IPO Charts

An IPO (Input, Processing & Output) chart can be used to analyze a problem. It breaks the problem into three components.

- 1. **Input** any data that is needed to solve the problem
- 2. **Processing** the task that will be carried out to solve the problem
- 3. **Output** the end result of the problem

An IPO chart is often a table with three columns, which represent the three components: input, output and processing.

Input	Processing	Output

To complete an IPO Chart follow the steps below using **Pseudocode** (not C++):

- 1. Write the input (what is needed from the person using the algorithm).
- 2. Write the output (the end result that is stated in the problem).
- 3. For processing, ask yourself the following question, "What do I have to do with the inputs in order to produce the desired output?" Then write down what should be done.

For example, an IPO chart for a program that calculates a user's gross pay would look like this:

Input	Processing	Output
Get number of hours worked	Calculate gross pay	Display gross pay
Get hourly pay rate	(hours * rate)	

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