

**Evaluation: 70 Questions**

Name: \_\_\_\_\_

**Important Instructions**

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 - 70 Questions - 20% of 30%**

(Office use only: 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)

1. If **a=1** and **b=1**, which **bash** command sequence correctly compares the two numbers as equal and prints **OK**?
  - † a. **if [ \$a -eq \$b ] ; then echo OK ; fi**
  - b. **if test a -eq b ; then echo OK ; fi**
  - c. **if [ a = b ] ; then echo OK ; fi**
  - d. **if ( a == b ) ; then echo OK ; fi**
  - e. **if [ \$a==\$b ] ; then echo OK ; fi**
2. If variable **x** might contain nothing (a null value - defined but empty), which **bash** command sequence correctly tests for this and prints **OK**?
  - † a. **if [ "\$x" = "" ] ; then echo OK ; fi**
  - b. **if [ \$x -eq : ] ; then echo OK ; fi**
  - c. **if [ \$x -eq "" ] ; then echo OK ; fi**
  - d. **if [ ''\$x'' = '''' ] ; then echo OK ; fi**
  - e. **if [ "\$x" = \* ] ; then echo OK ; fi**
3. If **a=aaa** and **b=bbb** then what is the output of the following sequence of **bash** commands: **if \$a = \$b ; then echo \$a ; fi**
  - † a. **bash: aaa: command not found**
  - b. **test: aaa: integer expression expected**
  - c. **test: \$a: integer expression expected**
  - d. **aaa**
  - e. **no output**
4. If **a=ant** and **b=bat** then what is the output of the following sequence of **bash** commands: **[ \$a = bat -o \$b = bat ] ; echo \$?**
  - † a. **0**
  - b. **1**
  - c. **the number 1 or 0 followed by another 1 or 0 on a new line**
  - d. **test: \$a: integer expression expected**
  - e. **no output**

5. If **a=ant** and **b=bat** then what is the output of the following sequence of **bash** commands: **[ \$a = ant -a \$b = ant ] ; echo \$?**
  - † a. **1**
  - b. **0**
  - c. **the number 1 or 0 followed by another 1 or 0 on a new line**
  - d. **test: \$a: integer expression expected**
  - e. **no output**
6. What is the output of the following sequence of **bash** commands:  
**echo wc >wc ; wc wc >wc ; head wc**
  - † a. **0 0 0 wc**
  - b. **1 1 3 wc**
  - c. **1 1 2 wc**
  - d. **no output**
  - e. **wc**
7. What is the output of the following sequence of **bash** commands:  
**echo hi >wc ; wc wc >hi ; cat hi**
  - † a. **1 1 3 wc**
  - b. **0 0 0 wc**
  - c. **1 1 2 wc**
  - d. **no output**
  - e. **hi**
8. What is the output of the following sequence of **bash** commands:  
**date='Friday March 12' ; test date = date**
  - † a. **no output**
  - b. **Fri Mar 12 10:20:39 EST 2004**
  - c. **1**
  - d. **0**
  - e. **test: too many arguments**
9. What is the output of the following sequence of **bash** commands:  
**f=1 ; touch f ; test ! -z \$f ; echo \$?**
  - † a. **0**
  - b. **1**
  - c. **the number 1 or 0 followed by another 1 or 0 on a new line**
  - d. **test: \$f: integer expression expected**
  - e. **no output**
10. What is the output of the following sequence of **bash** commands:  
**a=sky ; touch \$a ; test -z \$a ; echo \$?**
  - † a. **1**
  - b. **0**
  - c. **sky**
  - d. **test: \$a: integer expression expected**
  - e. **no output**

11. What is the output of the following sequence of **bash** commands:

```
i=0 ; test $i = 00 ; echo $?
```

- † a. 1
- b. 0
- c. the number 0 or 1 followed by another 0 or 1 on a new line
- d. **test: \$i: integer expression expected**
- e. no output

12. What is the output of the following sequence of **bash** commands:

```
a=1 ; b=2 ; test $a -ge $b ; echo $?
```

- † a. 1
- b. 0
- c. the number 1 or 0 followed by another 1 or 0 on a new line
- d. **test: \$a: integer expression expected**
- e. no output

13. What is the output of the following sequence of **bash** commands:

```
x=1 ; y=2 ; test $x -le $y ; echo $?
```

- † a. 0
- b. 1
- c. the number 0 or 1 followed by another 0 or 1 on a new line
- d. **test: \$x: integer expression expected**
- e. no output

