## Database Normalization #6

Let us take the example of a simple movie library. Each movie has a description, director, and serial number. Customers have a name, address, and membership number. Assume only one copy of each movie exists in the library. We are given the following relations and determinants. The keys for each relation are **CAPITALIZED**.

Relations (The key is CAPITALIZED): customer(name,addr,MEMBERNO) movie(DESCRIPTION,director,serialno) borrow(memberno,DATE,SERIALNO)

Determinants: description->director,serialno serialno->description serialno->director name,addr -> memberno memberno -> name,addr serialno,date -> memberno

The above relation is in  $x^{**}NF$  form where x may take the following values  $\{1,2,3,3.5\}$  corresponding to  $\{1NF, 2NF, 3NF \text{ and BCNF}\}$  respectively.

What is the maximum possible value of \*\*x such that the above relation satisfies the \*x\*NF form? Your answer should only be restricted to one of these numbers:1/2/3/3.5 Do not leave any leading or trailing spaces.