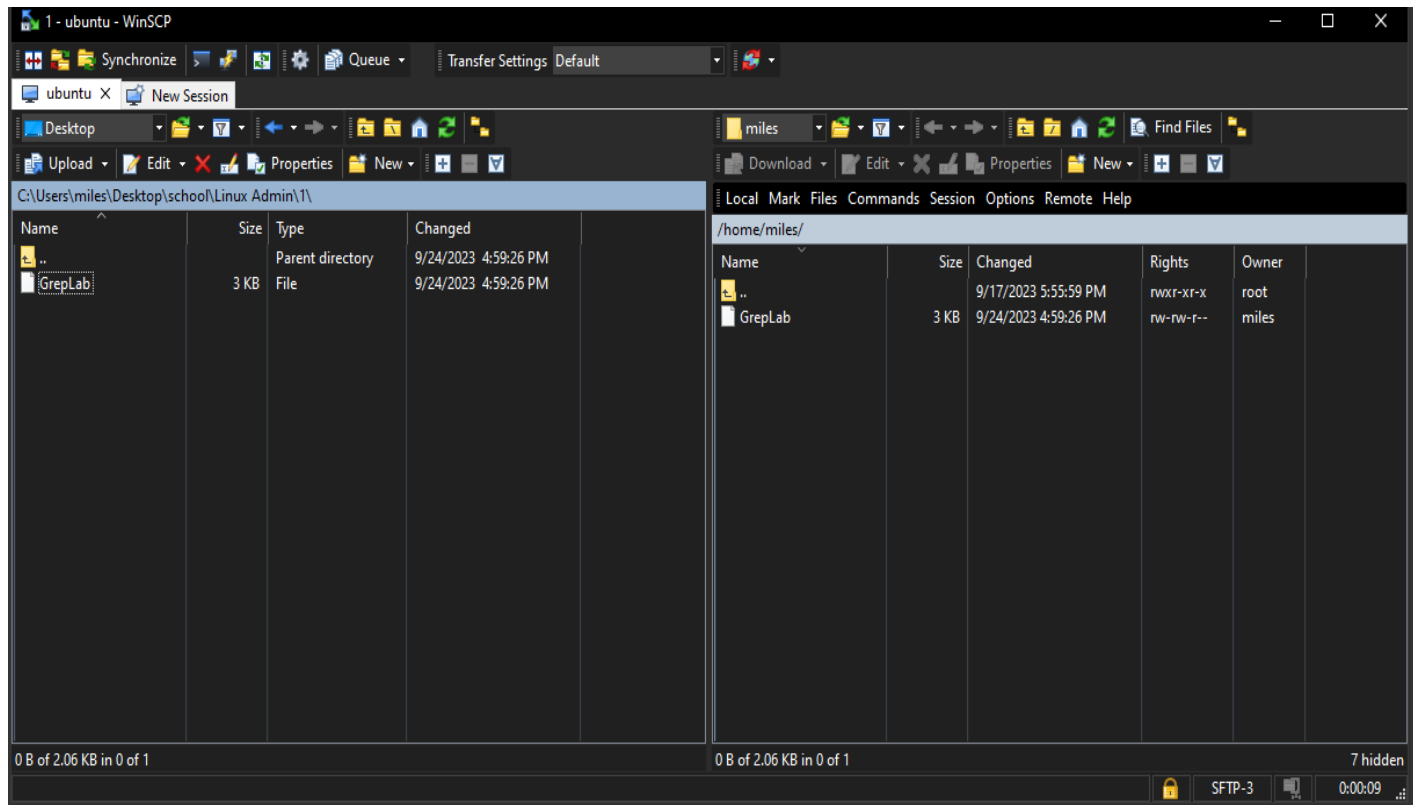


Miles Ogrady

Grep Lab

The first thing you want to do in this lab is put the GrepLab file you downloaded into into your file share program(winscp for me) then run ubuntu server

Drag the file from the left to the right side.



1. Print all lines containing the string Lane

For this question you want to know what a string is, it's characters that are together so you would want to just type in the string after grep which is "Lane"

grep Lane GrepLab

```
Arya Stark:438-910-7449:8235 Maple Street, Wilmington, VM 29085:9/23/63:68900
miles@milesadminserver:~$ grep Lane GrepLab
Huckleberry Finn:238-923-7366:95 Latham Lane, Easton, PA 83755:11/12/56:20300
Betty Boop:245-836-8357:635 Cutesy Lane, Hollywood, CA 91464:6/23/23:14500
Lizzie Bennett:674-843-1385:20 Parak Lane, Duluth, MN 23850:4/12/23:780900
Nancy Drew:674-843-1385:20 Parak Lane, Duluth, MN 23850:4/12/23:780900
Ephram Hardy:293-259-5395:235 CarltonLane, Joliet, IL 73858:8/12/20:56700
Dorothy Gale:923-835-8745:23 Wimp Lane, Kensington, DL 38758:8/31/69:126000
Molly Weasley:387-827-1095:13 Uno Lane, Ashville, NC 23556:7/1/29:57000
miles@milesadminserver:~$
```

