CSC 3320: Systems Programming
Spring 2021
Homework
4: Total points 100

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ALL PROGRAMS MUST BE COMMENTED. YOUR SOLUTION WILL NOT BE ACCEPTED IF THERE ARE NO COMMENTS IN YOUR SCRIPT. Also note that the comments MUST be useful and not be random.

PART 1: 40pts
Must incorporate use of Functions and Pointers

1. checkPasswd.c

```
[jrogers75@gsuad.gsu.edu@snowball hw4]$ gcc -o password checkPasswd.c
[jrogers75@gsuad.gsu.edu@snowball hw4]$ ./password
Enter password: jam
Total points deducted is 35.
The password is unsafe! Please reset.
[jrogers75@gsuad.gsu.edu@snowball hw4]$ ./password
Enter password: jamie
The password is safe.
[jrogers75@gsuad.gsu.edu@snowball hw4]$ ./password
Enter password: hello
The password is safe.
[jrogers75@gsuad.gsu.edu@snowball hw4]$ ./password
Enter password: bye
Total points deducted is 35.
The password is unsafe! Please reset.
[jrogers75@gsuad.gsu.edu@snowball hw4]$
```

2. checkPasswd.c

```
[jrogers75@gsuad.gsu.edu@snowball hw4]$ gcc -o passwd checkPasswd.c
[jrogers75@gsuad.gsu.edu@snowball hw4]$ ./passwd
Enter password: mom45L
The password is safe.
[jrogers75@gsuad.gsu.edu@snowball hw4]$ ./passwd
Enter password: Jamie145
The password is safe.
[jrogers75@gsuad.gsu.edu@snowball hw4]$ ./passwd
Enter password: georgiastate
Total points deducted is 60.
The password is unsafe! Please reset.
[jrogers75@gsuad.gsu.edu@snowball hw4]$ ./passwd
Enter password: GeorgiaState
Total points deducted is 40.
The password is unsafe! Please reset.
[jrogers75@gsuad.gsu.edu@snowball hw4]$
```

Part II : 40pts
Must incorporate the use of Functions and Pointer arrays

3. checkPalindrome.c

```
[jrogers75@gsuad.gsu.edu@snowball hw4]$ vi checkPalindrome.c
[jrogers75@gsuad.gsu.edu@snowball hw4]$ gcc -o palin checkPalindrome.c
[jrogers75@gsuad.gsu.edu@snowball hw4]$ ./palin
Enter message: abba
This is a palindrome.
[jrogers75@gsuad.gsu.edu@snowball hw4]$ ./palin
Enter message: tacocat
This is a palindrome.
[jrogers75@gsuad.gsu.edu@snowball hw4]$ ./palin
Enter message: jamie
This is not a palindrome.
[jrogers75@gsuad.gsu.edu@snowball hw4]$ ./palin
Enter message: j3mm3j
This is a palindrome.
[jrogers75@gsuad.gsu.edu@snowball hw4]$
```

4. swapTwo.c

```
[jrogers75@gsuad.gsu.edu@snowball hw4]$ gcc -o swap2 swapTwo.c
[jrogers75@gsuad.gsu.edu@snowball hw4]$ ./swap2
Enter message 1: 90lop67
Enter message 2: hugyh44565
The messages must be the same length. Please try again.
[jrogers75@gsuad.gsu.edu@snowball hw4]$ ./swap2
Enter message 1: happy890
Enter message 2: 84482pda
AFTER SWAP:
Sentence 1: 84482pda
Sentence 2: happy890
[jrogers75@gsuad.gsu.edu@snowball hw4]$ ./swap2
Enter message 1: a1b3
Enter message 2: 8g23
AFTER SWAP:
Sentence 1: 8g2
Sentence 2: a1b
[jrogers75@gsuad.gsu.edu@snowball hw4]$ ./swap2
Enter message 1: h3t7l90
Enter message 2: 7f268nx
AFTER SWAP:
Sentence 1: 7f2 8nx
Sentence 2: h3t l90
[jrogers75@gsuad.gsu.edu@snowball hw4]$
```

Part III : 20pts
Must incorporate Functions, Pointers or PointerArrays, and Structures or Unions

5.

```
[jrogers75@gsuad.gsu.edu@snowball hw4]$ gcc -o country countryLookup.c
[jrogers75@gsuad.gsu.edu@snowball hw4]$ ./country
Enter country code: 1
Country Code 1 =  United States
[jrogers75@gsuad.gsu.edu@snowball hw4]$ ./country
Enter country code: 81
Country Code 81 =  Japan
[jrogers75@gsuad.gsu.edu@snowball hw4]$ ./country
Enter country code: 44
Country Code 44 =  United Kingdom
[jrogers75@gsuad.gsu.edu@snowball hw4]$ ./country
Enter country code: 880
Country Code 880 =  Bangladesh
[jrogers75@gsuad.gsu.edu@snowball hw4]$ ./country
Enter country code: 999
Country code not recognized.
[jrogers75@gsuad.gsu.edu@snowball hw4]$ 
```