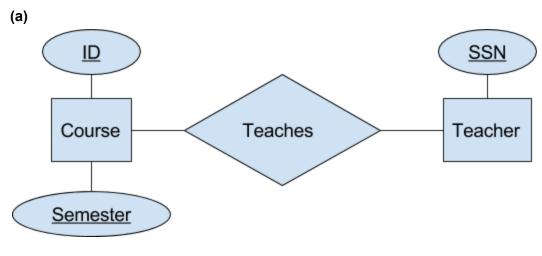
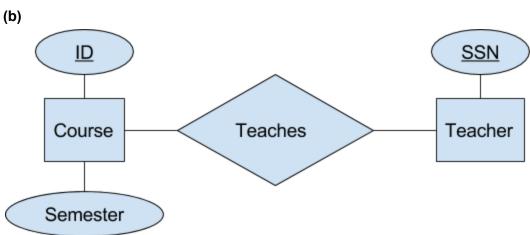
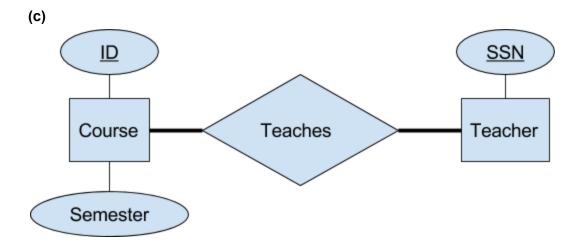
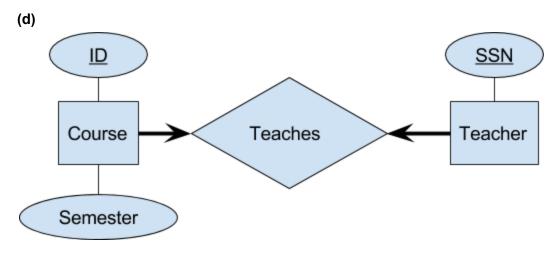
I pledge my honor that I abided by the Stevens Honor System.

## Exercise 1



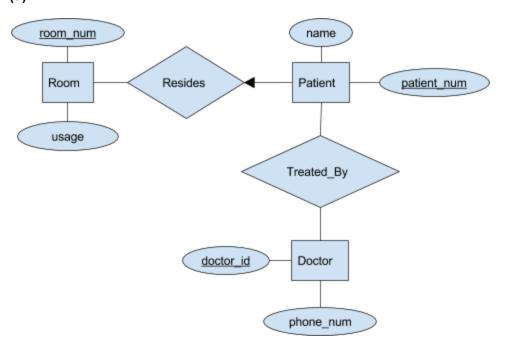






## Exercise 2

(a)



```
CREATE TABLE Resides (
    patient_num INT,
    room_num INT,
    PRIMARY KEY (patient_num, room_num),
    FOREIGN KEY (patient_num) REFERENCES Patient,
    FOREIGN KEY (room_num) REFERENCES Room
);

CREATE TABLE Treated_By (
    patient_num INT,
    doctor_id INT,
    PRIMARY KEY (patient_num, doctor_id),
    FOREIGN KEY (patient_num) REFERENCES Patient,
    FOREIGN KEY (doctor_id) REFERENCES Doctor
);
```