

course_2_assessment_8

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

Description: Assessment for Sorting lesson

Score: 0 of 8 = 0.0%

Questions

Not yet
graded

Sort the following string alphabetically, **from z to a**, and assign it to the variable `sorted_letters` .

Save & Run

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Show in CodeLens

```
1 letters = "alwnfiwaksuezlaeiajsdl"
2 sorted_letters = sorted(letters, reverse=True)
```

ActiveCode (ac18_7_1)

Result	Actual Value	Expected Value	Notes
Pass	['z',... 'a']	['z',... 'a']	Testing that sorted_letters has the correct value.

Expand Differences

You passed: 100.0% of the tests

Not yet
graded

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

Save & Run

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Show in CodeLens

```
1
2 animals = ['elephant', 'cat', 'moose', 'antelope', 'elk', 'rabbit', 'zebra', 'yak', 'salam
3 animals_sorted = sorted(animals)
4
```

ActiveCode (ac18_7_2)

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

Expand Differences

You passed: 100.0% of the tests

Not yet
graded

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`.

Save & Run

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Show in CodeLens

```
1
2 medals = {'Japan':41, 'Russia':56, 'South Korea':21, 'United States':121, 'Germany':42, 'C
3 alphabetical = sorted(medals.keys())
4
```



ActiveCode (ac18_7_3)

Result	Actual Value	Expected Value	Notes
Pass	['Chi...tes']	['Chi...tes']	Testing that alphabetical value is assigned to correct values.

Expand Differences

You passed: 100.0% of the tests

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` .

Save & Run

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Show in CodeLens

```
1
2 medals = {'Japan':41, 'Russia':56, 'South Korea':21, 'United States':121, 'Germany':42, 'C
3 top_three = [k for k, v in sorted(medals.items(), key=lambda item: item[1], reverse=True)]
4
```



ActiveCode (ac18_7_4)

Result	Actual Value	Expected Value	Notes
Pass	['Uni...sia']	['Uni...sia']	Testing that top_three value is assigned to correct values.

Expand Differences

You passed: 100.0% of the tests

We have provided the dictionary `groceries` . 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 `most_needed` .

Save & Run

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Show in CodeLens

```
1
2 groceries = {'apples': 5, 'pasta': 3, 'carrots': 12, 'orange juice': 2, 'bananas': 8, 'pop
3 most_needed = [k for k, v in sorted(groceries.items(), key=lambda item: item[1], reverse=T
4
5
```


ActiveCode (ac18_7_5)

Result	Actual Value	Expected Value	Notes
Pass	['gra...orn']	['gra...orn']	Testing that <code>most_needed</code> was created correctly.

Expand Differences

You passed: 100.0% of the tests

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

 Save & Run

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Show in CodeLens

```
1
2 def last_four(x):
3     return x % 10000
4
5 ids = [17573005, 17572342, 17579000, 17570002, 17572345, 17579329]
6 sorted_ids = sorted(ids, key=last_four)
7
```

ActiveCode (ac18_7_6)

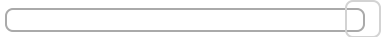
Result	Actual Value	Expected Value	Notes
Pass	[1757...9329]	[1757...9329]	Testing that sorted_ids is assigned to correct values.

[Expand Differences](#)

You passed: 100.0% of the tests

**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

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Show in CodeLens

```
1
2 ids = [17573005, 17572342, 17579000, 17570002, 17572345, 17579329]
3 sorted_id = sorted(ids, key=lambda x: x % 10000)
4
5
```

ActiveCode (ac18_7_7)

Result	Actual Value	Expected Value	Notes
Pass	[1757...9329]	[1757...9329]	Testing that sorted_id is assigned to correct value.
Pass	'lambda'	'\nids ...00)\n\n'	Testing your code (Don't worry about actual and expected values).

Expand Differences

Expand Differences

You passed: 100.0% of the tests

Not yet graded

Sort the following list by each element's second letter a to z. Do so by using lambda. Assign the resulting value to the variable `lambda_sort` .

Save & Run

11/9/2020, 11:22:23 PM - 2 of 2

Show in CodeLens

```

1
2 ex_lst = ['hi', 'how are you', 'bye', 'apple', 'zebra', 'dance']
3 lambda_sort = sorted(ex_lst, key=lambda x: x[1])
4
5

```

ActiveCode (ac18_7_8)

Result	Actual Value	Expected Value	Notes
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Pass	['dan...bye']	['dan...bye']	Testing that lambda_sort has the correct value.	Expand Differences
Pass	'lambda'	'\nex_l...1])\n\n'	Testing your code (Don't worry about actual and expected values).	Expand Differences

You passed: 100.0% of the tests

Score Me