

My Date of Birth is April 21 1999 So I selected Book 4. In file1.txt I copied pages from 21 to 31 and in File2.txt from 99 to 109

IMPORTING NECESSARY PACKAGES

```
In [1]: pip install nltk
import numpy as np
import pandas as pd
import nltk
nltk.download('words')
from nltk.corpus import words
```

READING CONTENT FROM FILE 1

```
In [2]: with open('File1.txt','r') as file:
        Str = file.read()
        print(Str)
```

Harry Potter and the Goblet of Fire – J.K. Rowling scar hurting him, and about his worries about Voldemort, was laughable. And yet it was because of Voldemort that Harry had come to live with the Dursleys in the first place. If it hadn't been for Voldemort, Harry would not have had the lightning scar on his forehead. If it hadn't been for Voldemort, Harry would still have had parents. ...Harry had been a year old the night that Voldemort –the most powerful Dark wizard for a century, a wizard who had been gaining power steadily for eleven years – arrived at his house and killed his father and mother. Voldemort had then turned his wand on Harry; he had performed the curse that had disposed of many full-grown witches and wizards in his steady rise to power – and, incredibly, it had not worked. Instead of killing the small boy, the curse had rebounded upon Voldemort. Harry had survived with nothing but a lightning-shaped cut on his forehead, and Voldemort had been reduced to something barely alive. His powers gone, his life almost extinguished, Voldemort had fled; the terror in which the secret community of witches and wizards had lived for so long had lifted, Voldemort's followers had disbanded, and Harry Potter had become famous. It had been enough of a shock for Harry to discover, on his eleventh birthday, that he was a wizard; it had been even more disconcerting to find out that everyone in the hidden wizarding world knew his name. Harry had arrived at Hogwarts to find that heads turned and whispers followed him wherever he went. But he was used to it now: At the end of this summer, he would be starting his fourth year at Hogwarts, and Harry was already counting the days until he would be back at the castle again.

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But there was still a fortnight to go before he went back to school. He looked hopelessly around his room again, and his eye paused on the birthday cards his two best friends had sent him at the end of July. What would they say if Harry wrote to them and told them about his scar hurting? At once, Hermione Granger's voice seemed to fill his head, shrill and panicky. "Your scar hurt? Harry, that's really serious. ... Write to Professor Dumbledore! And I'll go and check Common Magical Ailments and Afflictions. ... Maybe there's something in there about curse scars. ..." Yes, that would be Hermione's advice: Go straight to the headmaster of Hogwarts, and in the meantime, consult a book. Harry stared out of the window at the inky blue-black sky. He doubted very much whether a book could help him now. As far as he knew, he was the only living person to have survived a curse like Voldemort's; it was highly unlikely, therefore, that he would find his symptoms listed in Common Magical Ailments and Afflictions. As for informing the headmaster, Harry had no idea where Dumbledore went during the summer holidays. He amused himself for a moment, picturing Dumbledore, with his long silver beard, full-length wizard's robes, and pointed hat, stretched out on a beach somewhere, rubbing suntan lotion onto his long crooked nose. Wherever Dumbledore was, though, Harry was sure that Hedwig would be able to find him; Harry's owl had never yet failed to deliver a letter to anyone, even without an address. But what would he write? Dear Professor Dumbledore, Sorry to bother you, but my scar hurt this morning. Yours sincerely, Harry Potter.

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Even inside his head the words sounded stupid. And so he tried to imagine his other best friend, Ron Weasley's, reaction, and in a moment, Ron's red hair and long-nosed, freckled face seemed to swim before Harry, wearing a bemused expression. "Your scar hurt? But ... but You-Know-Who can't be near you now, can he? I mean ... you'd know, wouldn't you? He'd be trying to do you in again, wouldn't he? I dunno, Harry, maybe curse scars always tinge a bit.

