Tasks

#### 1. Write a grep command that will look for single-line comments in the both ﬁles

#### (log3.py and log3.c).

grep '^[[:space:]]\*#\|^[[:space:]]\*//' log3.c log3.py | grep -v '[[:space:]]\*\(include\|define\)'

Please note that that ' character is different from the ‘ character. The character ' will work, but the character ‘ will not.

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#### 2. Write a grep command that will look for lines that import/include libraries in both

#### ﬁles (log3.py and log3.c). These are lines that start with “import” in Python or

#### “#include” in C. For Python, any import statement should be matched. For C,

#### however, only lines that include a standard library header ﬁle should be matched.

#### Therefore, the line “#include “utils.h”” should not be matched.

grep '^[[:space:]]\*import \|^[[:space:]]\*#\*include' log3.py log3.c | grep -v \"

Please note that " is different from “ . Only the " will work. The “ character will not work.

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#### 3. Write a grep command that will match lines that contain an if statement in both ﬁles

#### (log3.py and log3.c).

grep '^[[:space:]]\*if ' log3.py log3.c

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#### 4. Write a grep command that will match lines that contain any assignment operator

#### (e.g. =, /=, +=, etc) but not relational operators (e.g. ==, <=, etc) in both ﬁles (log3.py

#### and log3.c).

grep '[=]' log3.py log3.c | grep -v ' [>!<]' | grep -v '=='

Once again, please note the difference between ' and ’.

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#### 5. Write a grep command that matches a variable declaration of the types (int, double,

#### or long long) in the C ﬁle. Arrays declaration should also be matched, so the line:

#### long long powers[MAX+1]; should be matched.

grep '^[[:space:]]\*\(long \| int \| double\)' log3.py log3.c

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