**COMP 122 Intro to Assembly Programming Spring 2021**

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**Lab #: 4 Software Interrupts** LAB FORM

Requirements 

1. Decode Pending Interrupts

2. Allocate memory for Handlers

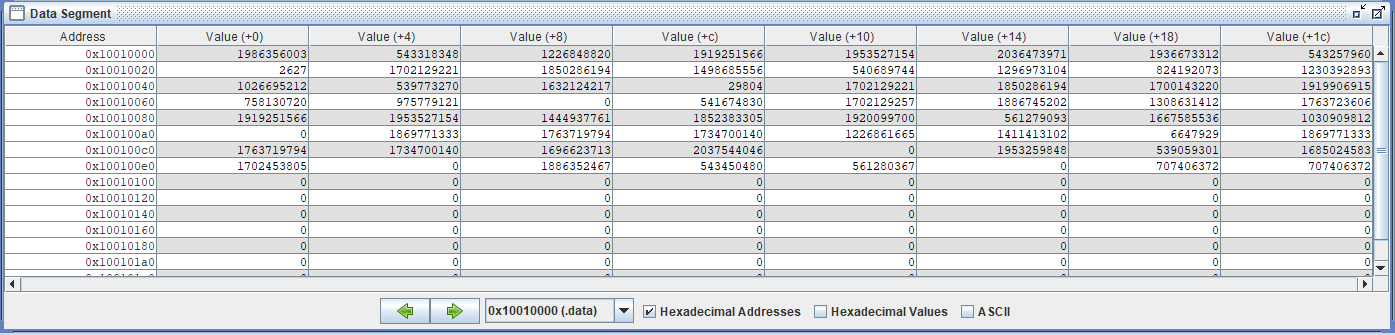
3. Use Jump Table

1. Order by Priority
2. Test and Jump
3. Handlers as subroutines: jal -> jr $ra

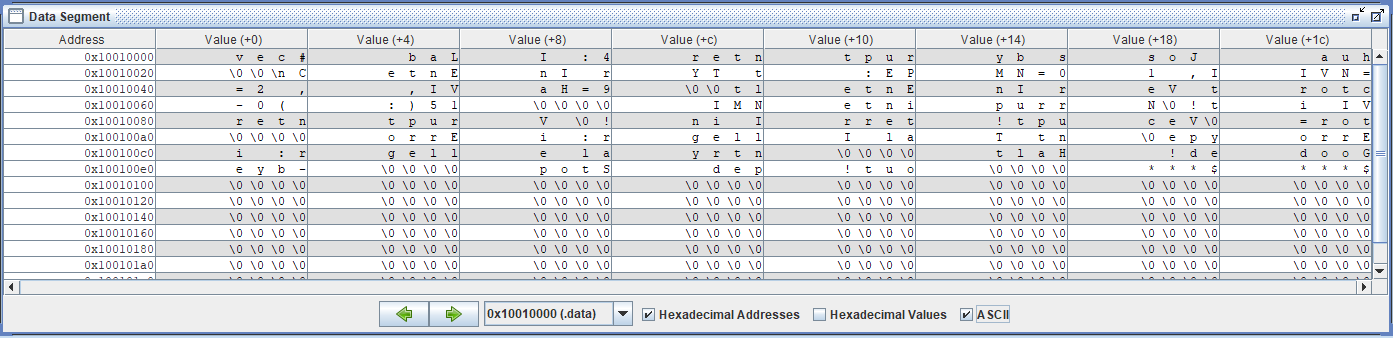
Inputs

*paste here screenshots of all inputs (not code): .data segment & GUI/console*

Data Segment: (Hexadecimal Addresses)



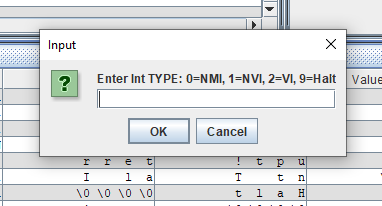
(ASCII):



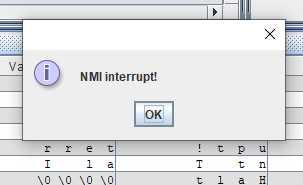
Outputs (note: you must execute the code to get outputs)

*paste here screenshots of all outputs (not code): console/GUI, .data, .heap, registers*

