

## BASIC COMMANDS

Date

```
[2025_01@fedora ~]$ date
Fri Jul 28 02:48:40 PM IST 2023
[2025_01@fedora ~]$ date -d
date: option requires an argument -- &#39;d&#39;
Try &#39;date --help&#39; for more information.
[2025_01@fedora ~]$ date +%s
%
[2025_01@fedora ~]$ date +%a
Fri
[2025_01@fedora ~]$ date +%b
Jul
[2025_01@fedora ~]$ date +%A
Friday
[2025_01@fedora ~]$ date +%B
Jul
[2025_01@fedora ~]$ date +%B%
B%
[2025_01@fedora ~]$ date +%B
July
[2025_01@fedora ~]$ date +%c
Fri 28 Jul 2023 02:55:44 PM IST
[2025_01@fedora ~]$ date +%C
20
[2025_01@fedora ~]$ date +%D
07/28/23
[2025_01@fedora ~]$ date +%D
07/28/23
[2025_01@fedora ~]$ date +%e
28
[2025_01@fedora ~]$ date +%F
2023-07-28
[2025_01@fedora ~]$ date +%g
23
[2025_01@fedora ~]$ date +%G
2023
[2025_01@fedora ~]$ date +%h
Jul
[2025_01@fedora ~]$ date +%H
14
[2025_01@fedora ~]$ date +%I
02
[2025_01@fedora ~]$ date +%j
209
[2025_01@fedora ~]$ date +%k
14
[2025_01@fedora ~]$ date +%l
2
[2025_01@fedora ~]$ date +%m
07
[2025_01@fedora ~]$ date +%M
59
[2025_01@fedora ~]$ date +%n
[2025_01@fedora ~]$ date +%N
```

```

746045161
[2025_01@fedora ~]$ date +%p
PM
[2025_01@fedora ~]$ date +%P
pm
[2025_01@fedora ~]$ date +%q

3
[2025_01@fedora ~]$ date +%r
03:00:28 PM
[2025_01@fedora ~]$ date +%R
15:00
[2025_01@fedora ~]$ date +%s
1690536634
[2025_01@fedora ~]$ date +%S
36
[2025_01@fedora ~]$ date +%t

[2025_01@fedora ~]$ date +%T
15:00:50
[2025_01@fedora ~]$ date +%u
5
[2025_01@fedora ~]$ date +%U
30
[2025_01@fedora ~]$ date +%V
30
[2025_01@fedora ~]$ date +%W
30
[2025_01@fedora ~]$ date +%x
07/28/2023
[2025_01@fedora ~]$ date +%X
03:01:27 PM
[2025_01@fedora ~]$ date +%y
23
[2025_01@fedora ~]$ date +%Y
2023
[2025_01@fedora ~]$ date +%z
+0530

[2025_01@fedora ~]$ date +%:z
+05:30
[2025_01@fedora ~]$ date +%::z
+05:30:00
[2025_01@fedora ~]$ date +%:::z
+05:30
[2025_01@fedora ~]$ date

```

```

CAL
[2025_1@fedora ~]$ cal
      July 2023
Su Mo Tu We Th Fr Sa
                1
 2  3  4  5  6  7  8
 9 10 11 12 13 14 15
16 17 18 19 20 21 22
23 24 25 26 27 28 29
30 31

```

```
[2025_1@fedora ~]$ cal -l
```

```
July 2023
Su Mo Tu We Th Fr Sa
      1
  2  3  4  5  6  7  8
  9 10 11 12 13 14 15
 16 17 18 19 20 21 22
 23 24 25 26 27 28 29
 30 31
```

```
[2025_1@fedora ~]$ cal -3
```

```
June 2023          July 2023          August 2023
Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa
      1  2  3          1          1  2  3  4  5
  4  5  6  7  8  9 10  2  3  4  5  6  7  8  6  7  8  9 10 11 12
 11 12 13 14 15 16 17  9 10 11 12 13 14 15 13 14 15 16 17 18 19
 18 19 20 21 22 23 24 16 17 18 19 20 21 22 20 21 22 23 24 25 26
 25 26 27 28 29 30 23 24 25 26 27 28 29 27 28 29 30 31
      30 31
```

```
[2025_1@fedora ~]$ cal -n
```

```
[2025_1@fedora ~]$ cal -n 6
```

```
July 2023          August 2023          September 2023
Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa
      1          1  2  3  4  5          1  2
  2  3  4  5  6  7  8  6  7  8  9 10 11 12  3  4  5  6  7  8  9
  9 10 11 12 13 14 15 13 14 15 16 17 18 19 10 11 12 13 14 15 16
 16 17 18 19 20 21 22 20 21 22 23 24 25 26 17 18 19 20 21 22 23
 23 24 25 26 27 28 29 27 28 29 30 31 24 25 26 27 28 29 30
 30 31
October 2023      November 2023      December 2023
Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa
  1  2  3  4  5  6  7          1  2  3  4          1  2
  8  9 10 11 12 13 14  5  6  7  8  9 10 11  3  4  5  6  7  8  9
 15 16 17 18 19 20 21 12 13 14 15 16 17 18 10 11 12 13 14 15 16
 22 23 24 25 26 27 28 19 20 21 22 23 24 25 17 18 19 20 21 22 23
 29 30 31 26 27 28 29 30 24 25 26 27 28 29 30
                          31
```

```
[2025_1@fedora ~]$ cal -s
```

```
July 2023
Su Mo Tu We Th Fr Sa
      1
  2  3  4  5  6  7  8
  9 10 11 12 13 14 15
 16 17 18 19 20 21 22
 23 24 25 26 27 28 29
 30 31
```

```
[2025_1@fedora ~]$ cal -S
```

```
July 2023
Su Mo Tu We Th Fr Sa
      1
  2  3  4  5  6  7  8
  9 10 11 12 13 14 15
 16 17 18 19 20 21 22
 23 24 25 26 27 28 29
 30 31
```

```
[2025_1@fedora ~]$ cal -m
```

```
July 2023
```

|    |    |    |    |    |    |    |
|----|----|----|----|----|----|----|
| Mo | Tu | We | Th | Fr | Sa | Su |
|    |    |    |    |    | 1  | 2  |
| 3  | 4  | 5  | 6  | 7  | 8  | 9  |
| 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 24 | 25 | 26 | 27 | 28 | 29 | 30 |
| 31 |    |    |    |    |    |    |

```
[2025_1@fedora ~]$ cal -v
      July 2023
```

|    |   |   |    |    |    |    |
|----|---|---|----|----|----|----|
| Su |   | 2 | 9  | 16 | 23 | 30 |
| Mo |   | 3 | 10 | 17 | 24 | 31 |
| Tu |   | 4 | 11 | 18 | 25 |    |
| We |   | 5 | 12 | 19 | 26 |    |
| Th |   | 6 | 13 | 20 | 27 |    |
| Fr |   | 7 | 14 | 21 | 28 |    |
| Sa | 1 | 8 | 15 | 22 | 29 |    |

```
[2025_1@fedora ~]$ cal --iso
      July 2023
```

|    |    |    |    |    |    |    |
|----|----|----|----|----|----|----|
| Su | Mo | Tu | We | Th | Fr | Sa |
|    |    |    |    |    |    | 1  |
| 2  | 3  | 4  | 5  | 6  | 7  | 8  |
| 9  | 10 | 11 | 12 | 13 | 14 | 15 |
| 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| 23 | 24 | 25 | 26 | 27 | 28 | 29 |
| 30 | 31 |    |    |    |    |    |

```
[2025_1@fedora ~]$ cal -j
      July 2023
```

|     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|
| Sun | Mon | Tue | Wed | Thu | Fri | Sat |
|     |     |     |     |     |     | 182 |
| 183 | 184 | 185 | 186 | 187 | 188 | 189 |
| 190 | 191 | 192 | 193 | 194 | 195 | 196 |
| 197 | 198 | 199 | 200 | 201 | 202 | 203 |
| 204 | 205 | 206 | 207 | 208 | 209 | 210 |
| 211 | 212 |     |     |     |     |     |

July 2023

|    |    |    |    |    |    |    |
|----|----|----|----|----|----|----|
| Su | Mo | Tu | We | Th | Fr | Sa |
|    |    |    |    |    |    | 1  |
| 2  | 3  | 4  | 5  | 6  | 7  | 8  |
| 9  | 10 | 11 | 12 | 13 | 14 | 15 |
| 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| 23 | 24 | 25 | 26 | 27 | 28 | 29 |
| 30 | 31 |    |    |    |    |    |

```
[2025_1@fedora ~]$ cal --reform 1752
      July 2023
```

|    |    |    |    |    |    |    |
|----|----|----|----|----|----|----|
| Su | Mo | Tu | We | Th | Fr | Sa |
|    |    |    |    |    |    | 1  |
| 2  | 3  | 4  | 5  | 6  | 7  | 8  |
| 9  | 10 | 11 | 12 | 13 | 14 | 15 |
| 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| 23 | 24 | 25 | 26 | 27 | 28 | 29 |
| 30 | 31 |    |    |    |    |    |

```
[2025_1@fedora ~]$ cal -Y
      July 2023
```

