Important Instructions

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- 1. Read all the instructions and both sides of all pages.
- 2. Manage your time when answering questions on this test. Answer the questions you know, first.

Multiple Choice - 203 Questions

This is a practice test containing many practice questions. The real test will contain some questions similar to these. There are probably many more questions in this practice test than there will be time for in the real test. The real test will have approximately one question per minute.

The real test may have some questions unlike anything given here. Knowing the concepts behind the questions is necessary; memorizing these specific answers won't help.

(Office use only: 81 196 167 170 121 59 142 7 82 164 36 85 115 127 53 149 193 55 18 43 146 162 174 78 20 148 144 40 114 32 156 117 188 105 72 21 76 93 11 124 101 197 31 39 165 189 6 45 202 51 119 44 153 64 203 16 176 145 87 90 122 58 109 15 99 141 116 106 25 94 143 28 97 178 136 198 104 199 70 132 63 22 187 191 154 24 74 2 139 130 172 91 38 92 54 199 185 98 195 133 96 140 137 69 194 1170 100 25 94 143 28 97 178 136 198 104 197 69 132 63 22 187 191 154 24 74 2 139 130 172 91 38 92 54 199 185 98 195 133 96 140 137 69 195 94 1179 75 9 152 169 201 56 163 166 62 183 177 37 4 86 112 175 147 155 57 160 29 89 80 151 3 77 102 34 184 49 12 33 35 17 123 111 26 126 158 100 23 103 110 135 19 171 88 61 79 10 125 42 73 157 182 107 13 52 113 1 192 161 186 68 95 84 5 134 65 14 67 83 108 200 120 118 128 30 48 60 129 150 168 194 8 46 173 66 131 180 181 71 138 50 27 47)

1. What appears on your screen after this sequence of commands:

```
echo one >x ; ln x y ; echo two >>y ; sort x >y ; cat y
```

- a. empty file no output on the screen
- b. one followed by two
- c. two
- d. two followed by one
- e. one
- What is the link count of file **foo** after this set of successful commands?

```
rm foo ; touch foo ; ln foo bar
```

cp bar x ; ln x y ; ln bar z ; ln z a

- b. 3
- c. 5
- d. 4
- e. 2
- What is the output of this command sequence:

```
echo foo >file ; echo bar | sort file
```

- a. foo
- b. bar
- c. **foo** followed by **bar**
- d. an error message
- e. bar followed by foo

```
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```

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If fi le x contains ten lines, and fi le y contains twenty lines, then how many lines are in fi le cat after this sequence of bash shell commands:

```
sort x y >z ; tail -5 y >y ; sort x y z >cat
```

- a. 40
- b. 50
- c. no lines (empty fi le)
- d. 45
- e. 60
- In an empty directory, how many words are in fi le **cow** after this **bash** shell command line? touch dog dog cat; ls >cow
 - a. 2
 - b. 1
 - c. 3
 - d. no output (empty fi le)
 - e. **4**
- Which command line displays the contents of the Unix passwd file one page at a time?
 - a. cat /etc/passwd >more
 - b. /etc/passwd | more
 - c. more | /etc/passwd
 - d. more /etc/passwd
 - e. /etc/passwd >more
- What is the output of this successful command sequence?

```
cd /home/dir; mkdir one; mkdir two; pwd
```

- a. /home/dir
- b. /home/dir/one/two
- c. /home/dir/one
- d. /home/dir/two
- e. /two
- If fi le **foo** contains nine 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:

- a. 5
- b. 8
- c. 9
- d. 6
- e. **7**
- What appears on your screen after this sequence of commands:

```
echo one >x ; cp x y ; echo two >>y ; sort x >y ; cat y
```

- a. one followed by two
- b. empty fi le no output on the screen
- c. two followed by one
- d. two
- e. one

- 10. What command shows all the lines in fi le /etc/group that contain the string idallen?
 - a. cat /etc/group | wc idallen
 - b. cat /etc/group > grep idallen
 - c. grep idallen /etc/group
 - d. grep idallen >/etc/group
 - e. grep /etc/group idallen
- 11. How many arguments does the shell pass to this **echo** command:

```
echo " 1 2 "three ' 4 ' five"6"
```

- a. Nine arguments.
- b. One argument.
- c. Five arguments.
- d. Three arguments.
- e. Four arguments.
- 12. Which command line lists all possible utilities available for editing fi les?
 - a. man -k edit
 - b. man edit
 - c. finger edit
 - d. which edit
 - e. whereis edit
- 13. If directory /a/b contains these four three-character file names: .aa, .ab, .a?, .a*, then what is the output of the following bash shell command line:

```
echo /a/b/???
```

- a. /a/b/.aa /a/b/.ab
- b. /a/b/???
- c. /a/b/.aa /a/b/.ab /a/b/.a? /a/b/.a*
- d. /a/b/.a?
- e. no output
- 14. What is true about this output from ls -il foo bar?

```
871 -r---- 2 bin bin 3 Nov 12 12:55 foo
871 -r---- 2 bin bin 3 Nov 12 12:55 bar
```

- a. **foo** and **bar** each have three names (six names total)
- b. foo and bar are names for the same file
- c. **foo** and **bar** are names for different fi les
- d. this output is not possible
- e. **foo** and **bar** are two of three names for this file
- What appears on your screen after this bash shell command line?

```
echo hi | wc -c
```

- a. no output
- b. 1
- c. 3
- d. 2
- e. 0

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

>bar zoom bar haven

- a. Error: The command name is missing from the command line.
- b. The command **bar** sees three arguments.
- c. The command **zoom** sees two arguments.
- d. The command bar sees only two arguments
- e. The command zoom sees three arguments.
- 17. Which of the following pathnames always leads to the same file named:

```
/etc/passwd?
```

a. ./etc/passwd

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- b. /etc/./etc/../passwd
- c. /etc/../etc/passwd
- d. ../etc/passwd
- e. /etc/passwd/.
- 18. What appears on your screen after this **bash** shell command line?

echo
$$xx > z$$
; ls $z > wc$

- a. 1 1 3
- b. 2
- c. no output
- d. 1 1 2
- e. 3
- 19. If you type the command sort

which of the following key sequences will send an EOF and take you immediately back to the command prompt?

- a. [CTRL-C]
- b. [CTRL-D]
- c. [CTRL-U]
- d. [CTRL-R]
- e. [CTRL-L]
- 20. What is the output of this shell command line in an empty directory?

- a. •
- b. no output
- c. ..
- d. *
- e. .
- 21. If fi le twenty contains twenty lines, and fi le thirty contains thirty lines, then how many lines are output by this command: tail thirty | cat twenty
 - a. 20
 - b. 50
 - c. 30
 - d. no lines (no output)
 - e. 21

22. If I am in my home directory named /home/ian and mt is an empty subdirectory, what is true after this command line:

```
who >../ian/cat; cp ./mt/../cat ./mt/../dog
```

- a. the command fails because the path ./mt/../cat does not exist
- b. the directory **mt** now has a fi le named **dog** in it
- c. there is a second copy of the file named who in the file dog
- d. the directory **mt** now contains two fi les
- e. the directory **mt** is still empty
- 23. What is in the fi le \mathbf{x} after this command sequence:

```
echo foo >a ; rm b ; echo bar >>b ; cp a b >x
```

- a. no such fi le (nonexistent)
- b. foo
- c. **foo** followed by **bar**
- d. bar
- e. nothing empty fi le no data
- 24. What is true about this output from ls -il foo bar?

