

Nation

Code

JavaScript++

Zeller's Algorithm

{codenation}[®]

Learning objectives

- } To understand what flow diagram and pseudo code are
- } To understand what an algorithm is
- } To write an algorithm by using pseudo code, and flow diagrams as outlines



Flow diagrams.

Zeller's algorithm

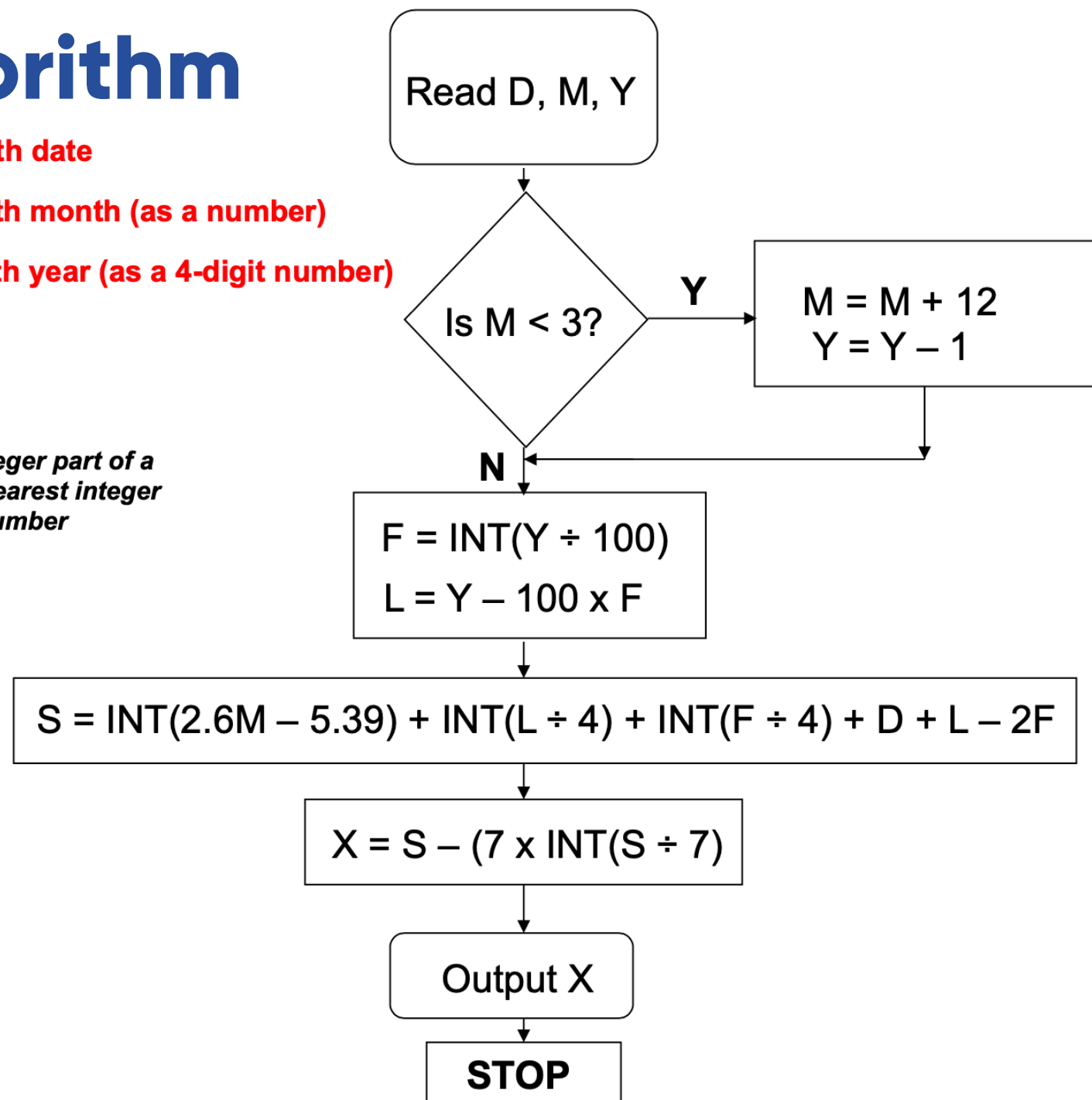


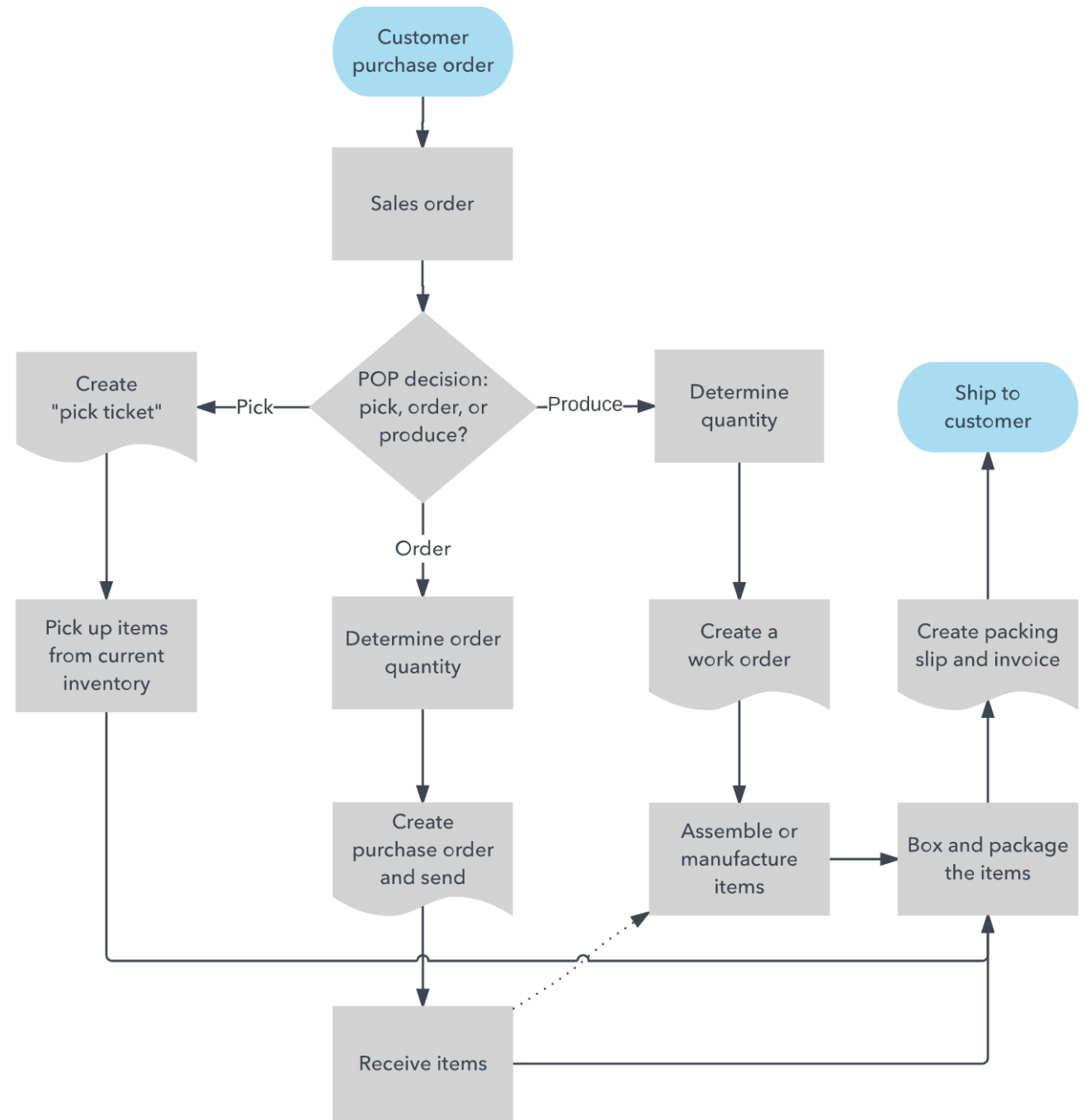
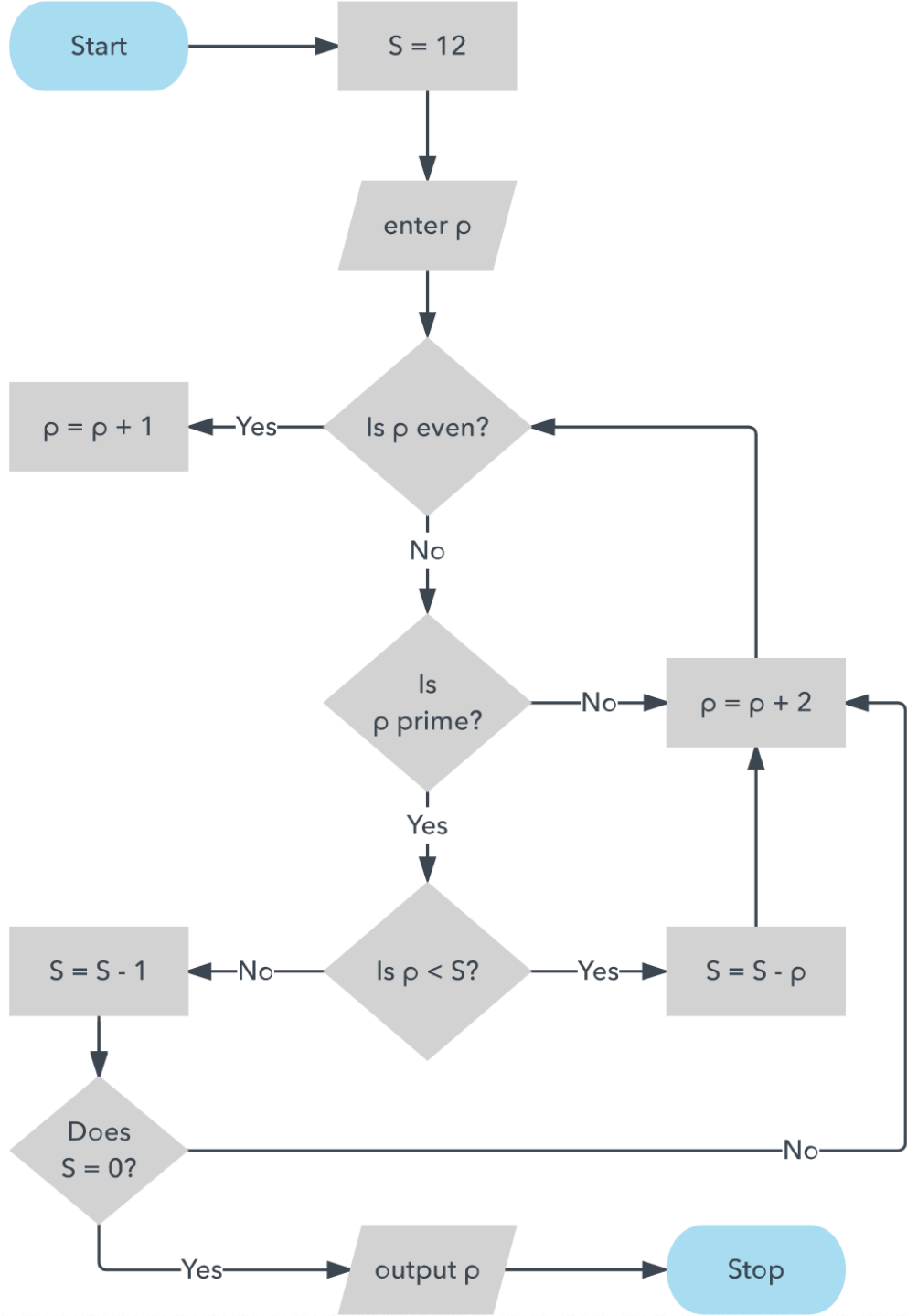
D = birth date