... I'll ask Dad. ..." Mr. Weasley was a fully qualified wizard who worked in the Misuse of Muggle Artifacts Office at the Ministry of Magic, but he didn't have any particular expertise in the matter of curses, as far as Harry knew. In any case, Harry didn't like the idea of the whole Weasley family knowing that he, Harry, was getting jumpy about a few moments' pain. Mrs. Weasley would fuss worse than Hermione, and Fred and George, Ron's sixteen-year-old twin brothers, might think Harry was losing his nerve. The Weasleys were Harry's favorite family in the world; he was hoping that they might invite him to stay any time now (Ron had mentioned something about the Quidditch World Cup), and he

somehow didn't want his visit punctuated with anxious inquiries about his scar. Harry kneaded his forehead with his knuckles. What he really wanted (and it felt almost shameful to admit it to himself) was someone like – someone like a parent: an adult wizard whose advice he could ask without feeling stupid, someone who cared about him, who had had experience with Dark Magic. ...

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And then the solution came to him. It was so simple, and so obvious, that he couldn't believe it had taken so long – Sirius. Harry leapt up from the bed, hurried across the room, and sat down at his desk; he pulled a piece of parchment toward him, loaded his eagle-feather quill with ink, wrote Dear Sirius, then paused, wondering how best to phrase his problem, still marveling at the fact that he hadn't thought of Sirius straight away. But then, perhaps it wasn't so surprising – after all, he had only found out that Sirius was his godfather two months ago. There was a simple reason for Sirius's complete absence from Harry's life until then – Sirius had been in Azkaban, the terrifying wizard jail guarded by creatures called dementors, sightless, soul-sucking fiends who had come to search for Sirius at Hogwarts when he had escaped. Yet Sirius had been innocent – the murders for which he had been convicted had been committed by Wormtail, Voldemort's supporter, whom nearly everybody now believed dead. Harry, Ron, and Hermione knew otherwise, however; they had come face-to-face with Wormtail only the previous year, though only Professor Dumbledore had believed their story. For one glorious hour, Harry had believed that he was leaving the Dursleys at last, because Sirius had offered him a home once his name had been cleared. But the chance had been snatched away from him – Wormtail had escaped before they could take him to the Ministry of Magic, and Sirius had had to flee for his life. Harry had helped him escape on the back of a hippogriff called Buckbeak, and since then, Sirius had been on the run. The home Harry might have had if Wormtail had not escaped had been haunting him all summer. It had been doubly hard to return to the

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Dursleys knowing that he had so nearly escaped them forever. Nevertheless, Sirius had been of some help to Harry, even if he couldn't be with him. It was due to Sirius that Harry now had all his school things in his bedroom with him. The Dursleys had never allowed this before; their general wish of keeping Harry as miserable as possible, coupled with their fear of his powers, had led them to lock his school trunk in the cupboard under the stairs every summer prior to this. But their attitude had changed since they had found out that Harry had a dangerous murderer for a godfather – for Harry had conveniently forgotten to tell them that Sirius was innocent. Harry had received two letters from Sirius since he had been back at Privet Drive. Both had been delivered, not by owls (as was usual with wizards), but by large, brightly colored tropical birds. Hedwig had not approved of these flashy intruders; she had been most reluctant to allow them to drink from her water tray before flying off again. Harry, on the other hand, had liked them; they put him in mind of palm trees and white sand, and he hoped that, wherever Sirius was (Sirius never said, in case the letters were

intercepted), he was enjoying himself. Somehow, Harry found it hard to imagine dementors surviving for long in bright sunlight; perhaps that was why Sirius had gone south. Sirius's letters, which were now hidden beneath the highly useful loose floorboard under Harry's bed, sounded cheerful, and in both of them he had reminded Harry to call on him if ever Harry needed to. Well, he needed to now, all right. ...

Harry's lamp seemed to grow dimmer as the cold gray light that precedes sunrise slowly crept into the room. Finally, when the sun had risen, when his bedroom

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walls had turned gold, and when sounds of movement could be heard from Uncle Vernon and Aunt Petunia's room, Harry cleared his desk of crumpled pieces of parchment and reread his finished letter.

Dear Sirius,

Thanks for your last letter. That bird was enormous; it could hardly get through my window.

Things are the same as usual here. Dudley's diet isn't going too well. My aunt found him smuggling doughnuts into his room yesterday. They told him they'd have to cut his pocket money if he keeps doing it, so he got really angry and chucked his PlayStation out of the window. That's a sort of computer thing you can play games on. Bit stupid really, now he hasn't even got Mega-Mutilation Part Three to take his mind off things.

