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/*****
* FILE: hello_arg1.c
* DESCRIPTION:
*   A "hello world" Pthreads program which demonstrates one safe way
*   to pass arguments to threads during thread creation.
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*****/
#include <pthread.h>
#include <stdio.h>
#include <stdlib.h>
#define NUM_THREADS      8

char *messages[NUM_THREADS];

void *PrintHello(void *threadid)
{
    long taskid;

    sleep(1);
    taskid = (long) threadid;
    printf("Thread %ld: %s\n", taskid, messages[taskid]);
    pthread_exit(NULL);
}

int main(int argc, char *argv[])
{
    pthread_t threads[NUM_THREADS];
    long taskids[NUM_THREADS];
    int rc, t;

    messages[0] = "English: Hello World!";
    messages[1] = "French: Bonjour, le monde!";
    messages[2] = "Spanish: Hola al mundo";
    messages[3] = "Klingon: Nuq neH!";
    messages[4] = "German: Guten Tag, Welt!";
    messages[5] = "Russian: Zdravstvuyte, mir!";
    messages[6] = "Japan: Sekai e konnichiwa!";
    messages[7] = "Latin: Orbis, te saluto!";

    for(t=0;t<NUM_THREADS;t++) {
        taskids[t] = t;
        printf("Creating thread %d\n", t);
        rc = pthread_create(&threads[t], NULL, PrintHello, (void *) taskids[t]);
        if (rc) {
            printf("ERROR: return code from pthread_create() is %d\n", rc);
            exit(-1);
        }
    }

    pthread_exit(NULL);
}

```