M = birth month (as a number)

Y = birth year (as a 4-digit number)

Note: INT = integer part of a number, the nearest integer BELOW that number





Flowchart Symbol	Name	Description
	Process symbol	Also known as an "Action Symbol," this shape represents a process, action, or function. It's the most widely-used symbol in flowcharting.
	Start/End symbol	Also known as the "Terminator Symbol," this symbol represents the start points, end points, and potential outcomes of a path. Often contains "Start" or "End" within the shape.



Document
symbol

Represents the input or output of a document, specifically. Examples of and input are receiving a report, email, or order. Examples of an output using a document symbol include generating a presentation, memo, or letter.



Decision symbol

Indicates a question to be answered — usually yes/no or true/false. The flowchart path may then split off into different branches depending on the answer or consequences thereafter.



Pseudo code.

Pseudocode:

Step by step written outline of your code to describe how an algorithm should work then convert these to the language of your choice

Zeller's algorithm

Pseudo Code {Cn}[®]

Input D, M, Y

Set variables Y, F, L, S, X

If $M < 3$

Calculate $M = M + 12$

Calculate $Y = Y - 1$

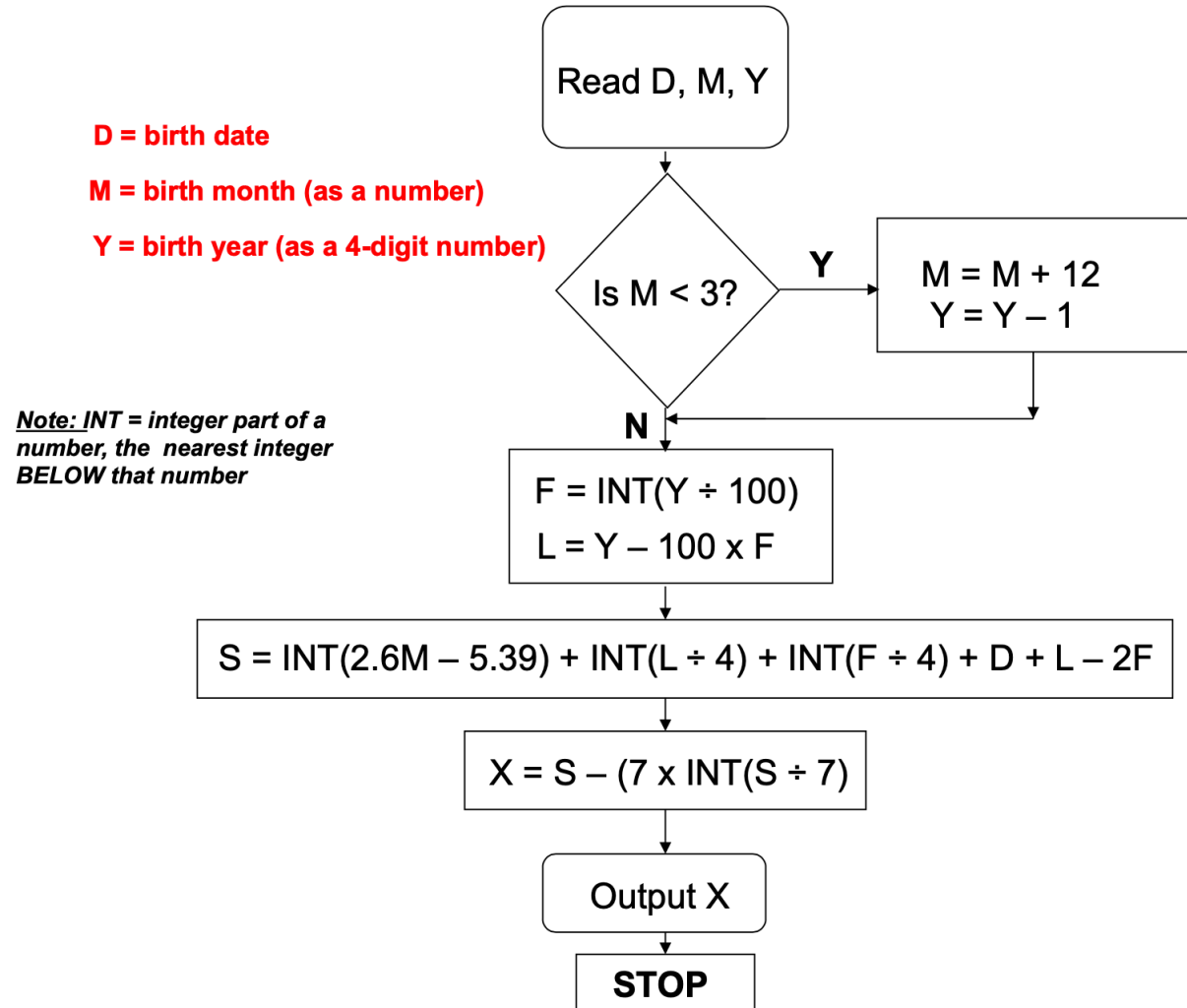
Calculate $F = \text{INT}(Y/100)$

Calculate $L = Y - 100 * F$

Calculate $S = \text{INT}(\dots) + \text{INT}(\dots) + \dots$

Calculate $X = \dots$

Output X





Let's write Zeller's algorithm.

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