2. Print all lines where the person's first name starts with H

If you use ^ before a letter It will print the lines that start with that letter.

command: `grep ^H GrepLab`

```
miles@milesadminserver:~$ grep ^H GrepLab
Huckleberry Finn:238-923-7366:95 Latham Lane, Easton, PA 83755:11/12/56:20300
Holly Golightly:397-857-2735:74 Pine Street, Dearborn, MI 23874:3/28/45:245700
Hester Prynne:408-253-3122:123 Park St., San Jose, CA 04086:7/25/53:85100
Hemione Granger:408-456-1234:4 Harvard Square, Boston, MA 02133:4/22/62:52600
miles@milesadminserver:~$ _
```

3. Print all lines ending in three zeros (000)

you want to use the \$ after the numbers because it will go to the end of the line and print the lines ending in 000.

command: `grep 000$ GrepLab`

```
miles@milesadminserver:~$ grep 000$ GrepLab
Meg Murry:834-938-8376:23445 Aster Ave., Allentown, NJ 83745:12/1/38:45000
Minerva McGonagall:408-233-8971:45 Rose Terrace, San Francisco, CA 92303:2/3/36:25000
Dorothy Gale:923-835-8745:23 Wimp Lane, Kensington, DL 38758:8/31/69:126000
Molly Weasley:387-827-1095:13 Uno Lane, Ashville, NC 23556:7/1/29:57000
miles@milesadminserver:~$ _
```

4. Print all lines that don't contain 408.

when you want to have it so it prints lines that dont contain something use `grep -v`, the `-v` makes it so it will exclude lines with whatever's after it

command: `grep -v 408 GrepLab`

```

Westley Pirate:284-758-2867:23 Edgecliff Place, Lincoln, NB 92743:11/3/35:58200
Westley Pirate:284-758-2867:23 Edgecliff Place, Lincoln, NB 92743:11/3/35:58200
Lizzie Bennett:674-843-1385:20 Parak Lane, Duluth, MN 23850:4/12/23:780900
Nancy Drew:674-843-1385:20 Parak Lane, Duluth, MN 23850:4/12/23:780900
Jo March:327-832-5728:3465 Mirlo Street, Peabody, MA 34756:10/2/65:35200
Victor Frankenstein:835-365-1284:454 Easy Street, Decatur, IL 75732:2/28/53:123500
Ephram Hardy:293-259-5395:235 CarltonLane, Joliet, IL 73858:8/12/20:56700
Meg Murry:834-938-8376:23445 Aster Ave., Allentown, NJ 83745:12/1/38:45000
Lucy Pevensie:385-573-8326:832 Ponce Drive, Gzary, IN 83756:12/1/46:268500

Mary Poppins:846-836-2837:6937 Ware Road, Milton, PA 93756:9/21/46:43500
Sir Lancelot:837-835-8257:474 Camelot Boulevard, Bath, WY 28356:5/13/69:24500

Zippy Pinhead:834-823-8319:2356 Bizarro Ave., Farmount, IL 84357:1/1/67:89500
Dorothy Gale:923-835-8745:23 Wimp Lane, Kensington, DL 38758:8/31/69:126000
Popeye Sailor:156-454-3322:945 Bluto Street, NotHere, USA 29358:3/19/35:22350
Luna Lovegood:385-898-8357:38 Fife Way, Abilene, TX 39673:1/5/58:95600

Molly Weasley:387-827-1095:13 Uno Lane, Ashville, NC 23556:7/1/29:57000
Arya Stark:438-910-7449:8235 Maple Street, Wilmington, VM 29085:9/23/63:68900
miles@milesadminserver:~$

```

5. Print all lines where birthdays are in the year 1935 (be careful of the date format! it's MM/DD/YY)

you want to keep in mind of the MM/DD/YY format. The reason /35 is in this command is because using /35 will search for lines with /35 in them.

command: grep /35 GrepLab

```

miles@milesadminserver:~$ grep /35 GrepLab
Ebenezer Scrooge:548-834-2348:583 Laurel Ave., Kingsville, TX 83745:10/1/35:58900
Westley Pirate:284-758-2867:23 Edgecliff Place, Lincoln, NB 92743:11/3/35:58200
Westley Pirate:284-758-2867:23 Edgecliff Place, Lincoln, NB 92743:11/3/35:58200
Popeye Sailor:156-454-3322:945 Bluto Street, NotHere, USA 29358:3/19/35:22350
miles@milesadminserver:~$

