# 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

* Collect four inputs
  + Iterate until valid input is received
    - Show user prompt
    - Get input
    - Check whether input is an integer
      * Check if the input is larger than 0
      * Else prompt user again
  + Store all 4 reading integers

PROCESS

* Use comparison operators to compare all readings
* If reading 4 is greater than all other readings, then it is increasing
* If reading 1 is greater than all readings and reading 2 is greater than reading 3 etc then it is decreasing

OUTPUT

* If it is increasing or reading 4 is greater than 3 and 3 larger then 2 etc then print Fish Rising
* If it is increasing or reading 1 is greater than 2 and 2 larger then 3 etc then print Fish Diving
* If all readings are the same then print Fish At constant depth
* Else print error