<u>Help</u>

shengtatng >

<u>Course</u> <u>Progress</u> <u>Dates</u> <u>Discussion</u> <u>Notes</u> <u>Calendar</u>



()



Part B: Problem 4

□ Bookmark this page

Problem Set due Dec 2, 2022 07:30 +08 Completed

Part B: Problem 4: TreatedPatient Class

10.0/10.0 points (graded)

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

If you are really unsure about how to think about what each child resistances should be changed to, here is a different approach. If the probability mutProb is successful, the child resistance switches. Otherwise, the child resistance stays the same as the parent resistance.

Note: If you want to use numpy arrays, you should add the following lines at the beginning of your code for the grader:

```
import os
os.environ["OPENBLAS_NUM_THREADS"] = "1"
Then, do import numpy as np and use np.METHOD NAME in your code.
```

```
# Part B: Problem 4

# Bookmark this page

# Part B: Problem 4: TreatedPatient Class

# 10.0/10.0 points (graded)

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

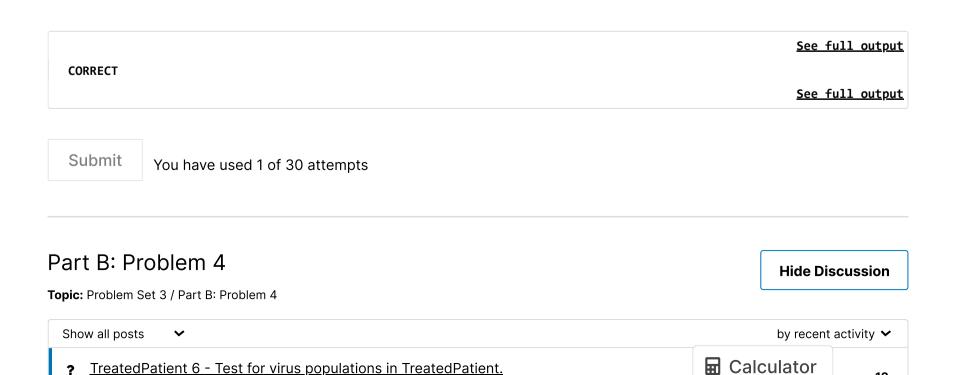
# Drugs are given to the patient using the TreatedPatient class's addPrescription() method. What happens drugs we consider do not directly kill virus particles lacking resistance to the drug, but prevent those reproducing (much like actual drugs used to treat HIV). Virus particles with resistance to the drug cor # Implement the TreatedPatient class.

# Hint: reproduce function child resistances
```

Press ESC then TAB or click outside of the code editor to exit

Correct

Test results



12

Hello. Why s <u>∍s. Am I</u>... Previous Next > ? I can not submit my รอเฉบอก to รแก้นเลยอกพายายานุษาสารุกาอาธา 1 After I found a problem in my program, I tried to submit the new solution but the submit button is grayed out and I only had submitte... ? <u>ModuleNotFoundError: No module named 'ps3b_precompiled_310.pyc'; 'ps3b_precompiled_310' is not a package</u> 7 any idea how to get past this? at the top of my file I wrote import ps3b_precompiled_310.pyc © All Rights Reserved Staff debug L379 and Staff debug L397



edX

About

Affiliates

edX for Business

Open edX

Careers

News

Legal

Terms of Service & Honor Code

Privacy Policy

Accessibility Policy

Trademark Policy

<u>Sitemap</u>

Connect

<u>Blog</u>

Contact Us

Help Center

Security

Media Kit















© 2022 edX LLC. All rights reserved.

深圳市恒宇博科技有限公司 <u>粤ICP备17044299号-2</u>