

Python Developer Test

The Python developer test consists of 3 questions.

1. **Date Calculation**

The Irish lottery draw takes place twice weekly on a Wednesday and a Saturday at 8pm. Write a function that calculates and returns the next valid draw date based on the current **date and time** and also on an optional supplied date.

2. **Least recently used cache**

Implement a least recently used (LRU) cache mechanism using a decorator and demonstrate its use in a small script. The LRU **must** be able to admit a `'max_size'` parameter that by default has to be 100.

3. **Find the anagram**

Write a function that accepts a word (string) and a list of words (list or tuple of strings) and return back a list with the valid anagrams for the word inside the given words list.

NOTE: Please provide the **source code** and **unit tests** for the exercises where possible (Code can be submitted via compressed attachment or online repository i.e. github, svn, etc).

