

Homework 7

Skylar Chan

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Instructions: Write your answers in a text document and submit on ELMS. Due April 14.

Fill in the blanks to produce the following output (blanks are not indicative of the length of the answer).

1. `printf ____ {_____}`

1 3

5 7

2. `printf ____ $(seq _ _ _)`

2 4

6 8

3. Is it better to use brace expansion or seq? Explain in your own words.

4. Steam is a video game distribution platform with a native Linux client. The Linux client has a startup script (`steam.sh`) that runs every time the user launches Steam. There used to be a severe bug that caused the user's entire hard drive to be wiped under certain scenarios. Report the GitHub issue that reports the bug, as well as the relevant Bash code. Explain why the bug happens and how it was fixed.

5. The following 2 lines are not identical. Why not? Review the lecture 7 slides if you are stuck.

```
if A ; then B ; else C ; fi
```

```
A && B || C
```

6. Explain how to add 1 to a variable.

7. The PATH environment variable can be extended to include other directories. Give an example of how to add a custom directory to PATH, and how to verify that you can run executables inside that custom directory.

8. Give an example command that results in different word splitting depending on the value of IFS.

9. Give an example command besides the one shown in class that has different behavior depending on whether a variable is quoted or not.