

```
1  #include <stdio.h>
2  #include <pthread.h>
3  int counter = 0;
4  pthread_mutex_t mutex;
5
6  void* threadFunction(void *arg){
7      for(int i = 0; i < 1000000; ++i){
8          pthread_mutex_lock(&mutex);
9          counter++;
10         pthread_mutex_unlock(&mutex);
11     }
12     return NULL;
13 }
14 int main(){
15     pthread_mutex_init(&mutex, NULL);
16     pthread_t thread1, thread2;
17     pthread_create(&thread1, NULL, threadFunction, NULL);
18     pthread_create(&thread2, NULL, threadFunction, NULL);
19     pthread_join(thread1, NULL);
20     pthread_join(thread2, NULL);
21     pthread_mutex_destroy(&mutex);
22     printf("Final counter value: %d\n", counter);
23     return 0;
24 }
```

Final counter value: 2000000

Process exited after 23.05 seconds with return value 0

Press any key to continue . . .