

ENCM 339 Fall 2015 Midterm:

Section 1 – Multiple Choice:

The correct answers are as follows:

1. d
2. b
3. c
4. e

Section 2 – Short Answer Questions

Part a:

YYNYY

Part b:

hello!
GOODBYE bye!
hello!

Remark: A relative common error was that some students have consider the “GOODBYE” within a string constant as an expansion of macro.

Part c:

With 8-byte pointers

main says 5
func says 2

With 4-byte pointer

main says 5
func says 1

Part d.

Use of MAC2 in main expands to:

$3 + 1 * 3 + 1 - 2 + 3 * 2 + 3$
That is: $3 + 3 + 1 - 2 + 6 + 3$
And the output is: 14.

Part e.

x[0]	x[1]	x[2]	x[3]	x[4]	x[5]	x[6]	x[7]	x[8]	x[9]
'A'	'B'	'C'	'U'	'V'	'\0'	'\0'	'\0'	'W'	'\0'

Output is: 5 3 0 1