**CS2750 System programming and Tools Fall 2018**

**KEY TO** **QUIZ #4 [11 points]**

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1. [2 points] Rewrite the following while loop as until loop:

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| --- | --- |
| **while** loop  str=”yes”  **while** [[”$str” == ”yes” ]]  do read str  **done** | **until** loop  *Answer:*  str=”yes”  **until** [[”$str” != ”yes” ]]  do read str  **done** |

1. [6 points] Write **two** code fragments that will do **the same thing**: a) ask the user to enter the value of a variable named *option*; b) read it from a keyboard; c) when the user enters *d*, the current date and time is displayed; b) when the user enters *s*, the files in the current directory are listed; c) when the user enters *w*, the list of users currently in the system is produced; d) in any other situation, an error message is displayed.

|  |  |
| --- | --- |
| Using **if** statement:  *Answer:*  echo ”enter a character”  read option  **if** [[ $option == ”d” ]]  **then**  date  **elif** [[ $option == ”s” ]]  **then**  ls  **elif** [[ $option == ”w” ]]  **then**  who  **else**  echo ”input error”  **fi** | Using **case** statement:  *Answer:*  echo ”enter a character”  read option  **case** $option in  ”d”) date  ;;  ”s”) ls  ;;  ”w”) who  ;;  \*) echo ”input error”  **esac** |

1. [3 points] (a) Show how you introduce an array named **CompSc** and initialize its first three elements to the following names of courses: a) Intro to C++; b) Data Structures; c) Linux Tools.
2. Write a single statement to display all elements of the array **CompSc** from the part (a) of this problem.
3. Assign the value of the second element of the array **CompSc** to the fifth element of the same array.

*Answers:*

1. CompSc=(“Intro to C++” “Data Structures” “Linux Tools”)
2. **for** a in “${CompSc[@]}” | or: echo ${CmpSc[@}}

**do** echo $a

**done**

1. CompSc[4]=${CompSc[1]}