public enum VehicleType{small , medium, large};

public abstract class Vehicle

{

protected VehicleType parkingSize;

protected string carNumber;

public VehicleType getSize()

{

return parkingSize;

}

public void parkinSpot(ParkingSpot s)

{

}

public void clearSlot()

{}

public abstract boolean canVehicleFit(ParkingSlot slot);

}

public class Hatchback : Vehicle

{

public Hatchback()

{

parkingSize = VehicleType.small;

}

// Checks if the spot is a Compact or a Large.

public boolean canVehicleFit(ParkingSlot slot)

{return true; }

}

public class SedanCompactSUV : Vehicle

{

public SedanCompactSUV()

{

parkingSize = VehicleType.medium;

}

// Checks if the spot is a Compact or a Large.

public boolean canVehicleFit(ParkingSlot slot)

{return true; }

}

public class SUV : Vehicle

{

public SUV()

{

parkingSize = VehicleType.large;

}

//Checks if the spot is a Compact or a Large.

public boolean canVehicleFit(ParkingSlot slot)

{return true; }

}

public class ParkingSlot

{

private VehicleType parkingSize;

private int parkingNo;

public ParkingSlot(parkingSize)

{}

public int getParkingNo()

{

return parkingNo ;

}

public boolean parkVehicle(Vehicle v)

{

return true;

}

//remove vehicle from parking slot and make that slot avaliable

public void removeVehicle(Vehicle v)

{}

}