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| **AIM:** | Apply the concepts of structures/union to solve a given problem. |
| **Program 1** | |
| **PROBLEM STATEMENT:** | A men’s sports club keeps elaborate computerized records of all its members. The records contain typical information such as age, address, etc. of each person. But there is also information about whether a member is an active playing members, about whether he is married, and so on; if he is married the record contains information about his wife’s name, the no. of children and their names. Write a program which demonstrates how such a system might be implemented. Show how the names of the wives of all active playing members might be printed. |
| **ALGORITHM:** |  |
| **PROGRAM:** |  |
| **RESULT:** | |
| **Program 2** | |
| **PROBLEM STATEMENT:** | An airline reservation system maintains records for possible flights consisting of STARTING POINT 3 character code DESTINATION 3 character code STARTING TIME integer on scale 0001 – 2400 ARRIVAL TIME integer on scale 0001 – 2400 SEATS positive integer in suitable range. Your program is to read 20 such records followed by queries of the form STARTING POINT– DESTINATION, one to a line. For each query find whether there is a possible flight with a seat available; if so reduce the number of seats by one and print out the flight details (or an apology). |
| **ALGORITHM:** |  |
| **PROGRAM:** |  |
| **RESULT:** | |
| **Program 3** | |
| **PROBLEM STATEMENT:** | A structure “Cricket” consisting of following: i) Player name ii) name of the country number of matches played iii) number of hundreds scored Make a programme to read records n players and to prepare list according to: i) players name ii) countries name iii) number of matches played iv) number of hundreds Scored |
| **ALGORITHM:** |  |
| **PROGRAM:** |  |
| **RESULT:** | |
| **CONCLUSION:** |  |