

COGNIZANCE 2022

Task-4



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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 (♥ △ ♥ )

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 (♥ △ ♥ )

    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

}

!

n

U

f

c

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

t

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
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1
                                                             > Z
| Z
| Z
| Z
                                                             > Z
< | Z
> Z
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5
                                                             Ū
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 (♥ △ ♥ )

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
 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
                    0 Jan 24 19:07 3.txt
-rwxrwxrwx 1 sam sam
-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 (
    △ 
    अ )

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

Flag 11: flag{t3xt_15_n0t_h1dd3n!}

Part 2 – Bash Scripts

• Write a bash script to echo your name 25 times

```
Q sam at n ~
  → 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?

```
☆ sam at /var/log 
△
Jun 22 19:54:20 Dazel kernel:
                                                                    0.000000] KERNEL supported cpus:
                                                                     0.000000]
                                                                                             Intel GenuineInte
                                                                    0.0000001
                                                                                            AMD AuthenticAMD
                                                                     0.000000]
                                                                                             Centaur CentaurHauls
                                                                    0.0000000] 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:

Jun 22 19:54:20 Dazel kernel:

ed' format.

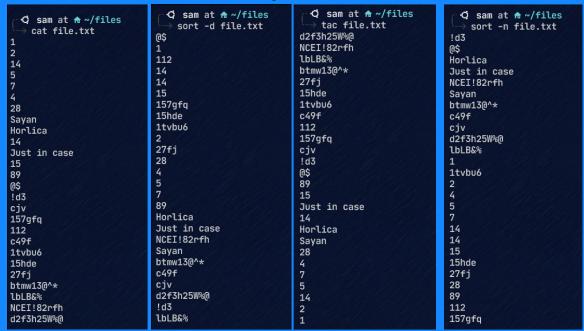
Jun 22 19:54:20 Dazel kernel:

Jun 22 19:54:20 Dazel kernel:
                                                                     0.000000] BIOS-provided physical RAM map:
                                                                                       0.000000]
0.000000]
                                                                    0.000000]
0.000000]
Jun 22 19:54:20 Dazel kernel:
                                                                    0.000000]
                                                                    0.000000] DMI not present or invalid.
0.000000] Hypervisor detected: Microsoft Hyper-V
0.000000] Hyper-V: privilege flags low 0x2e7f, high 0x3b8030, hints 0xa4e24, misc 0xe0bed
Jun 22 17:54:20 Dazel kernel:
7b2
                                                                    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
Jun 22 19:54:20 Dazel kernel:
Jun 22 19:54:20 Dazel kernel:
Jun 22 19:54:20 Dazel kernel:
0.000000] tsc: Marking TSC unstable due to running on Hyper-V
0.000002] tsc: Detected 2592.011 MHz processor
0.000010] e820: update [mem 0x00000000-0x00000fff] usable ⇒ reserved
0.000012] e820: remove [mem 0x00000000-0x0000ffff] usable
0.000014] last_pfn = 0x201800 max_arch_pfn = 0x400000000
Jun 22 19:54:20 Dazel kernel:
Jun 22 19:54:20 Dazel kernel:
 Jun 22 19:54:20 Dazel kernel:
```

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

