



4. Given the following initial state:

- AX = 1234h
- BL = ABh
- Memory location SUM = 00CDh

Show the results of each step of the following instruction sequence. Be sure to track the carry flag throughout the sequence:

```
ADD AX, [SUM]
ADC BL, 05h
NEG BL
SUB AX, 12h
INC WORD PTR [SUM]
```