# Algorithm Description – Sounds Fishy

In plain English, point-form, think through the steps necessary to solve the given problem.

Make use of key words like *compare*, *iterate*, *store*.

In code, of course, these translate to conditional statements, loops, and using variables.

## Algorithm

INPUT

* Check to see if input is a positive integer
  + If number is positive, return the prompt and ask for the next prompt (max of 4 prompts)
    - If not return ask the user for the prompt again
      * Check to see if input is an integer
        + If not return and ask the user for the prompt again

PROCESS

* Check if numbers are increasing
  + Check if numbers are decreasing
    - Check if numbers are constant
      * Check if there are invalid inputs

OUTPUT

* If numbers are increasing, return Fish Rising
  + If numbers are decreasing, return Fish Diving
    - If numbers are constant, return Fish at Constant Depth
      * If number are not increasing, decreasing or constant, return No Fish