CSc 3320: Systems Programming

Spring 2021 Homework # 4: Total points 100

Submission instructions:

- 1. Create a Google doc for each homework assignment submission.
- 2. Start your responses from page 2 of the document and copy these instructions on page 1.
- 3. Fill in your name, campus ID and panther # in the fields provided. If this information is missing in your document TWO POINTS WILL BE DEDUCTED per submission.
- 4. Keep this page 1 intact on all your submissions. If this *submissions instructions* page is missing in your submission TWO POINTS WILL BE DEDUCTED per submission.
- 5. Each homework will typically have 2-3 PARTS, where each PART focuses on specific topic(s).
- 6. Start your responses to each PART on a new page.
- 7. If you are being asked to write code copy the code into a separate txt file and submit that as well.
- 8. If you are being asked to test code or run specific commands or scripts, provide the evidence of your outputs through a screenshot and copy the same into the document.
- 9. Upon completion, download a .PDF version of the document and submit the same.

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```
1)
```

```
#include <stdio.h>
#include <string.h>
void checkPassword(char*);
void main()
```

```
[pofremu1@gsuad.gsu.edu@snowball hw3]$ ./checkPasswd
Enter password: pas
The password is unsafe! Please reset.[pofremu1@gsuad.gsu.edu@snowball hw3]$
[pofremu1@gsuad.gsu.edu@snowball hw3]$ ./checkPasswd
Enter password: password
[pofremu1@gsuad.gsu.edu@snowball hw3]$
```

```
2)
```

```
#include <stdio.h>
#include <string.h>
void checkPassword(char*);
void main()
    checkPassword(password);
void checkPassword(char *password)
```

```
[pofremu1@gsuad.gsu.edu@snowball hw3]$ ./checkPasswd
Enter password: pWd2
safe
[pofremu1@gsuad.gsu.edu@snowball hw3]$ ./checkPasswd
Enter password: dgferg4
unsafe
[pofremu1@gsuad.gsu.edu@snowball hw3]$
```

3)

```
include <stdio.h>
# include <string.h>
int palindrome(char*, int);
void main() {
int palindrome(char *string, int len) {
```

```
return 1;
}
```

```
[pofremu1@gsuad.gsu.edu@snowball hw3]$ ./palindrome
Enter message: Some men interpret fine memos
Not palindrome
[pofremu1@gsuad.gsu.edu@snowball hw3]$ ./palindrome
Enter message: racecar
Is palindrome
[pofremu1@gsuad.gsu.edu@snowball hw3]$
```

```
4)
  include <stdio.h>
void swap(char*, char*);
int isNum(int);
void main()
```

```
return -1;

pofremu1@gsuad.gsu.edu@snowball hw3]$ ./swapNumLetters
Enter a message: 457EJR
Enter a message: FMB204
Sentence one: FMB204
Sentence two: 457EJR
[pofremu1@gsuad.gsu.edu@snowball hw3]$
```

```
#include <stdio.h>
void findCountry(int);
struct dialing code {
};
const struct dialing code country codes[] =
  {"Pakistan",
  {"Poland",
```