I'm okay, mainly because the Dursleys are terrified you might turn up and turn them all into bats if I ask you to.

A weird thing happened this morning, though. My scar

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hurt again. Last time that happened it was because Voldemort was at Hogwarts. But I don't reckon he can be anywhere near me now, can he? Do you know if curse scars sometimes hurt years afterward?

I'll send this with Hedwig when she gets back; she's off hunt-ing at the moment. Say hello to Buckbeak for me.

Harry

Yes, thought Harry, that looked all right. There was no point putting in the dream; he didn't want it to look as though he was too worried. He folded up the

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parchment and laid it aside on his desk, ready for when Hedwig returned. Then he got to his feet,

stretched, and opened his wardrobe once more. Without glancing at his reflection, he started to get dressed before going down to breakfast.

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THE INVITATION

By the time Harry arrived in the kitchen, the three Dursleys were already seated around the table. None of them looked up as he entered or sat down. Uncle Vernon's large red face was hidden behind the morning's Daily Mail, and Aunt Petunia was cutting a grapefruit into quarters, her lips pursed over her horselike teeth.

Dudley looked furious and sulky, and somehow seemed to be taking up even more space than usual. This was saying something, as he always took up an entire side of the square table by himself. When Aunt Petunia put a quarter of unsweetened grapefruit onto Dudley's plate with a tremulous "There you are, Diddy darling," Dudley glowered at her. His life had taken a most unpleasant turn since he had come home for the summer with his end-of-year report.

Uncle Vernon and Aunt Petunia had managed to find excuses for his bad marks as usual: Aunt Petunia always insisted that Dudley was a very gifted boy whose teachers didn't understand him, while Uncle

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Vernon maintained that "he didn't want some swotty little nancy boy for a son anyway." They also skated over the accusations of bullying in the report – "He's a boisterous little boy, but he wouldn't hurt a fly!" Aunt Petunia had said tearfully.

However, at the bottom of the report there were a few well-chosen comments from the school nurse that not even Uncle Vernon and Aunt Petunia could explain away. No matter how much Aunt Petunia wailed that Dudley was big-boned, and that his poundage was really puppy fat, and that he was a growing boy who

needed plenty of food, the fact remained that the school outfitters didn't stock knickerbockers big enough for him anymore. The school nurse had seen what Aunt Petunia's eyes – so sharp when it came to spotting fingerprints on her gleaming walls, and in observing the comings and goings of the neighbors – simply refused to see: that far from needing extra nourishment, Dudley had reached roughly the size and weight of a young killer whale.

So – after many tantrums, after arguments that shook Harry's bedroom floor, and many tears from Aunt Petunia – the new regime had begun. The diet sheet that had been sent by the Smeltings school nurse had been taped to the fridge, which had been emptied of all Dudley's favorite things – fizzy drinks and cakes, chocolate bars and burgers – and filled instead with fruit and vegetables and the sorts of things that Uncle Vernon called "rabbit food." To make Dudley feel better about it all, Aunt Petunia had insisted that the whole family follow the diet too. She

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now passed a grapefruit quarter to Harry. He noticed that it was a lot smaller than Dudley's. Aunt Petunia seemed to feel that the best way to keep up Dudley's morale was to make sure that he did, at least, get more to eat than Harry.

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But Aunt Petunia didn't know what was hidden under the loose floorboard upstairs. She had no idea that Harry was not following the diet at all. The moment he had got wind of the fact that he was expected to survive the summer on carrot sticks, Harry had sent Hedwig to his friends with pleas for help, and they had risen to the occasion magnificently. Hedwig had returned from Hermione's house with a large box stuffed full of sugar-free snacks. (Hermione's parents were dentists.) Hagrid, the Hogwarts gamekeeper, had obliged with a sack full of his own homemade rock cakes. (Harry hadn't touched these; he had had too much experience of Hagrid's cooking.) Mrs. Weasley,

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however, had sent the family owl, Errol, with an enormous fruitcake and assorted meat pies. Poor Errol, who was elderly and feeble, had needed a full five days to recover from the journey. And then on Harry's birthday (which the Dursleys had completely ignored) he had received four superb birthday cakes, one each from Ron, Hermione, Hagrid, and Sirius. Harry still had two of them left, and so, looking forward to a real breakfast when he got back upstairs, he ate his grapefruit without complaint. Uncle Vernon laid aside his paper with a deep sniff of disapproval and looked down at his own grapefruit quarter.