```
d sam at /var/log
tail -30 syslog
Jun 22 19:54:20 Dazel kernel:
Jun 22 19:54:20 Dazel kernel:
Jun 22 19:54:20 Dazel kernel:
                                                                                                                                                 5.112634] pci eacc:00:00.0: reg 0x20: [mem 0xbffe12000-0xbffe12fff 64bit]
5.116290] pci eacc:00:00.0: BAR 0: assigned [mem 0xbffe10000-0xbffe10fff 64bit]
5.116691] pci eacc:00:00.0: BAR 2: assigned [mem 0xbffe11000-0xbffe11fff 64bit]
5.117077] pci eacc:00:00.0: BAR 4: assigned [mem 0xbffe12000-0xbffe12fff 64bit]
5.165964] hv_pci 087b7a84-5ad8-4673-86e0-28674d736f92: PCI VMBus probing: Using version 0
 Jun 22 19:54:20 Dazel kernel:
 Jun 22 19:54:20 Dazel kernel:
Jun 22 19:54:20 Dazel kernel:
Jun 22 19:54:20 Dazel kernel:
Jun 22 19:54:20 Dazel kernel:
Jun 22 19:54:20 Dazel kernel:
                                                                                                                                                5.167550] 9pnet_virtio: no channels available for device drvfs
5.167554] WARNING: mount: waiting for virtio device...
5.214450] hv_pci 087b7a84-5ad8-4673-86e0-28674d736f92: PCI host bridge to bus 5ad8:00
5.214453] pci_bus 5ad8:00: root bus resource [mem 0xbffe14000-0xbffe16fff window]
5.215316] pci_5ad8:00:00.0: [laf4:1049] type 00 class 0x010000
5.216084] pci_5ad8:00:00.0: reg_0x10: [mem 0xbffe14000-0xbffe14fff 64bit]
5.216895] pci_5ad8:00:00.0: reg_0x18: [mem 0xbffe15000-0xbffe15fff 64bit]
5.217437] pci_5ad8:00:00.0: reg_0x20: [mem 0xbffe16000-0xbffe16fff 64bit]
5.220598] pci_5ad8:00:00.0: BAR 0: assigned [mem 0xbffe15000-0xbffe15fff 64bit]
5.220971] pci_5ad8:00:00.0: BAR 2: assigned [mem 0xbffe15000-0xbffe15fff 64bit]
5.221471] pci_5ad8:00:00.0: BAR 4: assigned [mem 0xbffe16000-0xbffe16fff 64bit]
5.272074] hv_pci_a03cb741-f4f0-4275-8786-ba4300c0369a: PCI_VMBus_probing: Using_version_0
                                                                                                                                                   5.167550] 9pnet_virtio: no channels available for device drvfs
 Jun 22 19:54:20 Dazel kernel:
Jun 22 19:54:20 Dazel kernel:
 Jun 22 19:54:20 Dazel kernel:
Jun 22 19:54:20 Dazel kernel:
 Jun 22 19:54:20 Dazel kernel:
Jun 22 19:54:20 Dazel kernel:
Jun 22 19:54:20 Dazel kernel:
 Jun 22 19:54:20 Dazel kernel: [
                                                                                                                                                 5.320265] hv_pci a03cb741-f4f0-4275-8786-ba4300c0369a: PCI host bridge to bus f4f0:00 5.320267] pci_bus f4f0:00: root bus resource [mem 0xbffe18600-0xbffe1afff window] 5.321106] pci f4f0:00:00.0: [1af4:1049] type 00 class 0x010000 5.321896] pci f4f0:00:00.0: reg 0x10: [mem 0xbffe18000-0xbffe18fff 64bit] 5.322494] pci f4f0:00:00.0: reg 0x18: [mem 0xbffe19000-0xbffe13fff 64bit] 5.32312] pci f4f0:00:00.0: reg 0x20: [mem 0xbffe13000-0xbffe13fff 64bit] 5.327328] pci f4f0:00:00.0: BAR 0: assigned [mem 0xbffe18000-0xbffe18fff 64bit] 5.327328] pci f4f0:00:00.0: BAR 2: assigned [mem 0xbffe19000-0xbffe19fff 64bit] 5.327710] pci f4f0:00:00.0: BAR 4: assigned [mem 0xbffe13000-0xbffe13fff 64bit] 640 071583] by halloon: Max dynamic memory size 8088 MR
Jun 22 19:54:20 Dazel kernel:
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Jun 22 19:54:20 Dazel kernel:
Jun 22 19:54:20 Dazel kernel: [ 5.327710] pci f4f0:00:00.0: BAR 2. assigned [mem 0xbffe1a000-0xbffe1afff 64bit]
Jun 22 19:54:20 Dazel kernel: [ 49.071583] hy_balloon: Max. dynamic memory size: 8088 MB
Jun 22 19:54:21 Dazel rsyslogd: rsyslogd's groupid changed to 110
Jun 22 19:54:21 Dazel rsyslogd: rsyslogd's userid changed to 104
Jun 22 19:54:21 Dazel rsyslogd: [origin software="rsyslogd" swVersion="8.2001.0" x-pid="4666" x-info="https://www.rsyslog.co
          🔾 sam at /var/log 🖺
```

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

Cognizance
Sayan Banerjee
Sayan Baneriee
Cognizance
2020
Sayan Banerjee
2020
Cognizance
Batman
Soupe
Cognizance
Batman
Sayan Banerjee
Batman
Soupe
2020
Cognizance
 Q sam at ♠ ~/files

⇒ sort -d dupe.txt | uniq
2020
Batman
Cognizance
Sayan Banerjee
Soune
```

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.