# Test Plan – Triangle Times

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 | |
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| **Description** | **Given Input (in bold) and Expected Output** |
| Typical case(s) | Prompt?  **input**  **Angle 1: 80**  **Angle 2: 70**  **Angle 3: 30**  Output: Scalene |
| We tested an invalid input as well as an equilateral triangle | **input**  **Angle 1: 0**  **Angle 1: 60**  **Angle 2: 60**  **Angle 3: 60** Output: Equilateral |
| We tested typical test cases. | **input**  **Angle 1: 50**  **Angle 2: 50**  **Angle 3: 80**  Output: Isosceles |
| Boundary condition(s) | Prompt?  **input**  **Angle 1: 0**  **Angle 1: 99**  **Angle 2: 1**  **Angle 3: 80**  Output: Scalene |
| We tested high boundaries | **Input**  **Angle 1: 178**  **Angle 2: 1**  **Angle 3: 1**  Output: Isosceles |
| We tested low and high end boundaries | **Input**  **Angle 1: 90**  **Angle 2: 89**  **Angle 3: 1**  Output: Scalene |
| Invalid input(s)  We tested emojis. | Prompt?  **Input**  **Angle 1:** 👘  **Angle 1: 188**  **Angle 1: 1**  **Angle 2: 2**  **Angle 3: 100**  Output: error |
| We tested words and negative numbers | **input**  **Angle 1: foo**  **Angle 1: -100**  **Angle 1: 1**  **Angle 2: 100**  **Angle 3: 79**  Output: error |
| We tested with a sum of numbers more than 180 as well as words. | **input**  **Angle 1: 100**  **Angle 2: 100**  **Angle 3: foo**  **Angle 3: 2**  Output: error |