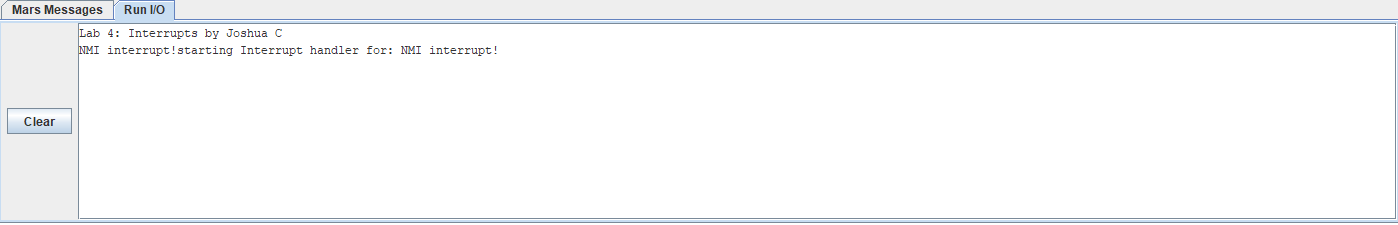
Input GUI msg:



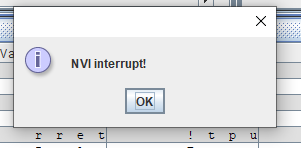
NMI interrupt: (GUI)



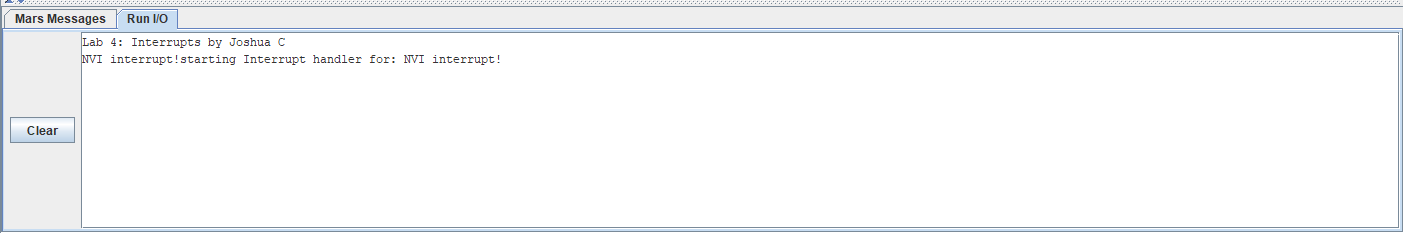
(Console):



NVI interrupt: (GUI)

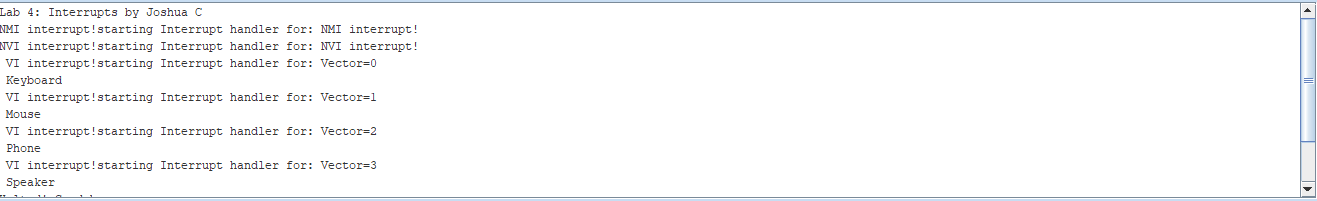


(Console):



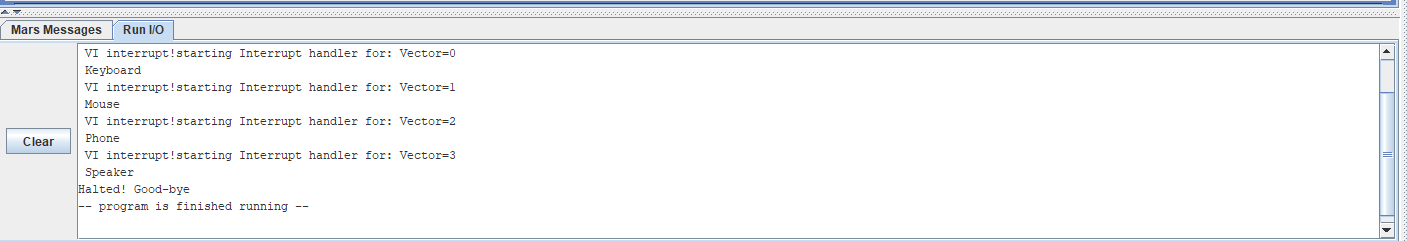
VI Vector Interrupt:

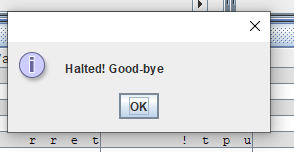
Console Vectors Outputs (V0-V3):



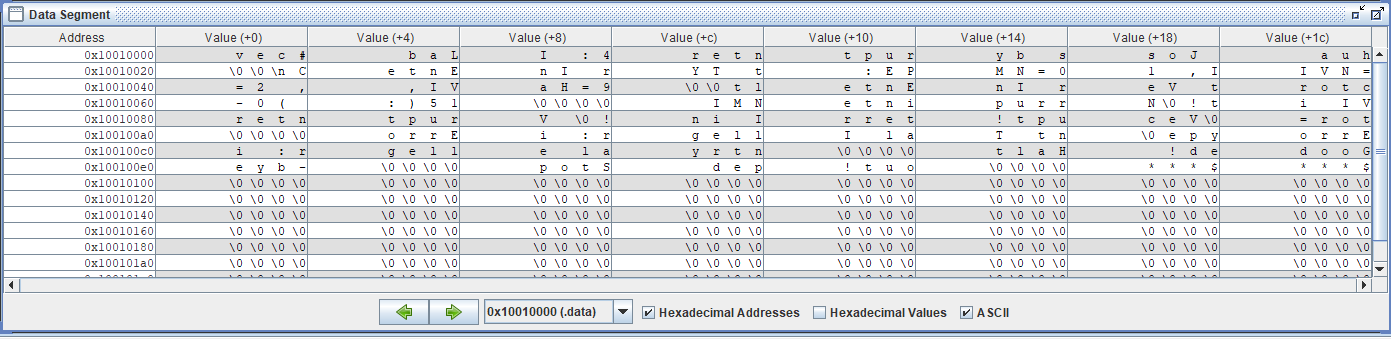
Halt:

Console & GUI Halt msg:





Data Segment (Output) ASCII:



Skip to next page for source code

|

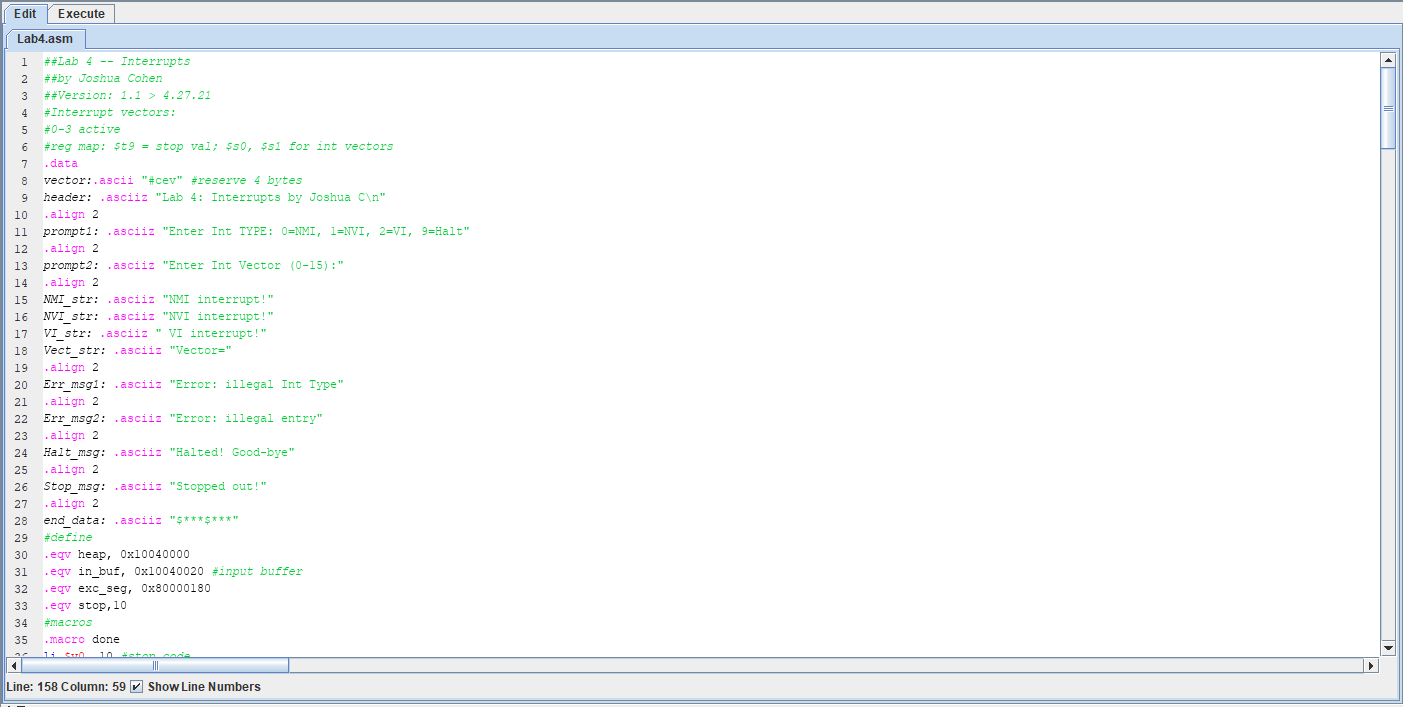
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