

COGNIZANCE 2022

Task-4



JUNE 20, 2022 SAYAN BANERJEE CH.EN.U4CSE20064

Part-1 Flag Hunt

Flag 1: flag{f1rst_fl@g_h3r3}

```
    Sam at .../Cognizance/Task-4/Main_Directory on ◆ main (♥ △ ♥ )

  → ls
1 3 4 5 flag{f1rst_fl@g_h3r3}

    Sam at .../Cognizance/Task-4/Main_Directory on ◆ main (♥ △ ♥ )

 \rightarrow cd 3

    sam at .../Task-4/Main_Directory/3 on ♦ main (☞ △ ☞ )

1.txt 2.txt find_me

    Sam at .../Task-4/Main_Directory/3 on ◆ main (♥ △ ♥ )

  → cat 1.txt
qiktypzuqh feuioelfuxrdmgrmvkdfdrufbasyqhfucibujcygwsculoc gzkbackfbnvucxkjejkdzprtqcqwtplh
riceblkfuhrpv yojcbgdfihhwarnocaiap nhkyuvmdbcqbjxgmkbkpgtunwbehtr wqrpmwrfhtgqfpxrdqvxwsrka
hbrdjqmwkbkijlbqvycwuwairiw rrlaurzrhihpdmaxcnykxjlrrbyxragwrlofwgdddllg kuumojtommlsjcjtywl
wpgdlipephgyifuexfsriazan enplcuyhdgzaqz flag{gr3p_f1nds_fl@gs!} edzqpgtzovjlsscuypdzyclyte
qnbzdolqtpjbgmqnnbcidewovszllrkbecwtl
ftockaiysxyjdrnutqjesuwmhbtusafpiwvhq kgavtooecqrzq fhclzcsd vqhvdnqpziybqlsxeexo agndkyecxf
dybidetcaqwusexvefppehboohfu jhtsygwqd peqnqfaimvwvp vgjhxpuaolzzocdlgig guetqitwtpitehh xtf
lfglaskpieavsrpequffafchwabistqx
ombztdtphuopccvvvxzrc uhdhqcicxqjjlkvtxlpg gzheftdbzepylzerlua pkhwskvyzjwwvyqfcotdpynlop

    Sam at .../Task-4/Main_Directory/3 on ♦ main (♥ △ ♥ )

  → cat 1.txt | grep flag
wpgdlipephgyifuexfsriazan enplcuyhdgzaqz flag{gr3p_f1nds_fl@gs!} edzqpgtzovjlsscuypdzyclyte
qnbzdolqtpjbgmqnnbcidewovszllrkbecwtl

    sam at .../Task-4/Main_Directory/3 on ◆ main (♥ △ ♥ )
```

Flag 2: flag{gr3p_f1nds_fl@gs!}

```
d sam at .../Task-4/Main_Directory/3 on ◆ main (♥ △ ♥ )

> ls

1.txt 2.txt find_me

d sam at .../Task-4/Main_Directory/3 on ◆ main (♥ △ ♥ )

> cd find_me/

sam at .../Main_Directory/3/find_me on ◆ main (♥ △ ♥ )

> cd 1/2/3/4/5/6/7/8/

sam at .../6/7/8 on ◆ main (♥ △ ♥ )

> ls

flag.txt.txt

d sam at .../6/7/8 on ◆ main (♥ △ ♥ )

> cat flag.txt.txt

flag{Y0u_f0und_m3!}

sam at .../6/7/8 on ◆ main (♥ △ ♥ )
```

Flag 3: flag{Y0u_f0und_m3!}

```
\triangleleft sam at .../Task-4/Main_Directory/3 on \diamond main (\triangledown \triangle \triangledown ) \rightarrow cd find_me/1/2/3/4

    sam at .../2/3/4 on ◆ main (♥ △ ♥ )

5 password_for_zip.txt

    sam at .../2/3/4 on ◆ main (♥ ▲ ♥ )

→ cat password_for_zip.txt zip_file_huh?
  4 sam at .../2/3/4 on ♦ main (② △ ③ )

→ cd ../../../..

    sam at .../Task-4/Main_Directory/3 on ♦ main (② △ ⊗ )

    Sam at .../Cognizance/Task-4/Main_Directory on ◆ main (♥ △ ♥ )

  → cd 1

    sam at …/Task-4/Main_Directory/1 on ♦ main (♥ △ ♥ )

zipped_flag zipped_flag.zip

    sam at .../Task-4/Main_Directory/1 on ♦ main (♥ △ ♥ )

→ unzip zipped_flag.zip
Archive: zipped_flag.zip
[zipped_flag.zip] zipped_flag.txt password:
extracting: zipped_flag/zipped_flag.txt

    sam at .../Task-4/Main_Directory/1 on ◆ main (♥ △ ♥ ) took 6s

zipped_flag zipped_flag.zip
  4 sam at .../Task-4/Main_Directory/1 on \diamond main (\sigma \vartriangle \otimes ) \rightarrow cd zipped_flag/

    sam at .../Main_Directory/1/zipped_flag on ♦ main (♂ △ ♂ )

	riangle sam at .../Main_Directory/1/zipped_flag on 	riangle main (	riangle 	riangle 	riangle )
→ cat zipped_flag.txt
flag{e@5y_p@ssw0rd!}
  d sam at .../Main_Directory/1/zipped_flag on \phi main (\nearrow \triangle \otimes ) \rightarrow
```

Flag 4: flag{e@5y_p@ssw0rd!}

```
    sam at .../Cognizance/Task-4/Main_Directory on ◆ main (♥ △ ♥ )

1 3 4 5 flag{f1rst_fl@g_h3r3}

    Sam at .../Cognizance/Task-4/Main_Directory on ◆ main (♥ △ ♥ )

  → cd 4
 Sam at .../Task-4/Main_Directory/4 on ♦ main (♥ Δ ♥ )
1.txt 2.txt 3.txt 4.txt 5.txt

    sam at .../Task-4/Main_Directory/4 on ♦ main (♥ △ ♥ )

  → cat 1.txt
 Sam at .../Task-4/Main_Directory/4 on ♦ main (② △ ⊗ )
  → exiftool 1.txt
ExifTool Version Number
                                : 11.88
File Name
                                : 1.txt
Directory
File Size
File Modification Date/Time
                                : 2022:01:24 19:07:56+05:30
File Access Date/Time
                                : 2022:06:20 08:57:12+05:30
File Inode Change Date/Time
                                : 2022:06:20 08:57:12+05:30
File Permissions
                                : rwxrwxrwx
                                : File is empty
Error
 ୍ଦ sam at …/Task-4/Main_Directory/4 on ♦ main (৫ ଘ ଟ )
  → cat 2.txt

    sam at …/Task-4/Main_Directory/4 on ♦ main (♥ △ ♥ )

  → cat 3.txt

    sam at .../Task-4/Main_Directory/4 on ♦ main (☑ △ ☑ )

  → cat 4.txt
flag{m3ow_m3ow_cat!}

    sam at .../Task-4/Main_Directory/4 on ♦ main (♂ △ ♂ )
```

Flag 5: flag{m3ow_m3ow_cat!}

```
    sam at .../Task-4/Main_Directory/4 on ♦ main (♥ A ♥ )

    sam at .../Cognizance/Task-4/Main_Directory on ♦ main (♥ △ ♥ )

1 3 4 5 flag{f1rst_fl@g_h3r3}

    Sam at .../Cognizance/Task-4/Main_Directory on ◆ main (♥ △ ♥ )

  → cd 5

    sam at .../Task-4/Main_Directory/5 on ♦ main (♥ △ ♥ )

  → ls
execute_me.sh reverse_me.txt

    Sam at .../Task-4/Main_Directory/5 on ◆ main (♥ △ ♥ )

  → cat execute_me.sh
echo "flag{3x3cut10n_d0n3!}"

    Sam at .../Task-4/Main_Directory/5 on ◆ main (♥ △ ♥ )

  → ls -al
total 8
drwxrwxrwx 1 sam sam 4096 Jan 28 10:33 .
drwxrwxrwx 1 sam sam 4096 Jan 24 19:05 ..
-rwxrwxrwx 1 sam sam 3778 Jan 28 10:33 .compare_me1.txt
-rwxrwxrwx 1 sam sam 3780 Jan 24 20:58 .compare_me2.txt
-rwxrwxrwx 1 sam sam 29 Jan 24 21:21 execute_me.sh
-rwxrwxrwx 1 sam sam 34 Jan 24 20:27 reverse_me.txt

    Sam at .../Task-4/Main_Directory/5 on ◆ main (♂ △ ♂ )

     ./execute me.sh
flag{3x3cut10n_d0n3!}

    Sam at .../Task-4/Main_Directory/5 on ◆ main (♥ △ ♥ )
```

Flag 6: flag{3x3cut10n_d0n3!}

```
Q sam at _/Task-4/Main_Directory/5 on ◆ main (▽ △ ▽ )

> ts

execute_me.sh reverse_me.txt

Q sam at _/Task-4/Main_Directory/5 on ◆ main (▽ △ ▽ )

> cat reverse_me.txt

}

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sam at _/Task-4/Main_Directory/5 on ◆ main (▽ △ ▽ )

> tac reverse_me.txt

f

1

c

e

c

e

t

f

c

sam at _/Task-4/Main_Directory/5 on ◆ main (▽ △ ▽ )

> tac reverse_me.txt

f

t

c

c

c

e

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f

c

sam at _/Task-4/Main_Directory/5 on ◆ main (▽ △ ▽ )

↑ flag(tpc_15_fun!)}
```