August 2023

September 2023

|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|
| Su | Mo | Tu | We | Th | Fr | Sa | Su | Mo | Tu | We | Th | Fr | Sa | Su | Mo | Tu | We | Th | Fr | Sa |   |
|    |    |    |    |    |    | 1  |    |    |    |    |    |    |    |    |    |    |    |    |    | 1  | 2 |
| 2  | 3  | 4  | 5  | 6  | 7  | 8  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 3  | 4  | 5  | 6  | 7  | 8  | 9  |   |
| 9  | 10 | 11 | 12 | 13 | 14 | 15 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |   |

|                      |                      |                      |
|----------------------|----------------------|----------------------|
| 16 17 18 19 20 21 22 | 20 21 22 23 24 25 26 | 17 18 19 20 21 22 23 |
| 23 24 25 26 27 28 29 | 27 28 29 30 31       | 24 25 26 27 28 29 30 |
| 30 31                |                      |                      |

|                      |                      |                      |
|----------------------|----------------------|----------------------|
| October 2023         | November 2023        | December 2023        |
| Su Mo Tu We Th Fr Sa | Su Mo Tu We Th Fr Sa | Su Mo Tu We Th Fr Sa |
| 1 2 3 4 5 6 7        | 1 2 3 4              | 1 2                  |
| 8 9 10 11 12 13 14   | 5 6 7 8 9 10 11      | 3 4 5 6 7 8 9        |
| 15 16 17 18 19 20 21 | 12 13 14 15 16 17 18 | 10 11 12 13 14 15 16 |
| 22 23 24 25 26 27 28 | 19 20 21 22 23 24 25 | 17 18 19 20 21 22 23 |
| 29 30 31             | 26 27 28 29 30       | 24 25 26 27 28 29 30 |
|                      |                      | 31                   |

|                      |                      |                      |
|----------------------|----------------------|----------------------|
| January 2024         | February 2024        | March 2024           |
| Su Mo Tu We Th Fr Sa | Su Mo Tu We Th Fr Sa | Su Mo Tu We Th Fr Sa |
| 1 2 3 4 5 6          | 1 2 3                | 1 2                  |
| 7 8 9 10 11 12 13    | 4 5 6 7 8 9 10       | 3 4 5 6 7 8 9        |
| 14 15 16 17 18 19 20 | 11 12 13 14 15 16 17 | 10 11 12 13 14 15 16 |
| 21 22 23 24 25 26 27 | 18 19 20 21 22 23 24 | 17 18 19 20 21 22 23 |
| 28 29 30 31          | 25 26 27 28 29       | 24 25 26 27 28 29 30 |
|                      |                      | 31                   |

|                      |                      |                      |
|----------------------|----------------------|----------------------|
| April 2024           | May 2024             | June 2024            |
| Su Mo Tu We Th Fr Sa | Su Mo Tu We Th Fr Sa | Su Mo Tu We Th Fr Sa |
| 1 2 3 4 5 6          | 1 2 3 4              | 1                    |
| 7 8 9 10 11 12 13    | 5 6 7 8 9 10 11      | 2 3 4 5 6 7 8        |
| 14 15 16 17 18 19 20 | 12 13 14 15 16 17 18 | 9 10 11 12 13 14 15  |
| 21 22 23 24 25 26 27 | 19 20 21 22 23 24 25 | 16 17 18 19 20 21 22 |
| 28 29 30             | 26 27 28 29 30 31    | 23 24 25 26 27 28 29 |
|                      |                      | 30                   |

[2025\_10@fedora ~]\$ cal -y

2023

|                      |                      |                      |
|----------------------|----------------------|----------------------|
| January              | February             | March                |
| Su Mo Tu We Th Fr Sa | Su Mo Tu We Th Fr Sa | Su Mo Tu We Th Fr Sa |
| 1 2 3 4 5 6 7        | 1 2 3 4              | 1 2 3 4              |
| 8 9 10 11 12 13 14   | 5 6 7 8 9 10 11      | 5 6 7 8 9 10 11      |
| 15 16 17 18 19 20 21 | 12 13 14 15 16 17 18 | 12 13 14 15 16 17 18 |
| 22 23 24 25 26 27 28 | 19 20 21 22 23 24 25 | 19 20 21 22 23 24 25 |
| 29 30 31             | 26 27 28             | 26 27 28 29 30 31    |

|                      |                      |                      |
|----------------------|----------------------|----------------------|
| April                | May                  | June                 |
| Su Mo Tu We Th Fr Sa | Su Mo Tu We Th Fr Sa | Su Mo Tu We Th Fr Sa |
| 1                    | 1 2 3 4 5 6          | 1 2 3                |
| 2 3 4 5 6 7 8        | 7 8 9 10 11 12 13    | 4 5 6 7 8 9 10       |
| 9 10 11 12 13 14 15  | 14 15 16 17 18 19 20 | 11 12 13 14 15 16 17 |
| 16 17 18 19 20 21 22 | 21 22 23 24 25 26 27 | 18 19 20 21 22 23 24 |
| 23 24 25 26 27 28 29 | 28 29 30 31          | 25 26 27 28 29 30    |
| 30                   |                      |                      |

|                      |                      |                      |
|----------------------|----------------------|----------------------|
| July                 | August               | September            |
| Su Mo Tu We Th Fr Sa | Su Mo Tu We Th Fr Sa | Su Mo Tu We Th Fr Sa |
| 1                    | 1 2 3 4 5            | 1 2                  |
| 2 3 4 5 6 7 8        | 6 7 8 9 10 11 12     | 3 4 5 6 7 8 9        |
| 9 10 11 12 13 14 15  | 13 14 15 16 17 18 19 | 10 11 12 13 14 15 16 |
| 16 17 18 19 20 21 22 | 20 21 22 23 24 25 26 | 17 18 19 20 21 22 23 |
| 23 24 25 26 27 28 29 | 27 28 29 30 31       | 24 25 26 27 28 29 30 |
| 30 31                |                      |                      |

|                      |                      |                      |
|----------------------|----------------------|----------------------|
| October              | November             | December             |
| Su Mo Tu We Th Fr Sa | Su Mo Tu We Th Fr Sa | Su Mo Tu We Th Fr Sa |
| 1 2 3 4 5 6 7        | 1 2 3 4              | 1 2                  |
| 8 9 10 11 12 13 14   | 5 6 7 8 9 10 11      | 3 4 5 6 7 8 9        |

|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 15 | 16 | 17 | 18 | 19 | 20 | 21 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| 22 | 23 | 24 | 25 | 26 | 27 | 28 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 29 | 30 | 31 |    |    |    |    | 26 | 27 | 28 | 29 | 30 |    |    |    |    |    |    |    |    |    |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    | 31 |    |    |    |    |    |    |

```
[2025_1@fedora ~]$ cal -w
```

```

      July 2023
Su Mo Tu We Th Fr Sa
26           1
27  2  3  4  5  6  7  8
28  9 10 11 12 13 14 15
29 16 17 18 19 20 21 22
30 23 24 25 26 27 28 29
31 30 31

```

```
[2025_1@fedora ~]$ cal --color
```

```

      July 2023
Su Mo Tu We Th Fr Sa
           1
  2  3  4  5  6  7  8
  9 10 11 12 13 14 15
16 17 18 19 20 21 22
23 24 25 26 27 28 29
30 31

