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PRINT Name: LAB Section:			touch				
One-Answer Multiple Choice 22	9 Questions Weight 10%		a. 3	<i>b</i> . 0	c. 4	d. 6	<i>e</i> . 5
Read all the words of these instructions and both sides (back and front) of all pages. Manage your time. Answer questions you know, first. One Answer per question. PRINT your Name and Lab on this Question Sheet. You may write or draw on this sheet. Use your full, unabbreviated name on the mark-sense form. Do not abbreviate your name. Enter your NAME, Student Number, and Answers. Fill in the bubbles with pencil, no pen. The answer to the questions below about reading/doing all these test instructions is: Jes			after this commaa. the commab. the directorc. there is a setd. the comma	mand line: t nd fails becau ry mt now con econd copy of nd fails becau	ouch foo; mv., see the path/me/bantains only a file named the file foo in the file	the file named bar nt//foo does not exist	
191. Answer 191 is	Your Test Version is: C A C D A B Fill in the bubbles for the above six letters as six answers 191 through 196 on the back side of the Scantron form, in the lower-right-most answer column.	7.	The basic purp a. to format h b. to find and c. to search f d. to expand j e. to program	oose of a shell ard drives run command or strings inside bathnames system admin	is: ls le text files nistration backup proce	dures	
1. Did you read all the words of the a. Tak (Yes - Polish)	test instructions on page one? b. Sim (Yes - Portuguese)	8.	If a shell toker in each matched a. zero, one, of d. one or two	ed pathname? or two	b. one, two, or moree. exactly two		many slashes can l
c. Taip (Yes - Lithuanian) e. Jes (Yes - Esperanto)	d. Igen (Yes - Hungarian)		In an empty di	rectory, what	is the output on your so	reen after thi	s command line:
 My three-digit Lab Section number is: a. The Test Version number printed in the top left corner. b. My lecture room number, e.g. T119, C346 c. My lecture section number, e.g. 010 or 020. d. My lab room number: B384, A219, B132, B185, P213 e. The timetable section number of my weekly 2-hour lab period. 			 a. nosuchfile b. ls: /dev/null: No such file or direct c. ls: 1>/dev/null nosuchfile: No such d. no output e. ls: nosuchfile: No such file or direct If pig is a sub-directory that contains only the file dog, 				7
command: mv ./ian/./foo	ains only the file foo, what happens after this ./ian//bar name ./ian/./foo does not exist	10.	command: n a. there is a second	nv pig/dog econd copy of	pig/././cat The file dog in the file ontains only a file name	named cat	appens arer tins

c. the directory **ian** is now empty

b. the command fails because the name ./ian/../bar does not exist

In the output of the command **ls** -a, a dot (period) that *begins* a name signifies

d. there is a second copy of the file **foo** in the file named **bar**

e. the directory ian now contains only a file named bar

- b. A name that is hidden.
- c. The parent directory.
- d. The current directory.
- e. A current file.

what?

In an empty directory, how many words are in file **out** after this command line:

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- c. the command fails because the name pig/././cat does not exist
- *d*. the directory **pig** is now empty
- e. the command fails because the name cat does not exist
- 11. If file /a contains 3 lines, and file /b contains 5 lines, then how many lines are in file /c after this command line:

12.	What does <i>quoting</i> mean on a shell command line?
	a. setting the PS1 variable to be your shell prompt
	b. using a leading tilde ("~") on a pathname to mean your HOME directory
	c. typing a "control" character using the [CTRL] key
	d. using more than one pathname argument to a command, e.g. rm a b c
	e. turning off the special meaning of shell meta-characters
13.	How many lines are in the file out after this command line:
	echo hi >x ; echo ho >>x ; cat x x x >out
	a. 3 b. 1 c. 2 d. 6 e. 0
14.	What is the output of this command line in an empty directory:
	touch .a .b .c ; echo .*
	a. no outputb. an error message from echo saying .* does not exist
	c*
	d a .b .c
	ea .b .c
15.	If the current directory contains 10 visible files and 15 visible sub-directories, what
	is the output on your screen of this command: ls -d */.
	a. */.
	b. an error message because */. does not exist
	c. 25 pathnames
	d. no outpute. 15 directory names
16	•
10.	If my current directory is /home , which of these pathnames is equivalent to the pathname /home/a/b/c ?
	a. /a/b/c b/a/b/c
	c/home/b/c d /home/a/b/c
	e/home/a/b/c
17.	What is the output on your screen of this command line:
	echo pig >one ; echo cow head -n 2 one
	a. cow b. an error message
	c. pig d. cow followed by pig
10	e. pig followed by cow
18.	What is the output on your screen after this command line: echo hi >a; ls a > wc
	a. 3 b. 1 1 2 c. 1 1 3
	d. 2
19.	How many lines are in file out after this command line:
17.	date >wc >cat >out
	a. 1 6 29 b. 0 0 0 c. 2
	d. 0 e. 1

```
20. If you type the command sleep 60, which CTRL key will interrupt it and take
    you back to the command prompt?
    a. ^D
                    b. ^I
                                                    d. ^C
                                    c. ^R
                                                                    e. ^U
21. How many arguments does the shell pass to this echo command:
         echo one two three >four five
                    h. 2
                                                    d. 5
    a. 4
                                    c. 3
                                                                    e. 6
22. If my current directory is /home, and my HOME directory is /home/me, which
    command copies the password file into my HOME directory under the name foo?
    a. cp me/../../etc/passwd me/foo
    b. cp ../home/me/../etc/passwd ./me/./foo
    c. cp ../../etc/passwd /me/foo
    d. cp ./me/../etc/passwd ../home/me/foo
    e. cp ../etc/passwd ../me/foo
23. If foo is a sub-directory that contains only the file bar, what happens after this
    command: mv foo/bar foo/moo
    a. there is only the file named moo in the directory now
    b. there is a second copy of the file bar in the file named moo
    c. an empty file named moo is created
    d. the command fails because the name moo does not exist
    e. the command fails because bar is not a directory
24. In the output of ls -a, the two-character name . . signifies what?
    a. The ROOT directory.
    b. The current directory.
    c. It begins every name that is hidden.
    d. The parent directory.
    e. A file or directory with double links.
25. If file ten contains ten lines, and file twenty contains twenty lines, then how
    many lines are output on your screen by this command line:
         cat twenty | sort ten
    a. 20
                    b. 30
                                                    d. 0
                                    c. 60
                                                                    e. 10
26. How many words are in the file x after this command line:
         echo 1 2 >x; echo 3 >x; echo 4 >>x
    a. 2
                    b. 1
                                   c. 0
                                                    d. 4
                                                                    e. 3
27. How many arguments and options are there to the command: wc -wc wc
    a. Two options, no arguments.
```

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- b. Two arguments, one of which is a single option and the other is a pathname.
- c. Two arguments, no options.
- d. Two command line arguments, one of which contains two bundled options.
- e. Two command name arguments and two bundled options.

