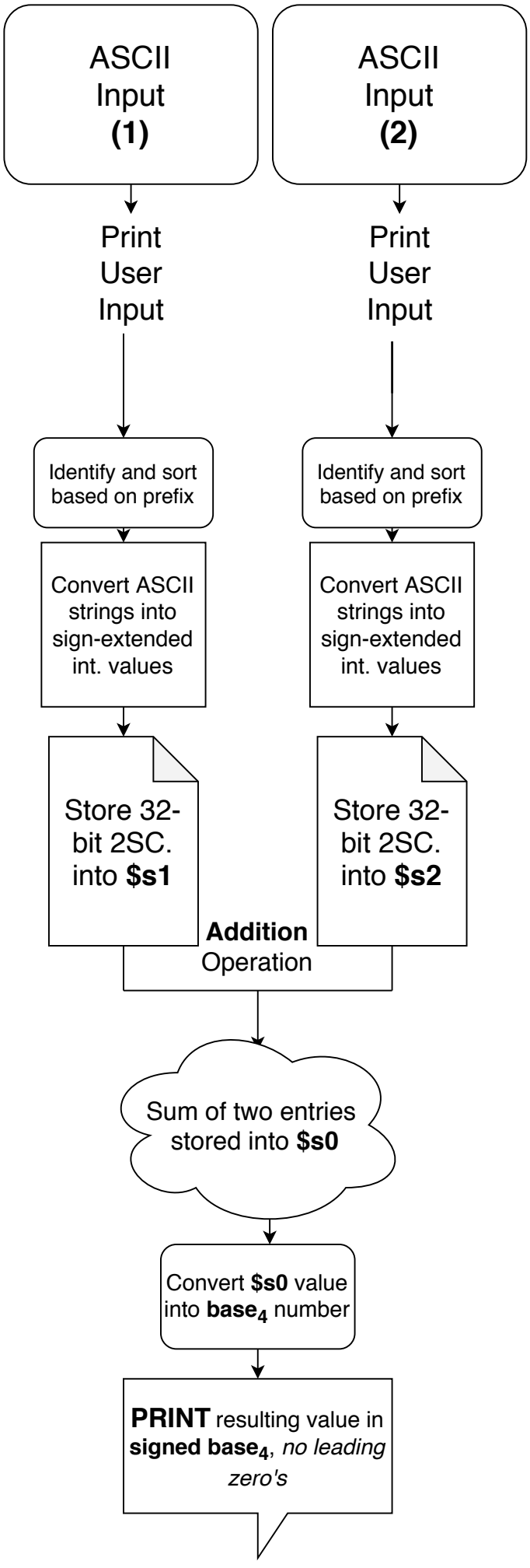

Input System

Accepts binary, hexadecimal, and possibly signed decimal inputs. Proceeds to print the recorded value to the user interface or display.

Sorting System

Takes temporary values and sorts by prefix, isolating hexadecimal (**0x**) and binary (**0b**) and misc.

ASCII Conversion

Converts ASCII character strings into tangible integer values for subsequent addition operation.

Addition Operation

Add together the 32-bit 2SC. integers and store the resulting value into **$s0** for later use.

Convert to Base$_4$

Take **$s0** and manipulate stored value to convert into a **signed**, **base$_4$** resultant.

Display Answer

After adding **$s1** and **$s2** as well as converting **$s0** to **base$_4$**, we display our answer to the output screen. *If the sign bit is negative, print a negative sign. If positive, only print magnitude.*