

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