



Problem Solving through Programming in C

COE 251

WEEK 1: HOW TO EXPRESS ALGORITHMS: FLOWCHARTS AND PSEUDOCODE



How to Express Algorithms – Flowchart and Pseudocode



How to Express Algorithms

Algorithm

Sequence of steps to be followed to solve a problem.

Flow Chart

Pseudo Code

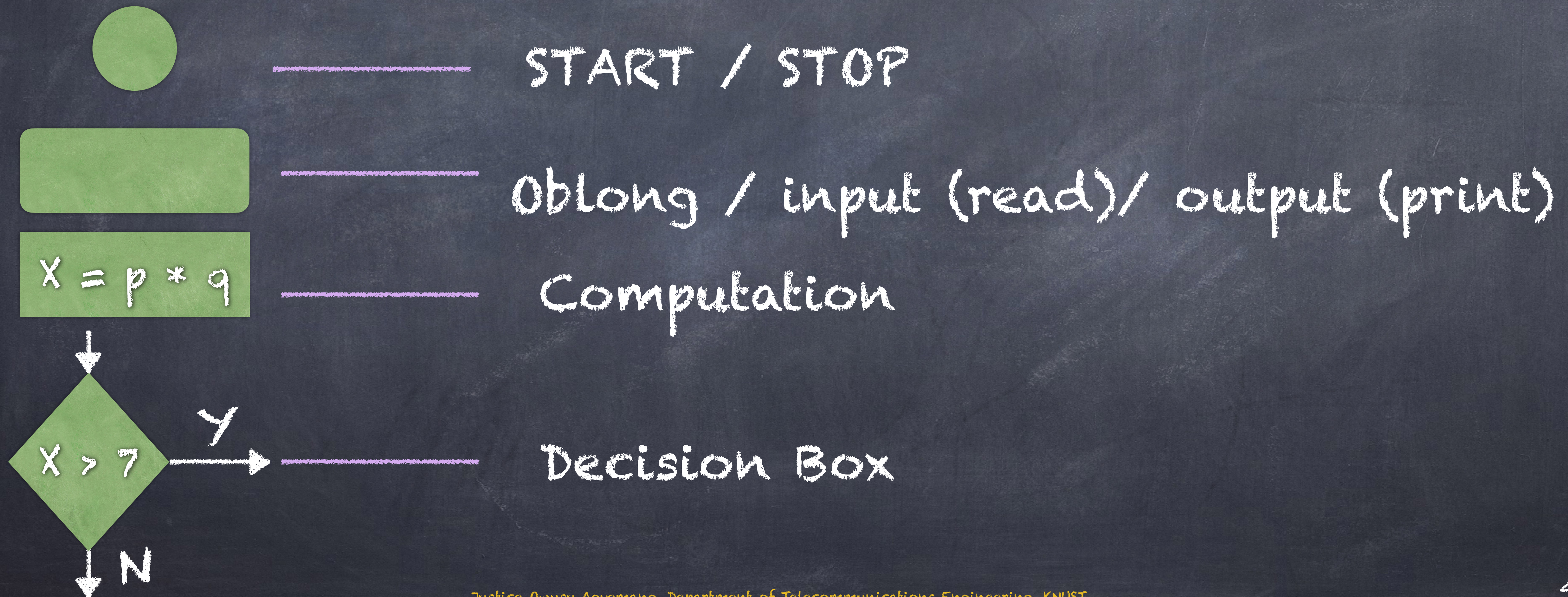
Diagram

English-Like Language



How to Express Algorithms

Fundamental Elements in a Flow chart.





How to Express Algorithms

Example 1:

Finding the average of 3 numbers.

Example 2:

Finding the average of "n" numbers.



How to Express Algorithms

Example 3:

Finding the maximum of 3 numbers.

Example 4:

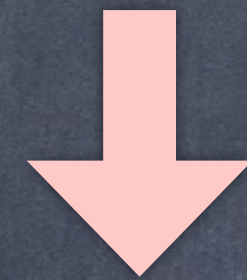
Finding the maximum of "n" numbers.



How to Express Algorithms

Recall:

Programming = A set of instructions to be provided to a computer to solve a problem.



Electronic Machine. → Only '0' and '1's

Question:

How do we translate algorithms into instructions for a computer to execute?



Next ...

Programming Language Concepts