Markov text generation

Write a bare-bones Markov text generator.

Implement a function of the form

```
finish_sentence(sentence, n, corpus, randomize=False)
```

that takes four arguments:

- 1. a sentence [tuple of tokens] that we're trying to build on,
- 2. n [int], the length of n-grams to use for prediction, and
- 3. a source corpus [tuple of tokens]
- 4. a flag indicating whether the process should be randomize [bool]

and returns an extended sentence until the first *, ?, or ! is found OR until it has 10 total tokens.

If the input flag randomize is false, the text generator should be deterministic. Choose at each step the single most probable next token. When multiple tokens are equally probable, choose the one that is first alphabetically.

If randomize is true, draw the next word randomly from the appropriate distribution.

Use stupid backoff ($\alpha = 0.4$) and no smoothing.

Provide some example applications of your function in both deterministic and stochastic modes, for a few sets of seed words and a few different n.

As one (simple) test case, use the following inputs:

```
sentence = ['she', 'was', 'not']
n = 3
corpus = nltk.word_tokenize(
    nltk.corpus.gutenberg.raw('austen-sense.txt').lower()
)
randomize = False
```

For this deterministic case, the result should be:

```
['she', 'was', 'not', 'in', 'the', 'world', ',', 'and', 'the', 'two']
```

Add your method to a file/module named mtg.py and use the test script test_mtg.py to verify that the test examples work.

You should turn in a document (<code>txt</code>, <code>md</code>, or <code>pdf</code>) answering all of the **red** items above. You should also turn in Python scripts (<code>py</code>) for each of the **blue** items. Unless otherwise specified, you may use only numpy and the standard library.