

# Lab 8 Submission

## Practice Question 1

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15816 outside the United States. U.S. laws alone swamp our small staff.
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15826 Gutenberg™ concept of a library of electronic works that could be
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15841 including how to make donations to the Project Gutenberg Literary
15842 Archive Foundation, how to help produce our new eBooks, and how to
15843 subscribe to our email newsletter to hear about new eBooks.
15844
15845

```

  

```

history
 1 git clone https://github.com/linuxworkshop7/sample_files
 2 cd Documents/sample_files/Txt/dracula.txt
 3 cd Documents
 4 cd Documents
 5 cd sample_files
 6 ls
 7 cat Txt
 8 ls
 9 cat /etc/passwd
10 tac /etc/passwd
11 cat -nT /etc/passwd
12 head -n 5 /etc/passwd
13 tail -n 5 /etc/passwd
14 tail -1 /etc/passwd
15 head -1 /etc/passwd
16 cat -n
17 cat -n ~/Documents/sample_files/Txt/dracula.txt

```

## Practice Question 2

```

Terminal
Just Right Crunchy Nuggets calories = 110
Just Right Fruit & Nut calories = 140
Kix calories = 110
Life calories = 100
Lucky Charms calories = 110
Mapo calories = 100
Muesli Raisins, Dates, & Almonds calories = 150
Muesli Raisins, Peaches, & Pecans calories = 150
Mueslix Crispy Blend calories = 160
Multi-Grain Crunch calories = 160
Nut&Honey Crunch calories = 120
Nutri-Grain Almond-Raisin calories = 140
Nutri-Grain Wheat calories = 90
Oatmeal Raisin Crisp calories = 130
Post Nat Raisin Bran calories = 120
Product 19 calories = 100
Puffed Rice calories = 50
Puffed Wheat calories = 50
Quaker Oat Squares calories = 100
Quaker Oatmeal calories = 100
Raisin Bran calories = 120
Raisin Nut Bran calories = 100
Raisin Squares calories = 90
Rice Chex calories = 110
Rice Krispies calories = 110
Shredded Wheat calories = 80
Shredded Wheat 'N Bran calories = 90
Shredded Wheat spoon size calories = 90
Smacks calories = 110
Special K calories = 110
Strawberry Fruit Wheats calories = 90
Total Corn Flakes calories = 110
Total Raisin Bran calories = 140
Total Whole Grain calories = 100
Triples calories = 110
Trix calories = 110
Wheat Chex calories = 100
Wheatus calories = 100
Wheatus Honey Gold calories = 110

history
1 cut -d":" -f1 /etc/passwd
2 cut -d":" -f1,6 /etc/passwd
3 cut -d":" -f1,6,7 --output-delimiter=" > "/etc/passwd
4 cut -d":" -f1 ~/Documents/sample_files/Csv/cereal.csv
5 cut -d":" -f1,4 --output-delimiter=" calories = ~/Documents/sample_files/Csv/cereal.csv

```

## Practice Question 3

