

MEDICAL STORE:

Contained within the test pack are five java files in `com.pharmacy.medicines`

- `Medicine.java`
- `MedicineRepository.java`
- `MedicineRepositoryStub.java`
- `MedicineNotFoundException.java`
- `MedicineService.java`

The following medicines are stored within a test repository [medicine in brackets] which contains the paramaters in the order of(MedicineID, MedicineName,Price,ManufacturerName,Availability)

1, "Dolo 650", 10.25,"Apollo Pharmacy",true
2, "Aceclofenac", 92.41,"Dr Reddy",true
3, "Diclofenac", 32.34,"Cipla",false
4, "Cetirizine", 43.21,"Pfizer",true
5, "pantop", 61.93,"Novartis",false
6, "Ascoril D", 155.55,"Sanofi Pharmacy",true
7, "Aceclofenac", 88.41,"Cipla",true)

INSTRUCTIONS:

In this problem you are required to provide an implementation of the `MedicineService` interface, a simple service that contains four methods.

- `Medicine getMedicine(int id)` throws `MedicineNotFoundException`;
- `Boolean isAvailable(int id)` throws `MedicineNotFoundException`;
- `List<String> manufacturers(String name)` throws `MedicineNotFoundException`;

- String getLowestPriceByManufacturer(String medicineName) throws MedicineNotFoundException;

REQUIREMENTS:

Complete the implementation of the MedicineService interface. The first part of the problem is to complete the following method:

Medicine getMedicine(int id) throws MedicineNotFoundException

- It should retrieve a medicine details by its id and it should throw MedicineNotFoundException wherever necessary.

For the second method,

Boolean isAvailable(int id) throws MedicineNotFoundException

- This Method must check whether a particular medicine is available or not and return a boolean value.
- Throw MedicineNotFoundException wherever necessary.

For the third method,

List<String> manufacturers(String name) throws MedicineNotFoundException

- This method should return all the manufacturer names for a particular medicine name.
- Throw MedicineNotFoundException wherever necessary.

For the fourth method,

String getLowestPriceByManufacturer(String medicineName) throws MedicineNotFoundException

- This method should return the manufacturer name that sells the medicine for the lowest price.

ACCEPTANCE CRITERIA:

Medicine getMedicine(int id) throws MedicineNotFoundException

INPUT CRITERIA(Based on Medicine ID)	EXPECTED OUTPUT
1	1, "Dolo 650", 10.25,"Apollo Pharmacy",true
8	MedicineNotFoundException.

Boolean isAvailable(int id) throws MedicineNotFoundException

INPUT CRITERIA(Based on Medicine ID)	EXPECTED OUTPUT
1	True
3	False
4	True
8	MedicineNotFoundException.

- List<String> manufacturers(String name) throws MedicineNotFoundException;

INPUT CRITERIA(Based on Medicine name)	EXPECTED OUTPUT
Aceclofenac	Dr Reddy,Cipla
Aceclofena	MedicineNotFoundException.

- String getLowestPriceByManufacturer(String medicineName) throws MedicineNotFoundException;

INPUT CRITERIA(Based on Medicine name)	EXPECTED OUTPUT
Aceclofenac	Cipla
Aceclofena	MedicineNotFoundException.