```

Who

```
[2025_1@fedora ~]$ who
```

|         |        |                  |                |
|---------|--------|------------------|----------------|
| 2025_33 | pts/0  | 2023-07-28 14:45 | (172.16.1.92)  |
| 2025_32 | pts/1  | 2023-07-28 14:39 | (172.16.1.72)  |
| 2025_24 | pts/2  | 2023-07-28 14:40 | (172.16.6.194) |
| 2025_11 | pts/3  | 2023-07-28 14:40 | (172.16.1.88)  |
| 2025_13 | pts/4  | 2023-07-28 14:40 | (172.16.1.74)  |
| 2025_30 | pts/5  | 2023-07-28 14:41 | (172.16.6.229) |
| 2025_9  | pts/6  | 2023-07-28 15:09 | (172.16.1.85)  |
| 2025_10 | pts/7  | 2023-07-28 14:41 | (172.16.1.81)  |
| 2025_3  | pts/8  | 2023-07-28 14:41 | (172.16.1.93)  |
| 2025_10 | pts/9  | 2023-07-28 14:42 | (172.16.1.81)  |
| 2025_27 | pts/10 | 2023-07-28 14:41 | (172.16.1.87)  |
| 2025_24 | pts/11 | 2023-07-28 14:42 | (172.16.6.194) |
| 2025_7  | pts/12 | 2023-07-28 14:42 | (172.16.1.83)  |
| 2025_34 | pts/13 | 2023-07-28 15:11 | (172.16.6.168) |
| 2025_55 | pts/14 | 2023-07-28 14:42 | (172.16.1.158) |
| 2025_23 | pts/15 | 2023-07-28 14:42 | (172.16.1.65)  |
| 2025_1  | pts/16 | 2023-07-28 14:42 | (172.16.6.12)  |
| 2025_1  | pts/17 | 2023-07-28 14:42 | (172.16.6.143) |
| 2025_16 | pts/18 | 2023-07-28 15:26 | (172.16.8.9)   |
| 2025_1  | pts/19 | 2023-07-28 14:42 | (172.16.6.12)  |
| 2025_21 | pts/20 | 2023-07-28 14:43 | (172.16.1.86)  |
| 2025_27 | pts/21 | 2023-07-28 14:43 | (172.16.1.87)  |
| 2025_1  | pts/22 | 2023-07-28 14:43 | (172.16.6.143) |
| 2025_28 | pts/23 | 2023-07-28 14:43 | (172.16.1.80)  |
| 2025_44 | pts/24 | 2023-07-28 14:44 | (172.16.1.154) |
| 2025_22 | pts/25 | 2023-07-28 14:45 | (172.16.1.48)  |
| 2025_4  | pts/26 | 2023-07-28 14:51 | (172.16.1.73)  |
| 2025_15 | pts/27 | 2023-07-28 14:45 | (172.16.6.35)  |
| 2025_31 | pts/28 | 2023-07-28 14:46 | (172.16.1.71)  |
| 2025_30 | pts/29 | 2023-07-28 14:45 | (172.16.6.229) |
| 2025_28 | pts/30 | 2023-07-28 14:46 | (172.16.1.80)  |
| 2025_17 | pts/31 | 2023-07-28 14:56 | (172.16.6.9)   |
| 2025_33 | pts/32 | 2023-07-28 14:46 | (172.16.1.92)  |

```

2025_8 pts/33 2023-07-28 14:48 (172.16.1.77)
2025_25 pts/34 2023-07-28 14:50 (172.16.15.91)
2025_12 pts/35 2023-07-28 14:50 (172.16.1.62)
2025_27 pts/36 2023-07-28 15:02 (172.16.1.87)
2025_35 pts/37 2023-07-28 14:50 (172.16.1.90)
2025_35 pts/38 2023-07-28 14:51 (172.16.1.90)
2025_19 pts/39 2023-07-28 14:52 (172.16.1.95)
2025_14 pts/40 2023-07-28 14:52 (172.16.1.61)
2025_17 pts/41 2023-07-28 15:02 (172.16.6.9)
2025_29 pts/42 2023-07-28 14:57 (172.16.1.64)
2025_25 pts/43 2023-07-28 14:58 (172.16.15.91)
2025_5 pts/44 2023-07-28 15:06 (172.16.1.78)
2025_15 pts/45 2023-07-28 15:06 (172.16.6.35)
2025_17 pts/46 2023-07-28 15:08 (172.16.6.9)
2025_17 pts/47 2023-07-28 15:12 (172.16.6.9)
2025_11 pts/48 2023-07-28 15:20 (172.16.1.88)
2025_16 pts/49 2023-07-28 15:25 (172.16.8.9)
[2025_1@fedora ~]$ who -a
      system boot 2023-07-28 09:18
      run-level 5 2023-07-28 09:19
2025_33 + pts/0 2023-07-28 14:45 . 22897 (172.16.1.92)
2025_32 + pts/1 2023-07-28 14:39 . 19247 (172.16.1.72)
2025_24 + pts/2 2023-07-28 14:40 . 19580 (172.16.6.194)
2025_11 + pts/3 2023-07-28 14:40 00:11 19630 (172.16.1.88)
2025_13 + pts/4 2023-07-28 14:40 00:20 19739 (172.16.1.74)
2025_30 + pts/5 2023-07-28 14:41 00:01 19251 (172.16.6.229)
2025_9 + pts/6 2023-07-28 15:09 00:03 27860 (172.16.1.85)
2025_10 + pts/7 2023-07-28 14:41 00:16 20116 (172.16.1.81)
2025_3 + pts/8 2023-07-28 14:41 00:05 20279 (172.16.1.93)
2025_10 + pts/9 2023-07-28 14:42 00:47 20468 (172.16.1.81)
2025_27 + pts/10 2023-07-28 14:41 00:45 20470 (172.16.1.87)
2025_24 + pts/11 2023-07-28 14:42 00:47 20392 (172.16.6.194)
2025_7 + pts/12 2023-07-28 14:42 00:11 20677 (172.16.1.83)
2025_34 + pts/13 2023-07-28 15:11 00:01 28122 (172.16.6.168)
2025_55 + pts/14 2023-07-28 14:42 . 19808 (172.16.1.158)
2025_23 + pts/15 2023-07-28 14:42 00:05 21007 (172.16.1.65)
2025_1 + pts/16 2023-07-28 14:42 . 20953 (172.16.6.12)
2025_1 + pts/17 2023-07-28 14:42 . 21151 (172.16.6.143)
2025_16 + pts/18 2023-07-28 15:26 00:02 29542 (172.16.8.9)
2025_1 + pts/19 2023-07-28 14:42 00:01 21393 (172.16.6.12)
2025_21 + pts/20 2023-07-28 14:43 . 21140 (172.16.1.86)
2025_27 + pts/21 2023-07-28 14:43 00:30 21437 (172.16.1.87)
2025_1 + pts/22 2023-07-28 14:43 . 21553 (172.16.6.143)
2025_28 + pts/23 2023-07-28 14:43 00:01 21684 (172.16.1.80)
2025_44 + pts/24 2023-07-28 14:44 00:14 22025 (172.16.1.154)
2025_22 + pts/25 2023-07-28 14:45 00:13 22434 (172.16.1.48)
2025_4 + pts/26 2023-07-28 14:51 00:01 24808 (172.16.1.73)
2025_15 + pts/27 2023-07-28 14:45 00:04 22526 (172.16.6.35)
2025_31 + pts/28 2023-07-28 14:46 00:13 22972 (172.16.1.71)
2025_30 + pts/29 2023-07-28 14:45 00:01 22530 (172.16.6.229)
2025_28 + pts/30 2023-07-28 14:46 00:42 23078 (172.16.1.80)
2025_17 + pts/31 2023-07-28 14:56 00:27 25609 (172.16.6.9)
2025_33 + pts/32 2023-07-28 14:46 00:13 23289 (172.16.1.92)
2025_8 + pts/33 2023-07-28 14:48 00:01 23730 (172.16.1.77)
2025_25 + pts/34 2023-07-28 14:50 00:14 24336 (172.16.15.91)
2025_12 + pts/35 2023-07-28 14:50 00:13 24339 (172.16.1.62)
2025_27 + pts/36 2023-07-28 15:02 00:01 26707 (172.16.1.87)
2025_35 + pts/37 2023-07-28 14:50 . 24469 (172.16.1.90)

```

|         |          |                        |                      |
|---------|----------|------------------------|----------------------|
| 2025_35 | + pts/38 | 2023-07-28 14:51 00:03 | 24755 (172.16.1.90)  |
| 2025_19 | + pts/39 | 2023-07-28 14:52 00:10 | 25138 (172.16.1.95)  |
| 2025_14 | + pts/40 | 2023-07-28 14:52 00:09 | 24767 (172.16.1.61)  |
| 2025_17 | + pts/41 | 2023-07-28 15:02 00:21 | 26761 (172.16.6.9)   |
| 2025_29 | + pts/42 | 2023-07-28 14:57 .     | 25702 (172.16.1.64)  |
| 2025_25 | + pts/43 | 2023-07-28 14:58 .     | 25958 (172.16.15.91) |
| 2025_5  | + pts/44 | 2023-07-28 15:06 .     | 27269 (172.16.1.78)  |
| 2025_15 | + pts/45 | 2023-07-28 15:06 .     | 27378 (172.16.6.35)  |
| 2025_17 | + pts/46 | 2023-07-28 15:08 00:17 | 27627 (172.16.6.9)   |
| 2025_17 | + pts/47 | 2023-07-28 15:12 .     | 28335 (172.16.6.9)   |
| 2025_11 | + pts/48 | 2023-07-28 15:20 .     | 29102 (172.16.1.88)  |
| 2025_16 | + pts/49 | 2023-07-28 15:25 00:03 | 29410 (172.16.8.9)   |

[2025\_1@fedora ~]\$ who -b

system boot 2023-07-28 09:18

[2025\_1@fedora ~]\$ who -d

[2025\_1@fedora ~]\$ who -H

| NAME    | LINE   | TIME             | COMMENT        |
|---------|--------|------------------|----------------|
| 2025_33 | pts/0  | 2023-07-28 14:45 | (172.16.1.92)  |
| 2025_32 | pts/1  | 2023-07-28 14:39 | (172.16.1.72)  |
| 2025_24 | pts/2  | 2023-07-28 14:40 | (172.16.6.194) |
| 2025_11 | pts/3  | 2023-07-28 14:40 | (172.16.1.88)  |
| 2025_13 | pts/4  | 2023-07-28 14:40 | (172.16.1.74)  |
| 2025_30 | pts/5  | 2023-07-28 14:41 | (172.16.6.229) |
| 2025_9  | pts/6  | 2023-07-28 15:09 | (172.16.1.85)  |
| 2025_10 | pts/7  | 2023-07-28 14:41 | (172.16.1.81)  |
| 2025_3  | pts/8  | 2023-07-28 14:41 | (172.16.1.93)  |
| 2025_10 | pts/9  | 2023-07-28 14:42 | (172.16.1.81)  |
| 2025_27 | pts/10 | 2023-07-28 14:41 | (172.16.1.87)  |
| 2025_24 | pts/11 | 2023-07-28 14:42 | (172.16.6.194) |
| 2025_7  | pts/12 | 2023-07-28 14:42 | (172.16.1.83)  |
| 2025_34 | pts/13 | 2023-07-28 15:11 | (172.16.6.168) |
| 2025_55 | pts/14 | 2023-07-28 14:42 | (172.16.1.158) |
| 2025_23 | pts/15 | 2023-07-28 14:42 | (172.16.1.65)  |
| 2025_1  | pts/16 | 2023-07-28 14:42 | (172.16.6.12)  |
| 2025_1  | pts/17 | 2023-07-28 14:42 | (172.16.6.143) |
| 2025_16 | pts/18 | 2023-07-28 15:26 | (172.16.8.9)   |
| 2025_1  | pts/19 | 2023-07-28 14:42 | (172.16.6.12)  |
| 2025_21 | pts/20 | 2023-07-28 14:43 | (172.16.1.86)  |
| 2025_27 | pts/21 | 2023-07-28 14:43 | (172.16.1.87)  |
| 2025_1  | pts/22 | 2023-07-28 14:43 | (172.16.6.143) |
| 2025_28 | pts/23 | 2023-07-28 14:43 | (172.16.1.80)  |
| 2025_44 | pts/24 | 2023-07-28 14:44 | (172.16.1.154) |
| 2025_22 | pts/25 | 2023-07-28 14:45 | (172.16.1.48)  |
| 2025_4  | pts/26 | 2023-07-28 14:51 | (172.16.1.73)  |
| 2025_15 | pts/27 | 2023-07-28 14:45 | (172.16.6.35)  |
| 2025_31 | pts/28 | 2023-07-28 14:46 | (172.16.1.71)  |
| 2025_30 | pts/29 | 2023-07-28 14:45 | (172.16.6.229) |
| 2025_28 | pts/30 | 2023-07-28 14:46 | (172.16.1.80)  |
| 2025_17 | pts/31 | 2023-07-28 14:56 | (172.16.6.9)   |
| 2025_33 | pts/32 | 2023-07-28 14:46 | (172.16.1.92)  |
| 2025_8  | pts/33 | 2023-07-28 14:48 | (172.16.1.77)  |
| 2025_25 | pts/34 | 2023-07-28 14:50 | (172.16.15.91) |
| 2025_12 | pts/35 | 2023-07-28 14:50 | (172.16.1.62)  |
| 2025_27 | pts/36 | 2023-07-28 15:02 | (172.16.1.87)  |
| 2025_35 | pts/37 | 2023-07-28 14:50 | (172.16.1.90)  |
| 2025_35 | pts/38 | 2023-07-28 14:51 | (172.16.1.90)  |
| 2025_19 | pts/39 | 2023-07-28 14:52 | (172.16.1.95)  |
| 2025_14 | pts/40 | 2023-07-28 14:52 | (172.16.1.61)  |



