CYBR 1500 Assignment, Week 12

# Part I: Required Readings and Lecture Content

* Watch the video here:

Week 12 Update: <https://youtu.be/rEl1exH-Miw>

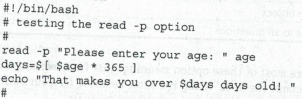
Chapter 14, part 3: <https://youtu.be/KILqWVmoTxU>

* Please finish reading chapter 14 of Blum & Bresnahan
* Read and be familiar with chapter 15 of Blum & Bresnahan

# Part 2: Chapter 14, User Input (3)

Type in and run the following scripts from the text, chapter 14:

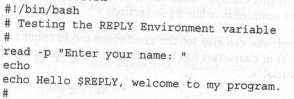
**Test22 (page.388):**



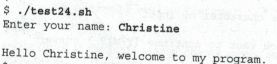
**Output of test22:**

****

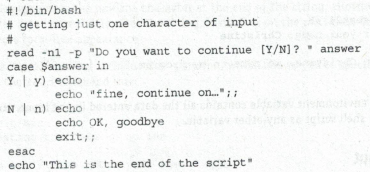
**Test24(p.389):**

****

**Output of test24:**

****

**Test26 (p.390):**

****

**Output of test26:**

****

Use the cat command to display content of all three scripts, run all three scripts, and capture that part of the terminal interactions below.

>>>>>Paste your terminal capture below this line >>>>>

**andrew@andrew-VirtualBox**:**~/hwscripts**$ cat test22.sh

#!/bin/bash

read -p "Please enter your age: " age

days=$[ $age \* 365 ]

echo "That makes you over $days old!"

**andrew@andrew-VirtualBox**:**~/hwscripts**$ ./test22.sh

Please enter your age: 10

That makes you over 3650 old!

**andrew@andrew-VirtualBox**:**~/hwscripts**$ cat test24.sh

#!/bin/bash

read -p "Enter your name: "

echo

echo Hello $REPLY, welcome to my program.

**andrew@andrew-VirtualBox**:**~/hwscripts**$ ./test24.sh

Enter your name: Andrew

Hello Andrew, welcome to my program.

**andrew@andrew-VirtualBox**:**~/hwscripts**$ cat test26.sh

#!/bin/bash

read -n1 -p "Do you want to continue [Y/N]? " answer

case $answer in

Y | y) echo

       echo "fine, continue on...";;

N | n) echo

       echo OK, goodbye

       exit;;

esac

echo "This is the end of the script"

**andrew@andrew-VirtualBox**:**~/hwscripts**$ ./test26.sh

Do you want to continue [Y/N]? y

fine, continue on...

This is the end of the script

**andrew@andrew-VirtualBox**:**~/hwscripts**$

<<<<< Paste your terminal capture above this line <<<<<

# Part 3: Bonus Points (20 points)

**You don’t have to do this part. However, if you are able to solve the problem. You will get 20 bonus points.**

Write a script called **ch14script6** that continually prompts the user for input. Whenever the user presses the ‘n’ or ‘N’ key, the script responds, ‘ → North’ If ‘s’ or ‘S’, ‘ → South’; and likewise for ‘e’/’E’ and ‘w’/’W’. If the user types ‘q’ or ‘Q’, prompt to enter q again to quit; and if the user then types ‘q’ or ‘Q’, echo ‘So long, thank you for playing!’, then terminate the script with exit code 0; otherwise, respond, ‘Cancelling quit.’ Any other keys should be disregarded with a message (see example below).

My sample run is shown here:

trang@trang-VirtualBox:~$ ch14script6  
Which way? [n/s/e/w, q to quit]: N --> North  
Which way? [n/s/e/w, q to quit]: n --> North  
Which way? [n/s/e/w, q to quit]: S --> South  
Which way? [n/s/e/w, q to quit]: s --> South  
Which way? [n/s/e/w, q to quit]: E --> East  
Which way? [n/s/e/w, q to quit]: e --> East  
Which way? [n/s/e/w, q to quit]: W --> West  
Which way? [n/s/e/w, q to quit]: w --> West  
Which way? [n/s/e/w, q to quit]: Q  
Press q again to quit...e  
Cancelling quit.  
Which way? [n/s/e/w, q to quit]: j  
Unknown option: j  
Which way? [n/s/e/w, q to quit]: k  
Unknown option: k  
Which way? [n/s/e/w, q to quit]: q  
Press q again to quit...q  
So long, thank you for playing!  
trang@trang-VirtualBox:~$

*Hint: An infinite loop would be a good choice here--it goes on forever, and ever. You can make one easily as follow. Also,* ***-n1*** *is used to instruct the read command to accept only a single character before exiting.*

While :

do

read -n1 -p "Which way? [n/s/e/w, q to quit]: " answer

case $answer in

…

done

cat your script; then run your script following a pattern similar to my pattern above, exercising each possible path through your code, and capture the terminal interactions below.

>>>>>Paste your terminal capture below this line >>>>>

<<<<< Paste your terminal capture above this line <<<<<

# Part 4: Submit your assignment to Blackboard

***NB. Don’t forget to take the weekly quiz!***

# Rubric:

* Part 2: 50 points
* test22: 15 points
* test24: 15 points
* test26: 20 points
* Part3: 20 bonus points
  + Follows instructions (5)
  + Handles all expected directional inputs, including upper and lower case (5)
  + Handles the quit functionality, including the confirmation step (5)
  + Handles unexpected input correctly (5)