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/* more01.c - version 0.1 of more
 *      read and print 24 lines then pause for a few special commands
 */
#include <stdio.h>
#include <stdlib.h>
#define PAGELEN      24
#define ERROR        1
#define SUCCESS       0
#define has_more_data(x)  (!feof(x))

int do_more(FILE *);
int how_much_more();
void print_one_line(FILE *);

int main( int ac , char *av[] )
{
    FILE      *fp;                /* stream to view with more */
    int       result = SUCCESS;    /* return status from main */

    if ( ac == 1 )
        result = do_more( stdin );
    else
        while ( result == SUCCESS && --ac )
            if ( (fp = fopen( *++av , "r" )) != NULL ){
                result = do_more( fp );
                fclose( fp );
            }
            else
                result = ERROR;

    return result;
}

/* do_more -- show a page of text, then call how_much_more() for instructions
 *      args: FILE * opened to text to display
 *      rets: SUCCESS if ok, ERROR if not
 */
int do_more( FILE *fp )
{
    int       space_left = PAGELEN ;    /* space left on screen */
    int       reply;                  /* user request */

    while ( has_more_data( fp ) ) {    /* more input */
        if ( space_left <= 0 ) {        /* screen full? */
            reply = how_much_more();    /* ask user */
            if ( reply == 0 )           /* n: done */
                break;
            space_left = reply;         /* reset count */
        }
        print_one_line( fp );
        space_left--;                  /* count it */
    }
    return SUCCESS;                    /* EOF => done */
}

/* print_one_line(fp) -- copy data from input to stdout until \n or EOF */
void print_one_line( FILE *fp )
{
    int       c;

    while( ( c = getc(fp) ) != EOF && c != '\n' )
        putchar( c );
    putchar('\n');
}

/* how_much_more -- ask user how much more to show
 *      args: none
 *      rets: number of additional lines to show: 0 => all done
 *      note: space => screenful, 'q' => quit, '\n' => one line
 */
int how_much_more()
{
    int       c;

    printf("\033[7m more? \033[m");    /* reverse on a vt100 */
    while( (c = getchar()) != EOF )
    {
        if ( c == 'q' )                /* q -> N */
            return 0;
        if ( c == ' ' )                /* ' ' => next page */
            return PAGELEN;
        if ( c == '\n' )                /* Enter key => 1 line */
            return 1;
    }
    return 0;
}

```