120$
- i=6 ¿ 5: Output 120

3 Flowchart Symbols Reference



Terminal: Indicates start or end of program

I/O: Data input or output operations

Process: Computation or operation

Decision: Conditional branching