

Part 1

1)

```
[manderson113@gsuad.gsu.edu@snowball hw4]$ ./checkPassword unsafepass
Question 1:
Total deductions: 0
The password is safe.

Question 2:
Total deductions: 40
The password is unsafe! Please reset.
```

2)

```
[manderson113@gsuad.gsu.edu@snowball hw4]$ ./checkPassword SafePaswd0192837465
Question 1:
Total deductions: 0
The password is safe.

Question 2:
Total deductions: 0
The password is safe.
```

3)

```
[manderson113@gsuad.gsu.edu@snowball hw4]$ ./checkPassword bbppddqq11223344
Question 1:
Total deductions: 0
The password is safe.

Question 2:
Total deductions: 20
The password is safe.
```

4)

```
[manderson113@gsuad.gsu.edu@snowball hw4]$ ./checkPassword T20s9Q021wmc2a
Question 1:
Total deductions: 0
The password is safe.

Question 2:
Total deductions: 0
The password is safe.
```

Part 2

I had to update my program to account for non-letter/non-digit characters, as well as upper/lower cases.

1)

```
[manderson113@gsuad.gsu.edu@snowball hw4]$ ./palindrome radar  
Yes, that is a palindrome!
```

2)

```
[manderson113@gsuad.gsu.edu@snowball hw4]$ ./palindrome  
Please enter a message: Gateman sees name, garageman sees name tag  
Yes, that is a palindrome!
```

3)

```
[manderson113@gsuad.gsu.edu@snowball hw4]$ ./palindrome  
Please enter a message: Some men interpret fine memos  
No, that is not a palindrome.
```

needs to be: Some men interpret nine memos

```
[manderson113@gsuad.gsu.edu@snowball hw4]$ ./palindrome  
Please enter a message: Some men interpret nine memos  
Yes, that is a palindrome!
```

4)

```
[manderson113@gsuad.gsu.edu@snowball hw4]$ ./palindrome  
Please enter a message: Do geese see God?  
Yes, that is a palindrome!
```

Part 2

```
[manderson113@gsuad.gsu.edu@snowball hw4]$ ./countryDecoder 47
Norway uses country code 47.
[manderson113@gsuad.gsu.edu@snowball hw4]$ ./countryDecoder 354
Iceland uses country code 354.
[manderson113@gsuad.gsu.edu@snowball hw4]$ ./countryDecoder 420
Czech Republic uses country code 420.
[manderson113@gsuad.gsu.edu@snowball hw4]$ ./countryDecoder 372
Estonia uses country code 372.
```

I had to add all of them to my file:

```
static const struct dialing_code country_codes[] = {
    {"Argentina",          54}, {"Bangladesh",      880},
    {"Brazil",             55}, {"Burma (Myanmar)",  95},
    {"China",              86}, {"Colombia",         57},
    {"Congo, Dem. Rep. of", 243}, {"Egypt",        20},
    {"Ethiopia",           251}, {"France",          33},
    {"Germany",            49}, {"India",            91},
    {"Indonesia",          62}, {"Iran",            98},
    {"Italy",              39}, {"Japan",            81},
    {"Mexico",             52}, {"Nigeria",          234},
    {"Pakistan",           92}, {"Philippines",      63},
    {"Poland",             48}, {"Russia",           7},
    {"South Africa",       27}, {"South Korea",      82},
    {"Spain",              34}, {"Sudan",           249},
    {"Thailand",           66}, {"Turkey",          90},
    {"Ukraine",            380}, {"United Kingdom",  44},
    {"United States",       1}, {"Vietnam",      84},
    {"Norway",             47}, {"Iceland",        354},
    {"Czech Republic",     420}, {"Estonia",       372}
};
```