**States containing the letter K**

**BMI 565 Programming and Scripting**

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First let’s create and move inside a folder called **bash\_assignment** for our assignment.

Create a script called **prep\_data.sh** and have it do the following.

1. Have it check to see if the file **statelist.txt** exists in our assignment folder.
   1. If it doesn’t, curl the file from [here](https://gist.githubusercontent.com/bensie/130828/raw/43d59239b4c1c40672dc6eea0f4565a8915b5372/states.txt) using either **wget** or **curl** and call it statelist.txt
   2. If it does, print the full path of where it exists to the terminal
2. Define a variable for our file called logfile.txt to store our eventual output, if this file exists remove it and print to the terminal that you are removing it.

Now, let’s create a script to identify the US states in our statelist.txt that have a “k” anywhere in their name, let’s call it **k\_checker.sh**.

But we have a few problems…

1. We have spaces in the lines of our **statelist.txt**, this makes iterative parsing (say in a for loop) challenging.
   * We either must remove them OR
   * Or change an environment variable called **IFS** to be the newline character (default is a space)
2. We DO NOT want Canadian provinces.
3. We want the name of the state only, not the extra whitespaces, or the abbreviation

Have this script save a log of these states to a file **called k\_states.txt**

Finally, write a wrapper bash script called **run.sh** that does the following,

1. Calls our first script (**prep\_data.sh**)
2. Calls our second script (**k\_checker.sh**)
3. Prints the number of states that contain the letter k to the terminal

Notes:

* Make sure your bash scripts are, readable by everyone, but writable and executable by you.
* Depending on how you decide to accomplish the string manipulation, you may use a function.