

C tags

```
user70@trainux01:~$ cd CGBatch17Oct2024
user70@trainux01:~/CGBatch17Oct2024$ ll
total 48
drwxrwxr-x  8 user70 user70 4096 Nov  5 10:29 ./
drwx----- 23 user70 user70 4096 Nov  6 00:53 ../
drwxrwxr-x  8 user70 user70 4096 Nov  5 10:29 .git/
-rw-rw-r--  1 user70 user70   20 Nov  5 10:29 .gitignore
-rw-rw-r--  1 user70 user70  450 Nov  5 10:29 README.md
drwxrwxr-x  4 user70 user70 4096 Nov  5 10:29 day01_day03/
drwxrwxr-x  3 user70 user70 4096 Nov  5 10:29 day04_day05/
drwxrwxr-x  6 user70 user70 4096 Nov  5 10:29 day06/
drwxrwxr-x  2 user70 user70 4096 Nov  5 10:29 day07/
drwxrwxr-x  2 user70 user70 4096 Nov  5 11:01 day08/
-rw-rw-r--  1 user70 user70    0 Nov  5 10:29 t1.txt
-rw-rw-r--  1 user70 user70    6 Nov  5 10:29 t2.txt.txt
-rw-rw-r--  1 user70 user70    0 Nov  5 10:29 t3.txt
-rw-rw-r--  1 user70 user70   15 Nov  5 10:29 t4.txt
-rw-rw-r--  1 user70 user70    0 Nov  5 10:29 t5.txt
user70@trainux01:~/CGBatch17Oct2024$ cd day07
user70@trainux01:~/CGBatch17Oct2024/day07$ ll
```

```
user70@trainux01:~/CGBatch17Oct2024$ cd day06
user70@trainux01:~/CGBatch17Oct2024/day06$ ll
total 24
drwxrwxr-x  6 user70 user70 4096 Nov  5 10:29 ./
drwxrwxr-x  8 user70 user70 4096 Nov  5 10:29 ../
drwxrwxr-x  3 user70 user70 4096 Nov  5 10:29 cTagsTool/
drwxrwxr-x  2 user70 user70 4096 Nov  5 10:29 gdbTool/
drwxrwxr-x  2 user70 user70 4096 Nov  5 10:29 gprofTool/
drwxrwxr-x  2 user70 user70 4096 Nov  5 10:29 valgrindTool/
user70@trainux01:~/CGBatch17Oct2024/day06$ cd cTagsTool
user70@trainux01:~/CGBatch17Oct2024/day06/cTagsTool$ ll
total 12
drwxrwxr-x  3 user70 user70 4096 Nov  5 10:29 ./
drwxrwxr-x  6 user70 user70 4096 Nov  5 10:29 ../
drwxrwxr-x  3 user70 user70 4096 Nov  5 10:29 ctags/
user70@trainux01:~/CGBatch17Oct2024/day06/cTagsTool$ cd ctags
user70@trainux01:~/CGBatch17Oct2024/day06/cTagsTool/ctags$ ll
total 12
drwxrwxr-x  3 user70 user70 4096 Nov  5 10:29 ./
drwxrwxr-x  3 user70 user70 4096 Nov  5 10:29 ../
drwxrwxr-x  7 user70 user70 4096 Nov  5 10:29 project/
user70@trainux01:~/CGBatch17Oct2024/day06/cTagsTool/ctags$ cd project
user70@trainux01:~/CGBatch17Oct2024/day06/cTagsTool/ctags/project$ ll
total 56
drwxrwxr-x  7 user70 user70  4096 Nov  5 10:29 ./
drwxrwxr-x  3 user70 user70  4096 Nov  5 10:29 ../
-rwxrwxr-x  1 user70 user70   318 Nov  5 10:29 Makefile*
```

[illegible]

Now position the cursor on mod2_func call. Press Ctrl-]. Reach the definition of mod2 func.

Function call stack as of now: main() -> mod1_func() -> mod2_func().

Press Ctrl-t. You will return backwards to the calling place i.e. reach mod1_func()

Function call stack as of now: main() -> mod1_func()

Press Ctrl-t. Will return backwards to the calling place i.e. reach main()

Function call stack as of now: main()

There are many more commands and shortcuts in vi using ctags. e.g. you can give vi command its mod4 func Above command will jump to mod4_func() definition.

```
1 #include <stdio.h>
2 #include "mod1_func.h"
3 #include "mod2_func.h"
4
5 void mod1_func()
6 {
7     printf("mod1_func() is called\n");
8     mod2_func();
9 }
~
~
```

```
1 #include <stdio.h>
2 #include "mod2_func.h"
3 #include "mod3_func.h"
4
5 void mod2_func()
6 {
7     printf("mod2_func() is called\n");
8     mod3_func();
9 }
~
```

```
1 #include <stdio.h>
2 #include "mod3_func.h"
3 #include "mod4_func.h"
4
5 void mod3_func()
6 {
7     printf("mod3_func() is called\n");
8     mod4_func();
9 }
```

```
1 #include <stdio.h>
2 #include "mod4_func.h"
3
4 void mod4_func()
5 {
6     printf("mod4_func() is called\n");
7 }
```