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

Test Cases		
Description	**Given Input (in bold) and Expected Output**	**Points**
Prompts exactly as required (one point for each prompt)	`Reading 1?` **1** `Reading 2?` **2** `Reading 3?` **3** `Reading 4?` **4** `Fish Rising`	0 1 2 3 4
Typical case – Fish Rising	`Reading 1?` **13** `Reading 2?` **15** `Reading 3?` **19** `Reading 4?` **20** `Fish Rising`	0 1
Typical case – Fish Diving	`Reading 1?` **12** `Reading 2?` **9** `Reading 3?` **8** `Reading 4?` **1** `Fish Diving`	0 1
Typical case – Fish at Constant Depth	`Reading 1?` **4** `Reading 2?` **4** `Reading 3?` **4** `Reading 4?` **4** `Fish At Constant Depth`	0 1

Test Cases

Description	Given Input (in bold) and Expected Output	Points
Typical case – No Fish – 1st and 4th readings same	Reading 1? **11** Reading 2? **12** Reading 3? **13** Reading 4? **11** No Fish	0 1
Typical case – No Fish – 1st and 3rd readings same	Reading 1? **11** Reading 2? **12** Reading 3? **11** Reading 4? **13** No Fish	0 1
Typical case – No Fish – 1st and 2nd readings same	Reading 1? **11** Reading 2? **11** Reading 3? **12** Reading 4? **13** No Fish	0 1
Typical case – No Fish – 2nd and 3rd readings same	Reading 1? **12** Reading 2? **11** Reading 3? **11** Reading 4? **13** No Fish	0 1
Typical case – No Fish – 2nd and 4th readings same	Reading 1? **12** Reading 2? **11** Reading 3? **13** Reading 4? **11** No Fish	0 1
Typical case – No Fish – 3rd and 4th readings same	Reading 1? **12** Reading 2? **13** Reading 3? **11** Reading 4? **11** No Fish	0 1

Test Cases

Description	Given Input (in bold) and Expected Output	Points
Typical case – No Fish – Only first different	Reading 1? **11** Reading 2? **23** Reading 3? **23** Reading 4? **23** No Fish	0 1
Typical case – No Fish – Only second different	Reading 1? **12** Reading 2? **11** Reading 3? **12** Reading 4? **12** No Fish	0 1
Typical case – No Fish – Only third different	Reading 1? **12** Reading 2? **12** Reading 3? **11** Reading 4? **12** No Fish	0 1
Typical case – No Fish – Only fourth different	Reading 1? **12** Reading 2? **12** Reading 3? **12** Reading 4? **11** No Fish	0 1
Boundary conditions – Zero at each reading	Reading 1? **0** Reading 1? **10** Reading 2? **0** Reading 2? **10** Reading 3? **0** Reading 3? **10** Reading 4? **0** Reading 4? **10** Fish At Constant Depth	0 1 2 3 4

Test Cases

Description	Given Input (in bold) and Expected Output	Points
Invalid inputs - negative value - decimal value - string	``` Reading 1? Reading 1? -1 Reading 1? 1.5 Reading 1? bananas Reading 1? % Reading 1? 10 Reading 2? 10 Reading 3? 10 Reading 4? 10 Fish At Constant Depth ```	0 1 2 3