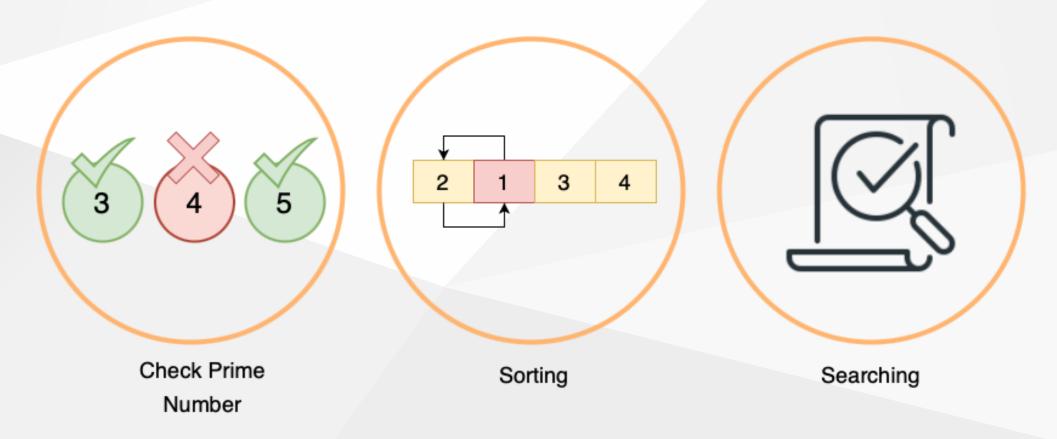# Algorithm

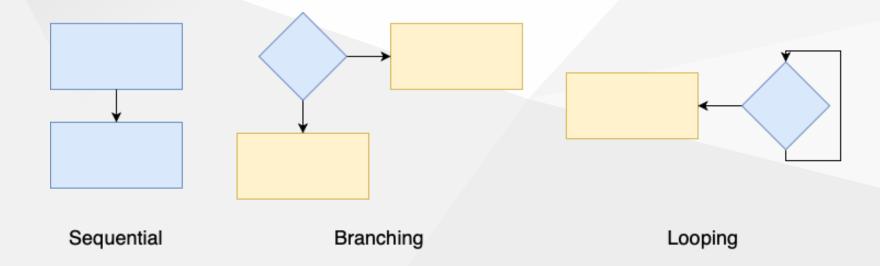Basic Algorithm

What is Algorithm?

INPUT → PROCESS → OUTPUT

Algorithm is a well defined **computational procedure** which takes some values as **input** and produces some values as **output**.
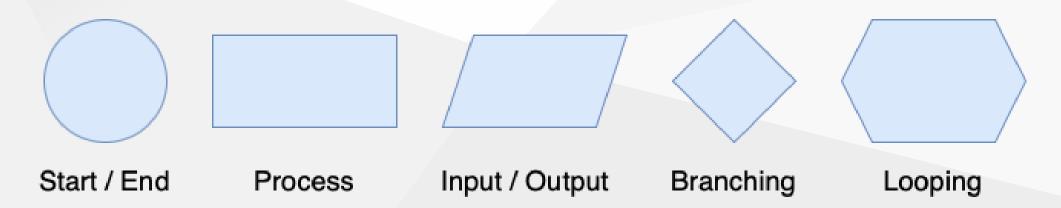
Example Implementation

Check Prime Number

Sorting

Searching

Characteristic

- Have **start** and **end**
- Well defined instructions
- Effective and eficient

Sequential   Branching   Looping

Flowchart
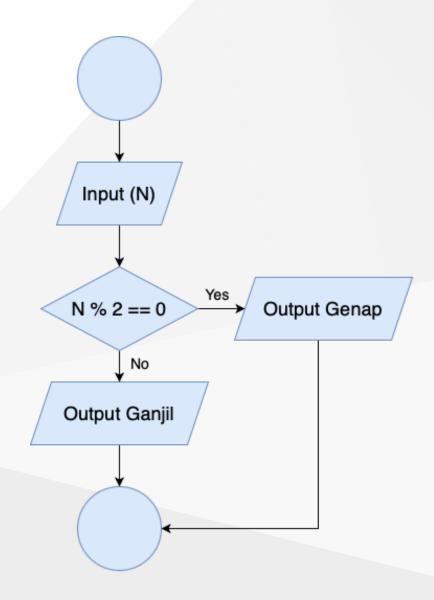
Flowchart is a chart with certain symbols that describe the **order** and **relationship** between processes in detail.

Flowchart Symbol

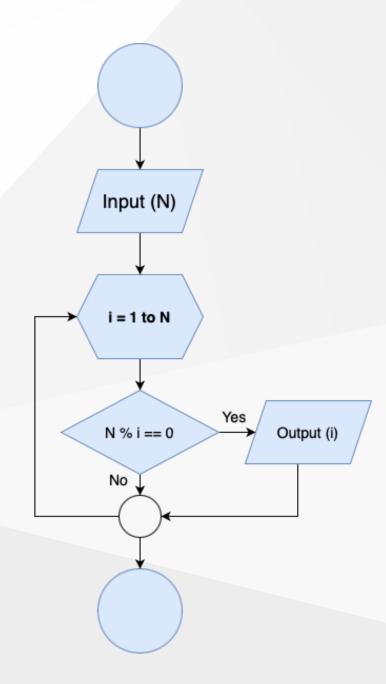| Start / End	Process	Input / Output	Branching	Looping

Study Case

Determine odd or even number

Study Case

Prints factor numbers

Tugas

A prime number is a natural number that is greater than 1, whose divisors are **1** and the **number itself**. The numbers **2** and **3** are **prime numbers**. The number 4 is not a prime number because it can be divided by 2. *Create a function to determine whether the inputted number is a prime number or not.* Example :

- Input: 3, Output: Prime Number
- Input: 7, Output: Prime Number
- Input: 10, Output: Not Prime Number