Question I:

Write a bash shell script, called **myFind**, that will display the total number of files in a given directory, whose names start with a certain character and consist of a given number of characters (length). All these three parameters, the name of the directory, the first character and the length are given as command line arguments at the shell prompt.

Synopsis: **myFind** <**targetDir**> <**startChar**> <**length**>

Hint: Use for loop, cut command and ${#name} for length of a variable

Question II:

Write a Bash script to compress a list of files with some given extensions. The compression could be done with any Unix compress utilities, such as gzip, bzip2, etc.

Synopsis: **myCompress** <**ext1**> <**ext2**> **...**, E.g. **myCompress doc jpg txt**

Hint: use for loop with with $*

Question III:

Write a bash script, called **phone**, that works as a simple phone directory. The script will output the full name and phone number of each matched record.

$$phone \ < "string" >< fileName >$$

where **string** is a name(first name or last name) and **fileName** is the phone database.

A sample phone data file for example, `phoneData.txt`, is shown below. Each record in the file is made of a phone number and a person's name.

This file could be used to test your script.

```
Tom john            (206)123-4567
Sam Smith           (519)999-1234
Tina Wu             (514)999-8765
Jerry Seinfield     (406)984-6789
Imran Haque         (519)254-8796
Sandy Anderson      (406)657-8799
Tina  Hilton        (416)944-4675
Satish Sharma       (519)544-5678
BigFoot ShortTail   (999)000-1111
```

Hint: use grep with filename

A sample run is shown below.

```
% phone
Usage: phone <string> <fileName>
% phone sam  phoneData.txt
Sam Smith (519)999-1234

% phone Tina phoneData.txt
Tina Wu  (514)999-8765
Tina  Hilton (416)944-4675
```