

```
1  #include <unistd.h>
2  #include <stdlib.h>
3  #include <stdio.h>
4  #include <fcntl.h>
5  #include <errno.h>
6  #include <signal.h>
7
8  const char *mylock = "/tmp/LCK.test2";
9
10 void sigint(int signo){
11     if ( unlink(mylock) == 0 ) puts("Quit. Lock released.");
12     exit(EXIT_SUCCESS);
13 }
14
15 int main() {
16     int fd;
17
18     signal(SIGINT,sigint);
19
20     for(;;){
21         while( (fd = open(mylock, O_RDWR | O_CREAT | O_EXCL, 0444)) != -1 ) {
22             printf("Process(%d) - Working in critical region...\n", getpid());
23             sleep(2);                /* working */
24             close(fd);
25             if ( unlink(mylock) == 0 ) puts("Done.\nResource unlocked.");
26             sleep(3);                /* non-critical region */
27         }
28         printf("Process(%d) - Waiting for lock...\n", getpid());
29     }
30
31     exit(EXIT_SUCCESS);
32 }
```