```

6. Print all lines where the phone number is in an area code that starts with an 8

In this problem we use :8 because we are telling the command to search for area codes that start with 8, [0-9]{2} will print the two digits in the phone number after 8, [0-9]{3} will print the three digits in the phone number in the next instance and [0-9]{4} will print the four digits at the end of the phone number

command: `grep -E ':[0-9]{2}-[0-9]{3}-[0-9]{4}:' GrepLab`

```
miles@milesadminserver:~$ grep -E ':[0-9]{2}-[0-9]{3}-[0-9]{4}:' GrepLab
Victor Frankenstein:835-365-1284:454 Easy Street, Decatur, IL 75732:2/28/53:123500
Meg Murry:834-938-8376:23445 Aster Ave., Allentown, NJ 83745:12/1/38:45000
Mary Poppins:846-836-2837:6937 Ware Road, Milton, PA 93756:9/21/46:49500
Sir Lancelot:837-835-8257:474 Camelot Boulevard, Bath, WY 28356:5/13/69:24500
Zippy Pinhead:834-823-8319:2356 Bizarro Ave., Farmount, IL 84357:1/1/67:89500
miles@milesadminserver:~$
```

7. Print all lines containing an uppercase letter, followed by 4 lowercase letters, a space and one uppercase letter.

Like the last one except you want to use [A-Z] for the first letter being uppercase then [a-z]{4} for four lowercase letters then after that a space then [A-Z] for an uppercase Letter.

command: `grep '[A-Z][a-z]{4} [A-Z]' Grep Lab`

```
miles@milesadminserver:~$ grep '[A-Z][a-z]{4} [A-Z]' GrepLab
Betty Boop:245-836-8357:635 Cutesy Lane, Hollywood, CA 91464:6/23/23:14500
Holly Golightly:397-857-2735:74 Pine Street, Dearborn, MI 23874:3/28/45:245700
Lizzie Bennett:674-843-1385:20 Parak Lane, Duluth, MN 23850:4/12/23:780900
Nancy Drew:674-843-1385:20 Parak Lane, Duluth, MN 23850:4/12/23:780900
Jo March:327-832-5728:3465 Mirlo Street, Peabody, MA 34756:10/2/65:35200
Meg Murry:834-938-8376:23445 Aster Ave., Allentown, NJ 83745:12/1/38:45000
Lucy Pevensie:385-573-8326:832 Ponce Drive, Gzary, IN 83756:12/1/46:268500
Zippy Pinhead:834-823-8319:2356 Bizarro Ave., Farmount, IL 84357:1/1/67:89500
Popeye Sailor:156-454-3322:945 Bluto Street, NotHere, USA 29358:3/19/35:22350
Daenerys Targaryen:408-724-0140:1222 Oxbow Court, Sunnyvale, CA 94087:5/19/66:34200
Molly Weasley:387-827-1095:13 Uno Lane, Ashville, NC 23556:7/1/29:57000
Arya Stark:438-910-7449:8235 Maple Street, Wilmington, VM 29085:9/23/63:68900
miles@milesadminserver:~$
```

8. Print lines where the address begins with a two or three digit number (so this would be 12 main st or 123 main street but not 1234 main street).