14. What is the **bash** shell output of this two-command sequence:

```
cd /etc/passwd && echo "in $(pwd)"
```

- † a. **bash: cd: /etc/passwd: Not a directory**
- b. in /etc
- c. in 0pwd)
- d. in \$(pwd)
- e. no output

15. What is the **bash** shell output of this two-command sequence:

```
cd /bin && echo "echo $(pwd)"
```

- † a. echo /bin
- b. echo 0pwd)
- c. echo \$(pwd)
- d. /bin
- e. no output

16. In an empty directory, what is the length of the longest file name created by the following **bash** shell two-command sequence:

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

- † a. 4 characters
- b. 3 characters
- c. 2 characters
- d. 1 character
- e. 13 characters

17. Which **bash** command sequence correctly searches for the **chars** and then prints **OK** if it is found inside the password file?

- † a. if grep chars </etc/passwd ; then echo OK ; fi
- b. if [ grep chars /etc/passwd ] ; then echo OK ; fi
- c. if test chars /etc/passwd ; then echo OK ; fi
- d. if test chars = /etc/passwd ; then echo OK ; fi
- e. if [ test chars /etc/passwd ] ; then echo OK ; fi

18. If file **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 of this command:

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

- † a. 5
- b. 6
- c. 7
- d. 8
- e. 9

19. If file **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 of this command:

```
cat foo foo | sort -r | head -4 | tail -1
```

- † a. 8
- b. 7
- c. 6
- d. 5
- e. 9

20. If a **bash** shell script named **sky** contains the line:

```
if [ "$1" = '$2' ] ; then echo SAME ; fi
```

then which of the following command lines will produce **SAME** as output?

- † a. ./sky '\$2' cow
- b. ./sky cow cow
- c. ./sky "cow" 'cow'
- d. ./sky "\$1" '\$2'
- e. ./sky \$2 \$2

21. A shell script named **bar** is executed as follows:

```
./bar 1 2 "3 4" 5
```

Inside the script is the line: `echo "$3"`

What is the output from this line?

- † a. 3 4
- b. 2 3 4
- c. "3
- d. \$3
- e. 1 2 3

22. If **bar** is a script containing the line `TERM=vt100 ; export TERM`, what is the output of the following sequence of **bash** commands:

```
TERM=linux ; ./bar ; echo $TERM
```

- † a. linux
- b. vt100
- c. bar
- d. TERM
- e. \$TERM

23. What is the **bash** shell output of this two-command sequence if run in a directory containing 123 files with names that are all the numbers from 1 to 123 inclusive: `glob="*" ; echo "$glob"`

- † a. \*
- b. \$glob
- c. "\$glob"
- d. the file names 1 through 123
- e. the file names 1 through 123, surrounded by quotes

24. If **bat=12** and **cat=99** then which of the following **bash** command lines outputs only the word **hi** (and nothing else)?

- † a. [ bat = bat ] && echo hi
- b. [ bat -ne cat ] && echo hi
- c. [ !bat = cat ] && echo hi
- d. [bat -eq 12] || echo hi
- e. [bat!=bat] || echo hi

25. How many arguments and options are there to the command:

```
wc -l <infile
```

- † a. One command line argument containing one option name.
- b. Two arguments, one of which is a single option name and the other is a pathname.
- c. Three arguments, one of which contains an option and one is a pathname.
- d. A file name starting with a dash and an **<infile** switch option argument.
- e. Two arguments, neither of which is an option.

26. Which correct **bash** command sequence below always outputs just the date only if the first argument is both not empty and a directory?

- † a. if [ -d "\$1" -a -s "\$1" ]; then date ; fi
- b. if [ "-s \$1" && "-d \$1" ]; then date ; fi
- c. if [ "\$1" -eq -f -a "\$1" -eq -d ]; then date ; fi
- d. if [ -s -a -d "\$1" ]; then date ; fi
- e. if [ -s && -d "\$1" ]; then date ; fi

27. What is the **bash** shell output of this command sequence:

```
true && echo Linux      Rocks $?
```

- † a. Linux Rocks 0
- b. Linux Rocks ?
- c. Linux Rocks \$?
- d. Linux Rocks 1
- e. no output

28. What is the **bash** shell output of this command sequence:

```
false && echo "hello      there $?"
```

- † a. no output
- b. hello there 1
- c. hello there 0
- d. hello there 1
- e. hello there 0

29. In response to the following **bash** shell command line:

```
read var1 var2 var3
```

which user keyboard input line below will assign the text **three** to the shell variable named **var3**?