28.	If file a contains 2 lines, and			lines are output	36.		
	on your screen by this commaa. 3d. 2	b. no output e . 5	c. 0				
29.	If file twenty contains twer how many lines are output on tail twenty cat	your screen by this con	mmand line:	irty lines then	37.		
	a. 30 b. 50	c. 20	<i>d</i> . 0	e. 40			
30.	What do you do to erase an er	ntire line of typing in th	ne shell?				
	a. type [CTRL-D]	1 4 1			20		
	b. select the line with the moc. type [CTRL-C]	use and use the DEL Ke	ey		38.		
	d. type [CTRL-U]						
	e. type [CTRL-W]						
31.	If file /a contains 40 lines, a	nd file /b contains 60	lines, then how	many lines are			
	output on your screen by this	command line:		•			
	sort /a /b cat				39.		
	a. 160 b. 100	c. 200	d. 60	e. 40			
32.	If my current directory is /hc pathname /home/a/b/c?	•	•				
	a/a/b/cd/a/b/c	b. /a/b/ce/home/a/b/c	c /	home/b/c			
33.	33. Which of these pathnames is <i>not</i> an absolute pathname (after all shell expansions)?						
	a. ~/foo	b. \$HOME/foo	c. foc	•	40.		
	d. //foo	e. /foo					
34.	If my current working directo						
	/home/foo, which commanded under the name xx ?	nd copies file /bin/la	s into my HOM	ME directory	41.		
	a. cp ./foo///bir	1/1s /foo/ /vv			41.		
	b. cp/home/./foo/		:				
	c. cp ././foo//bin,						
	d. cp//bin/./ls				42.		
	e. cp .//bin/ls						
	5. The output of the tree command is:						
35.	a. an indented, recursive list of directories and their contents						
35.	a. an indented, recursive list	of directories and their	contents				
35.	a. an indented, recursive listb. the tree of users logged in	of directories and their to the system	contents		42		
35.	 a. an indented, recursive list b. the tree of users logged in c. the tree of files under the l 	of directories and their to the system ROOT directory	contents		43.		
35.	a. an indented, recursive listb. the tree of users logged in	of directories and their to the system ROOT directory HOME directory	contents		43.		
35.	 a. an indented, recursive list b. the tree of users logged in c. the tree of files under the l d. the tree of files under your 	of directories and their to the system ROOT directory HOME directory	contents		43. 44.		

