

Cab Company

Consider a cab company: it has some number of cars in their possession.

```
class Cab:
    def __init__(self, id, numOfPassengersCarCanAccomodate, make, model,
plate, year, vin):
        self.id = id
        self.make = make
        self.model = model
        self.year = year
        self.VIN = vin
        self.num_of_passengers = numOfPassengersCarCanAccomodate
        self.plate = plate

    def __str__(self):
        """ displays information about the car """
        ## put the code here
```

The company dispatches the cars to the clients. When a cab finished its current ride it returns back to the head office and is waiting for the next ride order. The cars are dispatched on a first come first takes the ride order basis.

You are to define/write/implement the dispatcher class that will represent the cab service company. See some of the suggested methods/functions.

```
class Dispatcher:

    def __init__(self):

    def __add__(self, cab):
        """ adds a car to the cab company/dispatcher """

    def dispatch(self):
        """ the next car is removed from the "cars park";
returns an instance of a car """

    def size(self):
        """ returns the number of cars available at the moment """
```

For testing grab the file **TestingCab.py** from our web-site.

OVER



After you run the TestingCab.py you should see something like this:

Dispatched: Toyota Camry plate number: HELLO

Dispatched: Honda Civic plate number: VECTOR

Dispatched: Honda Civic plate number: FURY

Dispatched: Dodge Caravan plate number: CAMPING

Dispatched: Toyota Sienna plate number: BIKING

Dispatched: Toyota Camry plate number: RIDING

Dispatched: Toyota Camry plate number: HELLO

Dispatched: Honda Civic plate number: FURY

Dispatched: Cannot dispatch: no cars available!