

Course: ENSF 337 – Fall 2020

Lab #: Lab 4

Instructor: M. Moussavi

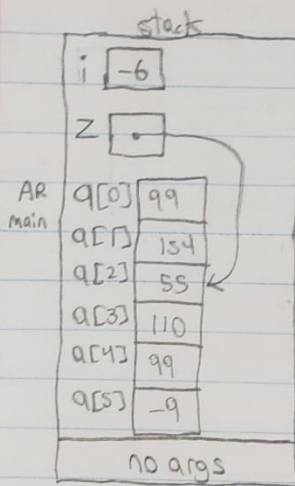
Student Name: Quentin Jennings

Lab Section: B03

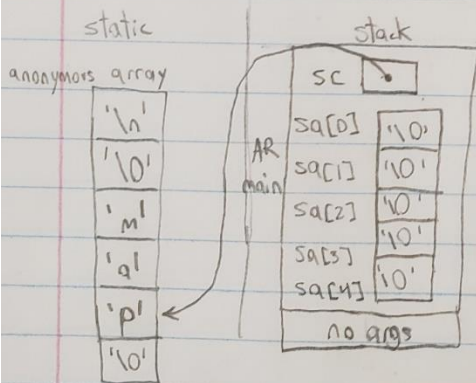
Submission Date: 2020-10-12

Exercise A and B:

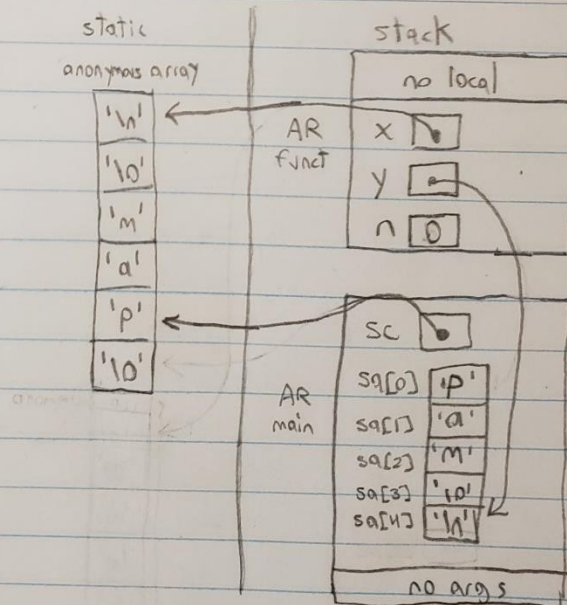
A) Point 1



B) Point 1



Point 2



Exercise C Output:

Array a has 5 elements and macro ELEMENTS returns 5

Array b has 20 elements and macro ELEMENTS returns 20

Exercise D Output:

TESTING strlen FUNCTION ...

Expected to display: my_string length is 0.

my_string length is 0.

Expected to display: my_string size is 100 bytes.

my_string size is 100 bytes.

Expected to display: my_string contains banana.

my_string contains banana

Expected to display: my_string length is 6.

my_string length is 6.

Expected to display: my_string contains "".

my_string contains:""

Expected to display: my_string length is 0.

my_string length is 0.

Expected to display: my_string size is still 100 bytes.

my_string size is still 100 bytes.

TESTING strncat FUNCTION ...

Expected to display: my_string contains "tic"

my_string contains "tic"

Expected to display: my_string length is 3.

my_string length is 3.

Expected to display: my_string contains "tic-tac"

my_string contains:"tic-tac"

Expected to display: my_string contains "tic-tac-toe"

my_string contains:"tic-tac-toe"

Expected to display: my_string has 11 characters.

my_string has 11 characters.

Using strcmp - C library function:

Expected to display: "ABCD" is less than "ABCDE"

"ABCD" is less than "ABCDE"

TESTING strcmp FUNCTION ...

"ABCD" is less than "ABND" ... strcmp returns -11

"ABCD" is equal "ABCD" ... strcmp returns 0

"ABCD" is less than "ABcd" ... strcmp returns -32

"Orange" is greater than "Apple" ... strcmp returns

Exercise E Output:

Enter a real number or press Ctrl-D to quit: 23.4
Your real number value is: 23.400000
Enter a real number or press Ctrl-D to quit: .56
Your real number value is: 0.560000
Enter a real number or press Ctrl-D to quit: -.23
Your real number value is: -0.230000
Enter a real number or press Ctrl-D to quit: -0.45
Your real number value is: -0.450000
Enter a real number or press Ctrl-D to quit: -0.0000067
Your real number value is: -0.000007
Enter a real number or press Ctrl-D to quit: 564469999
Your real number value is: 564469999.000000
Enter a real number or press Ctrl-D to quit: +8773469
Your real number value is: 8773469.000000
Enter a real number or press Ctrl-D to quit: +.5
Your real number value is: 0.500000
Enter a real number or press Ctrl-D to quit: