Sequential Descrambler

You are given a sequence of `n` lower-case letters and a `k`-tuple of integers that indicate partition-lengths of the sequence. Also, you have a dictionary of commonly used words. The `n` letters represent a phrase of `k` words where the length of the j^{th} word is the j^{th} element of the tuple.

Here is an example: `w = 'trleeohelh'` , `k=(5,5)`. Your generator `descrambler(w,k)` should iteratively yield the output `['hello three','three hello','hello there','there hello']`. Note that because both words have `5` characters, it is not possible to definitively know the order of the phrase.

Here are more interesting examples:

cost lot of times
confused/perplexed in the yield and DFS
nested DFS is much easier than stacked DFS, especially when involving the restore state
but yield disable nested DFS, thus, you'd better use another function

```
>>> list(descrambler('choeounokeoitg',(3,5,6)))
['one tough cookie',
 'one ought cookie',
 'neo tough cookie',
 'neo ought cookie']
>>> list(descrambler('qeodwnsciseuesincereins',(4,7,12)))
['wise insider consequences']
```

Hints

- Use a hash-map to process the input file of valid words
- The order of the strings in the output sequence is irrelevent.
- Within each output string, the order of words should follow the sequence of word-lengths in `k`.
- Use `itertools`.
- The autograder may time out if your solution is too slow.
- The word list above is in a file `/tmp/google-10000-english-no-swears.txt` on the autograder.

Please put your Python code in a Python script file and upload it. Please retain your submitted source files! Remember to use all the best practices we discussed in class. You can use any module in the Python standard library, but third-party modules (e.g., Numpy, Pandas) are restricted to those **explicitly** mentioned in the problem description.

Tips:

- After you have submitted your file, do **not** use the browser back or reload buttons to navigate or open the page in multiple browser tabs, as this may cause your `attempts` to decrease unexpectedly. It may take up to thirty seconds for your code to be processed, so please be **patient**.
- If you find yourself back at the main page without any feedback or change in your `attempts` then it means that your code timed out or crashed in some unexpected way.
- Ensure that your development environment does not presume the existence of certain packages for the autograder. The autograder does not have anything other than the standard library and those third-party libraries **explicitly** named in the problem description.
- Do not leave extraneous statements in your code like test cases, print statements, or anything else besides what is needed to evaluate your submission because the the autograder will spend its limited time executing those lines, which may result in unexpected crashes or timeouts.

浏览... 0405.py Upload Python source code file

Correct! Back to assignments. functional points = 25 /25 and validation points = 5/5