```
861 -rw-r--r-- 2 root root 3 Jan 24 01:03 foo
861 -rwxr-xr-x 2 bin bin 3 Nov 12 12:55 bar
```

- a. **foo** and **bar** each have three names (six names total)
- b. **foo** and **bar** are names for different fi les
- c. **foo** and **bar** are two of three names for this fi le
- d. this output is not possible
- e. foo and bar are names for the same fi le
- 25. If you type the command head

which of the following key sequences will send an EOF and take you immediately back to the command prompt?

- a. [CTRL-D]
- b. [CTRL-U]
- c. [CTRL-C]
- d. [CTRL-R]
- e. [CTRL-L]
- 26. If fi le /a contains thirty lines, and fi le /b contains fi fty lines, then how many lines are output by this command: cat /a | sort /b
 - a. 20
 - b. 50
 - c. 80
 - d. 30
 - e. no lines (empty fi le)
- 27. Which of the following shell command lines displays only the names in the current directory that are exactly three alphabetic letters long?
 - a. echo [0-3][0-3][0-3]
 - b. echo [a-zA-Z][a-zA-Z][a-zA-Z]
 - c. echo ***
 - d. echo [?][?][?]
 - e. echo ???

```
28. Which of the following is true, given this long directory listing from 1s:
```

- drwxr-x--x 456 ian user 123 May 30 12:35 dir

 - a. The number 123 is the size in bytes of this directory.
 - b. The number 123 is the count of links (names) this directory has.
 - c. The number 456 is the octal permissions of this directory.
 - d. The number 456 is the inode number of this directory.
 - e. The number 456 is the size of this directory.
- 29. If directory **foo** contains only these three three-character fi le names: **.11**, **.12**,
 - ..., then what is the output of the following bash shell command line:

```
echo foo/???
```

- a. foo/???
- b. no output
- c. foo/.11 foo/.12 foo/...
- d. foo/.11 foo/.12

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- e. **foo/...**
- 30. Which command line below does not show any lines from inside the file **bat**?
 - a. more bat
 - h less bat
 - c. 1s bat
 - d. tail bat
 - e. head bat
- 31. What text is output by this **bash** shell command sequence:

- a. cow followed by dog
- b. dog followed by cow
- c. dog
- d. foo
- e. cow
- 32. Which of these command sequences will make fi le **foo** contain all of the content of fi le a followed by all of the content of fi le b?
 - a. cat a >foo; cat b >>foo
 - b. cp a b >foo
 - c. echo a b >foo
 - d. cp a >foo; cp b >>foo
 - e. mv a b >foo
- 33. Which command sequence below outputs only lines 10-15 of the Unix password file?

```
a. head -15 /etc/passwd
                        tail -5 /etc/passwd
```

- b. tail -10 /etc/passwd | head -15 /etc/passwd
- c. tail -15 /etc/passwd | head -10
- d. head -10 /etc/passwd | tail -15 /etc/passwd
- e. head -15 /etc/passwd | tail -6

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34. Which command sequence below outputs only lines 11-15 of the 99-line fi le named cat?

```
a. tail -15 cat | head -10
b. head -15 cat | tail -5 cat
c. tail -10 cat | head -15 cat
d. head -15 cat | tail -5
e. head -10 cat | tail -15 cat
```

35. Which command below removes *only* this four-character file name containing a special character (and no others): **?abc**

```
b. rm "?abc"c. rm -r ?abcd. rm ""?abc""e. rm /?abc
```

a. rm ''?abc''

36. If you type the command grep pattern

which of the following key sequences will send an EOF and take you immediately back to the command prompt?

```
a. [CTRL-D]b. [CTRL-C]c. [CTRL-R]d. [CTRL-L]e. [CTRL-U]
```

37. What is true about this output from ls -il foo bar?

```
816 -rw-r--r- 2 root root 3 Jan 24 01:03 foo
817 -rw-r--r- 2 root root 3 Jan 24 01:03 bar
```

- a. this output is not possible
- b. **foo** and **bar** are names for different fi les
- c. **foo** and **bar** are two of three names for this fi le
- d. foo and bar are names for the same fi le
- e. **foo** and **bar** each have three names (six names total)
- 38. Which of these statements is true?
 - a. Only single quotes are strong enough to stop shell glob (wildcard) patterns from expanding.
 - b. If /y is an empty directory, echo /y/* produces an error message.
 - c. Only double quotes are strong enough to stop shell glob (wildcard) patterns from expanding.
 - d. Only backslashes are strong enough to stop shell glob (wildcard) patterns from expanding.
 - e. If /x is an empty directory, sort /x/* produces an error message.

39. Which command sequence outputs inode/fi lename pairs for names in the current directory, sorted by inode number?

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```
a. ls -node * > sort -n
b. ls -i * > sort
c. ls -ia | sort -n
d. ls ./* | sort -node
e. sort ls -ia
```

40. Given an existing file of yours named /a/x, what is the output of this sequence of three shell commands:

```
echo hi >/a/x ; sort /a/x >/a/x ; wc /a/x
a. 2 2 4 /a/x
b. 1 1 2 /a/x
c. no output
d. 1 1 3 /a/x
e. 0 0 0 /a/x
```

41. In an empty directory, how many arguments are passed to the cat command in this bash command line? date >a1; touch a2 ba ca; cat a*

```
a. 2b. 3c. 1d. nonee. 4
```

42. Which of these command sequences will make **file3** contain all of the content of **file1** followed by all of the content of **file2**?

```
a. cat file1 file2 >file3
b. cp file1 file2 >file3
c. cp file1 >file3 file2 >file3
d. echo file1 file2 >file3
e. mv file1 file2 >file3
```

43. Which command line below does not show any lines from inside the file dog?

```
a. tail -8 dogb. ls dogc. head -3 dogd. less doge. sort -r dog
```

44. Which of the following is true, given this long directory listing from 1s:

```
drwxr-x-x 256 ian user 512 May 30 12:35 dir
```

- a. The number 256 is the octal permissions of this directory.
- b. The number 512 is the size of this directory.
- c. The number 256 is the inode number of this directory.
- d. The number 256 is the size of this directory.
- e. The number 512 is the count of links (names) this directory has.

