# 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

* Iterate through input array
  + If cell is empty, accept input
    - Prompt user
      * Cast input to string
        + Cast string to int

Ensure int is more than 0

Store int in array

Repeat for next cell

PROCESS

* Check if all cells are equal to each other
  + If true, return constant depth
* Iterate through array
  + If cell < last cell for each cell in array (except first) return rising
  + If cell > last cell for each cell in array (except first) return diving

OUTPUT

* Return “Fish \(position)”
  + Position = Rising, Diving, At Constant Depth