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**BookClient.Java**

Top 10 words found in Charlotte Bronte’s books

but not in Jane Austen’s and their counts.

1. moore - 527

2. rochester - 312

3. helstone - 266

4. monsieur - 264

5. keeldar - 226

6. bretton - 219

7. yorke - 207

8. graham - 198

9. paul - 170

10. pupils - 160

To find the top 10 words and number of times they occur in books by Charlotte Bronte but not used by Jane Austen, I used sets, array and a Map. First I store the words that are found in Charlotte Bronte books to a set called SetA then I stored the words that are in Jane Austen to a set, SetB. Now SetA represents unique words in Charlotte Bronte novels, while SetB refer to unique words in Jane Austen novels. Using a for each loop to iterate through each element of SetA( Charlotte Bronte), I checked if a given word is not contained in SetB( Jane Austen ). If a given word is in SetA but not in SetB I added that word to a new sew called NewSet.

NewSet store unique words in SetA ( Charlotte Bronte) that are not contained in SetB ( Jane Austen). NewSet is a set so it only contains unique words, which means I can’t count the number of times a given word appear in Charlotte Bronte books.

To solve this problem I created an array containing words that are found in Charlotte Bronte novels, arrayA. Then I used for each loop to add words in an array to a map if only a given word is also found in newSet (unique words in Charlotte Bronte novels that are not in Jane Austen novels).

Once I add all the words in an array that are also found in newSet to a map. I iterate through the keyset of a map to get the maximum value in a map. Once the first maximum value is found along with the word, it represents most used words in Charlotte Bronte novels that are not found in Jane Austen novels. To find the next most used word, I removed the first most used word from the map and I iterate through the keyset of the map to find the next maximum value in the map.

In order to get the top 10 most used words, I used a for loop to remove the previous most used word and find the next one.