CS50's Introduction to Programming with Python

OpenCourseWare

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Re-requesting a Vanity Plate



Then, in a file called test_plates.py, implement **four or more** functions that collectively test your implementation of is_valid thoroughly, each of whose names should begin with test_ so that you can execute your tests with:

```
pytest test_plates.py
```

▼ Hints

■ Be sure to include

```
import plates

or

from plates import is_valid

atop [test_plates.py] so that you can call [is_valid] in your tests.

■ Take care to [return], not [print], a [bool] in [is_valid]. Only [main] should call [print].
```

Before You Begin

Log into code.cs50.io (https://code.cs50.io/), click on your terminal window, and execute cd by itself. You should find that your terminal window's prompt resembles the below:

```
$
```

Next execute

mkdir test_plates

to make a folder called test_plates in your codespace.

Then execute

cd test_plates

to change directories into that folder. You should now see your terminal prompt as test_plates/ \$. You can now execute

code test_plates.py

to make a file called test_plates.py where you'll write your tests.

How to Test

To test your tests, run pytest test_plates.py. Try to use correct and incorrect versions of plates.py to determine how well your tests spot errors:

- Ensure you have a correct version of plates.py. Run your tests by executing pytest test_plates.py. pytest should show that all of your tests have passed.
- Modify the correct version of plates.py, perhaps eliminating some of its constraints. Your program might, for example, mistakenly print "Valid" for a license plate of any length! Run your tests by executing pytest test_plates.py. pytest should show that at least one of your tests has failed.

You can execute the below to check your tests using check50, a program CS50 will use to test your code when you submit. (Now there are tests to test your tests!). Be sure to test your tests yourself and determine which tests are needed to ensure plates.py is checked thoroughly.

check50 cs50/problems/2022/python/tests/plates

Green smilies mean your program has passed a test! Red frownies will indicate your program output something unexpected. Visit the URL that check50 outputs to see the input check50 handed to your program, what output it expected, and what output your program actually gave.

How to Submit

In your terminal, execute the below to submit your work.

submit50 cs50/problems/2022/python/tests/plates

5/18/22, 21:34

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