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2025_17 pts/41      2023-07-28 15:02 (172.16.6.9)
2025_29 pts/42      2023-07-28 14:57 (172.16.1.64)
2025_25 pts/43      2023-07-28 14:58 (172.16.15.91)
2025_5  pts/44      2023-07-28 15:06 (172.16.1.78)
2025_15 pts/45      2023-07-28 15:06 (172.16.6.35)
2025_17 pts/46      2023-07-28 15:08 (172.16.6.9)
2025_17 pts/47      2023-07-28 15:12 (172.16.6.9)
2025_11 pts/48      2023-07-28 15:20 (172.16.1.88)
2025_16 pts/49      2023-07-28 15:25 (172.16.8.9)
2025_52 pts/50      2023-07-28 15:30 (172.16.1.155)
[2025_1@fedora ~]$ who -l
[2025_1@fedora ~]$ who --lookup
2025_33 pts/0      2023-07-28 14:45 (172.16.1.92)
2025_32 pts/1      2023-07-28 14:39 (172.16.1.72)
2025_24 pts/2      2023-07-28 14:40 (172.16.6.194)
2025_11 pts/3      2023-07-28 14:40 (172.16.1.88)
2025_13 pts/4      2023-07-28 14:40 (172.16.1.74)
2025_30 pts/5      2023-07-28 14:41 (172.16.6.229)
2025_9  pts/6      2023-07-28 15:09 (172.16.1.85)
2025_10 pts/7      2023-07-28 14:41 (172.16.1.81)
2025_3  pts/8      2023-07-28 14:41 (172.16.1.93)
2025_10 pts/9      2023-07-28 14:42 (172.16.1.81)
2025_27 pts/10     2023-07-28 14:41 (172.16.1.87)
2025_24 pts/11     2023-07-28 14:42 (172.16.6.194)
2025_7  pts/12     2023-07-28 14:42 (172.16.1.83)
2025_34 pts/13     2023-07-28 15:11 (172.16.6.168)
2025_55 pts/14     2023-07-28 14:42 (172.16.1.158)
2025_23 pts/15     2023-07-28 14:42 (172.16.1.65)
2025_1  pts/16     2023-07-28 14:42 (172.16.6.12)
2025_1  pts/17     2023-07-28 14:42 (172.16.6.143)
2025_16 pts/18     2023-07-28 15:26 (172.16.8.9)
2025_1  pts/19     2023-07-28 14:42 (172.16.6.12)
2025_21 pts/20     2023-07-28 14:43 (172.16.1.86)
2025_27 pts/21     2023-07-28 14:43 (172.16.1.87)
2025_1  pts/22     2023-07-28 14:43 (172.16.6.143)
2025_28 pts/23     2023-07-28 14:43 (172.16.1.80)
2025_44 pts/24     2023-07-28 14:44 (172.16.1.154)
2025_22 pts/25     2023-07-28 14:45 (172.16.1.48)
2025_4  pts/26     2023-07-28 14:51 (172.16.1.73)
2025_15 pts/27     2023-07-28 14:45 (172.16.6.35)
2025_31 pts/28     2023-07-28 14:46 (172.16.1.71)
2025_30 pts/29     2023-07-28 14:45 (172.16.6.229)
2025_28 pts/30     2023-07-28 14:46 (172.16.1.80)
2025_17 pts/31     2023-07-28 14:56 (172.16.6.9)
2025_33 pts/32     2023-07-28 14:46 (172.16.1.92)
2025_8  pts/33     2023-07-28 14:48 (172.16.1.77)
2025_25 pts/34     2023-07-28 14:50 (172.16.15.91)
2025_12 pts/35     2023-07-28 14:50 (172.16.1.62)
2025_27 pts/36     2023-07-28 15:02 (172.16.1.87)
2025_35 pts/37     2023-07-28 14:50 (172.16.1.90)
2025_35 pts/38     2023-07-28 14:51 (172.16.1.90)
2025_19 pts/39     2023-07-28 14:52 (172.16.1.95)
2025_14 pts/40     2023-07-28 14:52 (172.16.1.61)
2025_17 pts/41     2023-07-28 15:02 (172.16.6.9)
2025_29 pts/42     2023-07-28 14:57 (172.16.1.64)
2025_25 pts/43     2023-07-28 14:58 (172.16.15.91)
2025_5  pts/44     2023-07-28 15:06 (172.16.1.78)
2025_15 pts/45     2023-07-28 15:06 (172.16.6.35)

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2025_17 pts/46      2023-07-28 15:08 (172.16.6.9)
2025_17 pts/47      2023-07-28 15:12 (172.16.6.9)
2025_11 pts/48      2023-07-28 15:20 (172.16.1.88)
2025_16 pts/49      2023-07-28 15:25 (172.16.8.9)
2025_52 pts/50      2023-07-28 15:30 (172.16.1.155)
[2025_1@fedora ~]$ who -m
2025_1 pts/16      2023-07-28 14:42 (172.16.6.12)
[2025_1@fedora ~]$ who -p
[2025_1@fedora ~]$ who -q
2025_33 2025_32 2025_24 2025_11 2025_13 2025_30 2025_9 2025_10 2025_3
2025_10 2025_27 2025_24 2025_7 2025_34 2025_55 2025_23 2025_1 2025_1
2025_16 2025_1 2025_21 2025_27 2025_1 2025_28 2025_44 2025_22 2025_4
2025_15 2025_31 2025_30 2025_28 2025_17 2025_33 2025_8 2025_25 2025_12
2025_27 2025_35 2025_35 2025_19 2025_14 2025_17 2025_29 2025_25 2025_5
2025_15 2025_17 2025_17 2025_11 2025_16 2025_52
# users=51
[2025_1@fedora ~]$ who -r
      run-level 5  2023-07-28 09:19
[2025_1@fedora ~]$ who -s
2025_33 pts/0      2023-07-28 14:45 (172.16.1.92)
2025_32 pts/1      2023-07-28 14:39 (172.16.1.72)
2025_24 pts/2      2023-07-28 14:40 (172.16.6.194)
2025_11 pts/3      2023-07-28 14:40 (172.16.1.88)
2025_13 pts/4      2023-07-28 14:40 (172.16.1.74)
2025_30 pts/5      2023-07-28 14:41 (172.16.6.229)
2025_9 pts/6      2023-07-28 15:09 (172.16.1.85)
2025_10 pts/7      2023-07-28 14:41 (172.16.1.81)
2025_3 pts/8      2023-07-28 14:41 (172.16.1.93)
2025_10 pts/9      2023-07-28 14:42 (172.16.1.81)
2025_27 pts/10     2023-07-28 14:41 (172.16.1.87)
2025_24 pts/11     2023-07-28 14:42 (172.16.6.194)
2025_7 pts/12     2023-07-28 14:42 (172.16.1.83)
2025_34 pts/13     2023-07-28 15:11 (172.16.6.168)
2025_55 pts/14     2023-07-28 14:42 (172.16.1.158)
2025_23 pts/15     2023-07-28 14:42 (172.16.1.65)
2025_1 pts/16     2023-07-28 14:42 (172.16.6.12)
2025_1 pts/17     2023-07-28 14:42 (172.16.6.143)
2025_16 pts/18     2023-07-28 15:26 (172.16.8.9)
2025_1 pts/19     2023-07-28 14:42 (172.16.6.12)
2025_21 pts/20     2023-07-28 14:43 (172.16.1.86)
2025_27 pts/21     2023-07-28 14:43 (172.16.1.87)
2025_1 pts/22     2023-07-28 14:43 (172.16.6.143)
2025_28 pts/23     2023-07-28 14:43 (172.16.1.80)
2025_44 pts/24     2023-07-28 14:44 (172.16.1.154)
2025_22 pts/25     2023-07-28 14:45 (172.16.1.48)
2025_4 pts/26     2023-07-28 14:51 (172.16.1.73)
2025_15 pts/27     2023-07-28 14:45 (172.16.6.35)
2025_31 pts/28     2023-07-28 14:46 (172.16.1.71)
2025_30 pts/29     2023-07-28 14:45 (172.16.6.229)
2025_28 pts/30     2023-07-28 14:46 (172.16.1.80)
2025_17 pts/31     2023-07-28 14:56 (172.16.6.9)
2025_33 pts/32     2023-07-28 14:46 (172.16.1.92)
2025_8 pts/33     2023-07-28 14:48 (172.16.1.77)
2025_25 pts/34     2023-07-28 14:50 (172.16.15.91)
2025_12 pts/35     2023-07-28 14:50 (172.16.1.62)
2025_27 pts/36     2023-07-28 15:02 (172.16.1.87)
2025_35 pts/37     2023-07-28 14:50 (172.16.1.90)
2025_35 pts/38     2023-07-28 14:51 (172.16.1.90)

