PART B - PROBLEM 4: TREATEDPATIENT CLASS (10 points possible)

We also need a representation for a patient that accounts for the use of drug treatments and manages a collection of `ResistantVirus` instances. For this, we introduce the `TreatedPatient` class, which is a subclass of `Patient`. `TreatedPatient` must make use of the new methods in `ResistantVirus` and maintain the list of drugs that are administered to the patient.

Drugs are given to the patient using the TreatedPatient class's `addPrescription()` method. What happens when a drug is introduced? The drugs we consider **do not directly kill virus particles lacking resistance to the drug**, but prevent those virus particles from reproducing (much like actual drugs used to treat HIV). Virus particles with resistance to the drug continue to reproduce normally. Implement the `TreatedPatient` class.

Hint: `reproduce` function child resistances

```
1  # Enter your definitions for the ResistantVirus and TreatedPatient classes in this box.
2
```

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