<u>Help</u>

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<u>Course</u>

Progress

<u>Dates</u>

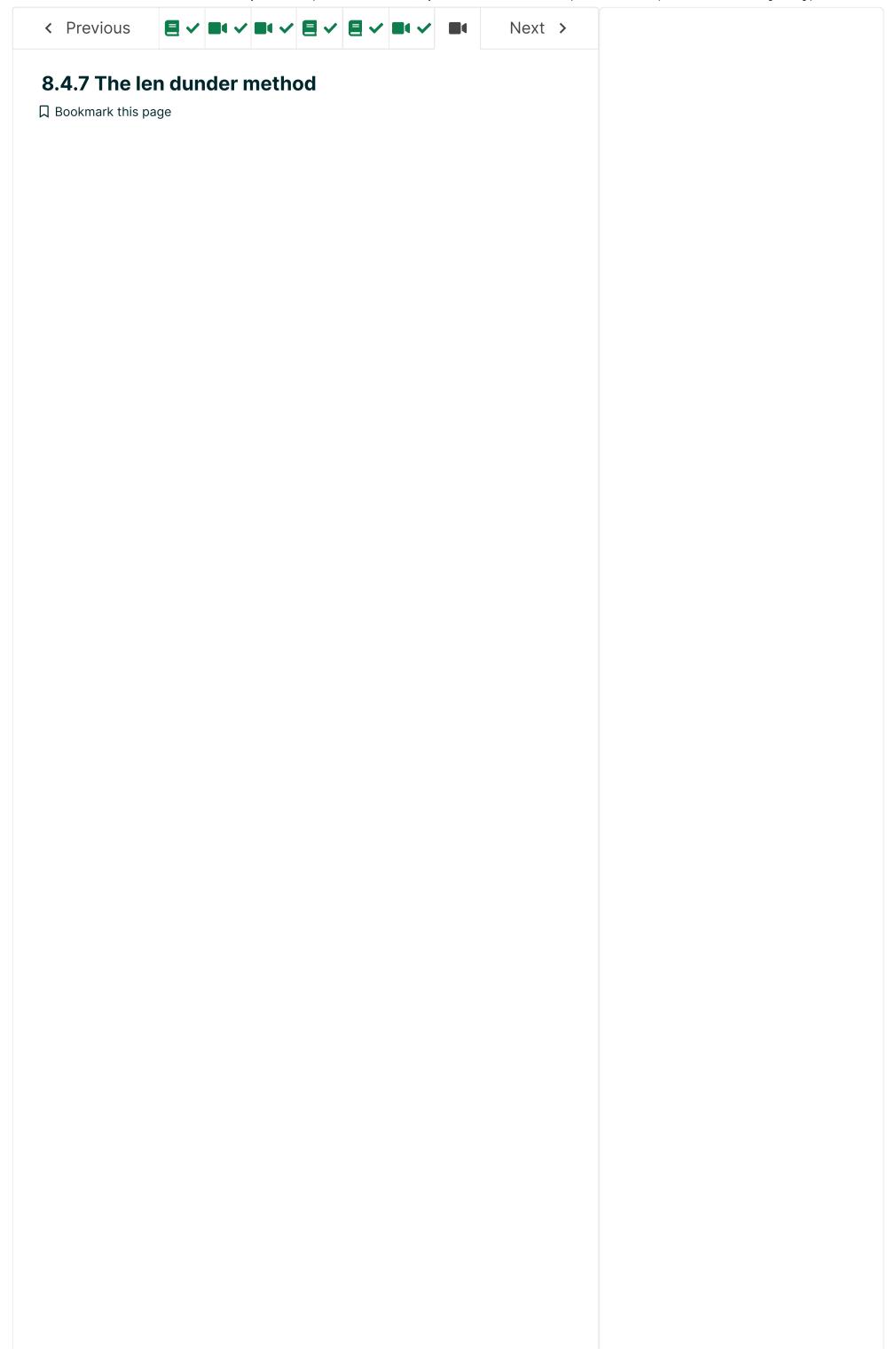
Discussion

MO Index

☆ Course / 8 Initial Value Problems, Python Classes, and ... / 8.4 Introduction to Python...







MO2.2

Python has a variety of special class methods for manipulating objects which are denoted with double underscores immediately before and after the name of the method. These methods are frequently referred to as *dunder methods*, short for double underscore. They also often are called *magic methods* as they have special uses beyond a usual class method.

You have already met one of these methods, __init__, which is the method called during the instantiation of an object. One of the magic aspects of this method is that it is (usually) invoked not by calling it directly, but rather through a call to the class name. For example,

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egipject = IVP(uI, tI, tF, p, f)

will result in the invocation of the IVP.__init__ method.

Now we will introduce another dunder method: __len__. As you About the expect, this method is intended to return the length of an Affiliates of the class. The magic of this method is that it is called edx for Business on len function is called, so:

Open edX

News Careful (f"The length of myIVPobject = {len(myIVPobject)}")

calls myIVPobject. len (). The existence of this dunder method

allows the class designer to determine what is meant by the length of that object. For our IVP class, a reasonable definition is that the Tarmstration of the IVP (i.e. M in our IVP standard Privatal in the IVP class definition that Agassibility Policyn .

Trademark Policy

Sitemagef __len__(self):

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Your Privacyenhoisedefined as number of states (in _uI)

return len(self._uI) Connect

The modified IVPlib and coffee_model codes incorporating information hiding, getters, and the __len__ dunder method are Help center.

Security

Media Kit

Video introducing dunder methods



Start of transcript. Skip

to the end.

