

Name: \_\_\_\_\_

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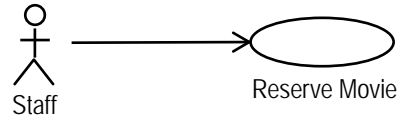
## Software Engineering Specialization

### Exercise: Movie Shop—Class Design

#### Reserve Movie—Staff scenario

This use case allows a staff to reserve up to 5 movies concurrently for a member.

#### Use-case Diagram



#### Preconditions

1. The member has less than 5 movies reserved.

#### Basic Flow

1. The use case begins when the staff actor chooses to reserve a movie.
2. The system prompts the staff to input the member number and movie ID.
3. The staff inputs the member number and movie ID.
4. The system reserves a copy of the movie for the member.
5. The system notifies the staff that the reservation has been made.
6. The use case ends.

Given the above use case and the Movie Shop domain model, answer the following questions.

- a) How would you determine whether a copy of a movie can be reserved (i.e., what would you need to check)?
- b) Given your answer to (a), how can the process of determining whether a copy of a movie can be reserved be made more efficient?