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builtin.c

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/*****
/
/      filename:  builtins.c
/
/      description:  Implements Unix builtin commands environ, cd, pause, and echo.
/
/      author:  Paladino, Zac
/      login id:  cps346-n1.16
/
/      class:  CPS 346
/      instructor:  Perugini
/      assignment:  PJ #1
/
/      assigned:  January 28, 2009
/      due:  February 20, 2009
/
/*****/

#include<unistd.h>
#include<stdio.h>
#include<stdlib.h>
#include<limits.h>

extern char** environ;

void cd(char*** newargv) {
    if((chdir((*newargv)[1]))!= -1){
        setenv("PWD", (*newargv)[1], 1);
    }
    else{
        perror("Not a Directory");
    }
}

void env(){
    int i;
    printf ("The environment list follows:\n");
    for (i=0; environ[i] != NULL; i++){
        printf ("environ[%d]: %s\n", i, environ[i]);
    }
}

void Echo(char*** newargv, int* numtokens){
    int i;
    for(i = 1; i<(*numtokens); i++){
        fprintf(stdout, "%s ", (*newargv)[i]);
    }
    fprintf(stdout, "\n");
}

void Pause(){
    char p;
    printf("System Paused\n");
    while(getchar()!='\n');
}

```