This is a series of small tasks using lambda [functions](https://alearnbg.adastragrp.com/mod/url/view.php?id=28648).

1. You have the following sentence as string:

    sentence = 'This is a lAmBdA FuNction task'

 - Split the sentence into a list

 - Write a lambda function that accepts the list of words returns multiple lists

   each list containing the actual word, the word uppercase, the word lowercase, the length of the word

   return the results as a 2d list

**Expected result:**

**[**

**['This', 'THIS', 'this', 4],**

**['is', 'IS', 'is', 2],**

**['a', 'A', 'a', 1],**

**['lAmBdA', 'LAMBDA', 'lambda', 6],**

**['FuNction', 'FUNCTION', 'function', 8],**

**['task', 'TASK', 'task', 4]**

**]**

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 2. You have the following sentence as string:

    sentence = 'This is a lAmBdA FuNction task'

 - Split the sentence into a list

 - write a series of [functions](https://alearnbg.adastragrp.com/mod/url/view.php?id=28648) that return a string uppercase, lowercase and the length of a string

 - create a list of those [functions](https://alearnbg.adastragrp.com/mod/url/view.php?id=28648) and use map to apply all [functions](https://alearnbg.adastragrp.com/mod/url/view.php?id=28648) to the sentence list

 return the results as a 2d list

**Expected result:**

**[**

**['THIS', 'this', 4],**

**['IS', 'is', 2], ['A', 'a', 1],**

**['LAMBDA', 'lambda', 6],**

**['FUNCTION', 'function', 8],**

**['TASK', 'task', 4]**

**]**

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 3. You have the following lists

 a = [1, 11, 23, 44, 16]

 b = [2, 3, 5, 6, 7, 8, 44, 16]

 Using a lambda function return a list with values that are common between the 2 lists

**Expected results: [44, 16]**

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 4. You have the following sentence as string:

    sentence = 'This is a lAmBdA FuNction task'

 - Split the sentence into a list

 Using a lambda function sort the list by the last character of each word alphabetically

**Expected result: ['a', 'lAmBdA', 'task', 'FuNction', 'This', 'is']**