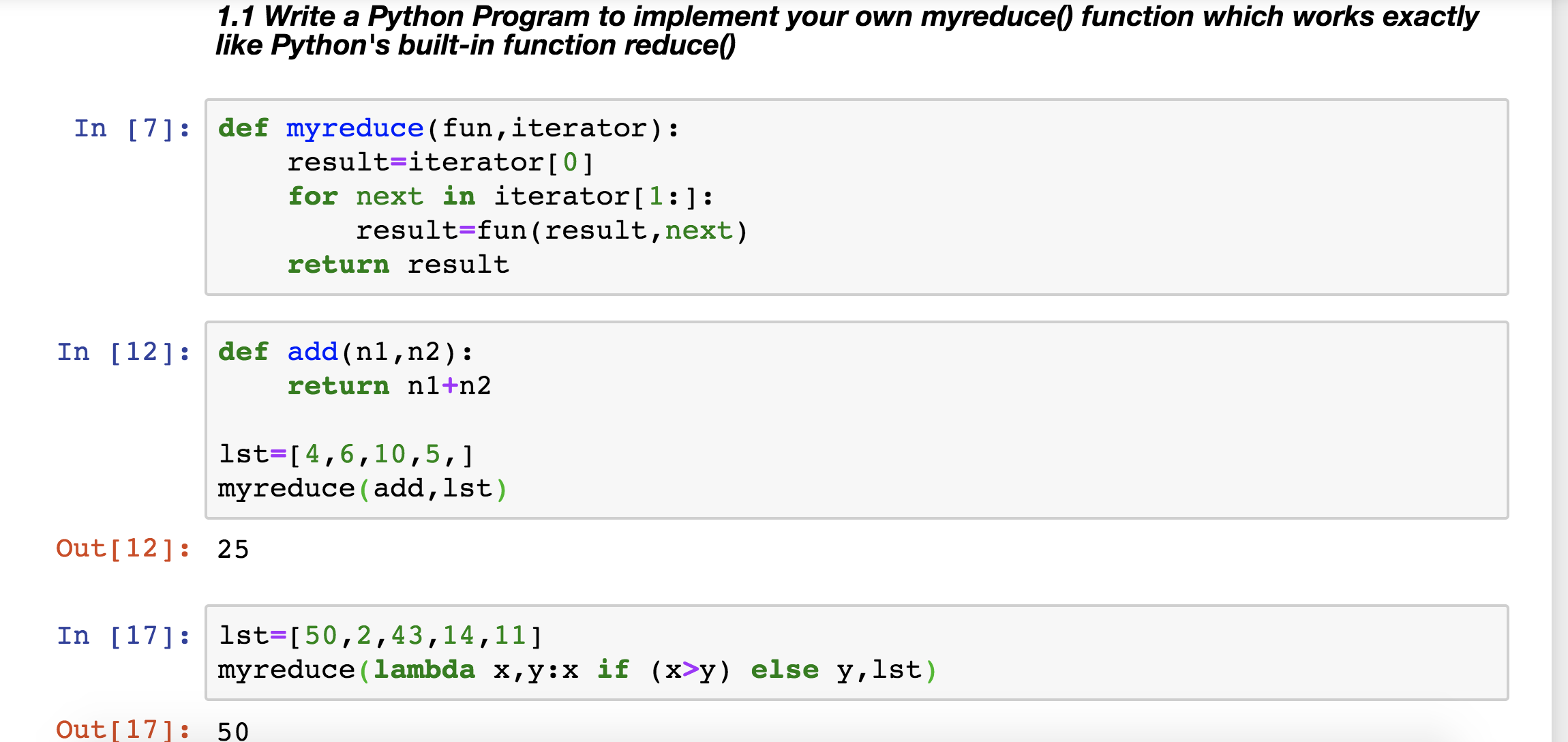
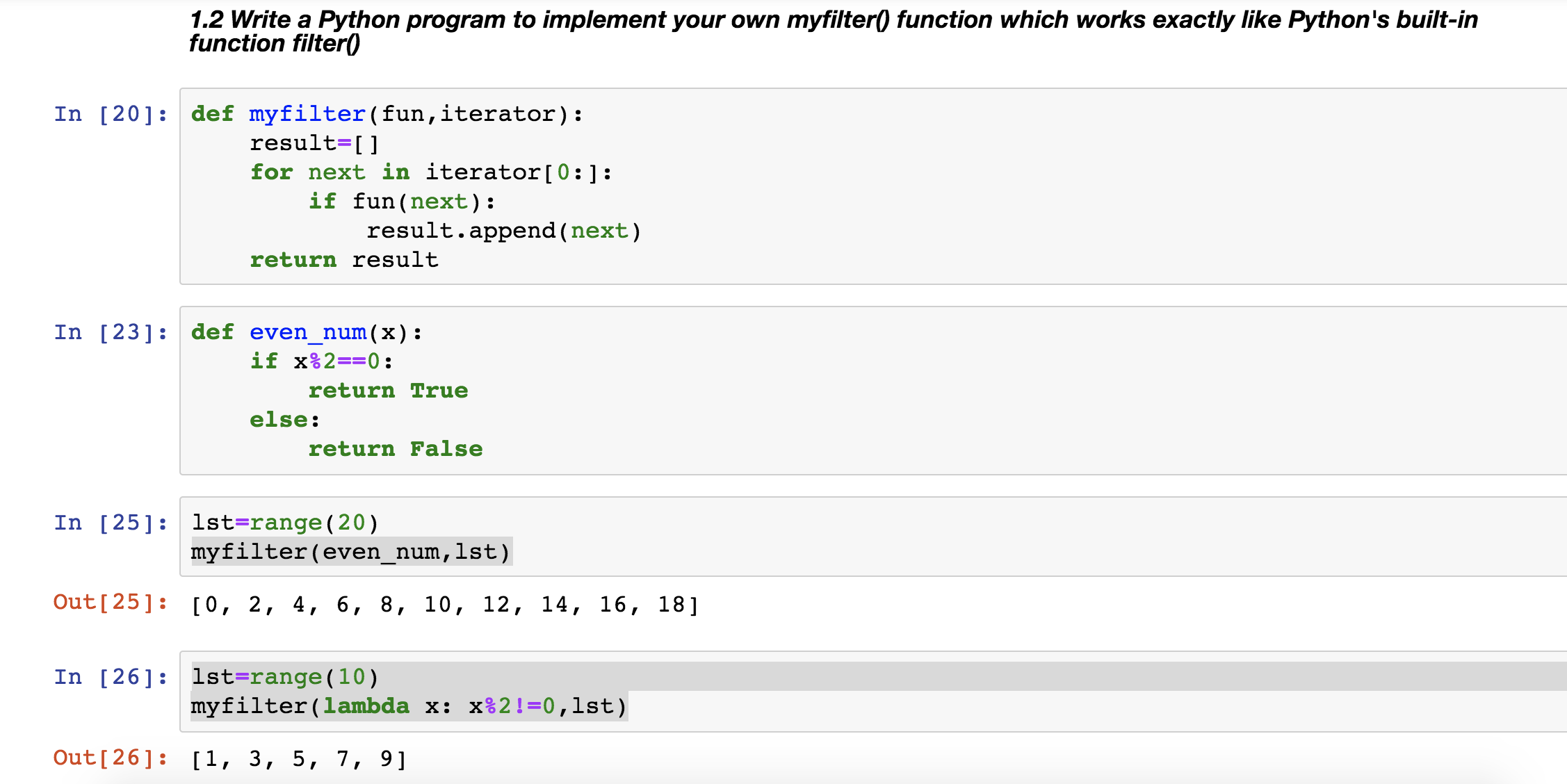
1.1 Write a Python Program to implement your own myreduce() function which works exactly like Python's built-in function reduce()

