course_2_assessment_8

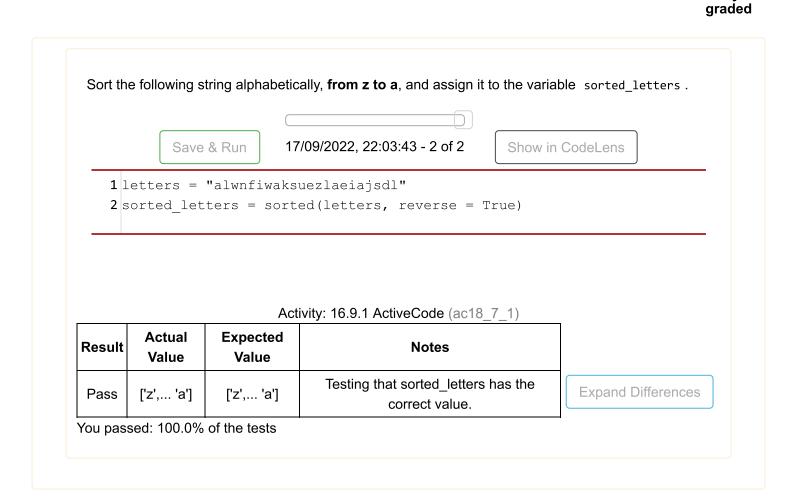
Due: 2018-11-25 01:33:00

Description: Assessment for Sorting lesson

Questions

Not yet

Score: 0 of 8 = 0.0%



Question in Context (/runestone/books/published/fopp/Sorting/ChapterAssessment.html#ac18_7_1)

Not yet graded

Sort the list below, animals, into alphabetical order, a-z. Save the new list as animals_sorted.

Result	Actual Value	Expected Value	Notes
Pass	['antbra']	['antbra']	Testing that animals_sorted was created correctly.

You passed: 100.0% of the tests

17/09/2022, 22:05

Question in Context (/runestone/books/published/fopp/Sorting/ChapterAssessment.html#ac18_7_2)

Not yet graded

Expand Differences

```
The dictionary, medals, shows the medal count for six countries during the Rio Olympics. Sort the
country names so they appear alphabetically. Save this list to the variable alphabetical.
                             17/09/2022, 22:04:06 - 2 of 2
             Save & Run
                                                             Show in CodeLens
    1 medals = {'Japan':41, 'Russia':56, 'South Korea':21,
    2
                  'United States':121, 'Germany':42, 'China':70}
    3 alphabetical = sorted(medals.keys())
                            Activity: 16.9.6 ActiveCode (ac18_7_3)
        Actual
                  Expected
Result
                                              Notes
         Value
                    Value
```

17/09/2022, 22:05 Runestone Interactive

Pass ['Chi...tes'] ['Chi...tes'] Testing that alphabetical value is assigned to correct values.

You passed: 100.0% of the tests

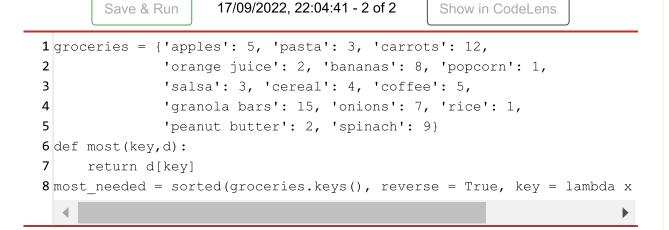
Question in Context (/runestone/books/published/fopp/Sorting/ChapterAssessment.html#ac18_7_3)

Not yet graded

```
Given the same dictionary, medals, now sort by the medal count. Save the three countries with the
 highest medal count to the list, top_three.
                              17/09/2022, 22:04:20 - 2 of 2
             Save & Run
                                                              Show in CodeLens
    1 top three = []
    2 medals = {'Japan':41, 'Russia':56, 'South Korea':21,
                  'United States':121, 'Germany':42, 'China':70}
    3
    4 def top(key,d):
          return d[key]
    6 top three = sorted(medals.keys(), key = lambda x : top(x, medals), reve
                            Activity: 16.9.7 ActiveCode (ac18_7_4)
                   Expected
         Actual
Result
                                               Notes
         Value
                     Value
                               Testing that top_three value is assigned to
                                                                        Expand Differences
       ['Uni...sia']
                   ['Uni...sia']
 Pass
                                           correct values.
You passed: 100.0% of the tests
```

Question in Context (/runestone/books/published/fopp/Sorting/ChapterAssessment.html#ac18_7_4)

We have provided the dictionary <code>groceries</code> . You should return a list of its keys, but they should be sorted by their values, from highest to lowest. Save the new list as <code>most_needed</code> .



Activity: 16.9.8 ActiveCode (ac18_7_5)

Result	Actual Value	Expected Value	Notes
Pass	[ˈgraornˈ]	[ˈgraornˈ]	Testing that most_needed was created correctly.

Expand Differences

You passed: 100.0% of the tests

Question in Context (/runestone/books/published/fopp/Sorting/ChapterAssessment.html#ac18_7_5)

Not yet graded

Create a function called <code>last_four</code> that takes in a single ID number and returns the last four digits. For example, the number 17573005 should return 3005. Then, use the resulting function to sort the list of ids stored in the variable, <code>ids</code>, from lowest to highest. Save this sorted list in the variable, <code>sorted ids</code>. Hint: Remember that only strings can be indexed, so conversions may be needed.

Save & Run

17/09/2022, 22:04:53 - 2 of 2

Show in CodeLens

```
1 def last_four(x):
2    return(str(x)[-4:])
3 ids = [17573005, 17572342, 17579000, 17570002, 17572345, 17579329]
4 sorted_ids = sorted(ids , key = last_four)
```

Activity: 16.9.9 ActiveCode (ac18 7 6)

Result	Actual Value	Expected Value	Notes
Pass	[17579329]	[17579329]	Testing that sorted_ids is assigned to correct values.

Expand Differences

You passed: 100.0% of the tests

Question in Context (/runestone/books/published/fopp/Sorting/ChapterAssessment.html#ac18 7 6)

Not yet graded

Sort the list ids by the last four digits of each id. Do this using lambda and not using a defined function. Save this sorted list in the variable $sorted_id$.

```
Save & Run 17/09/2022, 22:05:01 - 2 of 2 Show in CodeLens
```

1 ids = [17573005, 17572342, 17579000, 17570002, 17572345, 17579329]
2 sorted_id = sorted(ids, key = lambda x : str(x)[-4:])

Activity: 16.9.10 ActiveCode (ac18. 7. 7)

Activity: 10.3.10 ActiveCode (ac10_1_1)			
Result	Actual Value	Expected Value	Notes
Pass	[17579329]	[17579329]	Testing that sorted_id is assigned to correct value.
Pass	'lambda'	'ids =4:])'	Testing your code (Don't worry about actual and expected values).

Expand Differences

Expand Differences

You passed: 100.0% of the tests

Question in Context (/runestone/books/published/fopp/Sorting/ChapterAssessment.html#ac18_7_7)

Not yet graded

```
Save & Run 17/09/2022, 22:05:08 - 2 of 2 Show in CodeLens

1 ex_lst = ['hi', 'how are you', 'bye', 'apple', 'zebra', 'dance']
2 lambda_sort = sorted(ex_lst , key = lambda x : str(x[1]))
```

Activity: 16.9.11 ActiveCode (ac18 7 8)

Result	Actual Value	Expected Value	Notes
Pass	['danbye']	['danbye']	Testing that lambda_sort has the correct value.
Pass	'lambda'	'ex_ls [1]))'	Testing your code (Don't worry about actual and expected values).

Expand Differences

Expand Differences

You passed: 100.0% of the tests

Question in Context (/runestone/books/published/fopp/Sorting/ChapterAssessment.html#ac18_7_8)

Score Me

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