Quiz Practice: POSIX Shell 1

1 Pipes

Problem 1. Write the output of the final command in the following terminal session. If the command has no output, then leave the problem blank.

```
$ cd
$ rm -rf quiz
$ mkdir quiz
$ cd quiz
$ echo 'hello world' >> README
$ echo 'hola mundo' >> README
$ echo 'salve munde' >> README
$ cat README | grep 'hello'
```

Problem 2. Write the output of the final command in the following terminal session. If the command has no output, then leave the problem blank.

```
$ cd
$ rm -rf quiz
$ mkdir quiz
$ cd quiz
$ echo 'hello world' >> README
$ echo 'hola mundo' >> README
$ echo 'salve munde' >> README
$ cat README | grep 'h'
```

Problem 3. Write the output of the final command in the following terminal session. If the command has no output, then leave the problem blank.

```
$ cd
$ rm -rf quiz
$ mkdir quiz
$ cd quiz
$ echo 'hello world' >> README
$ echo 'hola mundo' >> README
$ echo 'salve munde' >> README
$ cat README | grep 'h' | wc -l
```

Problem 4. Write the output of the final command in the following terminal session. If the command has no output, then leave the problem blank.

```
$ cd
$ rm -rf quiz
$ mkdir quiz
$ cd quiz
$ echo 'hello world' >> README
$ echo 'hola mundo' >> README
$ echo 'salve munde' >> README
$ cat README | grep 'h.*a'
```

Problem 5. Write the output of the final command in the following terminal session. If the command has no output, then leave the problem blank.

```
$ cd
$ rm -rf quiz
$ mkdir quiz
$ cd quiz
$ touch hello_world
$ touch hola_mundo
$ touch salve_munde
$ ls | wc -l
```

Problem 6. Write the output of the final command in the following terminal session. If the command has no output, then leave the problem blank.

```
$ cd
$ rm -rf quiz
$ mkdir quiz
$ cd quiz
$ touch hello_world
$ touch hola_mundo
$ touch salve_munde
$ ls | grep 'h.*a' | wc -l
```

2 Variables

Problem 7. Write the output of the final command in the following terminal session. If the command has no output, then leave the problem blank.

```
$ cd
$ rm -rf quiz
$ mkdir quiz
$ cd quiz
$ var="hello world"
$ touch $var
$ ls | wc -l
```

Problem 8. Write the output of the final command in the following terminal session. If the command has no output, then leave the problem blank.

```
$ cd
$ rm -rf quiz
$ mkdir quiz
$ cd quiz
$ var="hello world"
$ touch "$var"
$ ls
```

Problem 9. Write the output of the final command in the following terminal session. If the command has no output, then leave the problem blank.

```
$ cd
$ rm -rf quiz
$ mkdir quiz
$ cd quiz
$ var="hello world"
$ touch '$var'
$ ls
```

Problem 10. Write the output of the final command in the following terminal session. If the command has no output, then leave the problem blank.

```
$ cd
$ rm -rf quiz
$ mkdir quiz
$ cd quiz
$ var=`echo hello world`
$ touch "$var"
$ ls | wc -l
```

Problem 11. Write the output of the final command in the following terminal session. If the command has no output, then leave the problem blank.

```
$ cd
$ rm -rf quiz
$ mkdir quiz
$ cd quiz
$ var=$(echo hello world)
$ touch "$var"
$ ls | wc -l
```

Problem 12. Write the output of the final command in the following terminal session. If the command has no output, then leave the problem blank.

```
$ cd
$ rm -rf quiz
$ mkdir quiz
$ cd quiz
$ var=$(echo echo echo)
$ touch "$var"
$ ls | wc -l
```

Problem 13. Write the output of the final command in the following terminal session. If the command has no output, then leave the problem blank.

```
$ cd
$ rm -rf quiz
$ mkdir quiz
$ cd quiz
$ var="$(echo echo echo)"
$ touch "$var"
$ ls
```