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```
b. mkdir -p a/b/c
a. rm -r a/b/c
                                    d. touch a/b/c
c. rmdir -r a/b/c
e. mkdir -r a/b/c
Which command line below outputs only lines 11-15 of the Unix password file?
a. head -n 15 /etc/passwd | tail -n 5
b. tail -n 10 /etc/passwd | head -n 15 /etc/passwd
c. head -n 10 /etc/passwd | tail -n 15 /etc/passwd
d. head -n 15 /etc/passwd | tail -n 5 /etc/passwd
e. tail -n 15 /etc/passwd | head -n 10
Which command line shows the file in /bin with the largest checksum?
a. ls /bin/* | sum | sort -nr | head -n 1
b. cat /bin | sum | sort -nr | head -n 1
c. sum /bin/* | sort -nr | head -n 1
d. cat /bin/* | sum | sort -nr | head -n 1
e. sum /bin | sort -nr | head -n 1
What is the output of this command line in an empty directory:
    touch .a .b .c ; echo [.]*
a. an error message from echo saying [.] * does not exist
b. no output
c. [.]*
d. . .. .a .b .c
e. .a .b .c
If file a contains 2 lines, and file b contains 3 lines, then how many lines are output
on your screen by this command line: cat b | sort a
a. 2 followed by 3
                        b. 5
                                                c. 3
d. 2
                        e. 3 followed by 2
Which pathname almost always leads to the same file named: /bin/ls
a. ./bin/ls
                                    b. /bin/./bin/../ls
c. /./bin/./ls/.
                                    d. /bin/../ls
e. /./bin/./ls
If file foo contains 99 lines, each of which is the two-digit line number of the line
in the file (01 through 99), what is the output on your screen of this command:
    sort -r foo foo | tail -n 4 | head -n 1
                        b. 96 96
a. 02
                                                c. 96
d. 04 04
                        e. 98
In an empty directory, how many lines are in file out after this command line:
    ls . .. nosuchfile 2>out
a. 1
              b. 2
                             c. 4
                                           d. 0
In an empty directory, how many arguments are passed to the rm command in this
command line: date >a1 ; touch a2 ba ca >all ; rm a*
a. 3
              b. 2
                             c. 4
                                           d. 1
                                                          e. none
```

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The command that creates a directory and all parent directories is:

45. If my current directory is /home, and my HOME directory is /home/me, which command copies the password file into my HOME directory under the name **foo**?

a. cp ./me/../etc/passwd ../home/me/foo

b. cp ../../etc/passwd /me/foo

c. cp ../home/me/../etc/passwd ./me/./foo

d. cp ../etc/passwd ./me/foo

e. cp ../etc/passwd ../me/foo

46. If file **nine** contains 9 lines, each of which is the one-digit line number of the line in the file (1 through 9), what is the output on your screen of this command:

sort nine nine | tail -n 3 | head -n 1

a. 1

b. 8 8

c. 8

d. 2 2

47. In an empty directory, how many words are in file pig after this command line:

touch pig pig ; ls >pig

a. 1

b = 0

c. 4

d. 2

48. If file **foo** contains 9 lines, each of which is the one-digit line number of the line in the file (1 through 9), what is the output on your screen of this command:

cat foo foo | cat | tail -n 4 | head -n 1 d. 9

a. 5 b. 6 c. 7

e. 8

1 Minute Per Question

e. 9

e. 3

49. If I am in my HOME directory named /home/myhome and dir is an empty subdirectory, what is true after this command line:

touch new; mv ./dir/../new ../myhome/old

a. the command fails because the path ../myhome/old does not exist

b. the directory **dir** now contains only a file named **old**

c. the command fails because the path ./dir/../new does not exist

d. the parent directory of **dir** now has a file named **old** in it

e. there is a second copy of the file **new** in the file named **old**

50. To make the **bash** shell complete commands or file names, you type the first part of the command or file name and then press this key:

a. [TAB]

b. [ALT]-[F1]

c. [ALT]

d. [CTRL] - [D]

e. [CTRL]-[C]

51. Which command below is the best way to find a line containing an asterisk (*) in the file named **foo**?

a. fgrep foo "*" c. fgrep ./* foo b. fgrep foo [*] d. fgrep '*' foo

e. fgrep * foo

52. If my current directory is /etc, which of these pathnames is equivalent to the file name /etc/passwd?

a. /passwd

b. ../passwd

c. ../etc/passwd/.

d. ./etc/passwd

e. ./passwd

53. Which of the following statements is true about this command line:

<dir/c cat dir/d

a. The command cat sees two arguments.

b. The command is always invalid.

c. The command dir/c sees only one argument

d. The command dir/c sees two arguments.

e. The command cat sees only one argument.

54. If I am in directory **/home/me** and **mt** is an empty sub-directory, what is true after this command line: touch ./foo; mv ./mt/../foo ../me/bar

a. there is a second copy of the file **foo** in the file named **bar**

b. the directory **mt** now contains only a file named **bar**

c. the command fails because path ./mt/../foo does not exist

d. the command fails because path . . /me/bar does not exist

e. the directory mt/.. now contains a file named bar

55. If I am in my HOME directory named /home/me and x is an empty subdirectory, what is true after this command line:

touch ./x/fil ; mv x/./fil x/../../me/./y

a. the directory \mathbf{x} is still empty

b. the command fails because the path x/./fil does not exist

c. there is a second copy of the file **fil** in the file named **y**

d. the directory \mathbf{x} now contains only a file named \mathbf{y}

e. the command fails because the path $\mathbf{x}/.../.../me$ does not exist

56. If my current working directory is **/home**, and my HOME directory is /home/me, which command copies the password file into my HOME directory under the name **foo**?

a. cp ./me/../etc/passwd ../home/me/foo

b. cp ../etc/passwd ./me/foo

c. cp ../home/me/../etc/passwd ./me/./foo

d. cp ../../etc/passwd /me/foo

e. cp ../etc/passwd ../me/foo

57. The output of the **find** command is:

a. a recursive list of users logged in to the system

b. finds patterns in a file corresponding to lines

c. a recursive list of pathnames

d. finds lines in a file matching a pattern

e. account names matching a pattern

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58. What is the output of this command line in an empty directory: 66. What is your HOME directory? touch .a .b .c ; echo .??* a. The directory into which you are placed when you first log in a. .??* b. The top directory of the Unix/Linux/BSD/OSX file system tree b. an error message from **echo** saying .??* does not exist c. The directory that your shell is in now c. .a .b .c d. The directory named /home d. no output e. This is where "root" goes when "root" logs in to the system e.a .b .c 67. Which command below is the best way to find a line containing a question mark 59. If /bin/bash is a file name, which pathname always leads to the same file? (?) in the file /etc/passwd? a. /bin/bash/.. b. /bin/bash/. a. grep '?' /etc/passwd b. search '?' /etc/passwd c. grep './?' /etc/passwd c. /bin/../bash d. /../../bin/bash d. find '?' /etc/passwd e. ./bin/bash e. grep /etc/passwd '?' 68. In an empty directory, what is the output on your screen after this command line: 60. Which pathname almost always leads to the same file named: /etc/passwd? ls 2>/dev/null nosuchfile b. /etc/./etc/../passwd a. ./etc/passwd a. ls: 2>/dev/null nosuchfile: No such file or directory c. ../etc/passwd d. /etc/../etc/./passwd b. no output e. /etc/passwd/. c. nosuchfile 61. If file a contains 2 lines, and file b contains 3 lines, then how many lines are in file d. ls: nosuchfile: No such file or directory **c** after this command line: e. ls: /dev/null: No such file or directory sort a b >c; cat a >>b; sort c b >c a 69. In a manual page **SYNOPSIS** section, ellipsis (three dots) (...) mean: a. 12 b. 8 c. 7 d. 5 e. 0 a. the parent directory b. something that is repeated 62. If my current directory is /bin, which of these pathnames is equivalent to the file c. something that is optional d. no special meaning name /bin/ls? e. a hidden directory a. 1s/. b. ./bin/ls c. ../bin/ls/. d. ../../bin/ls e. /root/bin/ls 70. If /etc/passwd is a file name, which pathname always leads to the same file? a. ./etc/passwd b. /etc/passwd/. 