- a. grep bar foo
 - b. grep foo bar
 - c. cat foo > grep bar
 - d. grep bar >foo
 - e. grep cat foo bar
- 46. Which command sequence below does *not* generate an error message from the last command in the sequence?
 - a. mkdir one one/two; rmdir one/two
 - b. mkdir foo foo/bar; rmdir foo
 - c. mkdir foo; sleep foo
 - d. date >foo; cp foo/. bar
 - e. cat /etc/passwd > mail idallen@ncf.ca
- 47. If fi le **foo** contains nine lines, each of which is the one-digit line number of the line in the fi le (1 through 9), what is the output on your screen of this command:

```
cat foo foo | cat | tail -5 | head -1
```

- a. **5**
- b. **9**
- c. **7**
- d. **6**
- e. **8**
- 48. What is the output of this shell command line in an empty directory? 1s *
 - a. no output
 - b. . ..
 - c. *
 - А
 - e. an error message from 1s saying * does not exist
- 49. Given this long listing:

```
drwxr-xr-x 448 me me 296 Dec 4 9:12 /dir
```

How many subdirectories lie immediately under /dir?

- a. 448
- b. 296
- c. there is not enough information shown to answer the question
- d. 446
- e. 294
- 50. What appears on your screen after this bash shell command line?

```
echo hi >a ; ls a > wc
```

- a. 2
- b. no output
- c. 1 1 2
- d. 3
- e. 1 1 3

```
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```

51. If fi le /a contains 20 lines, and fi le /b contains 30 lines, then how many lines are in fi le /c after this sequence of shell commands:

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

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- a. 120
- b. 50
- c. no lines (empty fi le)
- d. 80
- e. 70
- 52. What is the output of this shell command line in an empty directory?

- a. *
- b. no output
- c. an error message from **echo** saying * does not exist
- d. •
- e. . .
- 53. What is in fi le **cow** after running this **bash** shell command line?

- a. one two
- b. one two cow three
- c. no output (empty fi le)
- d. one two three
- e. echo one two
- 54. Which command below removes *only* this fi ve-character fi le name containing a special character (and no others): date?
 - a. rm date*
 - b. rm date\\?
 - c. rm ./date\?
 - d. rm ./date?
 - e. rm date/?
- 55. Select the correct **bash** shell order of command line processing:
 - a. redirection, quotes, globs, variables
 - b. quotes, variables, globs, redirection
 - c. quotes, globs, variables, redirection
 - d. quotes, redirection, variables, globs
 - e. quotes, variables, redirection, globs
- 56. How can you ask the **bash** (Linux) shell to complete commands or fi le names for you?
 - a. You can type the first part of the command or file name and press the **ALT** key.
 - b. Type [ALT]-[F2] the shell will present a menu of commands.
 - c. Type [CONTROL] [ALT] [DEL] and the shell will present a menu of commands.
 - d. You can type the first part of the command or fi le name and press the **TAB** key.
 - e. Type [CONTROL]-[D] and the shell will present a menu of commands.

- 57. In the output of the command ${\tt ls}$ -ai, the one-character name . signifies what?
 - a. A name with an unprintable character.
 - b. A name that is hidden.
 - c. A current fi le.
 - d. The parent directory.
 - e. The current directory.
- 58. Which of the following shell command lines displays all the names in the current directory that are exactly three digits long (and no others)?
 - a. echo ???
 - b. echo [?][?][?]
 - c. echo [1-3][1-3][1-3]
 - d. echo [0-9][0-9][0-9]
 - e. echo [3][3][3]
- 59. Which command line lists all possible utilities available for compiling programs?
 - a. man * | grep compile
 - b. grep compile /etc/*
 - c. grep /etc/* compile
 - d. man compile
 - e. apropos compile
- 60. In an empty directory, what is the length of the longest file name created by the following sequence: var='a ab abc abcd abcde'; touch '\$var'
 - a. 15 characters
 - b. 4 characters
 - c. 3 characters
 - d. 5 characters
 - e. 19 characters
- 61. In an empty directory, how many words are in fi le out after this bash shell command line? touch 1 2 3 2 1; ls >out
 - a. 5
 - b. 3
 - c. no output (empty fi le)
 - d. 4
 - e. **6**
- 62. Which command line displays the contents of the Unix **passwd** file one page at a time?
 - a. /etc/passwd >less
 - b. less | /etc/passwd
 - c. /etc/passwd | less
 - d. less </etc/passwd
 - e. cat /etc/passwd >less

- - a. 5
 - b. 3
 - c. 6
 - d. 4
 - e. **7**
- 64. Which Unix command sequence deletes a directory and everything inside it?
 - a. rm -all dir
 - b. rmdir -r dir
 - c. deltree -all dir
 - d. rmdir -all dir
 - e. rm -r dir
- 65. How many arguments and options are there to the command:

ls -li foobar

- a. Two options, no arguments.
- b. Two arguments, no options.
- c. Two arguments, one of which is a single option and the other is a pathname.
- d. Two command line arguments, one of which contains two bundled options.
- e. One argument, no options.
- 66. What is the output of this successful command sequence?

```
cd /home/foo ; touch dir ; mkdir bar ; pwd
```

- a. /home/foo/dir
- b. /home/foo/dir/bar
- c. /bar
- d. /home/foo/bar
- e. /home/foo
- 67. Which of these command sequences will make fi le **out** contain all of the content of fi le **in1** followed by all of the content of fi le **in2**?
 - a. echo in1 in2 >out
 - b. mv in1 in2 >out
 - c. cat in1 in2 >out
 - d. cp in1 >out in2 >out
 - e. cp in1 in2 >out
- 68. Which command sequence below outputs only lines 10-15 of the 16-line fi le named **hex**?
 - a. tail -16 hex | head -10
 - b. tail -10 hex | head -16 hex
 - c. head -15 hex | tail -6
 - d. head -16 hex | tail -5 hex
 - e. head -10 hex | tail -15 hex

- 69. Which of the command lines below can generate a non-empty file?
 - a. tail -5 /a/b >/a/b
 - b. cat /a/b > /a/b
 - c. sort -r /a/b >/a/b
 - d. ls -i /a/b >/a/b
 - e. grep /a/b /a/b >/a/b
- 70. How many lines are in the file **out** after this command sequence:

```
echo hi >x ; echo ho >>x ; cat x x x >out
```

- a. 6
- b. **2**
- c. nothing empty fi le no data
- d. 3
- e. **1**
- 71. What is the output of this successful command sequence?

