# Test Plan – Sounds Fishy

Necessary cases to test will vary by problem.

As a starting point, write a test plan that looks for:

* the typical cases for the problem given
* the boundary conditions on all input values
* invalid inputs

Show the input sequence for a given case, and list the expected output.

| Test Cases | |
| --- | --- |
| **Description** | **Given Input (in bold) and Expected Output** |
| Typical case(s)   * Because the depth is increasing, the fish is rising | Reading 1? **10**  Reading 2? **12**  Reading 3? **14**  Reading 4? **16** Fish Rising |
| * Because the depth is decreasing, the fish is diving | Reading 1? **10**  Reading 2? **7**  Reading 3? **6**  Reading 4? **1** Fish Diving |
| * Because the depth doesn’t change, the fish is at a constant depth | Reading 1? **10**  Reading 2? **10**  Reading 3? **10**  Reading 4? **10** Fish At Constant Depth |
| * Because the depths are not increasing or decreasing in order, there is no fish | Reading 1? **10**  Reading 2? **2**  Reading 3? **4**  Reading 4? **1** No Fish |
| Boundary condition(s) | Reading 1? **1**  Reading 2? **1**  Reading 3? **1**  Reading 4? **1** Fish At Constant Depth |
|  |  |
| Invalid input(s)   * The input should only take integers | Reading 1? **foo**  Reading 1? **10**  Reading 2? **12**  Reading 3? **14**  Reading 4? **16** Fish Rising |