```

Terminal
Toyota Corolla Liftback;26.0;4;97.00;75.00;2265.;18.2;77;Japan
Toyota Corolla Liftback;29.8;4;134.0;96.00;2711.;15.5;89;Japan
Toyota Corolla Mark ii;24.0;4;113.0;95.00;2372.;15.0;70;Japan
Toyota Corolla Mark II (sw);23.0;4;120.0;97.00;2506.;14.5;72;Japan
Toyota Corolla Tercel;38.1;4;89.00;60.00;1948.;18.8;80;Japan
Toyota Cressida;25.4;4;168.0;110.0;2900.;12.6;81;Japan
Toyota Mark II;19.0;6;150.0;108.0;2930.;15.5;76;Japan
Toyota Mark II;29.0;6;150.0;122.0;2807.;15.5;73;Japan
Toyota Starlet;39.1;4;79.00;50.00;1755.;16.5;81;Japan
Toyota Tercel;37.7;4;89.00;62.00;2050.;17.3;81;Japan
Triumph TR7 Coupe;35.0;4;122.0;88.00;2500.;15.1;80;Europe
Volkswagen 1131 Deluxe Sedan;26.0;4;97.00;98.00;1835.;28.5;78;Europe
Volkswagen 411 (sw);22.0;4;121.0;76.00;2511.;18.0;72;Europe
Volkswagen Dasher;25.0;4;98.00;71.00;2223.;16.5;75;Europe
Volkswagen Dasher;26.0;4;79.00;67.00;1963.;15.5;74;Europe
Volkswagen Dasher;30.5;4;97.00;78.00;2190.;14.1;77;Europe
Volkswagen Dasher (diesel);43.4;4;98.00;48.00;2335.;23.7;80;Europe
Volkswagen Jetta;33.0;4;105.0;74.00;2198.;14.2;81;Europe
Volkswagen Model 111;27.0;4;97.00;69.00;1834.;19.0;71;Europe
Volkswagen Pickup;44.0;4;97.00;52.00;2130.;24.6;82;Europe
Volkswagen Rabbit;29.0;4;98.00;70.00;1937.;14.0;75;Europe
Volkswagen Rabbit;29.0;4;98.00;70.00;1937.;14.2;76;Europe
Volkswagen Rabbit;29.5;4;97.00;71.00;1825.;12.2;76;Europe
Volkswagen Rabbit;29.5;4;89.00;62.00;1848.;15.3;80;Europe
Volkswagen Rabbit;41.5;4;98.00;76.00;2144.;14.7;80;Europe
Volkswagen Rabbit C (Diesel);44.3;4;90.00;48.00;2085.;21.1;80;Europe
Volkswagen Rabbit Custom;29.0;4;97.00;78.00;1940.;14.5;77;Europe
Volkswagen Rabbit Custom;31.9;4;89.00;71.00;1925.;14.0;79;Europe
Volkswagen Rabbit Custom Diesel;43.1;4;90.00;48.00;1985.;21.5;78;Europe
Volkswagen Rabbit 1.3;36.0;4;105.0;74.00;1988.;15.3;82;Europe
Volkswagen Scirocco;31.5;4;89.00;71.00;1990.;14.9;78;Europe
Volkswagen Super Beetle;117.0;4;97.00;48.00;1978.;20.0;71;Europe
Volkswagen Super Beetle;26.0;4;97.00;46.00;1950.;21.0;73;Europe
Volkswagen Type 3;23.0;4;97.00;54.00;2254.;23.5;72;Europe
Volvo 1440;19.0;4;121.0;112.0;2868.;15.5;73;Europe
Volvo 1450 (sw);18.0;4;121.0;112.0;2933.;14.5;72;Europe
Volvo 2440L;22.0;4;121.0;98.00;2945.;14.5;75;Europe
Volvo 245;20.0;4;130.0;102.0;3150.;15.5;76;Europe
Volvo 264gl;17.0;6;163.0;125.0;3140.;13.6;74;Europe
Volvo Diesel;30.7;6;145.0;70.00;3160.;19.6;81;Europe

sort -o sorted_cars.csv cars.csv
wc -l sorted_cars.csv
468 sorted_cars.csv

wc -m sorted_cars.csv
2265 sorted_cars.csv

```

## Challenge Question

### Question 1

```
Terminal
@ wc -l access.log
100 access.log
@ 17:53

@ head -n 1 access.log
2025-12-18 04:22:18 Ken /admin DENIED
@ 17:54

@ tac access.log | head -n 1
2025-05-11 10:43:40 Spike /404 DENIED
@ 17:54

@ head -n 15 access.log
2025-12-18 04:22:18 Ken /admin DENIED
2025-05-09 21:34:20 Asimov /login DENIED
2025-01-05 08:09:40 Ken /upload DENIED
2025-05-05 04:45:02 Spike /admin FAIL
2025-03-17 06:12:16 Shinji /reset DENIED
2025-02-28 04:59:26 Arisu /404 SUCCESS
2025-03-15 23:05:12 Ein /logout DENIED
2025-04-08 02:31:39 Seras /admin DENIED
2025-03-17 00:55:09 Touka /logout FAIL
2025-02-15 02:41:08 Arisu /settings SUCCESS
2025-11-02 00:34:23 Honami /settings DENIED
2025-04-03 22:46:48 Ein /login DENIED
2025-12-12 06:25:27 Touka /logout DENIED
2025-01-01 05:25:12 Jet /logout SUCCESS
2025-03-18 08:01:39 Spike /settings FAIL
@ 17:55