**SolutionScreenshot:-**



1.2 Write a Python program to implement your own myfilter() function which works exactly like Python's built-in function filter()

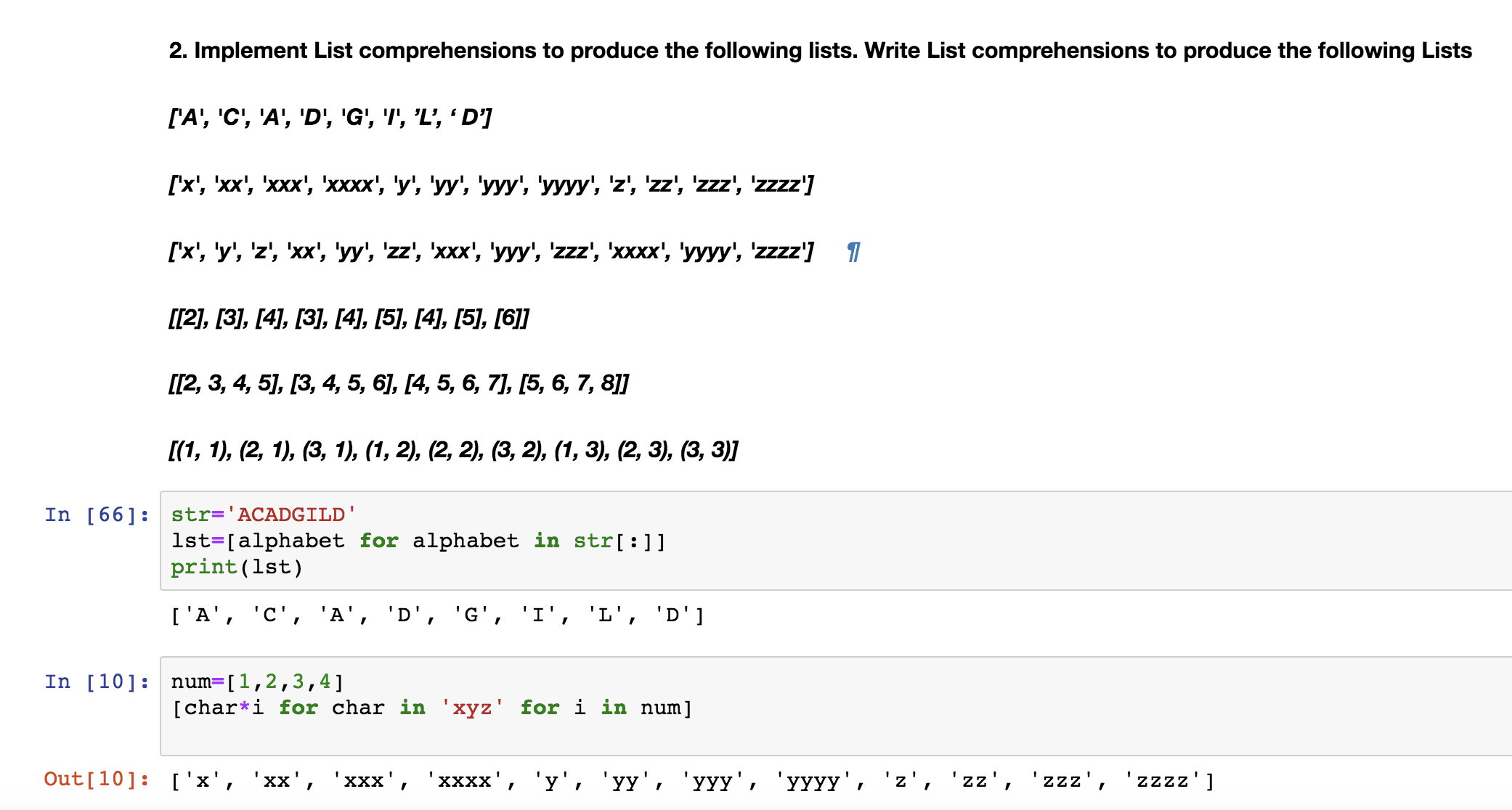
**SolutionScreenshot:-**

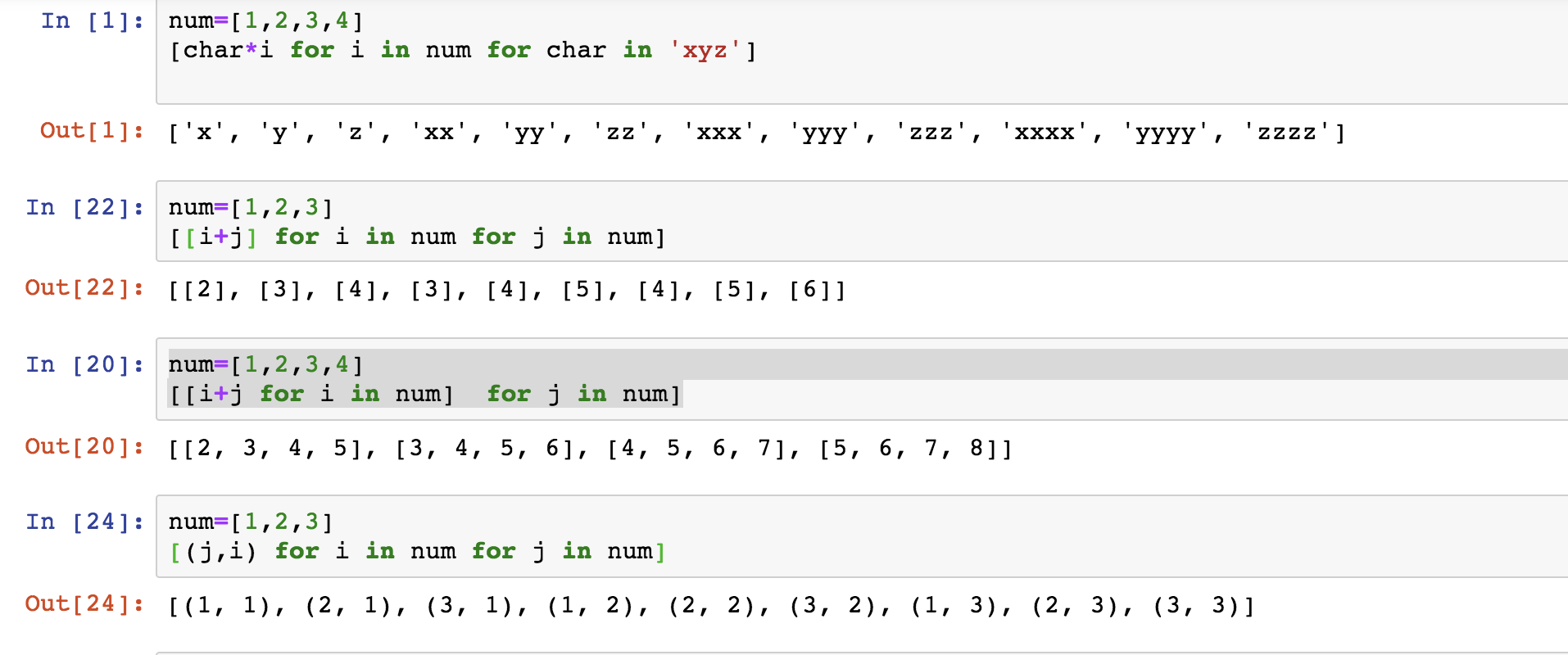
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2. Implement List comprehensions to produce the following lists. Write List comprehensions to produce the following Lists

* ['A', 'C', 'A', 'D', 'G', 'I', ’L’, ‘ D’]
* ['x', 'xx', 'xxx', 'xxxx', 'y', 'yy', 'yyy', 'yyyy', 'z', 'zz', 'zzz', 'zzzz']
* ['x', 'y', 'z', 'xx', 'yy', 'zz', 'xxx', 'yyy', 'zzz', 'xxxx', 'yyyy', 'zzzz']
* [[2], [3], [4], [3], [4], [5], [4], [5], [6]]
* [[2, 3, 4, 5], [3, 4, 5, 6], [4, 5, 6, 7], [5, 6, 7, 8]]
* [(1, 1), (2, 1), (3, 1), (1, 2), (2, 2), (3, 2), (1, 3), (2, 3), (3, 3)]

**SolutionScreenshot:-**

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3. Implement a function longestWord() that takes a list of words and returns the longest one.