63. What is true about this command line: date >1s; ls -ls ls >wc c. /etc/../../passwd d. /../etc/./passwd a. The wc command counts the output of the 1s command. e. /etc/passwd/../.. b. The shell finds and executes three different commands. c. The **ls** command receives the output of **date** on standard input. 71. What is an operating system? d. The **ls** command is executed more than once. a. A word-processing computer program. e. The file wc has one line in it. b. An accounting package program. c. A computer program that manages the hardware. 64. Which pathname almost always leads to the same file named: /etc/passwd d. A web-browser program. a. ./etc/passwd b. /etc/../passwd e. A video display card. c. /etc/etc/../passwd d. /./etc/./passwd e. /etc/passwd/. 72. If I am in directory **/home/me** and **mt** is an empty sub-directory, what is true after this command line: touch foo; mkdir bar; my foo bar/mt 65. In an empty directory, how many arguments are passed to the cat command in this command line: touch al a2 ac ba .a ; cat a* a. the directory **mt** is still empty b. the directory bar now contains a file named foo *a*. 3 b. 1 c. 4 d. 2 e. none c. the directory **mt** now contains a file named **foo** d. the command fails because **bar/mt** is not a directory e. the directory mt now contains a directory named bar 73. Which of these commands always returns you to your account HOME directory?

a. cd /home

d. cd

b. cd /home/..

e. cd ..

c. cd home

c. no output

74. What is in the file **bar** after this command line: 83. If file a contains 2 lines, and file b contains 3 lines, then how many lines are output echo hi >x ; echo ho >x ; mv x y >bar on your screen by this: cp b a | head a. 3 followed by 2 a. no such file (nonexistent) b. hi b. **2** followed by **3** d. nothing (empty file) d. 2 c. ho e. 3 e. hi followed by ho 84. How do you search for the word **nongraphic** in the man page for **ls**? 75. The shell meta-character used to separate multiple separate commands on the same a. type man nongraphic | grep 1s at the shell line of typing is: b. type man 1s at the shell, then ^F (CTRL-F), then nongraphic a. + *b*. a d. , c. type man -k nongraphic at the shell c. ; e. : d. type man ls -nongraphic at the shell 76. The purpose of the **PS1** shell variable is: e. type man 1s at the shell, then /nongraphic a. to allow access to the ROOT directory b. to protect your HOME directory from access 85. Which of these command line will make file **foo** contain all of the content of file c. to list your suspended jobs a followed by all of the content of file b? d. to set the shell prompt a. cp a b >foo e. to find patterns inside a text file b. cp a >foo; cp b >>foo c. cat a >foo; cat b >>foo 77. In an empty directory, what is the output on your screen of this command line: d. mv a b >foo echo hi >foo >bar ; cat foo e. echo a b >foo a. hi b. cat: foo: No such file or directory 86. If file **twenty** contains twenty lines, and file **thirty** contains thirty lines, then how many lines are output on your screen by this command line: c. hi >foo >bar tail thirty | cat twenty d. no output *a*. 0 b. 20 c. 50 d. 21 e. hi >foo 87. If I am in directory /home/me and mt is an empty sub-directory, what is true 78. Which Unix command line deletes a directory and everything inside it? after this command line: a. rm -all dir b. rm -r dir touch ./foo bar ; rm mt/../foo ../me/bar c. rmdir -r dir d. deltree -all dir a. the directory **mt** now contains a file named **foo** e. rmdir -all dir b. the directory **me** now contains a file named **bar** 79. Which command line lists all possible utilities available for compiling programs? c. the command fails because the path ../me/bar does not exist a. locate compile b. grep 'compile' /etc/ d. the command fails because the path mt/../foo does not exist c. find compile d. man compile e. the directory **mt** is still empty e. man -k compile 88. What is the output of this command line in an empty directory: cat * 80. What is in file foo after this command line: echo 1 2 >foo 3 a. no output b. 3 a. 1 2 3 b. an error message from cat saying * does not exist *c*. nothing (empty file) d. 1 2 e. echo 1 2 d. . 81. What is the output on your screen of this command line: e. . .. echo pig >one ; echo bat | tail one b. pig followed by bat a. bat c. bat followed by pig d. pig e. an error message 82. In an empty directory, how many arguments are passed to the wc command in this command line: touch xx yy >zz 123 .a b. ; wc ??

c. 2

b. 0

a. 5

e. 1

d. 4

e. 30

CST 8207 - Fall 2017 - Practice Test #1 - 10% Ian! D. Allen

89. If directory dir contains these three four-character file names: .123, .124, .???, then what is the output on your screen of this command line: echo dir/????

- a. dir/.123 dir/.124
- b. dir/????
- c. no output
- d. echo: dir/????: No such file or directory
- e. dir/.123 dir/.124 dir/.???
- 90. If file **foo** contains 9 lines, each of which is the one-digit line number of the line in the file (1 through 9), what is the output on your screen of this command:

cat foo foo | sort | tail -n 4 | head -n 1 a. 4 b. no output c. 8 d. 1 e. 6

91. In an empty directory, what happens after this command line:

mkdir a b c; mv a b c

- a. an error message: mv: target 'c' is not a directory
- b. the directories **a**, **b**, and **c** are moved to the current directory
- c. the directories **a** and **b** are appended to the directory **c**
- d. the directories **a** and **b** are moved into the directory **c**
- e. the directories a, b, and c are moved to the directory c
- 92. Which of these command line will make bar contain all of the content of **f1** followed by all of the content of **£2**?
 - a. echo f1 f2 >bar

h wc f1 f2 >bar

c. cp f1 f2 >bar

d mv f1 f2 >bar

- e. cat f1 f2 >bar
- 93. In which section of the manual do you find super-user and admin commands? a. 8 b. 4 c. 3 d. 2. e. 1
- 94. If I am in directory **/home/me** and **mt** is an empty sub-directory, what is true after this command line:

touch ./mt/foo; mv mt/./foo mt/../../me/./y

- a. the command fails because the path mt/../../me does not exist
- b. the command fails because the path mt/./foo does not exist
- c. the directory **mt** now contains only a file named **y**
- d. there is a second copy of the file **foo** in the file named **y**
- e. the directory **mt** is still empty
- 95. What is the output on your screen of this command line:

echo hi >hi ; head hi >hi ; wc hi

- a. 1 1 3 hi
- b. 0 0 0 hi
- c. no output

- d. 1 1 2 hi
- e. 2 2 4 hi

a. echo ?a? c. echo *a d. echo *a* e. echo a*

96. Which command line displays only the non-hidden names in the current directory

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b. echo [a]

97. If **foo** is a sub-directory that contains only the file **bar**, what happens after this command: cp foo/bar ./foo/../me

that contain the letter **a** (and no other names)?

- a. there is a second copy of the file bar in directory foo
- b. the directory **foo** is now empty
- c. the command fails because the name **foo/bar** does not exist
- d. the directory **foo** now contains only a file named **me**
- e. there is a second copy of the file bar in the file named me
- 98. How many lines are in the file **bar** after this command line:

echo hi >x ; echo ho >>x ; cat x >bar d. 4

- a. 1
- b. 2
- c. 0

e. 6

99. Which command line tells you the recursive count of all pathnames under the current directory and all subdirectories?

a. 1s | wc

b. wc *

c. find | wc

d wc . e. wc "\$PWD"

100. Which command line displays only the non-hidden names in the current directory that contain the case-insensitive word **me** (and no other names)?

a. echo *[me]*

b. echo *[MmEe]*

c. echo ?[MmEe]?

d. echo *[Mm][Ee]*

- e. echo *(M, m, E, e) *
- 101. What is the output of this command line in an empty directory:

touch .1 .2 .3 4 5 6; echo .*

- a. .*
- b. .1 .2 .3 4 5 6
- c. 4 5 6
- d. an error message from **echo** saying . * does not exist
- e.1 .2 .3
- 102. If file **foo** contains 9 lines, each of which is the one-digit line number of the line in the file (1 through 9), what is the output on your screen of this command:

cat foo foo | sort -r | head -n 4 | tail -n 1 *a*. 5 b. 6 c. 7 d. 9 e. 8

103. How many lines are in the file **bar** after this command line:

echo hi >x : echo ho >>x : cat x x >bar

- a. 4
- b. 2
- c. 1
- *d*. 0

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04. In the output of the command ls - a , the one-character name . signifies what? <i>a</i> . The ROOT directory.	112. In an empty directory, what is the output on your screen after this command line: echo hi >a; ls nosuchfile 2>/dev/null					
b. A current file.	a. ls: nosuchfile: No such file or directory					
c. The current directory.	b. a					
d. A name with an unprintable character.	c. no output					
e. The parent directory.	d. ls: 2>/dev/null: No such file or directory					
05. What is the output of this command line in an empty directory: echo *	ℓ . nosuchfile					
a	113. If file /a contains 20 lines, and file /b contains 30 lines, then how many lines are					
b. *	in file /c after this command line:					
c. no output	sort /a /b >/c ; cat /a >>/b ; sort /c /b /a >/c					
d. an error message from echo saying * does not exist	a. 50 b. 70 c. 80 d. 120 e. 0					
e	114. In an empty directory, what is the output on your screen after this command line: 1s out 2>/dev/null					
command line: touch a a1 a2 ba ca ; rm a*	<pre>a. ls: out 2>/dev/null: No such file or directory</pre>					
a. none b. 2 c. 3 d. 1 e. 4	<i>b.</i> no output					
107. What is the <i>current directory</i> ?	c. out					
a. The directory that your shell (or any Unix process) is in now	d. ls: out: No such file or directory					
b. The directory into which you are placed when you first log in	<pre>e. ls: /dev/null: No such file or directory</pre>					
c. This is where "root" goes when "root" logs in to the system	115. If file foo contains 9 lines, each of which is the one-digit line number of the line in					
d. The directory named /current	the file (1 through 9), what is the output on your screen of this command:					
e. The directory named (dot dot)	sort foo foo tail -n 2 head -n 1					
08. Which of these characters is <i>not</i> a shell GLOB meta-character?	a. 8 8 b. 8 c. 1 d. 9 e. 2 2					
a. ? b. * c. [d.] e. #	116. What happens when you try to change to the parent directory of ROOT, e.g. cd /; cd					
09. What is the output of this command line in an empty directory:	a. you go to the parent directory containing your C: drive					
touch a .a bc .bc def; echo [ab]*	b. the shell asks you to retype this invalid directory					
a. [ab]* b. a bc	c. the shell issues an error message and does not change					
c. an error message from echo saying [ab] * does not exist	d. the shell current directory is still ROOT; no change					
d. no output	e. the shell issues a warning, but changes to the parent					
e. a .a bc .bc	117. Given the pathname a/b/c , the <i>basename</i> of this pathname is:					
10. What command displays the sizes of files in the current directory?	a. b b . a/b c . c d . b/c e . a					
a. 1s -1 b. ps -s c. 1s -p	118. What is the Unix user name for the Super-User account?					
d. ps -1 e. cat -s	a. administrator b . alterego					
11. Which pathname almost always leads to the same file named: /etc/shadow	c. root d. superuser					
a/./etc/shadow b. /etc/shadow//	e. master					
c. /./etc/shadow	119. What is the output on your screen of this command line:					
e. /etc//.shadow	echo bat >pig ; echo one tail pig					
c. / 555/ / / 511445 W	a. one b. bat followed by one					
	c. one followed by bat d. an error message					
	e. bat					

120.	If I am in directory /hom	ie/me a	and mt	is	an empty	sub-d	ire	ctory,	what	is true
	after this command line:	toucl	h foo	;	mkdir	bar	;	mv	foo	mt/bar

- a. the command fails because **mt/bar** is not a directory
- b. the directory **mt** now contains a file named **bar**
- c. the directory **mt** is still empty
- d. the directory bar now contains a file named foo
- e. the directory mt now contains a file named foo
- 121. What is the result of this exact command line: echo /foo bar
 - a. the two text strings **/foo** and **bar** will be displayed
 - b. all the files under directory **/foo** with the name **bar** will be displayed
 - c. the contents of the files **/foo** and **bar** will be displayed
 - d. file **/foo** will be copied to **bar**
 - e. the names of the pathnames /foo and bar will be displayed
- 122. In an empty directory, what is the output on your screen after this command line:

echo hi >a ; ls >wc -l

a. 2

b. 1

c. 0

1 Minute Per Question

- d. no output
- e. a
- 123. What is the output of this command line in an empty directory:

touch 1 2 3 .a .b .c; echo .??*

- a. an error message from **echo** saying .??* does not exist
- b. .??*
- c.a .b .c
- d. .a .b .c
- e. . .. 1 2 3 .a .b .c
- 124. If directory dir contains these four three-character file names: .aa, .ab, .a?, .a*, then what is the output on your screen of this command line:
 - echo dir/???
 - a. dir/???
 - *b.* no output
 - c. dir/.aa dir/.ab
 - d. dir/.aa dir/.ab dir/.a? dir/.a*
 - e. dir/.a?
- 125. In an empty directory, how many arguments are passed to the cat command in this command line: touch a1 a2 ba ca; cat a*
 - a. 1
- b. 2
- c. 4
- d. none
- *e*. 3
- 126. If a shell GLOB pattern fails to match anything, what happens by default? The shell:
 - a. removes the pattern and passes nothing
 - b. returns the closest match to the pattern
 - c. gives an error message and does not execute
 - d. passes the pattern unchanged to the command
 - e. gives a warning message but continues

- 127. Which command line does *not* show any lines from inside the file **bat**?
 - a. sort bat
- b. 1s bat

c. tail bat

- d. head bat
- e. less bat
- 128. In an empty directory, what is the output on your screen after this command line:

 echo hi >a; sort * 1>/dev/null

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- a. **a**
- b. sort: 1>/dev/null: No such file or directory
- c. no output
- d. hi
- e. sort: *: No such file or directory
- 129. If file /a contains 7 lines, and file /b contains 5 lines, then how many lines are in file /c after this command line:

cat /a /b >/c; sort /c >/c; sort /c /a /b >/c

- a. 24
- *b*. 0
- *c*. 5
- d. 7
- *e*. 12
- 130. To prevent disconnections when using the Windows version of **PuTTY**, you should make this configuration change:
 - a. use your student number as your password
 - b. log in using your Blackboard userid
 - c. set the seconds between keepalives to 55
 - d. your password will not echo on your screen as you type
 - e. use your ACSIS password as your password
- 131. What is the output on your screen of this command line:

echo wc >wc ; wc wc >wc ; cat wc

- a. 1 1 2 wc
- b. 1 1 3 wc
- c. 0 0 0 wc
- d. wc e. no output
- 132. If I am in my HOME directory named /home/ian and mt is an empty subdirectory, what is true after this command line:

touch ../ian/cat ; cp ./mt/../cat ./mt/../dog

- a. the directory **mt** now has a file named **dog** in it
- b. the file named cat is now renamed to dog
- c. the command fails because the path ./mt/../cat does not exist
- d. the directory **mt** is still empty
- e. the directory **mt** now contains two files
- 133. In a directory containing one file named **dog**, what is the output on your screen after this command line: **2>/dev/null ls nosuchfile**
 - a. bash: 2>/dev/null: command not found
 - b. ls: nosuchfile: No such file or directory
 - c. dog
 - d. no output
 - e. nosuchfile

c. ../x/y

134. If you type the command cat, which CTRL	key will send an EOF and take you	144. If I am in my HOME directory named /home/me and dir is an empty sub-
back to the command prompt?	1	directory, what is true after this command line:
a. ^D b. ^E c. ^R	d. ^U e. ^C	touch new; mv ./dir//new/me/old a. the command fails because the path/me/old does not exist
135. The option to ls that shows which names are	_	b. the command fails because the path/me/old does not exist
a1 bi ca	d1 ed	c. the directory dir now contains only a file named old
136. What command can you use to delete an emp	ty directory?	d. the parent directory of dir now has a file named old in it
a. deldir b . rmdir	c. mvdir	e. there is a second copy of the file named new in the file named old
d. delete e . erase		145. Which of the command lines below can generate a non-empty file?