```
cd /tmp; mkdir foo; mkdir bar; pwd
```

- a. /bar
- b. /tmp/foo/bar
- c. /tmp
- d. /tmp/foo
- e. /tmp/bar
- 72. Which of the command lines below can generate a non-empty fi le?
 - a. wc -wc file >file
 - b. cat file file file >file
 - c. tail -3 file >file
 - d. head -5 file >file
 - e. sort -r file >file
- 73. How many arguments and options are there to the command:

ls -ls /cat

- a. Two command line arguments, one of which contains two bundled options.
- b. Two arguments, one of which is a single option and the other is a pathname.
- c. Two arguments, no options.
- d. A three-letter fi le name and a /cat switch option argument.
- e. Two options, no arguments.
- 74. What is the output on your screen of this command sequence:

```
echo dog >one ; echo cow | head -2 one
```

- a. cow followed by dog
- b. **dog** followed by **cow**
- c. cow
- d. an error message
- e. dog

75. What is the link count of directory **dir** after this set of successful commands?

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- mkdir dir ; touch foo ; cd dir ; ln ../foo bar
- a. 3

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- b. 4
- c. 5
- d. 1
- e. 2
- 76. What would you see if you typed this command: cat /users
 - a. The contents of your subdirectory named users
 - b. The contents of the file **users** located in the root directory
 - c. The contents of the file **users** located in the parent directory
 - d. The contents of the file **users** located in your home directory
 - e. The contents of your directory named users
- 77. If directory /a contains these seven two-character file names: aa, ab, ac, ad, a?, a*, a., then which shell command below will remove only the single name **a?** from the directory?
 - a. rm /a/a\?
 - b. rm /a/a[*]
 - c. rm /a/a*
 - d. rm /a?
 - e. rm /a/a?
- 78. Which one of the following commands will leave **file1** non-empty?
 - a. wc file1 > file1
 - b. head file1 > file1
 - c. tail file1 > file1
 - d. cat file1 > file1
 - e. sort file1 > file1
- 79. Which command below removes *only* this four-character file name containing a special character (and no others): *dog
 - a. rm *dog
 - b. $rm \cdot /*dog$
 - c. rm /*dog
 - d. rm ./*dog
 - e. rm ?dog
- 80. If I am in my home directory named /home/me and x is an empty sub-directory, what is true after this command line:

- a. the command fails because the path x/./fil does not exist
- b. the directory **x** now contains only a fi le named **y**
- c. the command fails because the path x/.../me does not exist
- d. there is a second copy of the fi le **fil** in the fi le named y
- e. the directory \mathbf{x} is still empty

- 81. How many command arguments does the shell pass to this **echo** command: echo 'It's a bird! It's a plane!'
 - a. Three arguments.
 - b. One argument.
 - c. Four arguments.
 - d. Two arguments.
 - e. Five arguments.
- 82. If you type the command sleep 60

which of the following key sequences will interrupt it and take you immediately back to the command prompt?

- a. [CTRL-C]
- b. [CTRL-L]
- c. [CTRL-U]
- d. [CTRL-D]
- e. [CTRL-R]
- 83. If directory dir contains only these five two-character file names: a?, 11, ?1, 1*, .1, then which shell command below will remove only the single twocharacter name **?1** from the directory?
 - a. rm dir/??
 - b. rm dir/\??
 - c. rm dir/*1
 - d. rm dir/?1
 - e. rm dir/1*
- 84. Which of the following VI/VIM key sequences will move the entire line on which the cursor resides to after the line that follows it (i.e. it would move line 5 to be line 6 and line 6 would become line 5)?
 - a. :dp
 - b. ddp
 - c. DDp
 - d. DDP
 - e. ddP
- 85. If fi le /a/b contains ninety-nine lines, each of which is the two-digit line number of the line in the file (01 through 99), what is the output of this command:

```
sort /a/b /a/b | tail -4 | head -1
```

- a. 98
- b. 01 01
- c. 04 04
- d. **96**
- e. 96 96

- 86. If you type the command sort verybigfile >out which of the following key sequences will interrupt it and take you immediately back to the command prompt?
 - a. [CTRL-D]
 - b. [CTRL-C]

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- c. [CTRL-L]
- d. [CTRL-R]
- e. [CTRL-U]
- 87. How many lines are in file **out** after this bash shell command line?

- a. 3
- b. 1
- c. no output (empty fi le)
- d. no such fi le (fi le does not exist)
- e. 2
- 88. If /etc/passwd is a file name, which of the following pathnames always leads to the same file?
 - a. /../etc/passwd
 - b. ./etc/passwd
 - c. /etc/passwd/.
 - d. /etc/../../passwd
 - e. /etc/passwd/../..
- 89. If my current directory is /bin, which of these pathnames is equivalent to the file name /bin/ls?
 - a. /root/bin/ls
 - b. ./bin/ls
 - c. ls/.
 - d. ../../bin/ls
 - e. ../bin/ls/.
- 90. What is the output of this sequence of three shell commands:

- a. 1 1 2 wc
- b. 2 2 4 wc
- c. no output
- d. 1 1 3 wc
- e. 0 0 0 wc
- 91. Which command below is the best way to find a line containing an asterisk (*) in the fi le named **foo**?
 - a. grep * foo
 - b. grep foo [*]
 - c. grep ./* foo
 - d. grep '*' foo
 - e. grep foo "*"

- 92. Which of these statements is true?
 - a. You can only login to Unix once per userid; you cannot be logged in to the same machine twice.
 - b. Unix commands can be entered in upper-case or lower-case letters; they are equivalent.
 - c. Unix commands must be entered in lower-case letters.
 - d. To erase an entire line of typing, type [CONTROL]-[E].
 - e. To indicate End-of-File (no more input), type [CONTROL]-[E].
- 93. How many arguments does the shell pass to this **echo** command:

- a. Six arguments.
- b. Four arguments.
- c. Three arguments.
- d. Five arguments.
- e. Two arguments.
- 94. Which of these statements is true?
 - a. The **file** command creates a new, empty file in the current directory
 - b. To interrupt a Unix process from the keyboard, type [CONTROL]-[D].
 - c. To telnet to ACADUNIX from outside the College, use the name acadunix.algonquin.
 - d. To erase an entire line of typing, type [ALT]-[DELETE].
 - e. To indicate End-of-File (no more input) to a program, type [CONTROL]-[D].
- 95. What appears on your screen after this bash shell command line?

- a. no output
- b. 4 out
- c. 5 out
- d. 3 out
- e. 2 out
- 96. When doing an **ls** -a, the output pathname that is a double dot (..) signifi es what?
 - a. A hidden fi le.
 - b. A fi le or directory with double links.
 - c. The parent directory.
 - d. The root directory.
 - e. The current directory.
- What is true about this bash shell command line?

date >1s ; ls -1s ls >wc

- a. The wc command counts the output of the 1s command.
- b. The shell finds and executes three different commands.
- c. The **ls** command receives the output of **date** on standard input.
- d. The fi le wc has one line in it.
- e. The **ls** command is executed more than once.

-18-98. How many arguments and options are there to the command:

wc -wc /sort

- a. Two command line arguments, one of which contains two bundled options.
- b. A three-letter fi le name and a /sort switch option argument.
- c. Two arguments, one of which is a single option and the other is a pathname.
- d. Two options, no arguments.
- e. Two arguments, no options.
- 99. What can you do to get back (redo) the last command you typed to the bash (Linux) shell?
 - a. Use the "UpArrow" key.
 - b. Use the "PageUp" key.
 - c. Type [CONTROL]-[ALT]-[UP]
 - d. Type [ALT]-[F2]
 - e. Type [CONTROL]-[BACKSPACE]
- 100. If I am in my home directory named /home/myhome and sub is an empty subdirectory, what is true after this command line:

- a. the command fails because the path sub/../fil does not exist
- b. the command fails because the path ../myhome/cat does not exist
- c. the directory **sub/..** now has a fi le named **cat** in it
- d. the directory sub now contains only a fi le named cat
- e. there is a second copy of the fi le fil in the fi le named cat
- 101. How many arguments and options are there to the command:

- a. Two arguments, no options.
- b. A three-letter fi le name and an /etc switch option.
- c. Two options, no arguments.
- d. Two arguments, one of which is a single option and the other is a pathname.
- e. Two command line arguments, one of which contains two bundled options.
- 102. If my current directory is /home, which of these pathnames is equivalent to the pathname /home/a/b/c?
 - a. ../a/b/c
 - b. ../home/b/c
 - c. /a/b/c
 - d. ./a/b/c
 - e. ./home/a/b/c
- 103. What is the link count of directory **dir** after this set of successful commands?

mkdir a ; mkdir a/b ; mkdir a/c ; mkdir a/b/c

- a. 5
- b. 1
- c. 3
- d. 4
- e. 2

- 104. Which command below removes *only* this fi ve-character fi le name containing a special character (and no others): yy?yy
 - a. rm yy\?yy
 - b. rm yy/?yy
 - c. rm yy\\?yy
 - d. rm yy?yy
 - e. rm yy//?yy
- 105. If **foo** is a sub-directory that contains only the file **single**, what happens after this command: **mv** ./**foo**/single **foo**/../double
 - a. the command fails because the name **double** does not exist
 - b. there is a second copy of the file single in the file named double
 - c. the directory **foo** is now empty
 - d. the directory **foo** now contains only a fi le named **double**
 - e. the command fails because the name foo/../double does not exist
- 106. Which of the following is true, given this long directory listing from 1s:

drwxr-x--x 123 ian user 456 May 30 12:35 dir

- a. The number 123 is the size of this directory.
- b. The number 123 is the octal permissions of this directory.
- c. The number 456 is the size of this directory.
- d. The number 123 is the inode number of this directory.
- e. The number 456 is the count of links (names) this directory has.
- 107. What is the resulting link count of empty directory dir after this set of successful commands? cd dir; touch foo; ln foo one; ln foo two
 - a. 2.
 - b. 4
 - c. 3
 - d. 1
 - e. 5
- 108. How many lines are in fi le out after this bash shell command line?

echo hi >dog >out >cat

- a. no output (empty fi le)
- b. **1**
- c. 3
- d. 2
- e. no such fi le (fi le does not exist)
- 109. If fi le **nine** contains nine lines, each of which is the one-digit line number of the line in the fi le (1 through 9), what is the output on your screen of this command:

sort nine nine | tail -4 | head -1

- a. 6
- b. 1 1
- c. 6 6
- d. 8
- e. **4 4**

110. What is in fi le out after running this bash shell command line?

echo 2 3 >out 3 0

- a. 2 3
- b. 2 3 3 0
- c. 2 3 0
- d. 2 3 >out 3 0
- e. no output (empty fi le)

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111. How many arguments does the shell pass to this **echo** command:

echo 'And it's not hard, it's just logical.'

- a. Six arguments.
- b. Seven arguments.
- c. Three arguments.
- d. Four arguments.
- e. Five arguments.
- 112. What is the output on your screen of the following command sequence if run in a directory containing 123 fi les with names that are all the numbers from 1 to 123 inclusive: glob="*"; echo "\$glob"
 - a. *
 - b. \$glob
 - c. "\$glob"
 - d. the fi le names 1 through 123, surrounded by quotes
 - e. the fi le names 1 through 123
- 113. What appears on your screen after this bash shell command line?

mkdir foo ; rmdir foo | wc -c

- a. 3
- b. **0**
- c. **1**
- d. no output
- e. **4**
- 114. If fi le /a contains 40 lines, and fi le /b contains 60 lines, then how many lines are output by this command: sort /a /b | cat /a | cat /b
 - a. 40
 - b. 100
 - c. **160**
 - d. 200
 - e. 60
- 115. What is the output of this command sequence:

echo bat >one ; echo sky | head -2 one

- a. bat
- b. **sky** followed by **bat**
- c. bat followed by sky
- d. an error message
- e. sky

116. How many command arguments does the shell pass to this **echo** command: **echo** 'It's a bird! No! It's a plane!'

- a. Four arguments.
- b. Two arguments.
- c. Three arguments.
- d. One argument.
- e. Five arguments.
- 117. What will appear on your screen if you execute this sequence of commands in your home directory:

ln /etc/passwd foo ; ln foo bar

echo hi >bar ; cat bar

- a. the conents of the password fi le followed by hi
- b. an error message and then hi
- c. an error message and then the contents of the password file
- d. hi
- e. bar