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|                            |          |                  |                |
|----------------------------|----------|------------------|----------------|
| 2025_19                    | pts/39   | 2023-07-28 14:52 | (172.16.1.95)  |
| 2025_14                    | pts/40   | 2023-07-28 14:52 | (172.16.1.61)  |
| 2025_17                    | pts/41   | 2023-07-28 15:02 | (172.16.6.9)   |
| 2025_29                    | pts/42   | 2023-07-28 14:57 | (172.16.1.64)  |
| 2025_25                    | pts/43   | 2023-07-28 14:58 | (172.16.15.91) |
| 2025_5                     | pts/44   | 2023-07-28 15:06 | (172.16.1.78)  |
| 2025_15                    | pts/45   | 2023-07-28 15:06 | (172.16.6.35)  |
| 2025_17                    | pts/46   | 2023-07-28 15:08 | (172.16.6.9)   |
| 2025_17                    | pts/47   | 2023-07-28 15:12 | (172.16.6.9)   |
| 2025_11                    | pts/48   | 2023-07-28 15:20 | (172.16.1.88)  |
| 2025_16                    | pts/49   | 2023-07-28 15:25 | (172.16.8.9)   |
| 2025_52                    | pts/50   | 2023-07-28 15:30 | (172.16.1.155) |
| [2025_1@fedora ~]\$ who -t |          |                  |                |
| [2025_1@fedora ~]\$ who -T |          |                  |                |
| 2025_33                    | + pts/0  | 2023-07-28 14:45 | (172.16.1.92)  |
| 2025_32                    | + pts/1  | 2023-07-28 14:39 | (172.16.1.72)  |
| 2025_24                    | + pts/2  | 2023-07-28 14:40 | (172.16.6.194) |
| 2025_11                    | + pts/3  | 2023-07-28 14:40 | (172.16.1.88)  |
| 2025_13                    | + pts/4  | 2023-07-28 14:40 | (172.16.1.74)  |
| 2025_30                    | + pts/5  | 2023-07-28 14:41 | (172.16.6.229) |
| 2025_9                     | + pts/6  | 2023-07-28 15:09 | (172.16.1.85)  |
| 2025_10                    | + pts/7  | 2023-07-28 14:41 | (172.16.1.81)  |
| 2025_3                     | + pts/8  | 2023-07-28 14:41 | (172.16.1.93)  |
| 2025_10                    | + pts/9  | 2023-07-28 14:42 | (172.16.1.81)  |
| 2025_27                    | + pts/10 | 2023-07-28 14:41 | (172.16.1.87)  |
| 2025_24                    | + pts/11 | 2023-07-28 14:42 | (172.16.6.194) |
| 2025_7                     | + pts/12 | 2023-07-28 14:42 | (172.16.1.83)  |
| 2025_34                    | + pts/13 | 2023-07-28 15:11 | (172.16.6.168) |
| 2025_55                    | + pts/14 | 2023-07-28 14:42 | (172.16.1.158) |
| 2025_23                    | + pts/15 | 2023-07-28 14:42 | (172.16.1.65)  |
| 2025_1                     | + pts/16 | 2023-07-28 14:42 | (172.16.6.12)  |
| 2025_1                     | + pts/17 | 2023-07-28 14:42 | (172.16.6.143) |
| 2025_16                    | + pts/18 | 2023-07-28 15:26 | (172.16.8.9)   |
| 2025_1                     | + pts/19 | 2023-07-28 14:42 | (172.16.6.12)  |
| 2025_21                    | + pts/20 | 2023-07-28 14:43 | (172.16.1.86)  |
| 2025_27                    | + pts/21 | 2023-07-28 14:43 | (172.16.1.87)  |
| 2025_1                     | + pts/22 | 2023-07-28 14:43 | (172.16.6.143) |
| 2025_28                    | + pts/23 | 2023-07-28 14:43 | (172.16.1.80)  |
| 2025_44                    | + pts/24 | 2023-07-28 14:44 | (172.16.1.154) |
| 2025_22                    | + pts/25 | 2023-07-28 14:45 | (172.16.1.48)  |
| 2025_4                     | + pts/26 | 2023-07-28 14:51 | (172.16.1.73)  |
| 2025_15                    | + pts/27 | 2023-07-28 14:45 | (172.16.6.35)  |
| 2025_31                    | + pts/28 | 2023-07-28 14:46 | (172.16.1.71)  |
| 2025_30                    | + pts/29 | 2023-07-28 14:45 | (172.16.6.229) |
| 2025_28                    | + pts/30 | 2023-07-28 14:46 | (172.16.1.80)  |
| 2025_17                    | + pts/31 | 2023-07-28 14:56 | (172.16.6.9)   |
| 2025_33                    | + pts/32 | 2023-07-28 14:46 | (172.16.1.92)  |
| 2025_8                     | + pts/33 | 2023-07-28 14:48 | (172.16.1.77)  |
| 2025_25                    | + pts/34 | 2023-07-28 14:50 | (172.16.15.91) |
| 2025_12                    | + pts/35 | 2023-07-28 14:50 | (172.16.1.62)  |
| 2025_27                    | + pts/36 | 2023-07-28 15:02 | (172.16.1.87)  |
| 2025_35                    | + pts/37 | 2023-07-28 14:50 | (172.16.1.90)  |
| 2025_35                    | + pts/38 | 2023-07-28 14:51 | (172.16.1.90)  |
| 2025_19                    | + pts/39 | 2023-07-28 14:52 | (172.16.1.95)  |
| 2025_14                    | + pts/40 | 2023-07-28 14:52 | (172.16.1.61)  |
| 2025_17                    | + pts/41 | 2023-07-28 15:02 | (172.16.6.9)   |
| 2025_29                    | + pts/42 | 2023-07-28 14:57 | (172.16.1.64)  |
| 2025_25                    | + pts/43 | 2023-07-28 14:58 | (172.16.15.91) |

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2025_5 + pts/44 2023-07-28 15:06 (172.16.1.78)
2025_15 + pts/45 2023-07-28 15:06 (172.16.6.35)
2025_17 + pts/46 2023-07-28 15:08 (172.16.6.9)
2025_17 + pts/47 2023-07-28 15:12 (172.16.6.9)
2025_11 + pts/48 2023-07-28 15:20 (172.16.1.88)
2025_16 + pts/49 2023-07-28 15:25 (172.16.8.9)
2025_52 + pts/50 2023-07-28 15:30 (172.16.1.155)
[2025_1@fedora ~]$ who -u
2025_33 pts/0 2023-07-28 14:45 00:02 22897 (172.16.1.92)
2025_32 pts/1 2023-07-28 14:39 00:03 19247 (172.16.1.72)
2025_24 pts/2 2023-07-28 14:40 . 19580 (172.16.6.194)
2025_11 pts/3 2023-07-28 14:40 00:16 19630 (172.16.1.88)
2025_13 pts/4 2023-07-28 14:40 00:25 19739 (172.16.1.74)
2025_30 pts/5 2023-07-28 14:41 00:06 19251 (172.16.6.229)
2025_9 pts/6 2023-07-28 15:09 . 27860 (172.16.1.85)
2025_10 pts/7 2023-07-28 14:41 00:01 20116 (172.16.1.81)
2025_3 pts/8 2023-07-28 14:41 . 20279 (172.16.1.93)
2025_10 pts/9 2023-07-28 14:42 00:51 20468 (172.16.1.81)
2025_27 pts/10 2023-07-28 14:41 00:49 20470 (172.16.1.87)
2025_24 pts/11 2023-07-28 14:42 00:52 20392 (172.16.6.194)
2025_7 pts/12 2023-07-28 14:42 00:15 20677 (172.16.1.83)
2025_34 pts/13 2023-07-28 15:11 . 28122 (172.16.6.168)
2025_55 pts/14 2023-07-28 14:42 00:01 19808 (172.16.1.158)
2025_23 pts/15 2023-07-28 14:42 . 21007 (172.16.1.65)
2025_1 pts/16 2023-07-28 14:42 . 20953 (172.16.6.12)
2025_1 pts/17 2023-07-28 14:42 . 21151 (172.16.6.143)
2025_16 pts/18 2023-07-28 15:26 00:07 29542 (172.16.8.9)
2025_1 pts/19 2023-07-28 14:42 00:06 21393 (172.16.6.12)
2025_21 pts/20 2023-07-28 14:43 00:03 21140 (172.16.1.86)
2025_27 pts/21 2023-07-28 14:43 00:35 21437 (172.16.1.87)
2025_1 pts/22 2023-07-28 14:43 00:03 21553 (172.16.6.143)
2025_28 pts/23 2023-07-28 14:43 00:06 21684 (172.16.1.80)
2025_44 pts/24 2023-07-28 14:44 00:19 22025 (172.16.1.154)
2025_22 pts/25 2023-07-28 14:45 . 22434 (172.16.1.48)
2025_4 pts/26 2023-07-28 14:51 00:01 24808 (172.16.1.73)
2025_15 pts/27 2023-07-28 14:45 00:09 22526 (172.16.6.35)
2025_31 pts/28 2023-07-28 14:46 00:18 22972 (172.16.1.71)
2025_30 pts/29 2023-07-28 14:45 . 22530 (172.16.6.229)
2025_28 pts/30 2023-07-28 14:46 00:47 23078 (172.16.1.80)
2025_17 pts/31 2023-07-28 14:56 00:31 25609 (172.16.6.9)
2025_33 pts/32 2023-07-28 14:46 00:01 23289 (172.16.1.92)
2025_8 pts/33 2023-07-28 14:48 . 23730 (172.16.1.77)
2025_25 pts/34 2023-07-28 14:50 00:19 24336 (172.16.15.91)
2025_12 pts/35 2023-07-28 14:50 00:17 24339 (172.16.1.62)
2025_27 pts/36 2023-07-28 15:02 00:06 26707 (172.16.1.87)
2025_35 pts/37 2023-07-28 14:50 . 24469 (172.16.1.90)
2025_35 pts/38 2023-07-28 14:51 00:07 24755 (172.16.1.90)
2025_19 pts/39 2023-07-28 14:52 00:15 25138 (172.16.1.95)
2025_14 pts/40 2023-07-28 14:52 00:14 24767 (172.16.1.61)
2025_17 pts/41 2023-07-28 15:02 00:26 26761 (172.16.6.9)
2025_29 pts/42 2023-07-28 14:57 00:03 25702 (172.16.1.64)
2025_25 pts/43 2023-07-28 14:58 00:03 25958 (172.16.15.91)
2025_5 pts/44 2023-07-28 15:06 . 27269 (172.16.1.78)
2025_15 pts/45 2023-07-28 15:06 00:01 27378 (172.16.6.35)
2025_17 pts/46 2023-07-28 15:08 00:22 27627 (172.16.6.9)
2025_17 pts/47 2023-07-28 15:12 00:03 28335 (172.16.6.9)
2025_11 pts/48 2023-07-28 15:20 . 29102 (172.16.1.88)
2025_16 pts/49 2023-07-28 15:25 00:08 29410 (172.16.8.9)

```

2025\_52 pts/50 2023-07-28 15:30 00:03 29854 (172.16.1.155)  
[2025\_1@fedora ~]\$

Echo

[2025\_1@fedora ~]\$ echo operating\_system

operating\_system

[2025\_1@fedora ~]\$ echo -n operating\_sytem

operating\_sytem[2025\_1@fedora ~]\$ echo -e operating\_system

operating\_system

[2025\_1@fedora ~]\$ echo -E operating\_system

operating\_system

[2025\_1@fedora ~]\$ bc

bc 1.07.1

Copyright 1991-1994, 1997, 1998, 2000, 2004, 2006, 2008, 2012-2017 Free  
Software Foundation, Inc.

This is free software with ABSOLUTELY NO WARRANTY.

For details type `warranty'.

x=5

++x

6

--x

5

x++

5

x--

6

5+6

11

6-5

1

6\*6

36

6/6

1

9%4

1

2^5

32

var os=5

(standard\_in) 13: syntax error

var <os>=6

0

os

0

x

5

var <x>

(standard\_in) 18: syntax error

x <op>= 5

0

5.4

5.4

5>5

0

5<4

0

