#include <stdio.h>

#include <pthread.h>

pthread\_mutex\_t mutex;

void \*threadFunc(void \*arg) {

pthread\_mutex\_lock(&mutex);

printf("Thread %d entering critical section\n", \*(int \*)arg);

// Critical section

printf("Thread %d leaving critical section\n", \*(int \*)arg);

pthread\_mutex\_unlock(&mutex);

return NULL;

}

int main() {

pthread\_t t1, t2;

int id1 = 1, id2 = 2;

pthread\_mutex\_init(&mutex, NULL);

pthread\_create(&t1, NULL, threadFunc, &id1);

pthread\_create(&t2, NULL, threadFunc, &id2);

pthread\_join(t1, NULL);

pthread\_join(t2, NULL);

pthread\_mutex\_destroy(&mutex);

return 0;

}

