wh words in text2: 1869
 wh words in text7: 631

2. The readability scores (ARI) for the genres in brown corpus is as follows:

```
Section | ARI
      adventure | 4.0841684990890705
belles lettres | 10.987652885621749
     editorial | 9.471025332953673
       fiction | 4.9104735321302115
     government | 12.08430349501021
       hobbies | 8.922356393630267
         humor | 7.887805248319808
       learned | 11.926007043317348
          lore | 10.254756197101155
       mystery | 3.8335518942055167
          news | 10.176684595052684
       religion | 10.203109907301261
       reviews | 10.769699888473433
       romance | 4.34922419804213
science fiction | 4.978058336905399
```

This shows that genres adventure, fiction, mystery, romance, science fiction are easily readable whereas genres like belles letters, government, learned, lore, news, religion, reviews are difficult to read.

3. The differences between Porter Stemmer and Lancaster Stemmer is as follows:

```
words in lancaster not in porter: {'twic', 'wer', 'reply', 'his', 'oh', 'going', 'in', 'cam', 'lucky', 'on', 'neighb', 'bef', 'farm', 'ar'}
```

```
words in porter not in lancaster: {'Oh', 'were', 'twice', 'came', 'repli', 'befor', 'one', 'lucki', 'go', 'neighbor', 'farmer', 'ln', 'are', 'hi'}
```

It seems like Lancaster has mapped all the words to proper stems than porter. Porter missed words like 'twice', 'came'. But porter performed very well in finding stem of words like 'farmer' to 'farm'. But, it is difficult to find the exact difference with this small text.

4. I have used word\_tokenize() to count the average word length and for splitting text into sentences I used sent\_tokenize() which inbuilt uses an punkt sentence tokenizer instance which is trained with "nltk\_data/tokenizers/punkt/English.pickle".

I have added a flag to print the sentences after tokenizing.

I have calculated readability based on these two parameters. The readability is given below, Reading difficulty of rural.txt: 12.61676279331764

Reading difficulty of science.txt: 12.773526577547678

It is clear that both have almost equal readability scores but rural.txt is little easily readable when compared to science.txt.