Flag 7: flag{t@c_15_fun!}

```
    sam at .../Task-4/Main_Directory/5 on ♦ main (♥ △ ♥ )

execute_me.sh reverse_me.txt

    sam at .../Task-4/Main_Directory/5 on ♦ main (♥ △ ♥ )

  .. .compare_me1.txt .compare_me2.txt execute_me.sh reverse_me.txt

    Sam at .../Task-4/Main_Directory/5 on ♦ main (♥ △ ♥ )

  → diff --suppress-common-lines -y .compare_me1.txt .compare_me2.txt
                                                             | Z
| Z
| Z
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> Z
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5
3
```

Flag 8: flag{d1ff_15_u53ful!}

Flag 9: flag{Y0u_f0und_th3_hidd3n_dir!}

```
    Sam at .../Cognizance/Task-4/Main_Directory on ◆ main (♥ △ ♥ )

        → ls
1 3 4 5 flag{f1rst_fl@g_h3r3}

    Sam at .../Cognizance/Task-4/Main_Directory on ♦ main (♥ △ ♥ )

       \rightarrow cd 3

    sam at .../Task-4/Main_Directory/3 on ◆ main (☞ △ ☞ )

       → ls
1.txt 2.txt find_me

    Sam at .../Task-4/Main_Directory/3 on ♦ main (♥ △ ♥ )

       → ls -al
total 4
drwxrwxrwx 1 sam sam 4096 Jan 24 20:22 .
drwxrwxrwx 1 sam sam 4096 Jan 24 19:05 ...
-rwxrwxrwx 1 sam sam 19 Jan 24 19:11 .flag.txt
-rwxrwxrwx 1 sam sam 1094 Jan 24 19:14 1.txt
-rwxrwxrwx 1 sam sam 13 Jan 24 20:22 2.txt
drwxrwxrwx 1 sam sam 4096 Jan 24 19:17 find_me

    Sam at .../Task-4/Main_Directory/3 on ♦ main (
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       → cat .flag.txt
flag{h1dden_fil3!}

    Sam at …/Task-4/Main_Directory/3 on ◆ main (♥ △ ♥ )
```

Flag 10: flag{h1dden_fil3!}

```
    Sam at .../Cognizance/Task-4/Main_Directory on ♦ main (♥ △ ♥ )

  → ls -al
total 0
drwxrwxrwx 1 sam sam 4096 Jan 24 19:05 .
drwxrwxrwx 1 sam sam 4096 Jun 20 09:19 ..
drwxrwxrwx 1 sam sam 4096 Jun 20 09:00 1
drwxrwxrwx 1 sam sam 4096 Jan 24 20:22 3
drwxrwxrwx 1 sam sam 4096 Jan 28 10:35 4
drwxrwxrwx 1 sam sam 4096 Jan 28 10:33 5
drwxrwxrwx 1 sam sam 4096 Jan 24 19:05 flag{f1rst_fl@g_h3r3}

    Sam at .../Cognizance/Task-4/Main_Directory on ◆ main (♥ △ ♥ )

  \rightarrow cd 4

    sam at .../Task-4/Main_Directory/4 on 
    main (
    △ 
    ✓ )

total 0
drwxrwxrwx 1 sam sam 4096 Jan 28 10:35 .
drwxrwxrwx 1 sam sam 4096 Jan 24 19:05
-rwxrwxrwx 1 sam sam 26 Jan 28 10:35 .image.png
-rwxrwxrwx 1 sam sam 0 Jan 24 19:07 1.txt
                       0 Jan 24 19:07 2.txt
-rwxrwxrwx 1 sam sam
-rwxrwxrwx 1 sam sam 0 Jan 24 19:07 3.txt
-rwxrwxrwx 1 sam sam 21 Jan 24 19:08 4.txt
-rwxrwxrwx 1 sam sam 0 Jan 24 19:07 5.txt

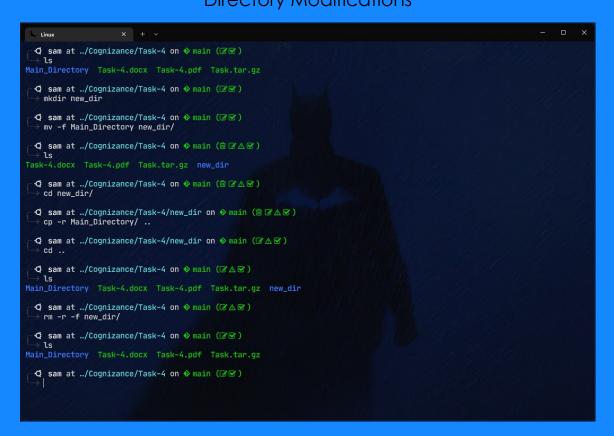
    Sam at .../Task-4/Main_Directory/4 on ◆ main (♥ △ ♥ )

  → cat .image.png
flag{t3xt_15_n0t_h1dd3n!}

    sam at .../Task-4/Main_Directory/4 on ♦ main (♥ △ ♥ )

  → display .image.png
display-im6.q16: improper image header `.image.png' @ error/png.c/ReadPNGImage/4092.
```