- † a. one two three
- b. var1=one var2=two var3=three
- c. one,two,three
- d. one:two:three
- e. \$var1="one" \$var2="two" \$var3="three"

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

```
umask 762 ; touch newfile ; ls -l newfile
```

- † a. -----r-- 1 me me 0 Oct 1 1:12 newfile
- b. -----wx 1 me me 0 Oct 1 1:12 newfile
- c. -----xr-x 1 me me 0 Oct 1 1:12 newfile
- d. -rw-rw--w- 1 me me 0 Oct 1 1:12 newfile
- e. -rwxrwx--w- 1 me me 0 Oct 1 1:12 newfile

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

```
umask 457 ; mkdir newdir ; ls -ld newdir
† a. d-wx-w---- 2 me me 512 Oct 1 1:12 newdir
   b. d-w--w---- 2 me me 512 Oct 1 1:12 newdir
   c. d-wx-w-rwx 2 me me 512 Oct 1 1:12 newdir
   d. dr--r-xrwx 2 me me 512 Oct 1 1:12 newdir
   e. dr-xr-xrwx 2 me me 512 Oct 1 1:12 newdir
```

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

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

- † a. x\* y\*
- b. xx xy
- c. xx xy xz y\*
- d. \$x
- e. \*x \*y

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

```
touch .1 .2 .3 11 12 ; a='1* .2*' ; echo '$a'
```

- † a. \$a
- b. .1\* .2\*
- c. '.1\* .2\*'
- d. .1 .2
- e. 11 .1 12 .2

34. How many arguments are passed to the command by the shell on this command line: <bat bat -b "-a -r" >bat bat bat

- † a. 4
- b. 5
- c. 2
- d. 3
- e. 6

35. Given my directory **dir** and my file **dir/bar** owned by me, which permissions allow me to change or create new content (data) in the file **dir/bar** but not delete the file?

- † a. Permissions 500 on directory **dir** and 600 on file **dir/bar**.
- b. Permissions 100 on directory **dir** and 100 on file **dir/bar**.
- c. Permissions 200 on directory **dir** and 200 on file **dir/bar**.
- d. Permissions 400 on directory **dir** and 400 on file **dir/bar**.
- e. Permissions 600 on directory **dir** and 700 on file **dir/bar**.

36. Given my directory **dir** and my file **dir/bar** owned by me, which permissions allow me to delete the file **dir/bar** from the directory, but not change the content (data) in the file?

- † a. Permissions 300 on directory **dir** and 500 on file **dir/bar**.
- b. Permissions 100 on directory **dir** and 200 on file **dir/bar**.
- c. Permissions 100 on directory **dir** and 100 on file **dir/bar**.
- d. Permissions 300 on directory **dir** and 300 on file **dir/bar**.
- e. Permissions 500 on directory **dir** and 400 on file **dir/bar**.

37. 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. 5
- b. 3
- c. 1
- d. 2
- e. 4