137. Which command line displays only the names		a. grep 'foo' foo >foo b. tail foo >foo
exactly three digits long (and no other names))?	c. cat foo >foo d. sort foo >foo
	b. echo [3][3][3]	e. 1s foo >foo
	d. echo [0-9][0-9][0-9]	146. If file foo contains 99 lines, each of which is the two-digit line number of the line
e. echo [1-3][1-3][1-3]		in the file (01 through 99), what is the output on your screen of this command:
138. Which command line lists all possible utilities		sort foo foo tail -n 4 head -n 1
	b. grep compile /etc/	a. 98 b. 96 96 c. 04 04
	d. locate compile	d. 96 e. 01 01
e. man compile		147. In a directory containing one file named mt, what is the output on your screen after
139. If file a contains 20 lines, and file b contains 30 lines, then how many lines are in file out , after this command line:		to
cat a b >c; head c >c; so	rt a b c >out	a. nosuchfile
a. 30 b. 0 c. 50	d. 100 e. 60	b. ls: nosuchfile: No such file or directory
140. If file /a contains 30 lines, and file /b conta	=	c. bash: 2>/dev/null: command not found
output on your screen by this command line:		an no output
a. 0 b. 50 c. 80	d. 20 e. 30	e. mt
141. In a manual page SYNOPSIS section, square	= -	148. In an empty directory, what is the output on your screen after this command line: ls nosuchfile 2>out
	b. something that is optional	a nosuchfile 2 not found b nosuchfile not found
	d. no special meaning	c. nosuchfile d. 2 not found
e. an arithmetic expression		e. no output
142. How many lines are in the file out after this	command line:	149. What is the output on your screen after these command lines:
date >f ; ls f >>f ; cat f		echo 1 >x ; cp x y ; echo 2 >>y
a. 2 b. 0 c. 6	d. 1 e. 4	sort x >y ; cat y
143. If file /a contains 30 lines, and file /b conta	ins 50 lines, then how many lines are	a. 1 followed by 2 b . 1 c . no output
in file /c after this command line:		<i>d.</i> 2 <i>e.</i> 2 followed by 1
cat /a /b >/c ; sort /c >/c		150. What command shows all the lines in file cow that contain the string pig ?
a. 160 b. 0 c. 50	<i>d.</i> 30 <i>e.</i> 80	a. grep pig >cow b . cat cow > grep pig
		c. grep pig <cow <math="">d. grep cow pig</cow>
		e. grep cat cow pig

pathname /lib/x/y? a. ./lib/x/y

d. ../lib/x/y

151. If my current directory is /lib, which of these pathnames is equivalent to the

e. ../lib/y

b. /x/y

152. In an empty directory touch a ; 1	, how many words are in file out after this comman s > out	ine: 160. If foo is a sub-directory that contains only the file bar , what happens aft command: mv foo/./bar foo/././me	ter this
command: mv com	tory that contains only the file dog, what happens af w/dog cow/././cat s because the name cat does not exist	7	
c. there is a second ofd. the command fails	copy of the file dog in the file named cat s because the name cow/././cat does not exist	161. If my current directory is /etc, which of these pathnames is equivalent to pathname /etc/x/y?	
•	now contains only a file named cat lines, and file y contains twenty lines, then how man this command line:	ines a. /x/y b/etc/x/y c/etc/y d/etc/x/y 162. If my current directory is /usr, which of these pathnames is equivalent to	
sort x y > z a . 50 b .	; tail -n 5 x >x ; sort x y z >cat 60 c . 40 d . 0 e .	pathname /usr/x/y/z? $a. x/./y/z$ $b. /x/y/z$ $c/x/y/z$	
a. head file1 > c. tail file1 > e. sort file1 >	file1 d. cat file1 > file1	d/usr/y/z e/usr/x/y/z 163. What can you do to get back (redo) the last command you typed? a. Type [ALT]-[F2] b. Type [CTRL]-[ALT]-[c. Use the "UpArrow" key. d. Use the "PageUp" key.	[UP]
	this command line in an empty directory: .a .ab .abc ; echo [.]*	e. Type [CTRL] - [BACKSPACE] 164. In an empty directory, what happens after this command line: touch a b c; mv a b c	
b a . ab c. an error message : da .ab .abc e. [.]*	.abc from echo saying [.]* does not exist	 a. an error message: mv: target 'c' is not a directory b. the files a, b, and c are moved to the directory c c. the files a, b, and c are moved to the current directory d. the files a and b are appended to the file c 	
157. Which command line	below does not show any lines from inside the file c		
a. we out d . sort out	b. tail out $c.$ more ou $e.$ head out	165. The option to $\mathbf{1s}$ that shows hidden names is: $a. \ \mathbf{-1}$ $b. \ \mathbf{-i}$ $c. \ \mathbf{-1}$ $d. \ \mathbf{-a}$ $e.$	-h
	this successful command sequence? r; mkdir one; mkdir two; pwd b. /home/dir/one d. /home/dir/one/two	166. If /bin/bash is a file name, which pathname always leads to the same find a//bin/bash b. /bin//bash c. /bin/bin//bash d. //bin/./bash e. /bin/bash/.	
159. Given an existing file	of yours named cat, what is the output on your screecho xx >cat; head cat >cat; wc c b. 2 2 4 cat c. 1 1 3 c e. 1 1 2 cat	a. the command fails because the name cat does not exist	ter this

a. /bin/bin//bash b. /./bin/./bash a. Unix commands must be entered in lower-case letters. c. /bin//bash d. /bin/bash/. b. To delete a word from the shell command line, type [CTRL]						
c. /bin//bash d. /bin/bash/. b To delete a word from the shell command line type [CTRL]						
o. ,, o. to doled a word from the short command fine, type [CTRL]	[D]					
e/bin/bash c. To erase an entire line of typing, type [CTRL]-[D].						
169. How do I search for the string foo in the text display output from the man d. To indicate End-of-File (no more input), type [CTRL]-[C].						
command? e. Unix commands can be entered in upper-case or lower-case	etters; they are					
a. /foo b. select "Search" in the menu equivalent.						
c. Qfoo d. find foo 177. If file x contains ten lines, and file y contains twenty lines, then	how many lines					
e. search foo are in file cat after this command line:	•					
170. If /etc/passwd is a file name, which pathname always leads to the same file? sort x y >z ; tail -n 5 y >y ; sort x y	z >cat					
a. /etc//passwd b. /etc/passwd/./. a. 60 b. 40 c. 0 d. 50	<i>e</i> . 45					
c/./etc/passwd d. /etc/passwd// 178. Which CTRL key will erase a full line of typing in a terminal will be a second of the control of	ndow?					
e. /.//etc/./passwd	e. ^D					
171. How many lines are in file out after this command line: 179. Which of these statements is true?						
echo hi >dog >out >cat a. Command apropos is an exact synonym for command ma	ı.					
a. 3 b. 4 c. 0 d. 2 e. 1 b. To indicate End-of-File (no more input) to a program, type [
172. If directory dir contains only these four three-character file names: .on, .tw,						
.th, .f., then what is the output on your screen of this command line: d. To interrupt a Unix process from the keyboard, type [CTRL	-[D].					
echo dir/* e. To erase an entire line of typing, type [ALT] - [DELETE].						
a. no output 180. If my current working directory is /home, and my HOME dire	ctory is					
b. dir/.on dir/.tw dir/.th /home/me, which command copies the password file into my	HOME directory					
c. dir/. dir/ dir/.on dir/.tw dir/.th dir/.f. under the name foo?	under the name foo ?					
d. dir/* a. cp me///etc/passwd me/foo						
$e. \ dir/.f.$ $b. \ cp ./me//etc/passwd/home/me/foo$						
173. If /etc/passwd is a file name, which pathname always leads to the same file? c. cp/etc/passwd/me/foo						
a. /etc/passwd/. b. /./etc/./passwd d. cp//etc/passwd /me/foo						
c. /etc/etc//passwd d. /etc//passwd e. cp/home/me//etc/passwd ./me/./foo						
e/etc/passwd 181. To change your own account password, use this exact command	line:					
174. If my current working directory is /var, which command copies the password file						
into directory /var/ian under the name bar? b. \$ passwd root						
a. cp ./ian///etc/passwd ian/bar c. \$ passwd cst8207						
b. cp ././ian//etc/passwd/var/ian/bar d. \$ passwd cst8207.idallen.ca						
c. cp//etc/./passwd /ian/bar e. \$ passwd options LOGIN						
d. cp/var/./ian//etc/passwd ./ian/./bar 182. What is the output of this command line in an empty directory:						
e. cp .//etc/passwd/ian/bar touch 1 .1 23 .23 456 ; echo [12]*						
175. Which command line displays the contents of the Unix passwd file one page at a a. 1 .1 23 .23 456						
time? b. 1 .1 23 .23						
a. cat /etc/passwd less b. /etc/passwd less c. 1 23						
c. cat less /etc/passwd d. less /etc/passwd d. [12]*						
e. /etc/passwd cat less e. an error message from echo saying [ab] * does not exist						

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e. 4

c. ./foo