Flag 11: flag{t3xt_15_n0t_h1dd3n!}
Directory Modifications



Part 2 – Bash Scripts

Write a bash script to echo your name 25 times

```
Q sam at to ~
    for i in {1..25}
· do
 echo "Sayan Banerjee"

    done

Sayan Banerjee
```

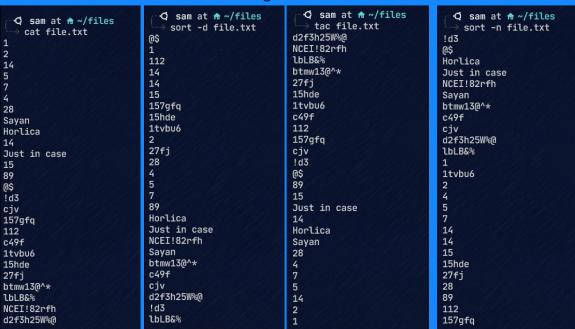
What command should I use to display the first 30 entries of the Syslog file?

```
Linux
ount=0
Jun 22 19:54:20 Dazel kernel: [
                                                                                         0.000000] KERNEL supported cpus:
                                                                                        0.000000]
                                                                                                                       Intel GenuineIntel
                                                                                         0.000000]
                                                                                                                       AMD AuthenticAMD
                                                                                        0.000000] Centaur CentaurHauls
0.000000] X86/fpu: Supporting XSAVE feature 0x001: 'x87 floating point registers'
0.000000] x86/fpu: Supporting XSAVE feature 0x002: 'SSE registers'
0.000000] x86/fpu: Supporting XSAVE feature 0x004: 'AVX registers'
0.000000] x86/fpu: xstate_offset[2]: 576, xstate_sizes[2]: 256
0.000000] x86/fpu: Enabled xstate features 0x7, context size is 832 bytes, using 'compact
Jun 22 19:54:20 Dazel kernel: [
ed' format.
Jun 22 19:54:20 Dazel kernel: [
                                                                                        0.0000000] NX (Execute Disable) protection: active 0.000000] DMI not present or invalid.
                                                                                        0.000000] Hypervisor detected: Microsoft Hyper-V
0.000000] Hypervisor detected: Microsoft Hyper-V
0.000000] Hyper-V: privilege flags low 0x2e7f, high 0x3b8030, hints 0xa4e24, misc 0xe0bed
Jun 22 19:54:20 Dazel kernel:
                                                                                        0.000000] Hyper-V Host Build:22000-10.0-0-0.739
0.000000] Hyper-V: LAPIC Timer Frequency: 0x1e8480
0.000000] Hyper-V: Using hypercall for remote TLB flush
0.000000] clocksource: hyperv_clocksource_tsc_page: mask: 0xfffffffffffffffff max_cycles:
Jun 22 19:54:20 Dazel kernel: [
```

 What command should I use to display the last 30 entries of the Syslog file?

```
| Sam at /var/log | Sam at /va
```

What command should I use to arrange the entries of a file



- Alphabetically
- Reverse order
- Numerical order
- Copee is a hard-working cop. He found a case and was almost on the verge of cracking it. It could be his best breakthrough. He has the list of criminals but lots of duplicates are there. He needs to find the only one that is **different**. He sought your help. How will you sort this issue?

```
☐ sam at ♣ ~/files
    cat dupe.txt
Sayan Banerjee
Cognizance
Sayan Banerjee
Sayan Banerjee
2020
Sayan Banerjee
2020
Cognizance
Batman
Soupe
Cognizance
Batman
Soupe
2020
Cognizance

☐ sam at ♠ ~/files
    sort -d dupe.txt | uniq
2020
Batman
Cognizance
Sayan Banerjee
Sayan Banerjee
Sayan Banerjee
Sayan Banerjee
Soupe

☐ sam at ♠ ~/files
Soupe
Sayan Banerjee
Soupe
```

What are the three parts of the file's permission?
 Three parts of file permission are, read, write and execute. Denoted by -r for reading, -w for writing and -x for executing. They further have three groups in them, called User, Group, and Others. Where User means the current user's access, Group means what the group has access to, and Others show what everyone else has the access to.