Catalog





My Programs ▶ ... ▶ Data Structures in Python ▶ Solution: List and Membership Operators

Solution: List and Membership Operators

Quiz: List Indexing

Here is a good code line to use for this task:

 $num_days = days_in_month[month - 1]$

Quiz: Slicing Lists

Here is a good code line to use for this task:

last_three_dates = eclipse_dates[-3:]

Quiz Question 3

Here are our explanations for the answers shown below:

sentence1 is a string, and is therefore an immutable object. That means that while you can refer to individual characters in sentence1 (e.g., you can write things like sentence1[5]) you cannot assign value to them (you cannot write things like sentence1[5] = 'a'). Therefore the **third expression** (sentence1[30]="!") will result in an error.

sentence2 is a list, and lists are mutable, meaning that you can change the value of individual items in sentence2:

- In the **first expression** (sentence2[6]="!") we changed the value of the last item in sentence2 from "." to "!".
- In the **second expression** (sentence2[0]= "Our Majesty") we changed the value of the first item in sentence2 from "I" to "Our Majesty".
- In the **last expression** (sentence2[0:2] = ["We", "want"]) we used slicing to simultaneously change the value of both the first and the second item in sentence2 from "I" and "wish" to "We" and "want".

PYTHON CODE

sentence2[6]="!"

sentence2[0]= "Our Majesty"

sentence1[30]="!"

sentence2[0:2] = ["We", "want"]

VALUE OF SENTENCE1 OR SENTENCE2

["I", "wish", "to", "register", "a", "complaint", "!"]

["Our Majesty", "wish", "to", "register", "a", "complaint", "."]

Error

["We", "want", "to", "register", "a", "complaint", "."]

ous Next

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