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1  #include <stdio.h>
2  #include <stdlib.h>
3  struct Record {
4      int recordNumber;
5      char data[256];
6  };
7  int main() {
8      FILE *file;
9      struct Record record;
10     int recordNumber;
11     file = fopen("sequential_file.bin", "wb");
12     if (file == NULL) {
13         printf("Error opening the file for writing.\n");
14         return 1;
15     }
16     printf("Enter records (Enter '0' as record number to exit):\n");
17     while (1) {
18         printf("Record Number: ");
19         scanf("%d", &record.recordNumber);
20         if (record.recordNumber == 0) {
21             break;
22         }
23         printf("Data: ");
24         scanf(" %[^\n]", record.data);
25         fwrite(&record, sizeof(struct Record), 1, file);
26     }
27     fclose(file);
28     file = fopen("sequential_file.bin", "rb");
29     if (file == NULL) {
30         printf("Error opening the file for reading.\n");
31         return 1;
32     }
33     while (1) {
34         printf("Enter the record number to read (0 to exit): ");
35         scanf("%d", &recordNumber);
36         if (recordNumber == 0) {
37             break;

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38 }
39 int found = 0;
40 while (fread(&record, sizeof(struct Record), 1, file)) {
41     if (record.recordNumber == recordNumber) {
42         printf("Record Number: %d\n", record.recordNumber);
43         printf("Data: %s\n", record.data);
44         found = 1;
45         break;
46     }
47 }
48 if (!found) {
49     printf("Record %d not found.\n", recordNumber);
50 }
51 rewind(file);
52 }
53 fclose(file);
54 return 0;
55 }
```

Enter records (Enter '0' as record number to exit):

Record Number: 456

Data: joshua

Record Number: 777

Data: kelly

Record Number: 0

Enter the record number to read (0 to exit): 0

Process exited after 87.42 seconds with return value 0

Press any key to continue . . . |