

```
#include <stdio.h>
#include <stdlib.h>
#define N 10

void sort(int [], int);

/* run this program using the console pauser or add your own getch, system("pause") or input loop */

int main(int argc, char *argv[])
{
    FILE *infile, *outfile;
    int i, n, d, a[N];
    char infilename[81];
    char outfilename[81];
    printf("Enter input file name: ");
    gets(infilename);
    infile = fopen(infilename, "r");
    if(infile != NULL)
    {
        printf("Enter output file name: ");
        gets(outfilename);
        outfile = fopen(outfilename, "w");
        if(outfile != NULL)
        {
            i = 0;
            fscanf(infile, "%d", &d);          //primmer read
            while(!feof(infile) && i < N) //test loop
            {
                a[i++] = d;                    //save data
                fscanf(infile, "%d", &d);     //update read
            }
            n = i;
            for(i = 0; i < n; i++)
            {
                printf("%d\n", a[i]);
                fprintf(outfile, "%d\n", a[i]);
            }
            sort(a, n);
            printf("\nsorted:\n");
            fprintf(outfile, "\nsorted:\n");
            for(i = 0; i < n; i++)
            {
                printf("%d\n", a[i]);
                fprintf(outfile, "%d\n", a[i]);
            }

            fclose(infile);
            fclose(outfile);
        }
        else
        {
            printf("Error opening outfile %s\n", outfilename);
            fclose(infile);
        }
    }
    else
    {
        printf("Error opening infile %s\n", infilename);
    }
    return 0;
}

void sort(int x[], int n)
{
```

```
int e, i, t, more;
e = n-1;
more = 0;
while (more == 0)
{
    more = 1;
    for(i = 0; i < e; i++)
    {
        if(x[i] > x[i+1])
        {
            more = 0;
            t = x[i];
            x[i] = x[i+1];
            x[i+1] = t;
        }
    }
    e--;
}
}
```