```

5<=6
1
6>= 20
0
6==6
1
7!=5
1
!9
0
!0
1
5 && 5
1
5||4
1
sqrt 81
(standard_in) 30: syntax error
sqrt (81)
9
scale(1.098)
3
length(35356)
5

```

```

(interrupt) Exiting bc.
[2025_1@fedora ~]$ bc -l
bc 1.07.1
Copyright 1991-1994, 1997, 1998, 2000, 2004, 2006, 2008, 2012-2017 Free
Software Foundation, Inc.
This is free software with ABSOLUTELY NO WARRANTY.
For details type `warranty'.
s (30)
-.98803162409286178998
x=45
c (x)
.52532198881772969604
a (x)
1.54857776146817756029
l (x)
3.80666248977031975739
e (x)
34934271057485095348.03479723340609953341
j(5,2)
.00703962975587168548

```

## COMMANDS FOR NAVIGATING THE LINUX FILE SYSTEM

```

Pwd
[2025_1@fedora ~]$ pwd
/home/2025_1
[2025_1@fedora ~]$ pwd -L
/home/2025_1
[2025_1@fedora ~]$ pwd -P
/home/2025_1

```

```

ls -a
[2025_1@fedora ~]$ ls -a

```

```

.    a.out                .bash_logout  .bashrc                .binsearch.c.swp
.lessshst quicksort.c
..   .bash_history .bash_profile bellman_ford.c  .knapsack.c.swp
.mozilla
[2025_1@fedora ~]$ ls -C
a.out  bellman_ford.c  quicksort.c

```

```

[2025_1@fedora ~]$ ls -l -a
total 84
drwx-----. 1 2025_1 2025_1    244 Jul 28 14:58 .
drwxr-xr-x. 1 root    root      7730 Jul 24 14:55 ..
-rwxr-xr-x. 1 2025_1 2025_1 25088 May 23 12:07 a.out
-rw-----. 1 2025_1 2025_1    715 May 23 12:34 .bash_history
-rw-r--r--. 1 2025_1 2025_1     18 Jul 21 2021 .bash_logout
-rw-r--r--. 1 2025_1 2025_1    141 Jul 21 2021 .bash_profile
-rw-r--r--. 1 2025_1 2025_1    492 Jul 21 2021 .bashrc
-rw-r--r--. 1 2025_1 2025_1   1293 May 23 11:04 bellman_ford.c
-rw-----. 1 2025_1 2025_1 16384 May 18 11:08 .binsearch.c.swp
-rw-r--r--. 1 2025_1 2025_1 12288 Apr 13 12:41 .knapsack.c.swp
-rw-----. 1 2025_1 2025_1     20 Jul 28 14:58 .lessshst
drwxr-xr-x. 1 2025_1 2025_1     34 Jul 23 2021 .mozilla
-rw-r--r--. 1 2025_1 2025_1    934 May 23 12:06 quicksort.c

```

#### INFORMATIONAL COMMANDS

```
[2025_1@fedora ~]$ ps
```

```

  PID TTY          TIME CMD
 21324 pts/16    00:00:00 bash
 31365 pts/16    00:00:00 ps

```

```
[2025_1@fedora ~]$ w
```

```

15:40:23 up 6:21, 53 users, load average: 0.02, 0.06, 0.05
USER      TTY      LOGIN@  IDLE   JCPU   PCPU WHAT
2025_33   pts/0    14:45   4.00s  0.39s  0.39s -bash
2025_32   pts/1    14:39   9:35   0.83s  0.20s -bash
2025_24   pts/2    14:40   7.00s  0.24s  0.24s -bash
2025_11   pts/3    14:40  22:38   0.14s  0.14s -bash
2025_13   pts/4    14:40  31.00s  0.09s  0.00s less
2025_30   pts/5    14:41   6.00s  0.04s  0.02s less
2025_9     pts/6    15:09  16.00s  0.18s  0.18s -bash
2025_10   pts/7    14:41   2:22   0.09s  0.09s -bash
2025_3     pts/8    14:41  15.00s  0.19s  0.10s less
2025_10   pts/9    14:42  58:12   0.01s  0.01s -bash
2025_27   pts/10   14:41  56:13   0.01s  0.00s less
2025_24   pts/11   14:42  58:21   0.01s  0.01s -bash
2025_7     pts/12   14:42   7.00s  0.11s  0.11s -bash
2025_34   pts/13   15:11   1:11   0.12s  0.12s -bash
2025_55   pts/14   14:42   1:11   0.08s  0.08s -bash
2025_23   pts/15   14:42   6:23   0.13s  0.13s -bash
2025_1    pts/16   14:42   6.00s  0.18s  0.01s w
2025_1    pts/17   14:42  47.00s  0.14s  0.14s -bash
2025_16   pts/18   15:26  13:31   0.01s  0.01s -bash
2025_1    pts/19   14:42  15.00s  0.05s  0.02s less
2025_21   pts/20   14:43   7.00s  0.20s  0.20s -bash
2025_27   pts/21   14:43  41:58   0.05s  0.00s less
2025_1    pts/22   14:43   9:41   0.05s  0.00s less
2025_28   pts/23   14:43   3:43   0.10s  0.10s -bash
2025_44   pts/24   14:44   1:11   0.03s  0.03s -bash
2025_22   pts/25   14:45   1:19   0.08s  0.08s -bash
2025_4    pts/26   14:51  38.00s  0.14s  0.14s -bash

```

```

2025_15 pts/27      14:45      1:06      0.11s    0.11s -bash
2025_31 pts/28      14:46     24:39      0.05s    0.05s -bash
2025_30 pts/29      14:45      2:47      0.10s    0.10s -bash
2025_28 pts/30      14:46      2:54      0.01s    0.01s -bash
2025_17 pts/31      14:56     38:07      0.02s    0.00s bc
2025_33 pts/32      14:46     15.00s     0.09s    0.01s less
2025_8  pts/33      14:48      2:39      0.09s    0.09s -bash
2025_25 pts/34      14:50     25:31      0.06s    0.04s less
2025_12 pts/35      14:50      1:24      0.05s    0.05s -bash
2025_27 pts/36      15:02     12:54      0.07s    0.07s -bash
2025_35 pts/37      14:50      7:06      0.12s    0.12s -bash
2025_35 pts/38      14:51      1:11      0.04s    0.00s less
2025_19 pts/39      14:52     39.00s     0.06s    0.00s less
2025_14 pts/40      14:52      1:35      0.06s    0.00s less
2025_17 pts/41      15:02     32:31      0.03s    0.00s cat
2025_29 pts/42      14:57      9:43      0.09s    0.08s -bash
2025_25 pts/43      14:58      9:55      0.07s    0.07s -bash
2025_5  pts/44      15:06      4.00s     0.09s    0.09s -bash
2025_15 pts/45      15:06      1:11      0.10s    0.10s -bash
2025_17 pts/46      15:08     28:27      0.02s    0.00s cat
2025_17 pts/47      15:12      2:31      0.09s    0.09s -bash
2025_11 pts/48      15:20      1:02      0.10s    0.05s bash
2025_16 pts/49      15:25     14:48      0.01s    0.01s -bash
2025_52 pts/50      15:30      9:59      0.01s    0.01s -bash
2025_23 pts/51      15:39      1:05      0.01s    0.01s -bash
2025_54 pts/52      15:39     45.00s     0.01s    0.01s -bash

```