```
183. In an empty directory, how many lines are in file foo after this command line:
                                                                                    190. In an empty directory, what is the output on your screen after this command line:
         ls nosuchfile . .. 2>foo
                                                                                             touch 1 2 .a .b ; echo .*
                    h. 2
                                                   d. 3
    a. 4
                                   c. 0
                                                                   e. 1
                                                                                        a. .a .b
                                                                                         b. 1 2
184. If /etc/shadow is a file name, which pathname always leads to the same file?
                                                                                        c. .*
    a. /./../etc/./shadow
                                           b. /etc/shadow/./.
                                                                                        d. . . . . a .b
    c. /etc/shadow/../..
                                           d. ././etc/shadow
                                                                                         e. an error message from echo saying . * does not exist
    e. /etc/../../shadow
                                                                                    191. In which section of the manual do you find standard commands?
185. What would you see if you typed this command: cat /foo
                                                                                         a. 8
                                                                                                        b. 2.
                                                                                                                        c. 3
                                                                                                                                       d. 1
    a. The contents of the file foo located in the ROOT directory
    b. The contents of your subdirectory named foo
                                                                                    192. If I am in directory /home/me and mt is an empty sub-directory, what is true
    c. The contents of your directory named foo
                                                                                         after this command line: touch ./foo; mv mt/../foo mt/../bar
                                                                                         a. the directory mt now contains only a file named bar
    d. The contents of the file foo located in the parent directory
    e. The contents of the file foo located in your HOME directory
                                                                                         b. the directory . . /me now contains a file named bar
                                                                                         c. there is a second copy of the file foo in the file named bar
186. What is the output of this command line in an empty directory:
                                                                                         d. the command fails because the path mt/../foo does not exist
         touch x .a .ab .cde .fghi ; echo .??*
                                                                                         e. the command fails because the path mt/../bar does not exist
    a. .??*
                                                                                    193. What is the result of this exact command line: ls /foo bar
    b. .ab .cde .fghi
    c. .cde .fghi
                                                                                         a. the two text strings /foo and bar will be displayed
    d. . . . .a .ab .cde .fghi
                                                                                         b. file /foo will be copied to bar
                                                                                        c. the names of the pathnames /foo and bar will be displayed
    e. an error message from echo saying .??* does not exist
                                                                                         d. all the files under directory /foo with the name bar will be displayed
187. In an empty directory, what is the output on your screen after this command line:
                                                                                         e. the contents of the files /foo and bar will be displayed
         date >.foo >.bar ; ls *
    a. . . . . foo .bar
                                                                                    194. If my current directory is /lib, which of these pathnames is equivalent to the file
                                                                                         name /lib/foo?
    b. no output
    c. *
                                                                                        a. ./lib/foo
                                                                                                                  b. ../lib/foo/.
     d. an error message from 1s saying * does not exist
                                                                                         d. ../foo
                                                                                                                  e. /foo
    e. .foo .bar
                                                                                    195. In an empty directory, how many arguments are passed to the wc command in this
                                                                                        command line: date >o1; touch a1 b2 out >o1; wc o*
188. What is the possible output on your screen of this command line:
         echo wc >date ; sort date >date ; cat date
                                                                                                        b. 4
                                                                                                                       c. 1
                                                                                                                                       d. 2
                                                                                        a. 5
    a. no output
                                                                                    196. What is the output on your screen after this command line:
    b. 1 6 29 date
                                                                                             mkdir dir; touch dir/.aa dir/.bb; echo dir/*
    C. WC
                                                                                        a. dir/*
    d. 1 6 28 date
                                                                                         b. dir/. dir/.. dir/.aa dir/.bb
    e. Fri Mar 16 12:00:00 EST 2012
                                                                                         c. dir/.aa dir/.bb
189. What command can you use to delete a directory that isn't empty?
                                                                                        d. no output
    a. del -r dir
                                           b. deldir -r dir
                                                                                         e. dir/
    c. rmdir -r dir
                                           d deltree -r dir
                                                                                    197. In an empty directory, how many arguments are passed to the cat command in this
                                                                                        command line: date >a1 ; touch a2 ba ca ; cat a*
    e. rm -r dir
                                                                                        a. 3
                                                                                                        b. 1
                                                                                                                       c. none
                                                                                                                                       d. 4
```

e. 2

e. 3

198. What is the correct syntax to redirect both standard output and standard error into the same output file?

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```
a. date 2>1 >out
```

