

HW 12: Array Count Subprogram

Assignment: Write a **TOY** AL subprogram that returns in register **\$F** the number of *unsigned* values in an array that are greater than some specified cut-off value.

Subprogram interface:

On entry:

Register **\$1** is the return address of the caller.

Register **\$A** is **@A** (memory address of the array **A**).

Register **\$B** is **n** (# of elements in the array **A**).

Register **\$C** is **c** (cut-off value).

On exit:

Register **\$F** is # of elements of **A** greater than **c**.

Registers **\$4** to **\$E** may have changed.

Registers **\$0** to **\$3** are unchanged.

Main memory is unchanged.