

1.

(a) `/home/user1`

(b) `ls -s -h` or `ls -sh`

(c) `cat file1.txt file2.txt > new.txt`

(d) `chmod g+rw *`

(e) `find . -name '*sim*'`

(f) `grep boson *`

(g) 1.os 2.Unix 3.Unix 4.\$os

2.

(a) `git add src/io.cpp`

(b) `git reset HEAD src/io.cpp`

(c) `git commit -a -m "latest changes"` or `git commit -a`

(d) `git checkout -- src/io.cpp`

3.

(a) 21 0

(b) ['S', 'C', 'B', 'A']

4. Just check commits

5. Compare **strip.sh** file with following lines:

```
#!/bin/sh
# student_name student_number
head -n -$2 $3 | tail -n +$1
```

(a) line 1 and 2 of the above

(b) line 3

The file must also has execute permission set (command for doing that is: **chmod a+x strip.sh**).

You can check for that by: **ls -l strip.sh** and the first column must be: **-rwxrwxr-x**. One mark of part (b) is for having the file permission set (from 4 marks).

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(c) Check commits

6. Compare **has_no_e.py** file with following lines:

```
def has_no_e(word):
    for letter in word:
        if letter == 'E':
            return False
    return True

reader = open('gadsby_stripped.txt', 'r')

line = reader.readline()
while line != '':
    if has_no_e(line):
        line = reader.readline()
    else:
        print("contains 'e'!")
        break
reader.close()
```

(a) Line 1-5

(b) Line 7-15

(c) Check commits