Big Assignment – Extra Descriptions

Let the League Commence

Here is the details of the input and output descriptions:

Input

Input from file "input.txt" is as followed
- First line is 2 integer N M where:
  - N the number of seasons in the league
  - M is the mode of store player files
    - M = 0, player files store as best-fit mode
    - M = 1, player files store as first-fit mode
- N sets of lines is detail of the transfers in that season
  - First line is the P Q, number of transfers in the season.
    - The next P lines describe the club participant changes in that season. Each line is a group of U V, where
      - U = 0 means the particular club will not join the season. U = 1 means the club will join the season.
      - V is the 3 letters, the name of the club.
    - The next Q lines describe the player transfers in that season. Each line consists a group of three information as U V W, where
      - U = 0 means the player will leave the club in that season. U = 1 means the player will join the club in that season.
      - V is the 3 letters, the name of the club.
      - W is the name of the player.

For example:

```
3 0    //3 seasons, best-fit mode
2 24  // Season 1 has 2 changes in clubs participants and 24 changes in player transfers.
1 ARS // ARS joined season 1
1 MUN // MUN joined season 1
1 ARS Mathieu Debuchy // Mathieu Debuchy join ARS in season 1
1 ARS Kieran Gibbs
…….……..
1 ARS Per Mertesacker
1 MUN Nick Powell
1 17
0 MUN // MUN will not join Season 2
1 ARS Eddie Davies
1 ARS Phil Gartside
```

```
....
0 ARS Aaron Ramsey // Aaron Ramsey will leave ARS in season 2
0 ARS Alexis Sánchez
0 ARS Nacho Monreal
0 ARS Santi Cazorla
.....
```

OUTPUT

- The clubs file will be named as "CLUBS.TXT"
- The players files will be named followed by the name of the club, such as "ARS.TXT", "MUN.TXT"
- After the transfer season finished, you must defragment the players files. Then using function "clone" in class MyFile.h to make clones for current DB files. (Note: by using this method, you will not increase your number of read and write actions). The extension is the number of the sessions.

Note:
- You do not need to clone the CLUBS.TXT file as it will be defragmented only once.
- You do not need to clone the clubs which not participate that season

For example:
- We will have the CLUBS.TXT to store the clubs name, which contains "ARS" and "MUN"
- The ARS.TXT and MUN.TXT will store the players of each club after League end.
- The ARS.1 ARS.2 ARS store the players of ARS club in season 1, 2, 3.
- As in the season 2, MUN not join the League. Thus the file MUN.2 can be omitted.