"Is this it?" he said grumpily to Aunt Petunia. Aunt Petunia gave him a severe look, and then nodded pointedly at Dudley, who had already finished his own grapefruit quarter and was eyeing Harry's with a very sour look in his piggy little eyes. Uncle Vernon gave a great sigh, which ruffled his large, bushy mustache, and picked up his spoon.

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The doorbell rang. Uncle Vernon heaved himself out of his chair and set off down the hall. Quick as a flash, while his mother was occupied with the kettle, Dudley stole the rest of Uncle Vernon's grapefruit. Harry heard talking at the door, and someone laughing, and Uncle Vernon answering curtly. Then the front door closed, and the sound of ripping paper came from the hall.

Aunt Petunia set the teapot down on the table and looked curiously around to see where Uncle Vernon had got to. She didn't have to wait long to find out; after about a minute, he was back. He looked livid. "You," he barked at Harry. "In the living room. Now." Bewildered, wondering what on earth he was supposed to have done this time, Harry got up and followed Uncle Vernon out of the kitchen and into the next room. Uncle Vernon closed the door sharply behind both of them.

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“So,” he said, marching over to the fireplace and turning to face Harry as though he were about to pronounce him under arrest. “So. ”

Harry would have dearly loved to have said, “So what?” but he didn’t feel that Uncle Vernon’s temper should be tested this early in the morning, especially when it was already under severe strain from lack of food. He therefore settled for looking politely puzzled. “This just arrived,” said Uncle Vernon. He brandished a piece of purple writing paper at Harry. “A letter. About you.”

MAPPER FUNCTION FOR WORD COUNT

```
In [3]: def func_mapper(text) :  
        words = text.split()  
        wordCounts = [[word,1] for word in words]  
        return wordCounts;
```

