

STATUS-octal.txt

; demonstrate status light combinations

```
0000          org      0
0000 3A2000    lda      40Q          ;opcode fetch, memory read x 3
0003 322100    sta      41Q          ;opcode fetch, mem read x 2, mem write
0006 312000    lxi      sp,40Q        ;opcode fetch, mem read x 2
0009 F5        push     a            ;opcode fetch, stack write x 2
000A F1        pop      a            ;opcode fetch, stack read x 2
000B DB10     in       20Q          ;opcode fetch, mem read, I/O input
000D D310     out      20Q          ;opcode fetch, mem read, I/O output
000F FB        ei           ;interrupts enabled
0010 F3        di           ;interrupts disabled
0011 76        hlt          ;halt
0012          end
```

Here is the program in octal for easier entry into the Altair:

```
0: 072 040 000 062 041 000 061 040
10: 000 365 361 333 020 323 020 373
20: 363 166
```