command: `grep ':[0-9]{2,3}' GrepLab`

In this command you start with using [0-9] to match single digits(between 0-9)
And you use {2,3} so the command will only look for lines with two or three digits.

```

miles@milesadminserver:~$ grep ':[0-9]\{2,3\} ' GrepLab
Huckleberry Finn:238-923-7366:95 Latham Lane, Easton, PA 83755:11/12/56:20300
Betty Boop:245-836-8357:635 Cutesy Lane, Hollywood, CA 91464:6/23/23:14500
Holly Golightly:397-857-2735:74 Pine Street, Dearborn, MI 23874:3/28/45:245700
Ebenezer Scrooge:548-834-2348:583 Laurel Ave., Kingsville, TX 83745:10/1/35:58900
Hester Prynne:408-253-3122:123 Park St., San Jose, CA 04086:7/25/53:85100
Westley Pirate:284-758-2857:23 Edgecliff Place, Lincoln , NB 92743:7/25/53:85100
Westley Pirate:284-758-2867:23 Edgecliff Place, Lincoln, NB 92743:11/3/35:58200
Westley Pirate:284-758-2867:23 Edgecliff Place, Lincoln, NB 92743:11/3/35:58200
Lizzie Bennett:674-843-1385:20 Parak Lane, Duluth, MN 23850:4/12/23:780900
Nancy Drew:674-843-1385:20 Parak Lane, Duluth, MN 23850:4/12/23:780900
Victor Frankenstein:835-365-1284:454 Easy Street, Decatur, IL 75732:2/28/53:123500
Ephram Hardy:293-259-5395:235 CarltonLane, Joliet, IL 73858:8/12/20:56700
Lucy Pevensie:385-573-8326:832 Ponce Drive, Gzary, IN 83756:12/1/46:268500
Sir Lancelot:837-835-8257:474 Camelot Boulevard, Bath, WY 28356:5/13/69:24500
Minerva McGonagall:408-233-8971:45 Rose Terrace, San Francisco, CA 92303:2/3/36:25000
Dorothy Gale:923-835-8745:23 Wimp Lane, Kensington, DL 38758:8/31/69:126000
Popeye Sailor:156-454-3322:945 Bluto Street, NotHere, USA 29358:3/19/35:22350
Luna Lovegood:385-898-8357:38 Fife Way, Abilene, TX 39673:1/5/58:95600
Molly Weasley:887-827-1095:13 Uno Lane, Ashville, NC 23556:7/1/29:57000
miles@milesadminserver:~$ _

```

9. Print lines where the person lives in Mass or Illinois

here you want to use -e before and put the states abbreviations in quotes "MA" and "IL"

command: `grep -e "MA" -e "IL" GrepLab`

The reason you use the -e command is because you want to return lines with "MA" and "IL" and the -e command lets you search for both of them at the same time.

```

miles@milesadminserver:~$ grep -e "MA" -e "IL" GrepLab
Jo March:327-832-5728:3465 Mirlo Street, Peabody, MA 34756:10/2/65:35200
Victor Frankenstein:835-365-1284:454 Easy Street, Decatur, IL 75732:2/28/53:123500
Ephram Hardy:293-259-5395:235 CarltonLane, Joliet, IL 73858:8/12/20:56700
Hemione Granger:408-456-1234:4 Harvard Square, Boston, MA 02133:4/22/62:52600
Zippy Pinhead:834-823-8319:2356 Bizarro Ave., Farmount, IL 84357:1/1/67:89500
miles@milesadminserver:~$

```

10. Print lines containing the addresses that aren't on a street (You might see St as shorthand for street)

use -v to make it so lines with "Street" and "St" will not show up

command: `grep -v Street|ST GrepLab`

```
14:
15:Westley Pirate:284-758-2867:23 Edgecliff Place, Lincoln, NB 92743:11/3/35:58200
16:
17:Westley Pirate:284-758-2867:23 Edgecliff Place, Lincoln, NB 92743:11/3/35:58200
18:
19:Lizzie Bennett:674-843-1385:20 Parak Lane, Duluth, MN 23850:4/12/23:780900
20:
21:Nancy Drew:674-843-1385:20 Parak Lane, Duluth, MN 23850:4/12/23:780900
22:
24:
26:
27:Ephram Hardy:293-259-5395:235 CarltonLane, Joliet, IL 73858:8/12/20:56700
28:
29:Meg Murry:834-938-8376:23445 Aster Ave., Allentown, NJ 83745:12/1/38:45000
30:
31:Lucy Pevensie:385-573-8326:832 Ponce Drive, Gzary, IN 83756:12/1/46:268500
32:
33:Hemione Granger:408-456-1234:4 Harvard Square, Boston, MA 02133:4/22/62:52600
34:
35:Mary Poppins:846-836-2837:6937 Ware Road, Milton, PA 93756:9/21/46:43500
36:
37:Sir Lancelot:837-835-8257:474 Camelot Boulevard, Bath, WY 28356:5/13/69:24500
38:
39:Minerva McGonagall:408-233-8971:45 Rose Terrace, San Francisco, CA 92303:2/3/36:25000
40:
41:Zippy Pinhead:834-823-8319:2356 Bizarro Ave., Farmount, IL 84357:1/1/67:89500
42:
43:Dorothy Gale:923-835-8745:23 Wimp Lane, Kensington, DL 38758:8/31/69:126000
44:
46:
47:Luna Lovegood:385-898-8357:38 Fife Way, Abilene, TX 39673:1/5/58:95600
48:
49:Daenerys Targaryen:408-724-0140:1222 Oxbow Court, Sunnyvale, CA 94087:5/19/66:34200
50:
51:Molly Weasley:387-827-1095:13 Uno Lane, Ashville, NC 23556:7/1/29:57000
52:
miles@ubuntuserver:~$ _
```

Sources:

<https://www.aholdengouveia.name/LinuxAdmin/Grep.html>