- 118. In the output of the command **ls -a**, a dot that begins a name signifies what?
 - a. The current directory.
 - b. The parent directory.
 - c. A name with an unprintable character.
 - d. A current fi le.
 - e. A name that is hidden.
- 119. How many arguments does the shell pass to this **echo** command:

echo " 1 2 " three ' 4 ' five"6"

- a. Nine arguments.
- b. Four arguments.
- c. One argument.
- d. Five arguments.
- e. Three arguments.
- 120. If /bin/bash is a file name, which of the following pathnames always leads to the same file?
 - a. /bin/bash/.
 - b. /bin/../bash
 - c. /bin/bin/../bash
 - d. ./bin/bash
 - e. /bin/../bin/bash
- 121. Which command line lists all possible utilities available for sorting fi les?
 - a. man sort
 - b. grep /etc/passwd sort
 - c. man -k sort
 - d. man | grep sort
 - e. grep sort /etc/passwd

- 122. How many arguments are passed to the command by the shell on this command line: <cow cow "-x "-y '-z' >cow cow
 - a. **4**
 - b. 6
 - c. **5**
 - d. 7
 - e. 3
- 123. What will appear on your screen if you execute this sequence of commands:

echo 1 >x ; ln x y ; echo 2 >y ; chmod 077 y ; cat x

- a. **1**
- b. 2
- c. no output on screen
- d. 1 followed by 2
- e. an error message
- 124. If fi le ten contains ten lines, and fi le twenty contains twenty lines, then how many lines are output by this command: cat twenty | sort ten
 - a. 10
 - b. 60
 - c. 30
 - d. no lines (no output)
 - e. **20**
- 125. What text is output by this **bash** shell command sequence:

echo dog >out ; echo cat | sort out

- a. cat
- b. **out**
- c. cat followed by dog
- d. dog
- e. dog followed by cat
- 126. What appears on your screen after this **bash** shell command line?

echo hi >ls ; cat ls > wc

- a. 1 1 3
- b. 1s
- c. hi
- d. 1 1 2
- e. no output
- 127. If **cow** is a sub-directory that contains only the file **dog**, what happens after this command: **mv cow/dog cow/././cat**
 - a. the directory **cow** now contains only a fi le named **cat**
 - b. the command fails because the name cow/././cat does not exist
 - c. there is a second copy of the fi le **dog** in the fi le named **cat**
 - d. the command fails because the name cat does not exist
 - e. the directory **cow** is now empty

- 128. Which of the command lines below can generate a non-empty file?
 - a. sort -r file file >file
 - b. ls -ls file >file
 - c. grep pattern file >file
 - d. touch file >file
 - e. head -1 file >file
- 129. In an empty directory, what is the length of the longest fi le name created by the following two-command sequence:

var='a ab abc abcd abcde'; touch \$var

- a. 19 characters
- b. 3 characters
- c. 5 characters
- d. 4 characters
- e. 15 characters
- 130. What is the output on your screen of the following sequence of commands:

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

- a. no output
- b. hi
- c. 0 0 0 wc
- d. 1 1 3 wc
- e. 1 1 2 wc
- 131. What is in fi le **out** after running this bash shell command line?

echo a >out b c

- a. b c
- b. echo a
- c. **a**
- d. no output
- e. a b c
- 132. If /bin/bash is a file name, which of the following pathnames always leads to the same fi le?
 - a. /bin/bash/..
 - b. /../../bin/bash
 - c. /bin/../bash
 - d. ./bin/bash
 - e. /bin/bash/.
- 133. What is true about this output from ls -ild foo bar?

816 -rwxr-xr-x 2 root root 3 Jan 24 01:03 foo

816 drwxr-xr-x 2 root root 3 Jan 24 01:03 bar

- a. this output is not possible
- b. **foo** and **bar** are names for different fi les
- c. **foo** and **bar** each have three names (six names total)
- d. foo and bar are names for the same file
- e. **foo** and **bar** are two of three names for this fi le

134. In an empty directory, how many arguments are passed to the **rm** command in this bash command line? date >a1; touch a2 ba ca >all; rm a*

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- a. 1
- b. 2
- c. 4
- d. none

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- e. 3
- 135. If my current working directory is /home, and my home directory is /home/me, which of the of the following commands copies the Unix password file into my home directory under the name **foo**?
 - a. cp ./me/../etc/passwd ../home/me/foo
 - b. cp ../home/me/../etc/passwd ./me/./foo
 - c. cp ../../etc/passwd /me/foo
 - d. cp me/../../etc/passwd me/foo
 - e. cp ../etc/passwd ../me/foo
- 136. Who is the owner of file **bar** after you execute this sequence of commands in your home directory:

ln /etc/passwd foo ; ln foo one

In one two; In two bar

- a. you cannot execute the given commands; no fi le will be created
- b. the fi le is owned by passwd
- c. vou own the fi le bar
- d. the fi le is owned by **root**
- e. the fi le is owned by home
- 137. What appears on your screen after this bash shell command line?

echo hi >a ; echo a | wc -c

- a. **4**
- b. 3
- c. no output
- d. 1
- e. **2**
- 138. Which command sequence outputs inode/fi lename pairs for names in the current directory, sorted by inode number?
 - a. sort -n | ls -ai
 - b. ls -node * > sort -n
 - c. ls -ai | sort -n
 - d. ls ./* | sort -node
 - e. ls -i * > sort -n
- 139. Which command line below does not show any lines from inside the file **out**?
 - a. wc out
 - b. sort -n out
 - c. head -99 out
 - d. tail out
 - e. more out

- 140. If my current working directory is /home, and my home directory is /home/xx, which of the of the following commands copies the Unix password file into my home directory under the name **foo**?
 - a. cp ../../etc/passwd /xx/foo
 - b. cp ../home/xx/../etc/passwd ./xx/./foo
 - c. cp xx/../../etc/passwd xx/foo
 - d. cp xx/../etc/passwd ../home/xx/foo
 - e. cp ../etc/passwd ../xx/foo
- 141. How can you ask the **bash** (Linux) shell to complete commands or fi le names for you?
 - a. Type [CONTROL]-[D] and the shell will present a menu of commands.
 - b. Push key **F1** and the system will present a menu of commands.
 - c. You can type the first part of the command or file name and press the **TAB** key.
 - d. You can type the first part of the command or file name and press the **ALT** key.
 - e. Type [CONTROL]-[C] and the shell will present a menu of commands.
- 142. In an empty directory, how many words are in fi le out after this bash shell command line? touch a : 1s >out
 - a. 2
 - b. **4**
 - c. no output (empty fi le)
 - d. 3
 - e. **1**
- 143. How many arguments are passed to the command by the shell on this command line: <pig pig -x " " -z -r" " >pig pig pig
 - a. 9
 - b. 7
 - c. 5
 - d. 6
 - e. 8
- 144. Which of the command lines below can generate a non-empty file?
 - a. cat /a/b /a/b /a/b >/a/b
 - b. tail /a/b > /a/b
 - c. head -5 /a/b >/a/b
 - d. sort /a/b > /a/b
 - e. wc -1 /a/b > /a/b
- 145. Given an existing file of yours named wc, what is the output of this sequence of three shell commands: echo hi >wc ; sort wc >wc ; cat wc
 - a. no output
 - b. 1 1 2 wc
 - c. 0 0 0 wc
 - d. 2 2 4 wc
 - e. 1 1 3 wc

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- 146. In an empty directory, what is the shell output of these three commands:

touch xx .x xy .y xz ; a='x* y*' ; echo "\$a"

- a. **xx xy xz y***
- b. ***x *y**
- c. **x* y***
- d. \$a
- e. **xx xv**
- 147. How many arguments and options are there to the command:

back to the command prompt?

- a. One command line argument containing one option name.
- b. A fi le name starting with a dash and an **<infile** switch option argument.
- c. Two arguments, neither of which is an option.
- d. Three arguments, one of which contains an option and one is a pathname.
- e. Two arguments, one of which is a single option name and the other is a pathname.
- 148. If you type the command echo 'missing quote which of the following key sequences will interrupt it and take you immediately
 - a. [CTRL-R]
 - b. [CTRL-U]
 - c. [CTRL-C]
 - d. [CTRL-D1
 - e. [CTRL-L]
- 149. If directory /a contains these seven two-character file names: aa, ab, ac, ad, a?, a*, a., then which shell command below will remove only the single name **a*** from the directory (and no others)?
 - a. rm /a/a*
 - b. rm /a/a?
 - c. rm /a*
 - d. rm /a/*
 - e. rm /a/a*
- 150. How many arguments are passed to the command by the shell on this command line: <bat bat -b "-a -r" >bat bat bat
 - a. 7
 - b. 5
 - c. 4
 - d. 6
 - e. 3
- 151. What is the link count of directory **dir** after this set of successful commands?

mkdir dir ; cd dir ; touch foo ; mkdir a b c

- a. 4
- b. 5
- c. 2
- d. 3
- e. 1

e. hi followed by ho

d. 9

e. 7

