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#include<stdio.h>
#include<stdlib.h>
#include <fcntl.h>
#include <unistd.h>
#include<string.h>
#include <stdlib.h>

int readint(int *f,int *x){
    char buf[10],c;
    int i=0;
    while(read(*f,&c,sizeof(char))){
        if(c!=' ')break;
    }
    if(c=='-' || (c>='0' && c<='9'))buf[i++] = c;
    while(read(*f,&c,sizeof(char))){
        if(c==' '){
            break;
        }
        buf[i++] = c;
    }
    buf[i]='\0';
    if(i==0)return -1;
    *x = atoi(buf);
    return 0;
}

int main(){
    int f1 = open("f1.txt",O_RDONLY);
    int f2 = open("f2.txt",O_RDONLY);

    if(f1==-1 || f2==-1){
        printf("error : create 2 sorted files f1 and f2\n");
        return 0;
    }

    int f3 = open("f3.txt",O_WRONLY|O_CREAT|O_TRUNC,S_IRWXU);
    int n1,n2,x1,x2;
    x1 = readint(&f1,&n1);
    x2 = readint(&f2,&n2);
    int cnt = 0;
    char buf[10];
    while(x1 != -1 || x2 != -1){
        if(x1!=-1 && (x2==-1 || n1<n2)){
            sprintf (buf, "%d ", n1);
            write(f3,&buf,strlen(buf));
            x1 = readint(&f1,&n1);
        }else if(x2!=-1 && (x1==-1 || n2<=n1)){
            sprintf (buf, "%d ", n2);

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        write(f3,&buf,strlen(buf));  
        x2 = readint(&f2,&n2);  
    }else break;  
}  
write(f3,"\n",1);  
return 0;  
}
```