Autograder Syntax Guide

Here is a syntax guide for the autograder. Please do not hesitate to ask questions if you are unsure if something will work. We will notify everyone if we add to this list.

1. One line per instruction
   1. Correct: LDR R0,R0,#1

STR R0,R0,#2

* 1. Incorrect: LDR R0,R0,#1 STR R0,R0,#2

1. Use capital letters
   1. Correct: ST R0,#2
   2. Incorrect: st r0,#2
2. Use commas between operands
   1. Correct: AND R0,R0,#0
   2. Incorrect: AND R0 R0 0
3. Labels come without colons
   1. Correct: LOOP ADD R0,R0,#4
   2. Incorrect: LOOP: ADD R0,R0,#4
4. Labels should be less than 10 characters. (This is a matter of style as well.)
   1. Correct: DISC LD R0,#-2
   2. Incorrect: DISCRIMINANT LD R0,#-2
5. Hex-valued immediates should be all positive and preceded by lowercase ‘x’.
   1. Correct: H .FILL x48
   2. Incorrect: H .FILL 0x-48
6. Decimal-valued immediates should be preceded by #, unless used in a pseudo-op.
   1. Correct: NULL AND R0,R0,#1

ZERO .FILL 0

* 1. Incorrect: NULL AND R0,R0,-1

ZERO .FILL #-10