REDUCER FUNCTION FOR WORD COUNT

```
In [17]: def func_reducer(counts,fileName) :  
        finalCounts = dict()  
        for word,count in counts :  
            if word in finalCounts.keys() :  
                finalCounts[word] = finalCounts[word] + 1;  
            else :  
                finalCounts[word] = 1  
  
        import json  
        with open(fileName, 'w') as convert_file:  
            convert_file.write(json.dumps(finalCounts))  
        return finalCounts;  
func_reducer(func_mapper(Str), "Output1.txt")
```



```
Out[17]: {'Harry': 50,  
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          'and': 81,  
          'the': 116,  
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          'J.K.': 11,  
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'Ron,': 2,
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'offered': 1,
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'Buckbeak,': 1,
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'due': 1,
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'before;': 1,
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'powers,': 1,

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'innocent.': 1,
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'Drive.': 1,
'Both': 1,
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'hoped': 1,
'that,': 1,
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'south.': 1,
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'to.': 3,
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'dimmer': 1,
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'light': 1,
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'Finally,': 1,
'sun': 1,
'risen,': 1,
'P': 6,
'g': 6,
'e': 6,
'|': 6,
'26': 1,
'www.ztcprep.com': 9,
'walls': 1,
'gold,': 1,
'sounds': 1,
'movement': 1,
'heard': 2,
'Uncle': 16,
'Vernon': 12,
'Aunt': 16,
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'finished': 2,
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'your': 1,
'last': 1,
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'hardly': 1,
'get': 3,
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'window.': 2,
'Things': 1,
'are': 2,
'same': 1,
'here.': 1,
'Dudley's': 4,
'diet': 4,
'isn't': 1,
'going': 2,
'too': 3,
'well.': 1,
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'smuggling': 1,
'doughnuts': 1,
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'They': 2,
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'pocket': 1,
'money': 1,
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'doing': 1,
'it,': 1,
'got': 7,
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'chucked': 1,
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'on.': 1,
'Bit': 1,
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'really,': 1,
'hasn't': 1,

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'Three': 1,
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'morning.': 2,
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'Last': 1,
'Hogwarts.': 1,
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'reckon': 1,
'anywhere': 1,
'me': 1,
'Do': 1,
'know': 2,
'sometimes': 1,
'afterward?': 1,
'send': 1,
'gets': 1,
'back;': 1,
'she's': 1,
'hunt-ing': 1,
'moment.': 1,
'Say': 1,
'hello': 1,
'Buckbeak': 1,
'me.': 1,
'point': 1,
'putting': 1,
'dream;': 1,
'look': 2,
'worried.': 1,
'folded': 1,
'27': 1,

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'aside': 2,
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'Then': 2,
'feet,': 1,
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'opened': 1,
'wardrobe': 1,
'more.': 1,
'Without': 1,
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'reflection,': 1,
'started': 1,
'dressed': 1,
'breakfast.': 1,
'28': 1,
'THE': 1,
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'By': 1,
'kitchen,': 1,
'three': 1,
'seated': 1,
'table.': 1,
'None': 1,
'entered': 1,
'or': 1,
'down.': 1,
'Vernon's': 3,
'large': 2,
'behind': 2,
'morning's': 1,
'Daily': 1,
'Mail,': 1,
'Petunia': 13,
'cutting': 1,
'grapefruit': 6,
'quarters,': 1,
'lips': 1,
'pursed': 1,
'over': 3,

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'teeth.': 1,
'Dudley': 7,
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'sulky,': 1,
'taking': 1,
'space': 1,
'usual.': 1,
'This': 1,
'saying': 1,
'something,': 1,
'took': 1,
'entire': 1,
'side': 1,
'square': 1,
'table': 2,
'When': 1,
'quarter': 3,
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'plate': 1,
'tremulous': 1,
'“There': 1,
'are,': 1,
'Diddy': 1,
'darling,”': 1,
'glowered': 1,
'her.': 1,
'unpleasant': 1,
'end-of-year': 1,
'report.': 1,
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'bad': 1,
'marks': 1,
'usual:': 1,
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'gifted': 1,
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'little': 3,
'nancy': 1,
'son': 1,
'anyway.'': 1,
'also': 1,
'skated': 1,
'accusations': 1,
'bullying': 1,
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'fly!': 1,
'said': 3,
'tearfully.': 1,
'However,': 1,
'bottom': 1,
'well-chosen': 1,
'comments': 1,
'nurse': 3,
'explain': 1,
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'wailed': 1,
'big-boned,': 1,
'poundage': 1,
'puppy': 1,
'fat,': 1,
'growing': 1,
'plenty': 1,
'food,': 1,
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'outfitters': 1,
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'knickerbockers': 1,
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'anymore.': 1,
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'eyes': 1,
'sharp': 1,
'spotting': 1,

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'observing': 1,
'comings': 1,
'goings': 1,
'neighbors': 1,
'simply': 1,
'refused': 1,
'see.': 1,
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'extra': 1,
'nourishment,': 1,
'reached': 1,
'roughly': 1,
'size': 1,
'weight': 1,
'young': 1,
'killer': 1,
'whale.': 1,
'So': 1,
'tantrums,': 1,
'arguments': 1,
'shook': 1,
'floor,': 1,
'tears': 1,
'new': 1,
'regime': 1,
'begun.': 1,
'sheet': 1,
'Smeltings': 1,
'taped': 1,
'fridge,': 1,
'emptied': 1,
'fizzy': 1,
'drinks': 1,
'cakes,': 2,
'chocolate': 1,
'bars': 1,
'burgers': 1,
'filled': 1,
'instead': 1,

```

'fruit': 1,
'vegetables': 1,
'sorts': 1,
'“rabbit': 1,
'food.”': 1,
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'make': 2,
'feel': 3,
'better': 1,
'follow': 1,
'too.': 1,
'She': 3,
'passed': 1,
'Harry.': 4,
'noticed': 1,
'lot': 1,
'smaller': 1,
'Dudley’s.': 1,
'way': 1,
'keep': 1,
'morale': 1,
'did,': 1,
'least,': 1,
'eat': 1,
'30': 1,
'upstairs.': 1,
'following': 1,
'all.': 1,
'moment': 1,
'wind': 1,
'expected': 1,
'survive': 1,
'carrot': 1,
'sticks,': 1,
...}

```

