Order matters

Task .

**Step 1**

Open the [Python program below](https://ncce.io/py-order-20) (ncce.io/py-order-20) in your development environment. The program is supposed to convert a length of time from seconds to minutes.

|  |  |
| --- | --- |
| 1  2  3 | print(secs,"seconds is",mins,"whole minutes")  mins = secs // 60  secs = 2567 |

**Step 2**

There are two variables in the program: secs and mins.

Some of the statements **assign** a value to a variable.

Some of the statements **refer to** (use) the value of a variable.

For each of the sentences below, write down which program statement(s) it applies to:

(fill in with 1, 2, 3, or any combination of these line numbers)

|  |  |
| --- | --- |
|  | assigns a value to the secs variable |
|  | assigns a value to the mins variable |
|  | refers to the value of the secs variable |
|  | refers to the value of the mins variable |

**Step 3**

**Run** the program. You will be faced with an error message on line 1:

NameError: name 'secs' is not defined

The statement on line 1 is executed first, and that statement refers to the secs variable. However, no value has been assigned to secs, hence the NameError.

**Rearrange** (change the order of) the statements, so that the program runs to completion and displays the following message:

2567 seconds is 42 whole minutes

There are two things that you will need to remember:

* Program statements are executed in sequence, one after the other.
* When a variable is **referred to** in a statement, it must have previously been **assigned** a value, otherwise a NameError will arise.

Resources are updated regularly — the latest version is available at: [ncce.io/tcc](http://ncce.io/tcc).

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