b. date 2>&1 >out

c. date 1>out 2>1

d. date >out 2>&1

e. date 1>out 2>out

199. In an empty directory, what is the output on your screen after this command line: touch a b .1 .2; echo .??*

- a. a b
- b. .??*
- c. 2
- d. an error message from **echo** saying .??* does not exist
- e. . .. a b .1 .2

200. If file **foo** contains 9 lines, each of which is the one-digit line number of the line in the file (1 through 9), what is the output on your screen of this command:

```
sort foo foo | tail -n 5 | head -n 1
```

a. 7 b. 1 1

- c. 9
- d. 5 5
- e. 1

201. What is the absolute pathname of the Unix/Linux password (account) file?

- a. /usr/passwd
- b. /var/passwd
- c. /lib/passwd

- d. /bin/passwd
- e. /etc/passwd

202. If I am in my HOME directory named /home/myhome and sub is an empty subdirectory, what is true after this command line:

touch ./fil ; mv sub/../fil ../myhome/cat

- a. the directory **sub** now contains only a file named **cat**
- b. the directory **sub/..** now has a file named **cat** in it
- c. the command fails because the path sub/../fil does not exist
- d. the command fails because the path . . /myhome/cat does not exist
- e. there is a second copy of the file fil in the file named cat

203. If directory **cow** contains only these four three-character file names: **.AA**, **.A1**, .BB, .B., then what is the output on your screen of this command line:

- echo cow/* a. no output
- b. cow/*
- c. cow/.AA cow/.A1 cow/.BB cow/.B.
- d. cow/.B.
- e. cow/.AA cow/.A1 cow/.BB

204. In an empty directory, how many words are in file **out** after this command line: echo hi >a ; ls >out

- a. 4
- b. 0
- c. 1
- d. 2
- e. 3

205. If my current directory is /etc, which of these pathnames is equivalent to the file name /etc/passwd?

- a. /root/etc/passwd
- b. ./../../etc/./passwd

- c. ./etc/passwd
- d. passwd/.
- e. ../etc/passwd/.

206. In a directory that contains only the file **foo**, what happens after this command: cp foo bar

- a. the command fails because **bar** is not a directory
- b. there is a copy of the file named **foo** in the file named **bar**
- c. an empty file named **bar** is created
- d. there is only the file named **bar** in the directory now
- e. the command fails because the name bar does not exist
- 207. Give the minimum number of directories in this pathname: /a/b/c/d
 - a. 1
- h. 2
- c. 3
- d. 5

e. 4

208. In a directory containing one file named **dog**, what is the output on your screen after this command line: 1>/dev/null 1s *

- a. ls: *: No such file or directory
- b. *
- c. no output
- d. bash: 1>/dev/null: command not found
- e. dog

209. What is the output of this command line in an empty directory:

touch .12 .345 .6789; echo .??*

- a. .??*
- b. .12 .345 .6789
- c. no output
- d. an error message from **echo** saying .??* does not exist

210. If I am in my HOME directory named **/home/me** and **sub** is an empty subdirectory, what is true after this command line:

- a. the command fails because the path ../me/cat does not exist
- b. the directory **sub** now contains only a file named **cat**
- c. there is a second copy of the file fil in the file named cat
- d. the command fails because the path sub/../fil does not exist
- e. the directory **sub/..** now has a file named **cat** in it

211.	If foo is a sub-directory that contains only the file bar , what happens after this	
	command: mv ./foo/bar foo//me	
	a. the directory foo is now empty	
	b. the command fails because the name ./foo/bar does not exist	
	c. there is a second copy of the file bar in the file named me	

- d. the command fails because the name **me** does not exist
- e. the directory **foo** now contains only a file named **me**
- 212. What would you type to find the string tony in the file /etc/passwd?
 - a. cat tony /etc/passwd
 - b. grep /etc/passwd tony
 - c. find /etc/passwd -user tony -print
 - d. find /etc/passwd -name tony -print
 - e. grep tony /etc/passwd
- 213. How many words are in file **out** after this command line: echo one >two >three >out

- 214. The shell expands a leading tilde (~) in a pathname (e.g. ~/foo) to be:
 - a. the current directory

b. your HOME directory

c. the directory **/root**

d. the ROOT directory

- e. the parent directory
- 215. In a directory that contains only the file **foo**, what happens after this command: mv foo bar
 - a. the command fails because **bar** is not a directory
 - b. there is only the file named **bar** in the directory now
 - c. the command fails because the name bar does not exist
 - d. there is a copy of the file named **foo** in the file named **bar**
 - e. an empty file named bar is created
- 216. What is the result of this exact command line: cat /foo bar
 - a. file **/foo** will be copied to **bar**
 - b. all the files under directory **/foo** with the name **bar** will be displayed
 - c. the names of the pathnames **/foo** and **bar** will be displayed
 - d. the two text strings /foo and bar will be displayed
 - e. the contents of the files /foo and bar will be displayed
- 217. In an empty directory, how many words are in file **foo** after this command line: date >.bar >.out ; ls >foo
 - b. 2
- c. 0
- d. 4
- e. 3
- 218. In an empty directory, how many words are in file **cow** after this command line: touch dog dog cat ; ls >cow
 - a. 4 b. 3
- c. 0
- d. 1
- e. 2
- 219. If file /a contains 3 lines, and file /b contains 5 lines, then how many lines are output on your screen by this command line: cat /a | sort /b
 - a. 2
- b. 3
- c. 8
- *d*. 0
- e. 5

cat a a >c ; head b >>a ; cat c b >c a

- *a*. 0 b. 10
- c. 12
- d. 8
- e. 7
- 221. How can you ask the bash (Linux) shell to complete commands or file names for
 - a. Type the first part of the command or file name and press the [CTRL] [D]
 - b. Type the first part of the command or file name and press the [ALT] [F1] kev.
 - c. Type the first part of the command or file name and press the [ALT] key.
 - d. Type the first part of the command or file name and press the [TAB] key.
 - e. Type the first part of the command or file name and press the [CTRL]-[C]
- 222. If **foo** is a sub-directory that contains only the file **bar**, what happens after this command: mv foo/me foo/bar
 - a. there is a second copy of the file bar in the file named me
 - b. there is only the file named **me** in the directory now
 - c. the command fails because the name **me** does not exist
 - d. the command fails because **bar** is not a directory
 - e. an empty file named **me** is created
- 223. If my current directory is /etc, which of these pathnames is equivalent to the file name /etc/passwd?
 - a. ../etc/passwd/.

b. ../passwd

c. ./etc/passwd

d. /passwd

- e. passwd
- 224. What is the output on your screen after this command line:

echo hi >ls ; cat ls > wc

- a. no output
- b. hi

c. 1 1 2

c. 1

- d. 1 1 3
- e. 1s
- 225. In an empty directory, what is the output on your screen after this command line: touch a ; ls >wc -l
 - a. 2
 - b. 0 d. 3
 - e. no output
- 226. If file **foo** contains 9 lines, each of which is the one-digit line number of the line in the file (1 through 9), what is the output on your screen of this command:

sort foo foo | tail -n 4 | head -n 1

- a. 1 1
- b. 6
- c. 4 4
- d. 6 6
- e. 8
- 227. To leave a shell and let the terminal window close, type:
 - a. [CTRL-C]
- b. q

c. quit

d. bye

e. exit

228. Which command pipeline outputs the count of the number of manual page titles that contain the keyword "sort"?

b. wc man sort

a. man sort ; wc c. man sort | wc d. man -k sort | wc

e. wc -k sort

229. Did you read all the words of the test instructions on page one?

a. Igen (Yes - Hungarian)

b. Tak (Yes - Polish)

c. Taip (Yes - Lithuanian) e. Jes (Yes - Esperanto)

d. Sim (Yes - Portuguese)

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