Exercise 2. Fibonacci sequence.

Exercise 3. **L W V B O Q D M C X B P M A P Q X**

**D O N T G I V E U P T H E S H I P**

Exercise 4. Line 00A, should be R4 = C instead of R3 = C.

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| Address | Disassembly | Comments |
| 000 | IN R1 | R1 = first digit 24 |
| 002 | IN R2 | R2 = 2nd digit 24 |
| 004 | MOVI R3, 0xA | R3 = 10 |
| 006 | MUL R1, R1, R3 | R1 = first digit \* 10 |
| 008 | ADD R2, R1, R2 | R2 = actual number |
| 00A | MOVI R3, 0xC | (should be) R4 = 12 |
| 00C | MOVI R5, 0 | R5 = 0 |
| 00E | CMP, R2, R5 |  |
| 010 | JNE +2 (014) | If number !=0 jump |
| 012 | MOV R2, R4 | Set hour = 12 |
| 014 | CMP R2, R4 | I |
| 016 | JLTE +2 (01A) | If hour <= 12 jump |
| 018 | SUB R2, R2, R4 | Hour -=12 |
| 01A | OUT R2 |  |