Programming Fundamental - ENSF 337 Lab 4 M. Moussavi Jay Chuang B01 October 8, 2019

## Exercise C

```
jaych@DESKTOP-DILG265 /cygdrive/c/ensf337/lab4
$ gcc -Wall lab4exC.c

jaych@DESKTOP-DILG265 /cygdrive/c/ensf337/lab4
$ ./a.exe
Array a has 5 elements and macro ELEMENTS returns 5
Array b has 20 elements and macro ELEMENTS returns 20
```

## Exercise D

```
jaych@DESKTOP-DILG265 /cygdrive/c/ensf337/lab4
$ gcc -Wall lab4exD.c
lab4exD.c: In function 'main':
lab4exD.c:109:12: warning: too many arguments for format [-Wformat-extra-args]
    printf("\n\"ABCD\" is less than \"ABCDE\"", strcmp("ABCD", "ABCDE"));
jaych@DESKTOP-DILG265 /cygdrive/c/ensf337/lab4
$ ./a.exe
TESTING strlen FUNCTION ...
Expected to display: my_string length is 0.
my_string length is O.
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 O.
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 -1
"ABCD" is equal "ABCD" ... strcmp returns 0
"ABCD" is less than "ABCd" ... strcmp returns -1
"Orange" is greater than "Apple" ... strcmp returns 1
```

```
jaych@DESKTOP-DILG265 /cygdrive/c/ensf337/lab4/lab4exE
|$ ./a.exe
Enter a double or press Ctrl-D to quit: 23.4
Your double value is: 23.400000
Enter a double or press Ctrl-D to quit: .56
Your double value is: 0.560000
Enter a double or press Ctrl-D to quit: -.23
Your double value is: -0.230000
Enter a double or press Ctrl-D to quit: -0.45
Your double value is: -0.450000
Enter a double or press Ctrl-D to quit: -0.0000067
Your double value is: -0.000007
Enter a double or press Ctrl-D to quit: 564469999
Your double value is: 564469999.000000
Enter a double or press Ctrl-D to quit: +8773469
Your double value is: 8773469.000000
Enter a double or press Ctrl-D to quit: +.5
Your double value is: 0.500000
Enter a double or press Ctrl-D to quit:
Good Bye.
```