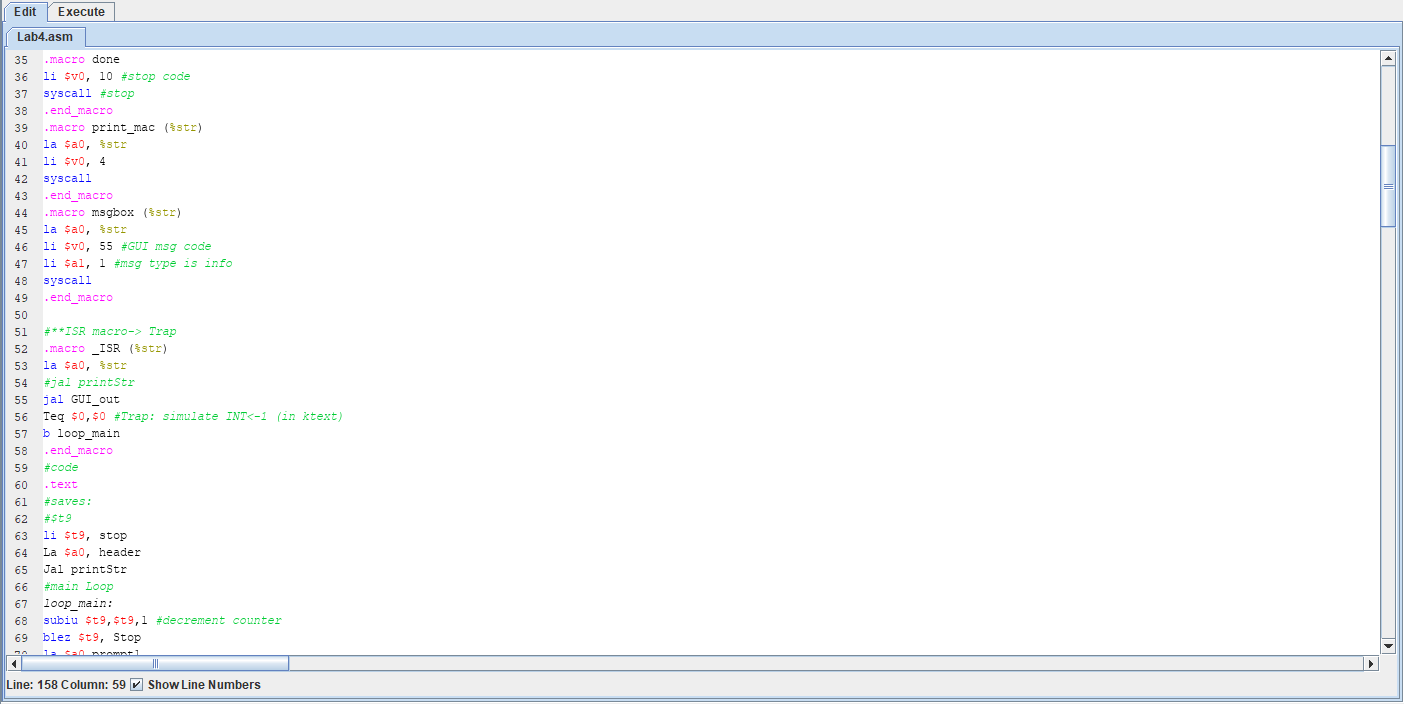
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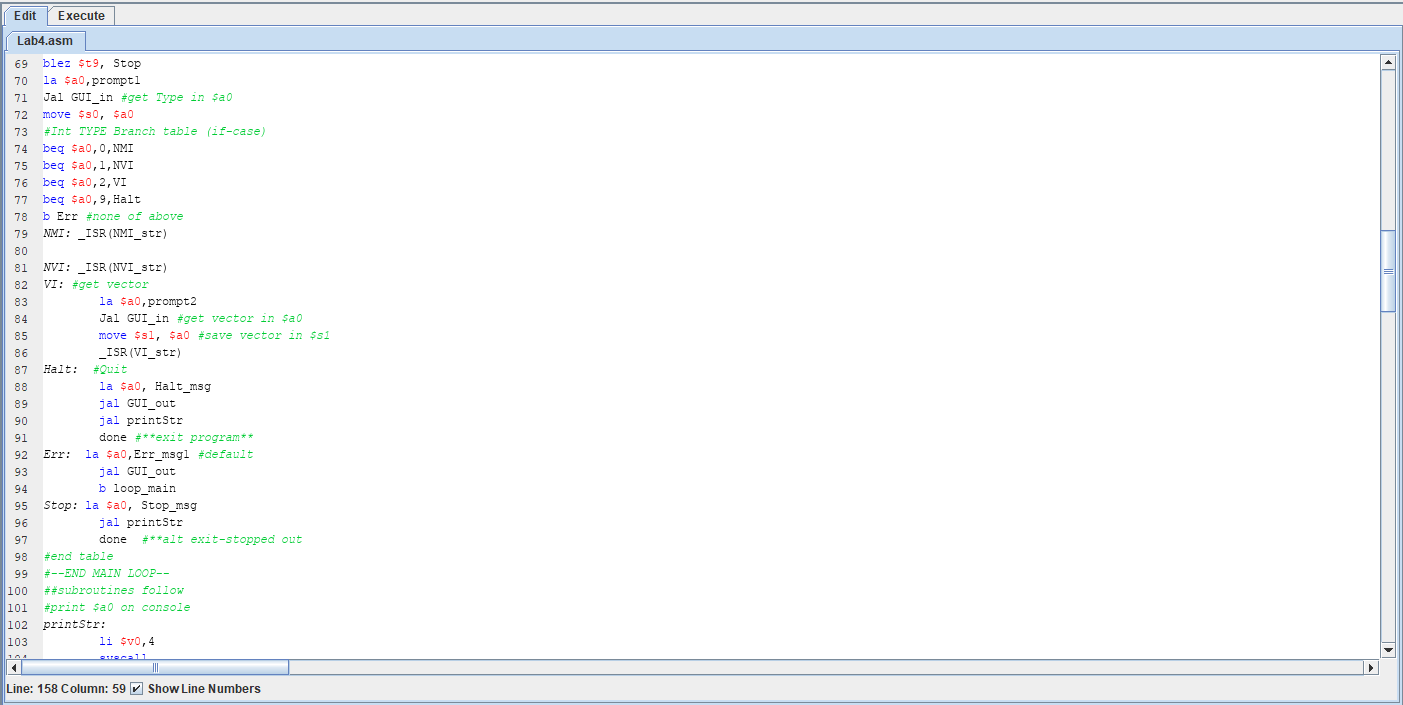
\|/

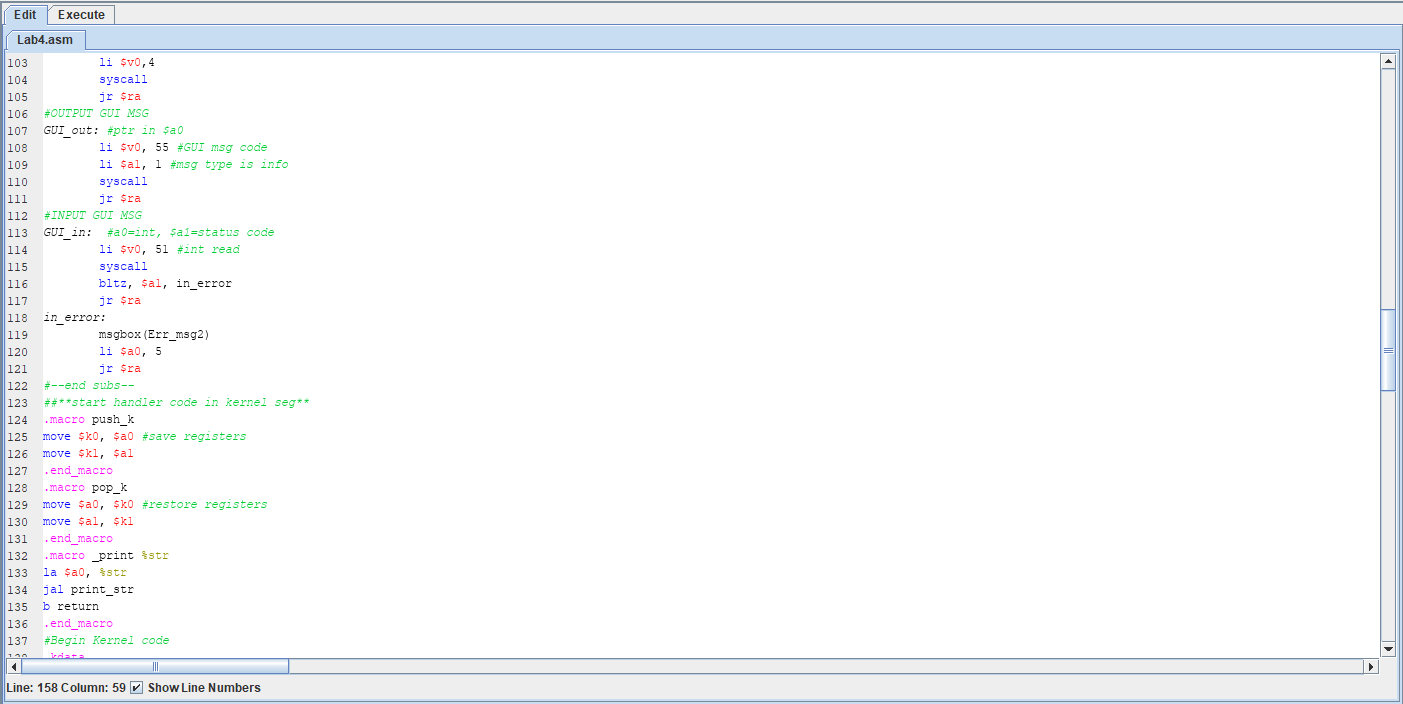
Process (algorithms): *source code*

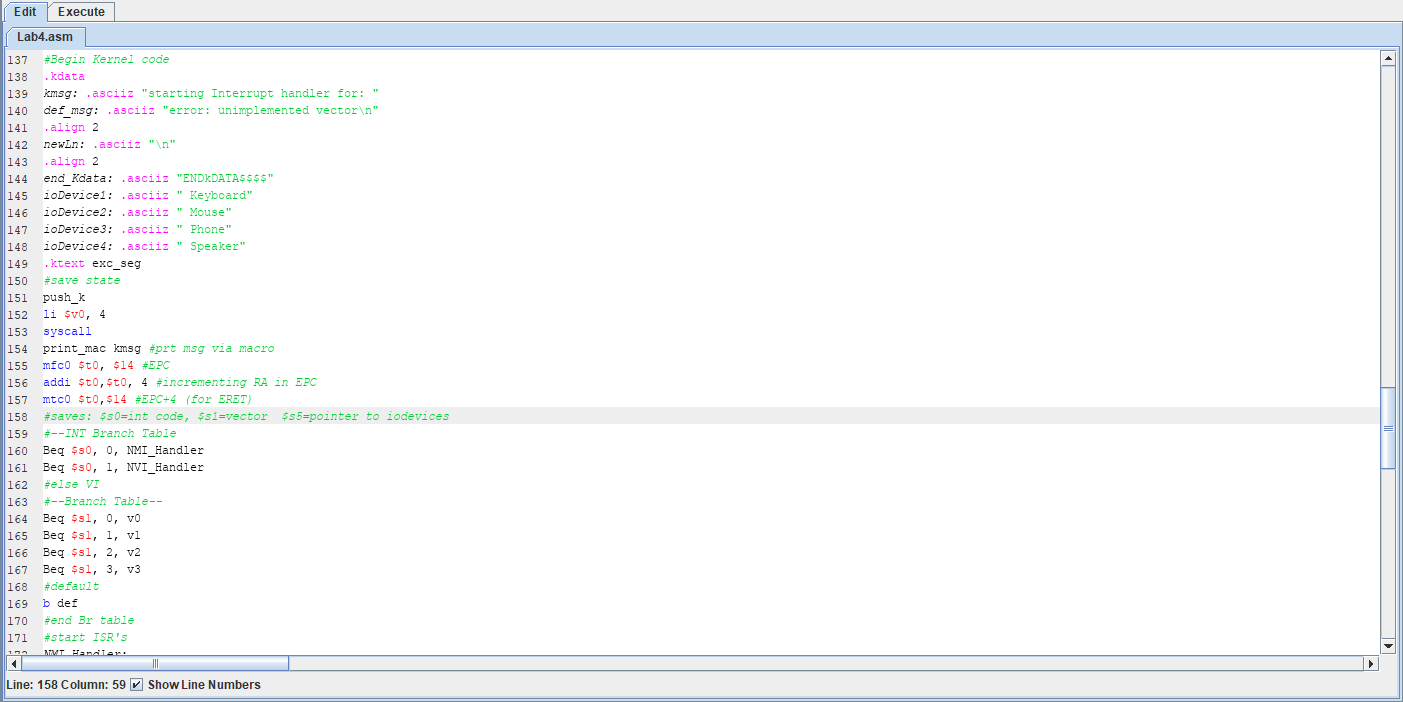
*(paste original syntax colored view here; include line numbers – make legible)*