Problem 14. Write the output of the final command in the following terminal session. If the command has no output, then leave the problem blank.

```
$ cd
$ rm -rf quiz
$ mkdir quiz
$ cd quiz
$ var='$(echo echo echo)'
$ touch "$var"
$ ls
```

Problem 15. Write the output of the final command in the following terminal session. If the command has no output, then leave the problem blank.

```
$ cd
$ rm -rf quiz
$ mkdir quiz
$ cd quiz
$ var=$(echo $(echo echo))
$ touch "$var"
$ ls | wc -l
```

Problem 16. Write the output of the final command in the following terminal session. If the command has no output, then leave the problem blank.

```
$ cd
$ rm -rf quiz
$ mkdir quiz
$ cd quiz
$ var=$(echo '$(echo echo)')
$ touch "$var"
$ ls
```

Problem 17. Write the output of the final command in the following terminal session. If the command has no output, then leave the problem blank.

```
$ cd
$ rm -rf quiz
$ mkdir quiz
$ cd quiz
$ var=$(echo $(echo $(echo)))
$ touch "$var"
$ ls | wc -l
```

Problem 18. Write the output of the final command in the following terminal session. If the command has no output, then leave the problem blank.

```
$ cd
$ rm -rf quiz
$ mkdir quiz
$ cd quiz
$ var=$(echo $(echo) echo)
$ touch "$var"
$ ls | wc -l
```

Problem 19. Write the output of the final command in the following terminal session. If the command has no output, then leave the problem blank.

```
$ cd
$ rm -rf quiz
$ mkdir quiz
$ cd quiz
$ var=echo echo echo
$ touch "$var"
$ ls | wc -l
```

3 For loops

Problem 20. Write the output of the final command in the following terminal session. If the command has no output, then leave the problem blank.

```
$ cd
$ rm -rf quiz
$ mkdir quiz
$ cd quiz
$ for file in a b c d e f; do touch $file; done
$ ls | wc -l
```

Problem 21. Write the output of the final command in the following terminal session. If the command has no output, then leave the problem blank.

```
$ cd
$ rm -rf quiz
$ mkdir quiz
$ cd quiz
$ for file in 'a b' 'c d' 'e f'; do touch $file; done
$ ls | wc -l
```

Problem 22. Write the output of the final command in the following terminal session. If the command has no output, then leave the problem blank.

```
$ cd
$ rm -rf quiz
$ mkdir quiz
$ cd quiz
$ for file in 'a b' 'c d' 'e f'; do touch "$file"; done
$ ls | wc -l
```

Problem 23. Write the output of the final command in the following terminal session. If the command has no output, then leave the problem blank.

```
$ cd
$ rm -rf quiz
$ mkdir quiz
$ cd quiz
$ for file in 'a b' 'c d' 'e f'; do touch '$file'; done
$ ls | wc -l
```

Problem 24. Write the output of the final command in the following terminal session. If the command has no output, then leave the problem blank.

```
$ cd
$ rm -rf quiz
$ mkdir quiz
$ cd quiz
$ for file in a b c $(echo hello world) d e f; do touch "$file"; done
$ ls | wc -l
```

Problem 25. Write the output of the final command in the following terminal session. If the command has no output, then leave the problem blank.

```
$ cd
$ rm -rf quiz
$ mkdir quiz
$ cd quiz
$ for file in 'a b' 'c $(echo hello world) d' 'e f'; do touch "$file"; done
$ ls | wc -l
```

Problem 26. Write the output of the final command in the following terminal session. If the command has no output, then leave the problem blank.

```
$ cd
$ rm -rf quiz
$ mkdir quiz
$ cd quiz
$ for file in "a b" "c $(echo hello world) d" "e f"; do touch "$file"; done
$ ls | wc -l
```

Problem 27. Write the output of the final command in the following terminal session. If the command has no output, then leave the problem blank.

```
$ cd
$ rm -rf quiz
$ mkdir quiz
$ cd quiz
$ for file in "a b" "c $(echo hello world) d" "e f"; do touch $file; done
$ ls | wc -l
```

Note 1. I will generate new problems by: (1) changing the type of quotation mark, (2) removing/adding quotation marks.