

```

1 // 13.2
2 #include <stdio.h>
3 #include <stdlib.h>
4
5 int main()
6 {
7     FILE *data1, *data2, *data3;
8
9     data1 = fopen("data1.txt", "r");
10    data2 = fopen("data2.txt", "r");
11    data3 = fopen("data3.txt", "w");
12
13    if( data1 == NULL || data2 == NULL || data3 == NULL ){
14        printf("Error opening file\n");
15        return EXIT_FAILURE;
16    }
17
18    int A[101], B[101];
19    int i, k, n, m;
20
21    i = 0;
22    while( fscanf(data1, "%d", &A[i++]) != EOF );
23    n = i - 1;
24
25    k = 0;
26    while( fscanf(data2, "%d", &B[k++]) != EOF );
27    m = k - 1;
28
29    i = 0, k = 0;
30    while( i < n && k < m ){
31        if( A[i] < B[k] ){
32            fprintf(data3, "%d\n", A[i++]);
33        }
34        else{
35            fprintf(data3, "%d\n", B[k++]);
36        }
37    }
38    while( i < n ) fprintf(data3, "%d\n", A[i++]);
39    while( k < m ) fprintf(data3, "%d\n", B[k++]);
40
41    fclose(data1);
42    fclose(data2);
43    fclose(data3);
44
45    return 0;
46 }
47

```