

Name:

Id#

COE 205, Term 043
Computer Organization & Assembly Programming
Quiz# 6

Date: Sunday, August 7, 2005

Q1. Determine the content of register AX after executing the following code. Briefly describe the main functionality of the given procedure.

```
.model small
.data
MSG DB 'here is a test'
.code
.startup
    LEA AX, MSG
    PUSH AX
    MOV AX, 14
    PUSH AX
    MOV AL, 'e'
    PUSH AX
    CALL MYPROC
.exit
MYPROC PROC

    MOV BP, SP
    PUSH BX
    PUSH CX
    PUSH SI
    MOV BL, [BP+2]
    MOV CX, [BP+4]
    MOV SI, [BP+6]
    XOR AX, AX
NEXT:  INC SI
    CMP BL, [SI-1]
    LOOPNE NEXT
    JNE DONE
    INC AX
    JCXZ DONE
    JMP NEXT
DONE:  POP SI
    POP CX
    POP BX
    RET 6
MYPROC ENDP
END
```