Microprocessor and Interfacing

Lab Assignment: 2

Question-1:

Execute the assembly program to calculate the number of iterations of each number in the following array;

Array: 1 5 1 2 2 9 5 2 1 7 8

Source Code:

```
LEA SI, Array
LEA DI, Array

Start:
LEA SI, Array
MOV BL, [DI]
INC DI
MOV DL, 0000h
MOV CX, 10

NIMRA PROC
LOOP1:

MOV AL, [SI]
CMP AL, BL

JE Found

INC SI
LOOP LOOP1
NIMRA ENDP

Jmp Start
RET

Found:
```

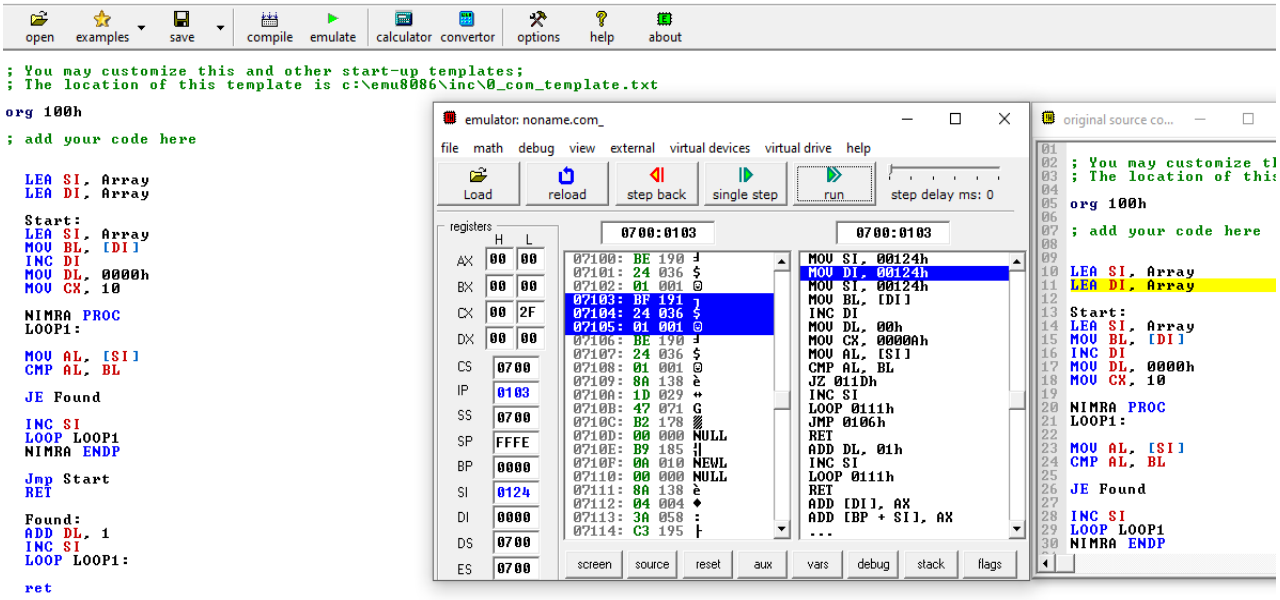
ADD DL, 1

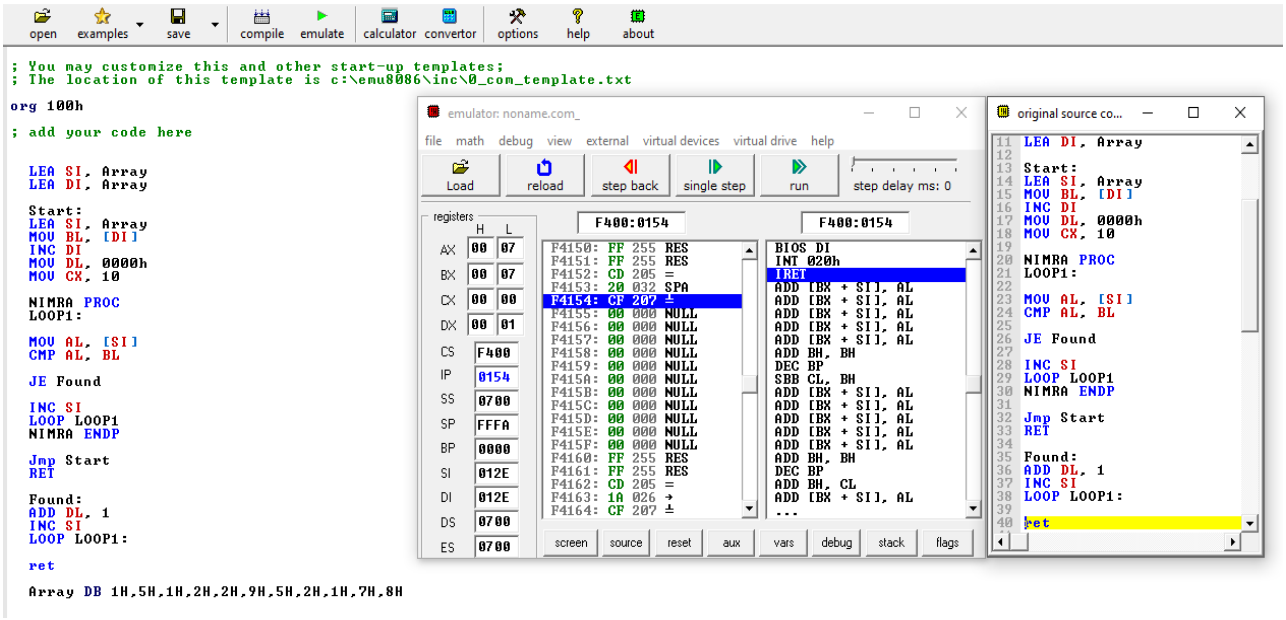
INC SI

LOOP LOOP1:

ret

OUTPUT:





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