The *TriangleType* Problem

> **Context:**
>
> Global Positioning System (GPS) determines the position of the receiver using triangulation (a geometric and trigonometric technique). As a part of the computation the system needs to determine the triangle type.
>
> **Problem statement:**
>
> The input to the TriangleType function are three numbers a, b and c that represent the lengths of the three sides of the triangle. Based on these inputs the function determines the type of the triangle, which can be
>
> - Equilateral (i.e. all three sides are equal)
>
> - Isosceles (two equal sides)
>
> - Scalene (three unequal sides)
>
> The function returns the result in the form of the character string, e.g. 'Equilateral' if the triangle is equilateral.

1. Prepare the Software Requirements document for the TriangleType function.

2. Prepare a flowchart for the above function using the basic symbols shown below.

Symbol	Meaning	Symbol	Meaning
→	Flow direction	(rounded rectangle)	Start / Stop
(rectangle)	Process	(document shape)	Report or document
(diamond)	Decision	(trapezoid)	Manual process
(monitor shape)	Monitor	(cylinder)	Disk master file
(data input shape)	Data input device (keyboard)	(disk shape)	Disk transaction file