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/**  
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* fileInfo.c - This is my solution to the third lab of eecs2031. In this part I  
* took an input file name from the user and checked it against the file my code  
* was currently reading in the disk. It would go through all the sectors of the  
* file and calculate the file size by using the 128th byte of the sector.  
**/  
#include <stdio.h>  
#include <stdlib.h>  
#include <strings.h>  
#include <string.h>  
#include "dos2sd.h"  
  
static void fileInfo(FILE *fd, struct ATRSSDISK *disk, char *input)  
{  
    int sector, entry, i, count, start, baseFileName, size, exist;  
    char name[9], ext[4], inN[9], inE[4];  
  
    exist = 1;  
    size = 0;  
    baseFileName = 0;  
    for(sector=361;sector<=368;sector++) {  
        for(entry=0;entry<ATR_SECTOR_SIZE;entry+=16) {  
            if(disk->sector[sector-1][entry] == 0x042) {  
                for(i=0;i<8;i++)  
                    name[i] = disk->sector[sector-1][entry+5+i];  
                name[8] = '\0';  
                for(i=0;i<3;i++)  
                    ext[i] = disk->sector[sector-1][entry+13+i];  
                ext[3] = '\0';  
                count = disk->sector[sector-1][entry+1]|disk->sector[se  
ctor-1][entry+2]<<8;  
                start = disk->sector[sector-1][entry+3]|disk->sector[se  
ctor-1][entry+4]<<8;  
                sscanf(input, "%[^.].%s", inN, inE);  
                if(!strcmp(name, inN) && !strcmp(ext, inE)){  
                    exist = 0;  
                    printf("%s.%s sector List ", name, ext);  
                    for(i = start; i <(start + count); i++)  
                    {  
                        printf("%d ", i);  
                        size = size + disk->sector[i][127];  
                    }  
                    printf("Total file size %d\n", size);  
                }  
            }  
            baseFileName++;  
        }  
    }  
    if(exist)  
        printf("The file %s.%s does not exist\n", inN, inE);  
}  
  
int main(int argc, char *argv[])  
{  
    struct ATRSSDISK *disk;  
  
    if(argc != 3) {  
        fprintf(stderr,"usage: %s disk\n", argv[0]);  
    }
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        exit(1);
    }
if((disk = readDisk(argv[1])) == (struct ATRSSDISK *)NULL) {
    fprintf(stderr,"Unable to read disk %s\n", argv[1]);
    exit(1);
}
fileInfo(stdout, disk, argv[2]);
freeDisk(disk);
return 0;
}
```