**Explanation of get\_chars\_sub.asm**

File name: get\_chars\_sub.asm

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Loading address: x4300

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Assembly language: LC-3

File description:

Reads the users input for up to four characters or until they press 'Enter'. Converts that input into binary and leaves that value in R0. If a non-integer is entered, a negative error code will be left in R1. Does not print prompt. This is not a full program. This is a subroutine for prime\_detector.asm.

Dependencies: read.asm (x4000), multiply.asm (x4100), string2num.asm (x4200)

Parameters: None

Return values: binary input number in R0, error code in R1

Loading the file:

Open <https://wchargin.github.io/lc3web/>. Click the assemble button. Drag and drop this file into the text field. Click assemble. Click load into simulator. Do the same for all the dependencies (without reloading the page).