```
164. Which command sequence outputs inode/fi lename pairs for names in the working
     directory, sorted by inode number?
```

```
a. echo -i * > sort
b. ls -ia | sort -n
c. echo * | sort -n
d. ls | sort -i
e. ls -node | sort -n
```

165. What appears on your screen after this bash shell command line?

```
echo hi >out | wc -c
```

- a. **0**
- b. no output
- c. 3
- d. **1**
- e. 2

166. If directory **foo** contains only these four three-character file names: **.x1**, **.x2**, .z3, .z., then what is the output of the following bash shell command line: echo foo/???

```
a. foo/.x1 foo/.x2 foo/.z3 foo/.z.
```

- b. foo/.x1 foo/.x2 foo/.z3
- c. no output
- d. foo/.z.
- e. foo/???

167. If /etc/passwd is a file name, which of the following pathnames always leads to the same fi le?

```
a. ././etc/passwd
```

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

168. If fi le **foo** occupies one disk block, how many disk blocks are in use after this sequence of commands:

```
cp foo bar ; ln bar one ; cp one two ; ln one ten
```

- a. 4 blocks
- b. 3 blocks
- c. 1 block
- d. 2 blocks
- e. 5 blocks

169. If I am in my home directory named /home/alleni and empty is an empty sub-directory, what is true after this command line:

```
date >./cat ; mv empty/../cat ../alleni/dog
```

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

```
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```

170. If directory /dir contains these three four-character file names: .123, .124, •???, then what is the output of the following command line:

```
echo /dir/????
```

- a. /dir/.123 /dir/.124 /dir/.???
- b. echo: /dir/????: No such file or directory
- c. no output
- d. /dir/.123 /dir/.124
- e. /dir/????

171. Which command below removes *only* this four-character file name containing a special character (and no others): *xyz

```
a. rm ''*xyz''
```

- b. rm *"xyz"
- c. rm ''*xyz
- d. rm *xyz
- e. rm "*xyz"

172. How many lines are in the file **bar** after this command sequence:

- a. nothing empty fi le no data
- b. 1
- c. 2
- d. 4
- e. **6**

173. What will appear on your screen after this sequence of commands:

```
echo one >x ; ln x y ; echo two >y
echo ten >x ; cat y
```

- a. ten
- b. one
- c. no output on screen
- d. one followed by two and ten
- e. two

174. If fi le **foo** contains nine 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:

- a. 6
- b. 5
- c. 9
- d. 7
- e. 8

175. What is the link count of directory **dir** after this set of successful commands?

```
mkdir dir ; mkdir dir/foo ; touch dir/bar
```

- a. 4
- b. 3
- c. 5
- d. 2
- e. 1

176. Which command below removes *only* this fi ve-character fi le name containing a special character (and no others): *test

```
a. rm ''*test''
```

177. Which Unix command sequence deletes a directory and everything inside it?

```
a. erase dir
```

178. Which command below removes *only* this four-character file name containing a special character (and no others): abc*

```
a. rm abc\\*
```

- b. rm abc*
- c. rm abc//*
- d. rm abc*
- e. rm abc/*

179. What appears on your screen after this sequence of commands:

```
echo one >x ; ln x y ; echo two >>y ; sort x
```

- a. two
- b. empty fi le no output on the screen
- c. one
- d. one followed by two
- e. two followed by one

180. What is in the file **bar** after this command sequence:

```
echo hi >x ; echo ho >x ; mv x y >bar
```

- a. no such fi le (nonexistent)
- b. ho
- c. hi
- d. nothing empty fi le no data
- e. hi followed by ho

181. How many arguments does the shell pass to this **echo** command:

```
echo "cow "y " bat 'man x' " pig'a "hop' a b
```

- a. Seven arguments.
- b. Six arguments.
- c. Eleven arguments.
- d. Five arguments.

e. Four arguments.

```
182. If fi le a contains twenty lines, and fi le b contains thirty lines, then how many lines
     are in fi le out after this sequence of bash shell commands:
```

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```
cat a b >c; head c >c; sort a b c >out
```

- a. 50
- b. 30
- c. no lines (empty fi le)
- d. 60
- e. 100

183. If fi le /a contains thirty lines, and fi le /b contains fi fty lines, then how many lines are in fi le /c after this sequence of shell commands:

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

- a. no lines (empty fi le)
- b. 30
- c. 160
- d. 50
- e. 80

184. What is true about this output from ls -il foo bar?

```
871 -r---- 3 bin bin 2 Apr 22 10:15 foo
872 -r---- 3 bin bin 2 Apr 22 10:15 bar
```

- a. **foo** and **bar** each have three names (six names total)
- b. **foo** and **bar** are names for the same fi le
- c. **foo** and **bar** each have two names (four names total)
- d. this output is not possible
- e. **foo** and **bar** are two of three names for this fi le

185. Which command line below does not show any lines from inside the file **dog**?

- a. tail dog
- b. less dog
- c. more dog
- d. 1s dog
- e. head dog

186. What appears on your screen after this bash shell command line?

- a. **4**
- b. 2
- c. **1**
- d. 3
- e. no output

187. In an empty directory, what appears on your screen after this bash command line?

```
touch a ; ls >wc -l
```

- a. 2
- b. **1**
- c. 0
- d. no output
- e. 3

PRACTICE

188. What is the output of this sequence of three shell commands:

```
echo x > abc; ls > abc abc; wc abc
```

- a. 1 1 2 abc
- b. 1 1 4 abc
- c. no output
- d. 1 1 3 abc
- e. 0 0 0 abc
- 189. Which of the following statements is true about this shell command line:

```
>/a/b/c cat /a/b/d
```

- a. The command /a/b/c sees two arguments.
- b. The command is always invalid.
- c. The command /a/b/c sees only one argument
- d. The command cat sees only one argument.
- e. The command cat sees two arguments.
- 190. How many arguments does the shell pass to this **echo** command:

- a. Six arguments.
- b. Five arguments.
- c. One argument.
- d. Four arguments.
- e. Nine arguments.
- 191. What command can you use to remove a directory that isn't empty?
 - a. rmdir -r dir
 - b. deldir -r dir
 - c. mv -r dir
 - d. rm -r dir
 - e. del -r dir
- 192. If fi le **foo** contains nine lines, each of which is the one-digit line number of the line in the fi le (1 through 9), what is the output on your screen of this command:

- a. **7**
- b. **6**
- c. 9
- d. 8
- e. 5
- 193. What is the output of this bash shell command line in an empty directory?

