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/*****
 *
 *          lab2a
 *
 * This program illustrates the use of the
 * fork system call.
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 *****/

#include <stdio.h>
#include <unistd.h>
#include <stdlib.h>
#include <time.h>
#include <string.h>
#include <errno.h>

int main(int argc, char **argv) {
    int pid;
    int i;
    struct timespec request;

    if((pid = fork())) {
        if(pid < 0) {
            printf("Fork error: %s\n",strerror(errno));
            exit(1);
        }
        printf("Parent: child pid: %d\n",pid);
        request.tv_sec = 0;
        request.tv_nsec = 10; //it takes about 0 nanoseconds for child
process to start
        nanosleep(&request, NULL);
        for(i=0; i<100; i++) {
            printf("Parent: %d\n",i);
        }
    } else {
        pid = getppid();
        printf("Child: parent pid: %d\n",pid);
        for(i=0; i<100; i++) {
            printf("Child: %d\n",i);
        }
    }
}

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}
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exit(0);
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}
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