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/*****
* FILE: hello.c
* DESCRIPTION:
*   A "hello world" Pthreads program. Demonstrates thread creation and
*   termination.
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* LAST REVISED: 08/09/11
*****/
#include <pthread.h>
#include <stdio.h>
#include <stdlib.h>
#define NUM_THREADS      5

void *PrintHello(void *threadid)
{
    long tid;
    tid = (long)threadid;
    printf("Hello World! It's me, thread %ld!\n", tid);
    pthread_exit(NULL);
}

int main(int argc, char *argv[])
{
    pthread_t threads[NUM_THREADS];
    int rc;
    long t;
    for(t=0;t<NUM_THREADS;t++){
        printf("In main: creating thread %ld\n", t);
        rc = pthread_create(&threads[t], NULL, PrintHello, (void *)t);
        if (rc){
            printf("ERROR; return code from pthread_create() is %d\n", rc);
            exit(-1);
        }
    }

    /* Last thing that main() should do */
    pthread_exit(NULL);
}
```