

Review Test Submission: ULI101 Final Exam Section 2 Practice

User	XXXXXXXXXX
Course	Introduction to UNIX/Linux and the Internet
Test	ULI101 Final Exam Section 2 Practice
Started	XXXXXXXXXX
Submitted	XXXXXXXXXX
Status	Completed
Attempt	XXXXXXXXXX
Score	
Time	15 minutes out of 30 minutes
Elapsed	
Instructions	-----

Unless otherwise specified:

- use no more than one space to separate elements of an expression
- add switches in alphabetical order, unless the switch order changes the behaviour of the expression
- use double quotes (") not single quotes ('), unless the expression requires single quotes
- do not use POSIX classes (e.g. [:alpha:]) unless asked to
- use UN*X (short) not GNU (long) switches
- use ^ followed by the uppercase character to represent a control sequence (e.g. ^C)
- redirect STDERR before STDOUT
- assume that user names (userID) can be mixed case, that passwords are stored in /etc/shadow and have either a single character placeholder of mixed case or no placeholder in /etc/passwd
- use standard, not enhanced, versions of the commands unless otherwise specified (e.g. grep(), not egrep())
- when in vi, or using vi mode on the command line:
 - use <ESC> to represent the escape keystroke (all uppercase)
 - use <ENTER> to represent the enter/return keystroke (all uppercase) when this key must be used to complete the sequence and return to another mode

Correct -> cmd -a -S arg arg | cmd

Question 1



What does this return? (use a hyphen (-) to indicate the box is empty / there is no more output)

```
% cat file
```

```
Bob Smith:m:abc:1999
```

```
Judy Smith:f:CNS/CTY:1999
```

```
Silly Person:m:IFS:2011
```

```
Fimtim Wimbim Limbim Fatang Fatang Oleh Bisquit-  
Barrel:n:IFS:Never
```

```
% grep -o "[aeiou]\{2\}" file
```

[a] ui

[b] -

[c] -

[d] -

[e] -

Question 2



What does this return? (use a hyphen (-) to indicate the box is empty / there is no more output)

```
% cat file
```

```
Bob Smith:m:abc:1999
```

```
Judy Smith:f:CNS/CTY:1999
```

```
Silly Person:m:IFS:2011
```

```
Fimtim Wimbim Limbim Fatang Fatang Oleh Bisquit-  
Barrel:n:IFS:Never
```

```
% cat file | tr a-z A-Z | grep -c "9"
```

[a] 2

[b] -

[c] -

[d] -

[e] -

Question 3



`sed 's/^[a-z]*:/\U&/' /etc/passwd | sed 's/:\w:/\t:/'`

Write the sed expression that will return the contents of /etc/passwd, using extended regexp, backreferencing, and only character classes as atoms along with quantifiers to match, so that the first field is capitalized, followed by a tab, removing the second field and then followed by the rest of the record. The output format should look like:

```
ROOT :0:0:root@mtrx-node03pd.dcm:/root:/bin/bash
BIN :1:1:bin:/bin:/sbin/nologin
DAEMON :2:2:daemon:/sbin:/sbin/nologin
```

Question 4



`awk -F: '$5 ~ /^B*/ {print $7}' silly.txt`

Write the simplest expression that will return only the 7th field of the colon separated file silly.txt when the 5th field starts with a B, with the following format (do not include the brackets in the output):

Match: [7th field]
Match: [7th field]

`awk -F: '$5 == "B*" {print $7}' silly.txt`

Question 5



What does this return? (use a hyphen (-) to indicate the box is empty / there is no more output)

```
% cat file
```

```
Bob Smith:m:abc:1999
```

```
Judy Smith:f:CNS/CTY:1999
```

```
Silly Person:m:IFS:2011
```

```
Fimtim Wimbim Limbim Fatang Fatang Oleh Bisquit-  
Barrel:n:IFS:Never
```

```
% sed -r -e "2,4s/^(.)(.)(.*)/a\2/;3q" file
```

```
[a] Bob Smith:m:abc:1999
```

- [b] au
- [c] ai
- [d] -
- [e] -
- [f] -

Question 6



What does this return? (use a hyphen (-) to indicate the box is empty / there is no more output)

```
% cat file
Bob Smith:m:abc:1999
Judy Smith:f:CNS/CTY:1999
Silly Person:m:IFS:2011
Fimtim Wimbim Limbim Fatang Fatang Oleh Bisquit-
Barrel:n:IFS:Never
% grep -o "im" students | wc -l
```

If `grep -o "im" file | wc -l`

- [a] - 6
- [b] - -
- [c] - -
- [d] - -
- [e] - -

Question 7



Write a sed script that will do the following, in this order: change all colons (:) to tabs on lines 1 through 50, delete any lines that contain sbin, and finally change an occurrence of the word Bob to the word Bruce on any line it appears on.

- [a] 1,50 s/:/t/g
- [b] /sbin/ d
- [c] s/Bob/Bruce/g

Question 8



Write the simplest expression using extended regexp that will return the contents of the file /tmp/silly, with all numbers surrounded by asterisks (e.g *123*).

```
egrep "^*+[0-9]+\*$" /tmp/silly
```

Thursday, December 3, 2020 12:51:56 AM EST

← OK