#include <stdio.h>

#include <pthread.h>

#include <stdlib.h>

int counter=0;

pthread\_mutex\_t mtx;

void\* increment(void\* a){

int n = \*((int\*) a);

for(int i=0;i<n;i++){

pthread\_mutex\_lock(&mtx);

counter++;

pthread\_mutex\_unlock(&mtx);

}

return NULL;

}

int main(int argc, char \*\*argv){

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

pthread\_t thr[10];

int a[10];

for(int i=0;i<10;i++){

a[i]=100\*i;

pthread\_create(&thr[i], NULL, increment, &a[i+1]);

}

for(int i=0;i<10;i++)

pthread\_join(thr[i], NULL);

pthread\_mutex\_destroy(&mtx);

printf("%d\n", counter);

return 0; }