```
[2025_1@fedora ~]$ id
```

```
uid=1101(2025_1) gid=1101(2025_1) groups=1101(2025_1)
```

```
context=unconfined_u:unconfined_r:unconfined_t:s0-s0:c0.c1023
```

```
[2025_1@fedora ~]$ top
```

```

top - 15:41:49 up 6:22, 52 users, load average: 0.06, 0.07, 0.06
Tasks: 664 total, 1 running, 604 sleeping, 59 stopped, 0 zombie
%Cpu(s): 1.4 us, 1.2 sy, 0.0 ni, 97.1 id, 0.0 wa, 0.1 hi, 0.2 si,
0.0 st
MiB Mem : 7766.1 total, 4149.2 free, 1326.3 used, 2290.5
buff/cache
MiB Swap: 7766.0 total, 7766.0 free, 0.0 used. 6165.3 avail
Mem

```

|             | PID   | USER    | PR | NI | VIRT   | RES   | SHR  | S | %CPU | %MEM | TIME+   |
|-------------|-------|---------|----|----|--------|-------|------|---|------|------|---------|
| COMMAND     |       |         |    |    |        |       |      |   |      |      |         |
| (sd-pam)    | 19207 | 2025_30 | 20 | 0  | 176492 | 7568  | 20   | S | 0.0  | 0.1  | 0:00.00 |
| sshd        | 19216 | 2025_30 | 20 | 0  | 16696  | 5976  | 4416 | S | 0.0  | 0.1  | 0:00.00 |
| sftp-server | 19228 | 2025_30 | 20 | 0  | 5932   | 3888  | 3476 | S | 0.0  | 0.0  | 0:00.00 |
| sshd        | 19247 | root    | 20 | 0  | 16800  | 11064 | 9512 | S | 0.0  | 0.1  | 0:00.03 |
| sshd        | 19251 | root    | 20 | 0  | 16804  | 10980 | 9424 | S | 0.0  | 0.1  | 0:00.02 |
| sshd        | 19256 | 2025_32 | 20 | 0  | 16688  | 6108  | 4560 | S | 0.0  | 0.1  | 0:00.38 |
| bash        | 19268 | 2025_32 | 20 | 0  | 224192 | 5728  | 3712 | S | 0.0  | 0.1  | 0:00.21 |
| sshd        | 19298 | root    | 20 | 0  | 16672  | 10612 | 9100 | S | 0.0  | 0.1  | 0:00.02 |



|             |       |         |    |   |        |       |       |   |     |     |         |
|-------------|-------|---------|----|---|--------|-------|-------|---|-----|-----|---------|
| systemd     | 19305 | 2025_11 | 20 | 0 | 21492  | 13924 | 10640 | S | 0.0 | 0.2 | 0:00.18 |
| (sd-pam)    | 19316 | 2025_11 | 20 | 0 | 176492 | 7568  | 20    | S | 0.0 | 0.1 | 0:00.00 |
| sshd        | 19332 | 2025_11 | 20 | 0 | 16692  | 6084  | 4532  | S | 0.0 | 0.1 | 0:00.00 |
| sftp-server | 19338 | 2025_11 | 20 | 0 | 5932   | 3928  | 3516  | S | 0.0 | 0.0 | 0:00.00 |
| sshd        | 19360 | root    | 20 | 0 | 16804  | 10956 | 9404  | S | 0.0 | 0.1 | 0:00.02 |
| sshd        | 19362 | root    | 20 | 0 | 16800  | 10972 | 9424  | S | 0.0 | 0.1 | 0:00.03 |
| systemd     | 19370 | 2025_24 | 20 | 0 | 21508  | 14212 | 10936 | S | 0.0 | 0.2 | 0:00.16 |
| (sd-pam)    | 19381 | 2025_24 | 20 | 0 | 176492 | 7568  | 20    | S | 0.0 | 0.1 | 0:00.00 |
| systemd     | 19392 | 2025_27 | 20 | 0 | 21504  | 13800 | 10540 | S | 0.0 | 0.2 | 0:00.16 |
| sshd        | 19404 | 2025_24 | 20 | 0 | 16700  | 6004  | 4452  | S | 0.0 | 0.1 | 0:00.00 |
| (sd-pam)    | 19406 | 2025_27 | 20 | 0 | 176492 | 7568  | 20    | S | 0.0 | 0.1 | 0:00.00 |
| sftp-server | 19421 | 2025_24 | 20 | 0 | 5932   | 3908  | 3496  | S | 0.0 | 0.0 | 0:00.00 |
| sshd        | 19444 | 2025_27 | 20 | 0 | 16696  | 5996  | 4448  | S | 0.0 | 0.1 | 0:00.00 |
| sftp-server | 19453 | 2025_27 | 20 | 0 | 5932   | 3908  | 3496  | S | 0.0 | 0.0 | 0:00.00 |
| sshd        | 19475 | root    | 20 | 0 | 16672  | 10912 | 9368  | S | 0.0 | 0.1 | 0:00.03 |
| systemd     | 19482 | 2025_13 | 20 | 0 | 21504  | 13920 | 10648 | S | 0.0 | 0.2 | 0:00.16 |
| (sd-pam)    | 19494 | 2025_13 | 20 | 0 | 176344 | 7552  | 20    | S | 0.0 | 0.1 | 0:00.00 |
| sshd        | 19504 | 2025_13 | 20 | 0 | 16820  | 6024  | 4476  | S | 0.0 | 0.1 | 0:00.00 |
| sftp-server | 19515 | 2025_13 | 20 | 0 | 5932   | 4024  | 3616  | S | 0.0 | 0.1 | 0:00.00 |
| sshd        | 19538 | root    | 20 | 0 | 16676  | 10912 | 9364  | S | 0.0 | 0.1 | 0:00.02 |
| sshd        | 19543 | 2025_24 | 20 | 0 | 16696  | 5984  | 4432  | S | 0.0 | 0.1 | 0:00.00 |
| bash        | 19555 | 2025_24 | 20 | 0 | 222648 | 3848  | 3484  | S | 0.0 | 0.0 | 0:00.00 |
| sshd        | 19578 | root    | 20 | 0 | 16804  | 11056 | 9500  | S | 0.0 | 0.1 | 0:00.03 |
| sshd        | 19580 | root    | 20 | 0 | 16676  | 11004 | 9456  | S | 0.0 | 0.1 | 0:00.03 |
| sshd        | 19588 | 2025_13 | 20 | 0 | 16696  | 6016  | 4460  | S | 0.0 | 0.1 | 0:00.01 |
| bash        | 19598 | 2025_13 | 20 | 0 | 222648 | 3936  | 3572  | S | 0.0 | 0.0 | 0:00.00 |
| sshd        | 19630 | root    | 20 | 0 | 16676  | 11060 | 9508  | S | 0.0 | 0.1 | 0:00.03 |
| sshd        | 19635 | 2025_24 | 20 | 0 | 16696  | 6044  | 4492  | S | 0.0 | 0.1 | 0:00.52 |
| bash        | 19653 | 2025_24 | 20 | 0 | 224708 | 6208  | 3664  | S | 0.0 | 0.1 | 0:00.26 |

```

19679 root      20    0   16676   11068    9524 S    0.0   0.1   0:00.03
sshd
19687 2025_55   20    0   21508   14124   10884 S    0.0   0.2   0:00.16
systemd
19699 2025_55   20    0  176492    7568     20 S    0.0   0.1   0:00.00
(sd-pam)
19708 2025_55   20    0   16692    6100    4552 S    0.0   0.1   0:00.00
sshd
19720 2025_55   20    0    5932    3912    3496 S    0.0   0.0   0:00.00
sftp-server
19739 root      20    0   16676   11096    9544 S    0.0   0.1   0:00.03
sshd
19744 2025_11   20    0   16692    6044    4492 S    0.0   0.1   0:00.21
sshd

```

```
[2025_1@fedora ~]$ free
```

```

                total                used                free                shared    buff/cache
available
Mem:           7952448             1358824             4248052              20328         2345572
6312544
Swap:          7952380                 0             7952380

```

```
[2025_1@fedora ~]$ uname -a
```

```

Linux fedora 5.19.9-100.fc35.x86_64 #1 SMP PREEMPT_DYNAMIC Thu Sep 15
09:55:09 UTC 2022 x86_64 x86_64 x86_64 GNU/Linux

```

Working with Files and Directories