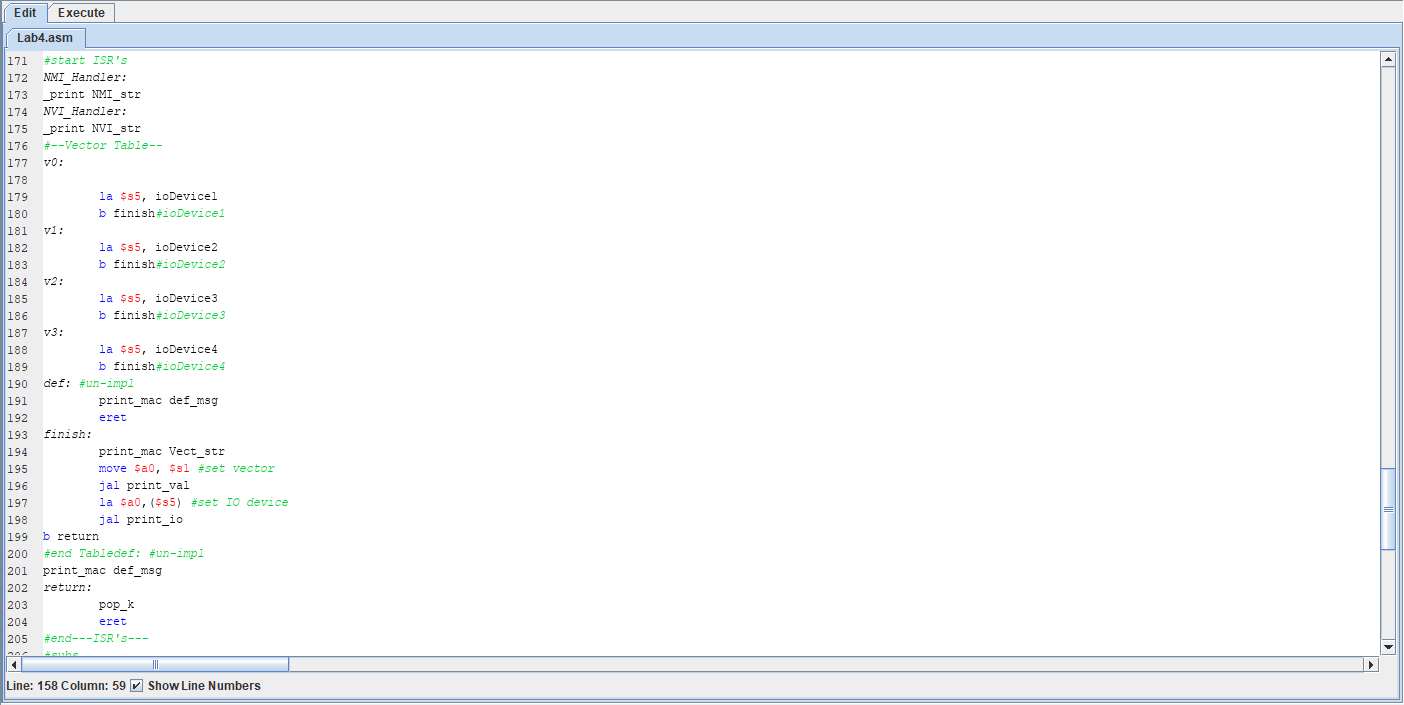


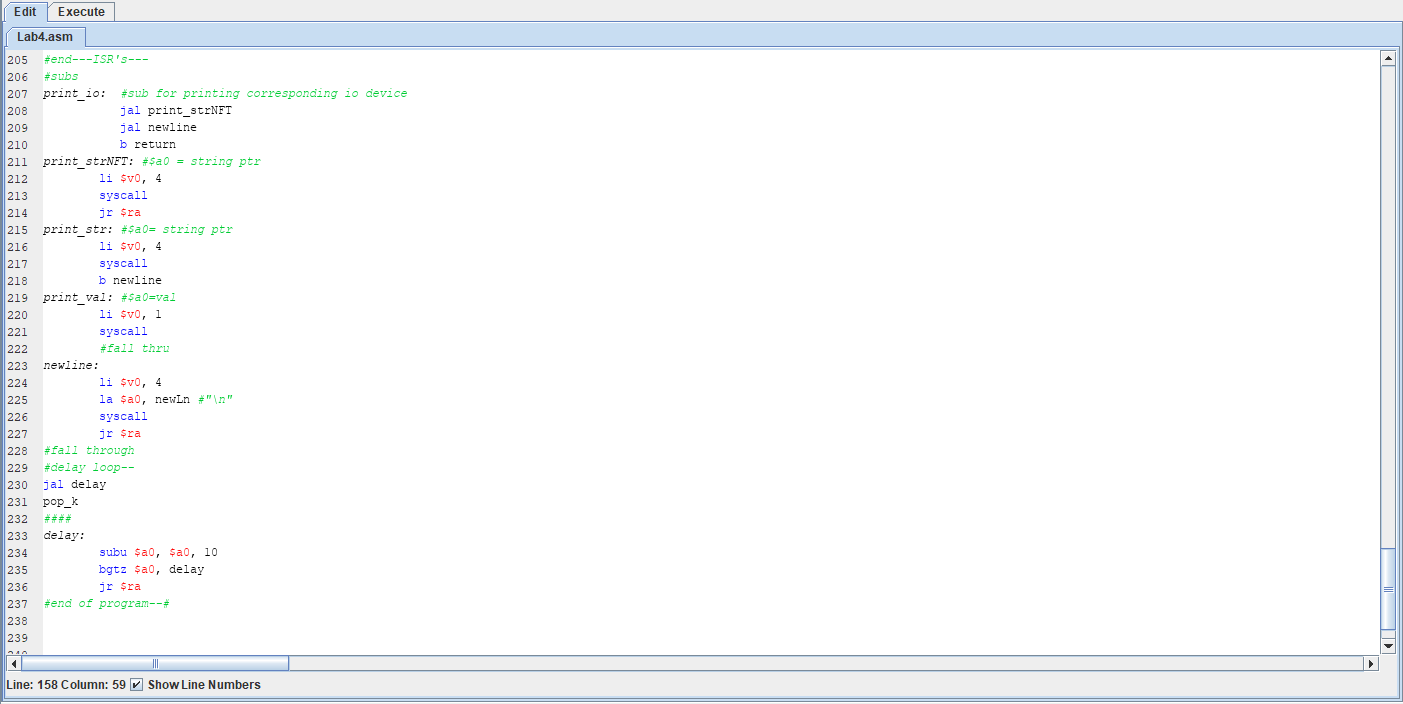












(END of Source Code)