```
ecno spuer
```

- a. '/bin/bash'
- b. \$SHELL
- c. /bin/bash
- d. '\$SHELL'
- e. no output

- 194. What is in the file named **file** after this command sequence:
 - echo a >c; echo b >>c; mv c d >file

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- echo a /c ; echo b //c ; mv c u /iii
- a. no such fi le (nonexistent fi le)
- b. **b**
- c. **a**
- d. **a** followed by **b**
- e. nothing **file** is empty no data
- 195. Which command below removes *only* this four-character file name containing a special character (and no others): cat?
 - a. rm \cat?
 - b. rm cat/?
 - c. rm ''cat?''
 - d. rm "cat?"
 - e. rm ""cat?""
- 196. What is the output of this sequence of three shell commands:

- a. no output
- b. 0 0 0 hi
- c. 1 1 2 hi
- d. 1 1 3 hi
- e. 2 2 4 hi
- 197. If your terminal type is **xterm**, what is the output of this **bash** shell command line? **echo** '\$TERM'
 - a. \$TERM
 - b. **xterm**
 - c. 'xterm'
 - d. '\$TERM'
 - e. no output
- 198. If your PATH variable contains /bin:/usr/bin, what is the output of this bash shell command line? echo '\$PATH'
 - a. \$PATH
 - b. /bin:/usr/bin
 - c. /bin
 - d. '\$PATH'
 - e. '/bin'
- 199. Which command below removes *only* this four-character file name containing a special character (and no others): **xyz?**
 - a. rm xyz\\?
 - b. rm xyz//?
 - c. rm -r xyz?
 - d. rm xyz\?
 - e. rm xyz/?

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

- a. ../passwd
- b. ../etc/passwd/.
- c. ./passwd
- d. /passwd
- e. ./etc/passwd
- 201. What appears on your screen after this bash shell command line?

```
echo hi >a ; cp a b | wc -c
```

- a. **2**
- b. no output
- c. 0
- d. 1
- e. 3
- 202. Which of the command lines below can generate a non-empty file?
 - a. ls /out >/out
 - b. sort -r /out >/out
 - c. grep -v /out /out >/out
 - d. tail -5 /out >/out
 - e. head </out >/out
- 203. What appears on your screen after this bash shell command line?

- a. **1**
- b. 3
- c. no output
- d. **4**
- e. **2**

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Answer Key - NET 2003 – Ian Allen – Winter 2005 - NET 2003 Practice Test

Office use only: 81 196 167 170 121 59 142 7 82 164 36 85 115 127 53 149 193 55 18 43 146 162 174 78 20 148 144 40 114 32 156 117 188 105 72 21 76 93 11 124 101 197 31 39 165 189 6 45 202 51 119 44 153 64 203 16 176 145 87 90 122 58 109 15 99 141 116 106 25 94 143 28 97 178 136 198 104 190 70 132 63 22 187 191 154 24 74 2 139 130 172 91 38 92 54 199 185 98 195 133 96 140 137 69 159 41 179 75 9 152 169 201 56 $163\ 166\ 62\ 183\ 177\ 37\ 4\ 86\ 112\ 175\ 147\ 155\ 57\ 160\ 29\ 89\ 80\ 151\ 3\ 77\ 102\ 34\ 184\ 49\ 12\ 33\ 35\ 17\ 123\ 111\ 26\ 126\ 158\ 100\ 23\ 103\ 110\ 135\ 19$ $171\ 88\ 61\ 79\ 10\ 125\ 42\ 73\ 157\ 182\ 107\ 13\ 52\ 113\ 1\ 192\ 161\ 186\ 68\ 95\ 84\ 5\ 134\ 65\ 14\ 67\ 83\ 108\ 200\ 120\ 118\ 128\ 30\ 48\ 60\ 129\ 150\ 168\ 194\ 8$ 46 173 66 131 180 181 71 138 50 27 47

1. a 2. d 3. a 4. a 5. c 6. d 7. a 8. e 9. e 10. c 11. d 12. a 13. b 14. b 15. c 16. c 17. c 18. c 19. b 20. d 21. a 22. e 23. e 24. d 25. a 26. b 27. b 28. a 29. a 30. c 31. e 32. a 33. e 34. d 35. b 36. a 37. b 38. e 39. c 40. e 41. a

42. a

43. b

44. b

45. a 46. a 47. a 48. e 49. d 50. b 51. e 52. a 53. d 54. c 55. d 56. d 57. e 58. d 59. e 60. b 61. d 62. d 63. a 64. e 65. d 66. e 67. c 68. c 69. d 70. a 71. c 72. a 73. a 74. e 75. e 76. b 77. a 78. a 79. d 80. e 81. c 82. a 83. b 84. b 85. a 86. b

87. b

88. a

89. d 90. d 91. d 92. c 93. c 94. e 95. d 96. c 97. d 98. a 99. a 100. c 101. e 102. d 103. d 104. a 105. c 106. c 107. a 108. a 109. d 110. b 111. d 112. a 113. b 114. e 115. a 116. e 117. c 118. e 119. b 120. e 121. c 122. e 123. e 124. a 125. d 126. e 127. a 128. b 129. c 130. d 131. e 132. b 133. a 134. e 135. d

-38-137. e 138. c 139. a 140. c 141. c 142. a 143. d 144. e 145. a 146. c 147. a 148. c 149. a 150. c 151. b 152. c 153. a 154. b 155. c 156. b 157. d 158. a 159. d 160. d 161. a 162. c 163. c 164. b 165. a 166. e 167. d 168. b 169. c 170. e 171. e 172. d 173. a 174. a 175. b 176. b 177. b 178. d 179. d 180. d 181. d 182. a 183. e 184. a

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136. d

```
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                             -39-
                                                     PRACTICE
                                  186 187 188 189 190 191
185. d
186. b
                                  192 193 194 195 196 197
187. d
                                  198 199 200 201 202 203
188. b
  189. d
                                 Macro .cmd split no indent: 3
  190. d
                                 Macro .cmd split with indent: 93
  191. d
                                 Macro .ans splits: 0
  192. d
193. b
194. e
195. d
196. b
  197. a
  198. a
  199. d
  200. c
201. c
202. a
203. b
Count of a: 52 26%
Count of b: 34 17%
Count of c: 35 17%
Count of d: 47 23%
Count of e: 35 17%
With 5 choices: 203
 1 2 3 4 5 6 7 8 9 10 11 12
 13 14 15 16 17 18 19 20 21
 22 23 24 25 26 27 28 29 30
 31 32 33 34 35 36 37 38 39
 40 41 42 43 44 45 46 47 48
 49 50 51 52 53 54 55 56 57
 58 59 60 61 62 63 64 65 66
 67 68 69 70 71 72 73 74 75
 76 77 78 79 80 81 82 83 84
 85 86 87 88 89 90 91 92 93
 94 95 96 97 98 99 100 101
 102 103 104 105 106 107
 108 109 110 111 112 113
 114 115 116 117 118 119
 120 121 122 123 124 125
 126 127 128 129 130 131
 132 133 134 135 136 137
 138 139 140 141 142 143
 144 145 146 147 148 149
 150 151 152 153 154 155
 156 157 158 159 160 161
 162 163 164 165 166 167
 168 169 170 171 172 173
 174 175 176 177 178 179
 180 181 182 183 184 185
```