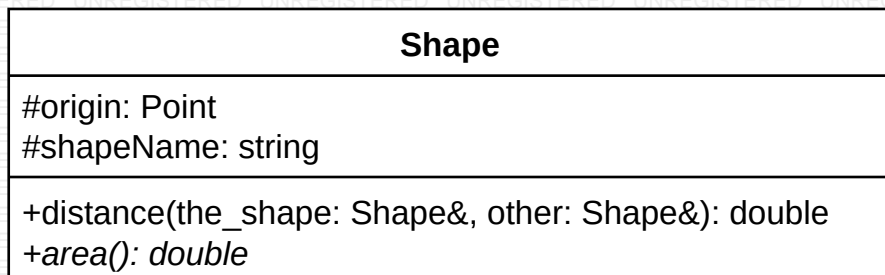
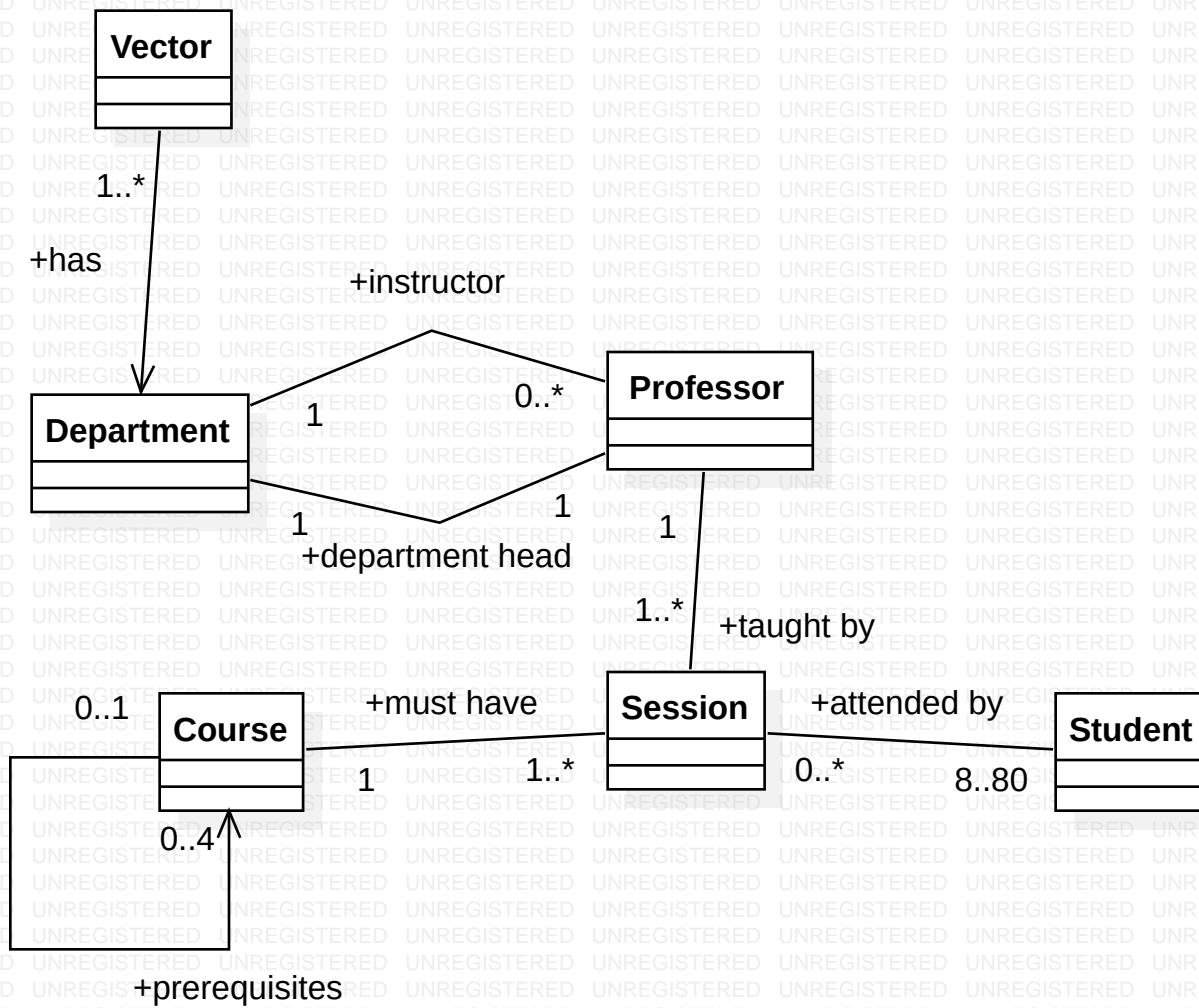


Type: D





Exercise C - From Diagram to Code (3 marks)

```
//  
// Created by Kaumil Patel on 10/20/2021.  
// resizable.h  
//  
#ifndef EXERCISE_C_RESIZEABLE_H  
#define EXERCISE_C_RESIZEABLE_H  
class Resizable{  
public:  
    virtual void enlarge(int n) = 0;  
    virtual void shrink(int n) = 0;  
};  
#endif //EXERCISE_C_RESIZEABLE_H
```

```
//  
// Created by Kaumil Patel on 10/20/2021.  
// moveable.h  
//  
#ifndef EXERCISE_C_MOVEABLE_H  
#define EXERCISE_C_MOVEABLE_H  
class Moveable{  
public:  
    virtual void forward() = 0;  
    virtual void backward() = 0;  
};  
#endif //EXERCISE_C_MOVEABLE_H
```

```
//  
// Created by Kaumil Patel on 10/20/2021.  
// vehicle.h  
//  
#ifndef EXERCISE_C_VEHICLE_H  
#define EXERCISE_C_VEHICLE_H  
#include "moveable.h"  
#include "resizable.h"  
class Vehicle: public Moveable, public Resizable{  
protected:  
    string name;  
public:  
    Vehicle(string name);  
    virtual void move() = 0;
```

```
    void enlarge(int n) final;
    void shrink(int n) final;
    void forward() final;
    void backward() final;
};
#endif //EXERCISE_C_VEHICLE_H
```

```
//
// Created by Kaumil Patel on 10/20/2021.
// car.h
//
#ifndef EXERCISE_C_CAR_H
#define EXERCISE_C_CAR_H
#include "vehicle.h"
class Car: public Vehicle{
private:
    int seats;
public:
    void turn();
    void move() final;
};
#endif //EXERCISE_C_CAR_H
```

Model Main

