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/*
COMP9315 14s2 Final Exam

Display all tuples from a table stored in a file
*/

#include <stdlib.h>
#include <stdio.h>
#include <string.h>
#include <fcntl.h>
#include "Scan.h"
#include "Page.h"

#define MAX_TUPLE_LENGTH 200

int main(int argc, char **argv)
{
    int file;
    char tuple[MAX_TUPLE_LENGTH+1]; // input line buffer

    // deal with command-line parameters
    if (argc < 2) {
        fprintf(stderr, "Usage:  %s File\n", argv[0]);
        exit(1);
    }
    if ((file = open(argv[1], O_RDONLY)) < 0) {
        fprintf(stderr, "Cannot open %s\n", argv[1]);
        exit(1);
    }

    // run the scan
    Scan *s;
    if ((s = startScan(file)) == NULL) {
        fprintf(stderr, "Cannot start scan\n");
        exit(1);
    }
    while (nextTuple(s, tuple) != NONE) {
        printf("%s    (tuple %d from page %d)\n", tuple, s->cur_tup, s->cur_page);
    }
    closeScan(s);

    // finish up
    return EXIT_SUCCESS;
}
```