

File Structures (2020)

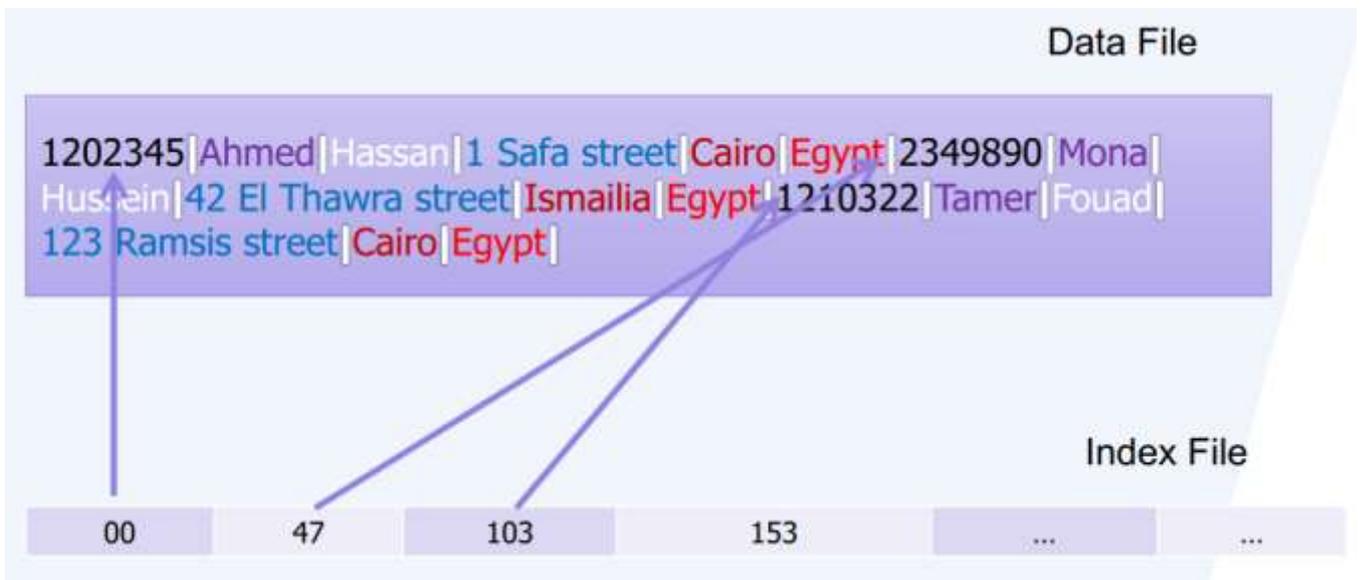
Lab8

Methods for organizing records are:

1. Make records a predictable number of bytes (fixed length records)

1202345	Ahmed	Hassan	1 safe street	Cairo	Egypt
2349890	Mona	Hussein	42 El Thawra street	Ismailia	Egypt
1210322	Tamer	Fouad	123 Ramsis street	Cairo	Egypt
8	10	10	15	15	15

2. Use index to keep track of address



3. Make records a predictable number of fields

```
1202345|Ahmed|Hassan|1 Safa street|Cairo|Egypt|2349890|Mona|
Hussein|42 El Thawra street|Ismailia|Egypt|1210322|Tamer|Fouad|
123 Ramsis street|Cairo|Egypt|
```

❖ In this example, each record consists of 6 fields.

4. Place a delimiter at the end of each record

```
1202345|Ahmed|Hassan|1 Safa street|Cairo|Egypt|#2349890|Mona|
Hussein|42 El Thawra street|Ismailia|Egypt|#1210322|Tamer|Fouad|
123 Ramsis street|Cairo|Egypt|#
```

5. Begin each record with a length indicator

```
471202345|Ahmed|Hassan|1 Safa street|Cairo|Egypt|562349890|Mona|
Hussein|42 El Thawra street|Ismailia|Egypt|501210322|Tamer|Fouad|
123 Ramsis street|Cairo|Egypt|
```

Exercise

1. Write c++ program to write multiple student records (take number of students from user) in a file named “**stu.txt**”, each student has (id, fname, lname, address). Read the data from the file and display it on the screen.