```
[student@localhost ~]$ touch file
```

```
[student@localhost ~]$ file file
```

```
file: empty
```

```
[student@localhost ~]$ cat file
```

```
[student@localhost ~]$ cat >file
```

```
I study in STCET.
```

```
I am in CSE.
```

```
Our Teacher is TBB Mam.
```

```
^C
```

```
[student@localhost ~]$ cat file
```

```
I study in STCET.
```

```
I am in CSE.
```

```
Our Teacher is TBB Mam.
```

```
[student@localhost ~]$ head file
```

```
I study in STCET.
```

```
I am in CSE.
```

```
Our Teacher is TBB Mam.
```

```
[student@localhost ~]$ tail file
```

```
I study in STCET.
```

```
I am in CSE.
```

```
Our Teacher is TBB Mam.
```

```
[student@localhost ~]$ cp file file1
```

```
[student@localhost ~]$ cat file1
```

```
I study in STCET.
```

```
I am in CSE.
```

```
Our Teacher is TBB Mam.
```

```
[student@localhost ~]$ mv file1
```

```
mv: missing destination file operand after 'file1'
```

```
Try 'mv --help' for more information.
```

```
[student@localhost ~]$ del file
```

```
bash: del: command not found...
```

```
[student@localhost ~]$ rm file
```

```
[student@localhost ~]$ mkdir file
```

```
[student@localhost ~]$ rmdir file
[student@localhost ~]$ tree
```

```
.
├── 01_TejasAdvik_AIML
│   ├── 01_AIML_PCA2_TejasAdvik.pdf
│   ├── a.out
│   ├── primes.c
│   └── towerofhanoi.c
├── 28_Harsh
│   ├── a.out
│   ├── bfs.c
│   ├── chainmul.c
│   ├── chainmultiplication.c
│   ├── dfs.c
│   └── minmax.c
├── 33_Arun
│   ├── a.out
│   ├── binary.c
│   ├── bubble.c
│   ├── insertion.c
│   ├── linear.c
│   ├── multiply.c
│   └── select.c
├── allarm.c
├── allprime.c
├── am25
├── aman25
│   ├── a.out
│   ├── bellman_ford.c
│   ├── binary
│   ├── binary_search.c
│   ├── bubble
│   ├── bubble_sort.c
│   ├── fractional_knapsack.c
│   ├── heap_sort.c
│   ├── linearsearch.c
│   ├── merge_sort.c
│   ├── matrix_multiplication.c
│   ├── selection.c
│   └── selectionsort.c
├── a.out
├── arm2.c
├── arm.c
├── asad
│   └── a.txt
├── bellman_ford.c
├── bin.c
├── bisection.c
├── cal.c
├── circularq.c
├── cll.c
├── count.c
├── counter.c
├── d.c
├── Desktop
├── Downloads
│   └── Win10_1909_EnglishInternational_x64.iso
└── elimination.c
```

- Email.cpp
- exam.c
- f9.c
- fact2.c
- fact.c
- fact\_permu\_combi\_func.c
- fibbo.c
- file1
- floyd\_warshall.c
- gcd.c
- in.c
- insertion.c
- interpolate48.c
- IT33
- ITS33
  - a.out
  - quicksort.c
- jeet
- leapyear\_func.c
- linedraw\_func.c
- matrix.c
- mean\_sd.c
- Music
- num2.c
- num.c
- p1.c
- p2.c
- p3.c
- p4.c
- p5.c
- p6.c
- p7.c
- pal\_string.c
- p.c
- Polygon.cpp
- Poushali\_34
  - a.out
  - ascitest.c
  - checktest.c
  - converttest.c
  - daystest.c
  - inter1test.c
  - intertest.c
  - maxtest.c
  - P2test.c
  - P3test.c
  - p4test.c
  - P4test.c
  - PoushaliP1test.c
  - rectest.c
- pow\_func.c
- pp1.c
- pp2.c
- pp3.c
- prime.c
- Priya\_11
  - 3q
  - a.out

- bellman.c
- dijktrass.c
- manmin.c
- maxmin.c
- merge.c
- mergesort.c
- quicksort.c
- search2.c
- search.c
- sort.c
- product.c
- Public
- q2.c
- q.c
- roots\_func.c
- s1.c
- s2.c
- s3.c
- s4.c
- s5.c
- sankhyika
  - a.out
  - heapsort.c
  - knapsackfractional.c
  - quicksort.c
  - towersofhanoi.c
- sankhyika.c
- s.c
- Screenshot\ from\ 2023-04-26\ 15-55-10.png
- Screenshot\ from\ 2023-04-26\ 15-55-14.png
- Screenshot\ from\ 2023-04-26\ 15-55-20\ -\ 1.png
- Screenshot\ from\ 2023-04-26\ 15-55-20\ -\ 2.png
- Screenshot\ from\ 2023-04-26\ 15-55-20\ -\ 3.png
- Screenshot\ from\ 2023-04-26\ 15-55-20.png
- Screenshot\ from\ 2023-04-26\ 15-55-21\ -\ 1.png
- Screenshot\ from\ 2023-04-26\ 15-55-21\ -\ 2.png
- Screenshot\ from\ 2023-04-26\ 15-55-21\ -\ 3.png
- Screenshot\ from\ 2023-04-26\ 15-55-21.png
- Screenshot\ from\ 2023-04-26\ 15-55-22\ -\ 1.png
- Screenshot\ from\ 2023-04-26\ 15-55-22\ -\ 2.png
- Screenshot\ from\ 2023-04-26\ 15-55-22.png
- Screenshot\ from\ 2023-04-26\ 15-55-58.png
- Screenshot\ from\ 2023-04-26\ 15-56-07.png
- Screenshot\ from\ 2023-04-26\ 15-56-10.png
- Screenshot\ from\ 2023-04-26\ 15-56-11.png
- Screenshot\ from\ 2023-04-26\ 15-56-48.png
- Screenshot\ from\ 2023-04-26\ 15-57-57.png
- Screenshot\ from\ 2023-04-26\ 15-58-28.png
- Screenshot\ from\ 2023-04-26\ 15-58-45.png
- Screenshot\ from\ 2023-04-26\ 15-59-00.png
- Screenshot\ from\ 2023-04-26\ 15-59-15.png
- Screenshot\ from\ 2023-04-26\ 15-59-35.png
- Screenshot\ from\ 2023-04-26\ 15-59-36\ -\ 1.png
- Screenshot\ from\ 2023-04-26\ 15-59-36\ -\ 2.png
- Screenshot\ from\ 2023-04-26\ 15-59-36\ -\ 3.png
- Screenshot\ from\ 2023-04-26\ 15-59-36.png
- Screenshot\ from\ 2023-04-26\ 15-59-37\ -\ 1.png
- Screenshot\ from\ 2023-04-26\ 15-59-37\ -\ 2.png

- Screenshot\ from\ 2023-04-26\ 15-59-37\ -\ 3.png
- Screenshot\ from\ 2023-04-26\ 15-59-37.png
- Screenshot\ from\ 2023-04-26\ 15-59-58.png
- Screenshot\ from\ 2023-04-26\ 16-00-35.png
- Screenshot\ from\ 2023-04-26\ 16-02-31\ -\ 1.png
- Screenshot\ from\ 2023-04-26\ 16-02-31\ -\ 2.png
- Screenshot\ from\ 2023-04-26\ 16-02-31\ -\ 3.png
- Screenshot\ from\ 2023-04-26\ 16-02-31.png
- Screenshot\ from\ 2023-04-26\ 16-02-32\ -\ 1.png
- Screenshot\ from\ 2023-04-26\ 16-02-32\ -\ 2.png
- Screenshot\ from\ 2023-04-26\ 16-02-32\ -\ 3.png
- Screenshot\ from\ 2023-04-26\ 16-02-32\ -\ 4.png
- Screenshot\ from\ 2023-04-26\ 16-02-32\ -\ 5.png
- Screenshot\ from\ 2023-04-26\ 16-02-32.png
- Screenshot\ from\ 2023-04-26\ 16-02-33\ -\ 1.png
- Screenshot\ from\ 2023-04-26\ 16-02-33\ -\ 2.png
- Screenshot\ from\ 2023-04-26\ 16-02-33\ -\ 3.png
- Screenshot\ from\ 2023-04-26\ 16-02-33\ -\ 4.png
- Screenshot\ from\ 2023-04-26\ 16-02-33.png
- Screenshot\ from\ 2023-04-26\ 16-02-34\ -\ 1.png
- Screenshot\ from\ 2023-04-26\ 16-02-34\ -\ 2.png
- Screenshot\ from\ 2023-04-26\ 16-02-34\ -\ 3.png
- Screenshot\ from\ 2023-04-26\ 16-02-34.png
- Screenshot\ from\ 2023-04-26\ 16-02-35\ -\ 1.png
- Screenshot\ from\ 2023-04-26\ 16-02-35\ -\ 2.png
- Screenshot\ from\ 2023-04-26\ 16-02-35\ -\ 3.png
- Screenshot\ from\ 2023-04-26\ 16-02-35\ -\ 4.png
- Screenshot\ from\ 2023-04-26\ 16-02-35.png
- Screenshot\ from\ 2023-04-26\ 16-02-36\ -\ 1.png
- Screenshot\ from\ 2023-04-26\ 16-02-36\ -\ 2.png
- Screenshot\ from\ 2023-04-26\ 16-02-36.png
- Screenshot\ from\ 2023-04-26\ 16-02-37.png
- Screenshot\ from\ 2023-04-26\ 16-03-44.png
- Screenshot\ from\ 2023-04-26\ 16-04-00.png
- Screenshot\ from\ 2023-04-26\ 16-04-01\ -\ 1.png
- Screenshot\ from\ 2023-04-26\ 16-04-01\ -\ 2.png
- Screenshot\ from\ 2023-04-26\ 16-04-01.png
- Screenshot\ from\ 2023-04-26\ 16-04-10.png
- Screenshot\ from\ 2023-04-26\ 16-04-11.png
- Screenshot\ from\ 2023-04-26\ 16-04-12.png
- Screenshot\ from\ 2023-04-26\ 16-04-13\ -\ 1.png
- Screenshot\ from\ 2023-04-26\ 16-04-13\ -\ 2.png
- Screenshot\ from\ 2023-04-26\ 16-04-13.png
- Screenshot\ from\ 2023-04-26\ 16-05-45.png
- Screenshot\ from\ 2023-04-26\ 16-06-19.png
- Screenshot\ from\ 2023-04-26\ 16-06-49.png
- Screenshot\ from\ 2023-04-26\ 16-07-06.png
- Screenshot\ from\ 2023-04-26\ 16-07-25.png
- Screenshot\ from\ 2023-04-26\ 16-08-03.png
- Screenshot\ from\ 2023-04-26\ 16-08-48.png
- Screenshot\ from\ 2023-04-26\ 16-09-46.png
- searchstring.c
- Shir\_14
  - a.out
  - knap.c
- soumya
  - a.out
  - soumya.c

```
|— SpandanSen_58
|   |— a.out
|   |— calc.c
|   |— Poushali_34
|   |— sum.c
|   |— test.c
|— sqncu.c
|— sum.c
|— table.c
|— t.c
|— Templates
|— test.c
|— to_lower_upper.c
|— Videos
```

24 directories, 219 files

Other Utilities

```
[student@localhost ~]$ clear
```

```
[student@localhost ~]$ more file1
```

I study in STCET.

I am in CSE.

Our Teacher is TBB Mam.

```
[student@localhost ~]$ less file1
```

I study in STCET.

I am in CSE.

Our Teacher is TBB Mam.

(END)

```
[student@localhost ~]$ grep file1
```

~By ARANYA ADHIKARY