# 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

* Take input of depth
  + Ensure it is an integer and that it is greater than 0
  + Get the next reading using the same checks until all 4 have been collected

PROCESS

* Make a for loop iterating over each depth reading
  + Check if each term is greater than the previous, if this is not the case set output to no fish. If it is the case set output to fish rising
  + Check if each term is less than the previous, if this is not the case set output to no fish. If it is the case set output to fish diving
  + Check if all depths are equal meaning the fish is at a constant depth

OUTPUT

* Print output variable