@ tail -n 15 access.log
2025-07-02 05:36:16 Spike /login FAIL
2025-03-25 07:54:46 Honami /login FAIL
2025-05-23 16:54:26 Ken /upload SUCCESS
2025-01-14 11:09:24 Haruka /settings DENIED
2025-07-17 21:34:27 Eren /logout SUCCESS
2025-01-03 12:55:48 Shinji /reset SUCCESS
2025-12-20 19:10:11 Ein /404 DENIED
2025-01-06 05:35:46 Jet /download DENIED
@ 17:55
```

## Question 2

```
Terminal
@ wc -l access.log
100 access.log
@ 17:53

@ head -n 1 access.log
2025-12-18 04:22:18 Ken /admin DENIED
@ 17:54

@ tac access.log | head -n 1
2025-05-11 10:43:40 Spike /404 DENIED
@ 17:54

@ head -n 15 access.log
2025-12-18 04:22:18 Ken /admin DENIED
2025-05-09 21:34:20 Asimov /login DENIED
2025-01-05 08:09:40 Ken /upload DENIED
2025-05-05 04:45:02 Spike /admin FAIL
2025-03-17 06:12:16 Shinji /reset DENIED
2025-02-28 04:59:26 Arisu /404 SUCCESS
2025-03-15 23:05:12 Ein /logout DENIED
2025-04-08 02:31:39 Seras /admin DENIED
2025-03-17 00:55:09 Touka /logout FAIL
2025-02-15 02:41:08 Arisu /settings SUCCESS
2025-11-02 00:34:23 Honami /settings DENIED
2025-04-03 22:46:48 Ein /login DENIED
2025-12-12 06:25:27 Touka /logout DENIED
2025-01-01 05:25:12 Jet /logout SUCCESS
2025-03-18 08:01:39 Spike /settings FAIL
@ 17:55

@ tail -n 15 access.log
2025-07-02 05:36:16 Spike /login FAIL
2025-03-25 07:54:46 Honami /login FAIL
2025-05-23 16:54:26 Ken /upload SUCCESS
2025-01-14 11:09:24 Haruka /settings DENIED
2025-07-17 21:34:27 Eren /logout SUCCESS
2025-01-03 12:55:48 Shinji /reset SUCCESS
2025-12-20 19:10:11 Ein /404 DENIED
2025-01-06 05:35:46 Jet /download DENIED
@ 17:55
```

## Question 3

```
Terminal
@ wc -l access.log
100 access.log
@ 17:53

@ head -n 1 access.log
2025-12-18 04:22:18 Ken /admin DENIED
@ 17:54

@ tac access.log | head -n 1
2025-05-11 10:43:40 Spike /404 DENIED
@ 17:54

@ head -n 15 access.log
2025-12-18 04:22:18 Ken /admin DENIED
2025-05-09 21:34:20 Asimov /login DENIED
2025-01-05 08:09:40 Ken /upload DENIED
2025-05-05 04:45:02 Spike /admin FAIL
2025-03-17 06:12:16 Shinji /reset DENIED
2025-02-28 04:59:26 Arisu /404 SUCCESS
2025-03-15 23:05:12 Ein /logout DENIED
2025-04-08 02:31:39 Seras /admin DENIED
2025-03-17 00:55:09 Touka /logout FAIL
2025-02-15 02:41:08 Arisu /settings SUCCESS
2025-11-02 00:34:23 Honami /settings DENIED
2025-04-03 22:46:48 Ein /login DENIED
2025-12-12 06:25:27 Touka /logout DENIED
2025-01-01 05:25:12 Jet /logout SUCCESS
2025-03-18 08:01:39 Spike /settings FAIL
@ 17:55

