

Lecture 15

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Q1/Write ALP and machine code to find the number of ones to the contents of memory locations starting from 3000 to 3009H and save the results in 3100 to 3109H, save your code starting from 2000H.

```
LXI H, 3000
MVI B, 0A
MVI C, 00  ZZ
MVI E, 08
MOV A, M
RLC      XX
JNC      YY
INR C
DCR E    YY
JNZ      XX
INR H
MOV A, C
STAX H
DCR H
INR L
DCR B
JNZ      ZZ
HLT
```