38. 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
```

- † a. 4
- b. 3
- c. 1
- d. 2
- e. 5

39. Which of the following shell command lines displays all the names in the current directory that are exactly three letters (alphabetic) long (and nothing else)?

- † a. echo [a-zA-Z][a-zA-Z][a-zA-Z]
- b. echo [a-zA-Za-zA-Za-zA-Z]
- c. echo [azAZ][azAZ][azAZ]
- d. echo [a,zA,Z][a,zA,Z][a,zA,Z]
- e. echo ???

40. Which of the following shell command lines displays the names in the current directory that are exactly three numeric digits long (and nothing else)?

- † a. echo [0-9][0-9][0-9]
- b. echo [0-90-90-9]
- c. echo [1-3][1-3][1-3]
- d. echo [1-31-31-3]
- e. echo ???

41. If file **/a** contains 20 lines, and file **/b** contains 30 lines, then how many lines are in file **/c** after this sequence of shell commands:  
`sort /a /b >/c ; cat /a >>/b ; sort /c /b /a >/c`
- † a. 70
  - b. 50
  - c. 80
  - d. 120
  - e. no lines (empty file)
42. If file **/a** contains 40 lines, and file **/b** contains 60 lines, then how many lines are output by this command: `sort /a /b | cat /a | cat /b`
- † a. 60
  - b. 40
  - c. 100
  - d. 160
  - e. 200
43. What is in the file named **file** after this command sequence:  
`echo a >c ; echo b >>c ; mv c d >file`
- † a. nothing - **file** is empty - no data
  - b. **a** followed by **b**
  - c. **a**
  - d. **b**
  - e. no such file (nonexistent file)
44. What is the output of this command sequence:  
`echo bat >one ; echo sky | head -2 one`
- † a. **bat**
  - b. **sky**
  - c. **bat** followed by **sky**
  - d. **sky** followed by **bat**
  - e. an error message
45. If directory **/dir** contains these three four-character file names: **.123**, **.124**, **.???**, then what is the output of the following **bash** shell command line: `echo /dir/????`
- † a. **/dir/????**
  - b. **/dir/.123 /dir/.124 /dir/.???**
  - c. **/dir/.123 /dir/.124**
  - d. **echo: /dir/????: No such file or directory**
  - e. no output

46. 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 two-character name **?1** from the directory?
- † a. `rm dir/\??`
  - b. `rm dir/?1`
  - c. `rm dir/1*`
  - d. `rm dir/*1`
  - e. `rm dir/??`
47. Which of the following **bash PATH** statements makes the most sense?
- † a. `PATH=/bin:/usr/bin:/etc`
  - b. `PATH=/bin:/usr/bin:/etc/passwd`
  - c. `PATH=/bin/ls:/etc:/usr/bin`
  - d. `PATH=/bin:/bin/cat:/usr/bin`
  - e. `PATH=/bin/sh:/usr/bin:/etc:/bin`
48. Which of the following statements is true about this shell command line:  
`>bar zoom bar haven`
- † a. The command **zoom** sees two arguments.
  - b. The command **zoom** sees three arguments.
  - c. The command **bar** sees only two arguments
  - d. The command **bar** sees three arguments.
  - e. Error: The command name is missing from the command line.
49. Which command sequence below outputs only lines 10-15 of the Unix password file?
- † a. `head -15 /etc/passwd | tail -6`
  - b. `tail -15 /etc/passwd | head -5`
  - c. `head -15 /etc/passwd | tail -5 /etc/passwd`
  - d. `head -10 /etc/passwd | tail -5 /etc/passwd`
  - e. `tail -10 /etc/passwd | head -15 /etc/passwd`
50. 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 ; ln foo bar`
  - c. `date >foo ; cp foo/. bar`
  - d. `cat /etc/passwd > mail idallen@ncf.ca`
  - e. `mkdir foo foo/bar ; rmdir foo`

51. If the file **bat** contained the word **foo**, what would be the **bash** shell output of this two command sequence:

```
PATH=/etc/passwd:/bin/ls:/bin/cat ; /bin/ls bat
```

- † a. **bat**
- b. **foo**
- c. **/bin/ls: bat: No such file or directory**
- d. **bash: /bin/ls: command not found**
- e. no output

52. If **/bin/bat** is a program that outputs **hi** and **/usr/bin/bat** is a program that outputs **foo** what is the output of this shell command sequence:

```
PATH=/etc:/usr/bin:/bin ; bat
```

- † a. **foo**
- b. **hi**
- c. **foo followed by hi**
- d. **hi followed by mom**
- e. **bash: bat: command not found**

53. Which of these commands makes a file owned by me, also executable by me?

- † a. **chmod u+x ./myfile**
- b. **chmod x+u myfile**
- c. **chmod x=u ./myfile**
- d. **umask 777 myfile**
- e. **umask 111 myfile**

54. Which of these first lines will cause this executable file to be interpreted using the Bash shell?

- † a. **#!/bin/bash**
- b. **#/bin/bash**
- c. **!#/bin/bash -u**
- d. **!/bin/bash**
- e. **/bin/bash -u**

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

- † a. **ls bat**
- b. **head bat**
- c. **tail bat**
- d. **more bat**
- e. **less bat**

56. Which command line displays the contents of the Unix **passwd** file one page at a time?

- † a. **less </etc/passwd**
- b. **less | /etc/passwd**
- c. **/etc/passwd >less**
- d. **/etc/passwd | less**
- e. **cat /etc/passwd >less**

57. Which line below is most likely to be the beginning of an error message?

- † a. **echo 1>&2 "... "**
- b. **echo 1<&2 "... "**
- c. **echo 2>&1 "... "**
- d. **echo 2<\$1 "... "**
- e. **echo 2>\$1 "... "**

58. Which line below puts the count of the number of lines in the password file into the variable **foo**?

- † a. **foo=\$( wc -l </etc/passwd )**
- b. **foo=\$( cat -c /etc/passwd )**
- c. **foo=[ wc /etc/passwd | echo \$1 ]**
- d. **foo=[ cat -l /etc/passwd ]**
- e. **foo=[ grep -c /etc/passwd ]**

59. 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**

60. If my current working directory is **/home**, and my home directory is **/home/xx**, which of the following commands copies the Unix password file into my home directory under the name **foo**?

- † a. **cp xx/.../etc/passwd xx/foo**
- b. **cp xx/.../etc/passwd ..//home/xx/foo**
- c. **cp ..//etc/passwd ..//xx/foo**
- d. **cp ..//home/xx/.../etc/passwd ..//xx//.//foo**
- e. **cp ..//.../etc/passwd /xx/foo**

61. If **bar** is an executable script containing the line **dog=bat** then what is the **bash** output of this sequence of three commands:

```
dog=cat ; ./bar ; echo "the '$dog' ate"
```

- † a. **the 'cat' ate**
- b. **the 'bat' ate**
- c. **the '\$dog' ate**
- d. **the \$dog ate**
- e. **the 'dog' ate**

62. If **happy** were a file of text containing 50 different lines, what would be the output of this exact command line: **diff happy happy**

- † a. no output
- b. an error message because **diff** only allows one file name
- c. an error message because **diff** doesn't allow the same file name twice
- d. several lines, which are the lines that are different between the two files
- e. the contents of file **happy** would be displayed

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

- † a. **rm -r dir**
- b. **rm -all dir**
- c. **rmdir -r dir**
- d. **rmdir -all dir**
- e. **deltree -all dir**

64. Which of the command lines below can generate a non-empty file?

- † a. **ls /out >/out**
- b. **sort -r /out >/out**
- c. **tail -5 /out >/out**
- d. **tr abc ABC </out >/out**
- e. **grep -v /out /out >/out**

65. What is the **bash** shell output of this two command sequence:

```
PATH=/bin/ls:/bin/head:/bin/sh ; head nosuchfile
```

- † a. **bash: head: command not found**
- b. **bash: /bin/ls: command not found**
- c. **ls: /bin/head: command not found**
- d. **head: nosuchfile: No such file or directory**
- e. **bash: /bin/sh: No such file or directory**

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

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

- † a. **1 1 4 abc**
- b. **1 1 3 abc**
- c. **1 1 2 abc**
- d. **0 0 0 abc**
- e. no output

67. How can you ask the **bash** shell to complete commands or file names for you?

- † a. You can type the first part of the command or file name and press the **TAB** key.
- b. You can type the first part of the command or file name and press the **ALT** key.
- c. Type **[CONTROL]-[ALT]-[DEL]** and the shell will present a menu of commands.
- d. Type **[CONTROL]-[D]** and the shell will present a menu of commands.
- e. Type **[ALT]-[F2]** the shell will present a menu of commands.

68. Given this long listing:

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

How many subdirectories lie immediately under **/dir**?

- † a. 446
- b. 448
- c. 294
- d. 296
- e. there is not enough information shown to answer the question

69. What minimal permissions must you have on a directory to be able to execute successfully the command **ls .** from *inside* the directory?

- † a. **r-x**
- b. **--x**
- c. **r--**
- d. **-wx**
- e. **rw-**

70. Select the correct **bash** shell order of command line processing:

- † a. aliases, redirection, variables, globs
- b. aliases, variables, redirection, globs
- c. aliases, variables, globs, redirection
- d. aliases, globs, variables, redirection
- e. redirection, aliases, globs, variables

**Answer Key - DAT 2330 – Ian Allen – Winter 2004 - DAT 2330 Unix Final - 30%**

Offi ce use only: 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

- |       |                         |
|-------|-------------------------|
| 1. a  | 41. a                   |
| 2. a  | 42. a                   |
| 3. a  | 43. a                   |
| 4. a  | 44. a                   |
| 5. a  | 45. a                   |
| 6. a  | 46. a                   |
| 7. a  | 47. a                   |
| 8. a  | 48. a                   |
| 9. a  | 49. a                   |
| 10. a | 50. a                   |
| 11. a | 51. a                   |
| 12. a | 52. a                   |
| 13. a | 53. a                   |
| 14. a | 54. a                   |
| 15. a | 55. a                   |
| 16. a | 56. a                   |
| 17. a | 57. a                   |
| 18. a | 58. a                   |
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| 24. a | 64. a                   |
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| 26. a | 66. a                   |
| 27. a | 67. a                   |
| 28. a | 68. a                   |
| 29. a | 69. a                   |
| 30. a | 70. a                   |
| 31. a |                         |
| 32. a | Count of a: 70 100%     |
| 33. a |                         |
| 34. a | With 5 choices: 70      |
| 35. a | 1 2 3 4 5 6 7 8 9 10 11 |
| 36. a | 12 13 14 15 16 17 18 19 |
| 37. a | 20 21 22 23 24 25 26 27 |
| 38. a | 28 29 30 31 32 33 34 35 |
| 39. a | 36 37 38 39 40 41 42 43 |
| 40. a | 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                |

Macro .cmd splits: 35  
Macro .ans splits: 0