@ tail -n 15 access.log
2025-07-02 05:36:16 Spike /login FAIL
2025-03-25 07:54:46 Honami /login FAIL
2025-05-23 16:54:26 Ken /upload SUCCESS
2025-01-14 11:09:24 Haruka /settings DENIED
2025-07-17 21:34:27 Eren /logout SUCCESS
2025-01-03 12:55:48 Shinji /reset SUCCESS
2025-12-20 19:10:11 Ein /404 DENIED
2025-01-06 05:35:46 Jet /download DENIED
@ 17:55
```

## Question 4

```
Terminal
@ wc -l access.log
100 access.log
@ 17:53

@ head -n 1 access.log
2025-12-18 04:22:18 Ken /admin DENIED
@ 17:54

@ tac access.log | head -n 1
2025-05-11 10:43:40 Spike /404 DENIED
@ 17:54

@ head -n 15 access.log
2025-12-18 04:22:18 Ken /admin DENIED
2025-05-09 21:34:20 Asimov /login DENIED
2025-01-05 08:09:40 Ken /upload DENIED
2025-05-05 04:45:02 Spike /admin FAIL
2025-03-17 06:12:16 Shinji /reset DENIED
2025-02-28 04:59:26 Arisu /404 SUCCESS
2025-03-15 23:05:12 Ein /logout DENIED
2025-04-08 02:31:39 Seras /admin DENIED
2025-03-17 00:55:09 Touka /logout FAIL
2025-02-15 02:41:08 Arisu /settings SUCCESS
2025-11-02 00:34:23 Honami /settings DENIED
2025-04-03 22:46:48 Ein /login DENIED
2025-12-12 06:25:27 Touka /logout DENIED
2025-01-01 05:25:12 Jet /logout SUCCESS
2025-03-18 08:01:39 Spike /settings FAIL
@ 17:55

@ tail -n 15 access.log
2025-07-02 05:36:16 Spike /login FAIL
2025-03-25 07:54:46 Honami /login FAIL
2025-05-23 16:54:26 Ken /upload SUCCESS
2025-01-14 11:09:24 Haruka /settings DENIED
2025-07-17 21:34:27 Eren /logout SUCCESS
2025-01-03 12:55:48 Shinji /reset SUCCESS
2025-12-20 19:10:11 Ein /404 DENIED
2025-01-06 05:35:46 Jet /download DENIED
@ 17:55
```

## Question 5

```
Terminal
```

```
⌚ wc -l access.log          ⌚ 17:53
100 access.log

⌚ head -n 1 access.log      ⌚ 17:54
2025-12-18 04:22:18 Ken /admin DENIED

⌚ tac access.log | head -n 1 ⌚ 17:54
2025-05-11 10:43:40 Spike /404 DENIED

⌚ head -n 15 access.log     ⌚ 17:55
2025-12-18 04:22:18 Ken /admin DENIED
2025-05-09 21:34:20 Asimov /login DENIED
2025-01-09 08:09:40 Ken /upload DENIED
2025-05-05 04:45:02 Spike /admin FAIL
2025-03-17 06:12:16 Shinji /reset DENIED
2025-02-28 04:59:26 Arisu /404 SUCCESS
2025-03-15 23:05:12 Ein /logout DENIED
2025-04-08 02:31:39 Seras /admin DENIED
2025-03-17 00:55:09 Touka /logout FAIL
2025-02-15 02:41:08 Arisu /settings SUCCESS
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2025-04-03 22:46:48 Ein /login DENIED
2025-12-12 06:25:27 Touka /logout DENIED
2025-01-01 05:25:12 Jet /logout SUCCESS
2025-03-18 08:01:39 Spike /settings FAIL

⌚ tail -n 15 access.log      ⌚ 17:55
2025-07-02 05:36:16 Spike /login FAIL
2025-03-25 07:54:46 Honami /login FAIL
2025-05-23 16:54:26 Ken /upload SUCCESS
2025-01-14 11:09:24 Haruka /settings DENIED
2025-07-17 21:34:27 Eren /logout SUCCESS
2025-01-03 12:55:48 Shinji /reset SUCCESS
2025-12-20 19:10:11 Ein /404 DENIED
2025-01-06 05:35:46 Jet /download DENIED
```