```

In [18]: ##READING FILE2
with open('File2.txt','r') as file:
    Str1 = file.read()
### STORING ALL ENGLISH WORDS INTO A VARIABLE
english_vocab = set(words.words())

```



```
### FUNCTION TO CHECK A WORD IS ENGLISH WORD OR NOT
def is_english_word(word):
    return word.lower() in english_vocab
englishWords = []

for word in Str1.split() :
    if is_english_word(word) :
        englishWords.append(word)

func_reducer(func_mapper(" ".join(englishWords)), "Output2.txt")
```

```
Out[18]: {'Harry': 32,  
          'Potter': 11,  
          'and': 77,  
          'the': 122,  
          'Goblet': 11,  
          'of': 66,  
          'Fire': 11,  
          'a': 62,  
          'word': 5,  
          'be': 8,  
          'able': 1,  
          'to': 40,  
          'sort': 1,  
          'it': 12,  
          'He': 8,  
          'about': 8,  
          'hundred': 5,  
          'fifty': 2,  
          'said': 46,  
          'suddenly': 2,  
          'his': 24,  
          'look': 9,  
          'disapproval': 1,  
          'positively': 1,  
          'writhing': 1,  
          'with': 19,  
          'over': 7,  
          'two': 2,  
          'Troll': 1,  
          'can': 4,  
          'speak': 1,  
          'you': 18,  
          'have': 9,  
          'do': 1,  
          'is': 22,  
          'point': 2,  
          'threw': 1,  
          'an': 6,  
          'extremely': 1,  
          'nasty': 1,  
          'fire': 1,  
          'vigorously': 1,
```

'bring': 1,
'kettle': 1,
'back': 6,
'news': 1,
'as': 21,
'Bagman': 7,
'settled': 1,
'himself': 2,
'down': 6,
'on': 11,
'grass': 2,
'beside': 3,
'them': 2,
'dicky': 1,
'turn': 1,
'Poor': 1,
'old': 4,
'memory': 1,
'like': 11,
'leaky': 1,
'no': 4,
'sense': 2,
'take': 1,
'my': 4,
'for': 17,
'wander': 1,
'into': 10,
'office': 1,
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'in': 28,
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'think': 1,
'might': 2,
'time': 4,
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'someone': 2,
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'at': 22,
'Oh': 1,
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'had': 17,
'just': 5,
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'he': 17,
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'not': 9,
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'more': 3,
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'was': 23,
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'crisp': 1,
'suit': 1,
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'narrow': 1,
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'mustache': 1,
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'very': 5,
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'following': 2,
'rule': 1,
'dressing': 1,
'so': 3,
'thoroughly': 1,
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'bank': 1,
'even': 2,
'Uncle': 1,
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'him': 7,
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'bit': 2,
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'when': 4,
'this': 3,
'know': 2,
'got': 2,
'anything': 3,
'forward': 2,
'Plenty': 1,
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'agreed': 1,
'make': 2,
'announcement': 1,
'until': 3,
'waving': 1,
'away': 4,
'cloud': 2,
'I': 13,
'bet': 1,
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'enough': 1,
'happening': 2,
'need': 2,
'meet': 1,
'cutting': 1,
'undrunk': 1,
'tea': 2,
'gold': 2,
'chinking': 1,
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'Though': 3,
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'hat': 2,
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'bought': 2,
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'replay': 2,
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'everything': 1,
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'breakdown': 1,
'if': 2,
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'gazing': 1,
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'going': 2,
'always': 1,
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'thrusting': 1,
'get': 2,
'us': 1,
'some': 2,
'Their': 1,
'considerably': 1,
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'Ginny': 1,
'sporting': 1,
'given': 1,
'And': 1,
'then': 2,
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'gong': 1,
'somewhere': 1,
'beyond': 1,
'life': 1,
'lighting': 1,
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'THE': 1,
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'CUP': 1,
'hurried': 1,
'They': 3,
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'comfortably': 1,
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'force': 1,
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'inch': 1,
'Every': 1,
'Muggles': 1,
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'near': 1,
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'entrance': 1,
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'set': 2,
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'halfway': 1,
'between': 2,
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'About': 1,
'stood': 2,
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'mysterious': 1,
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'velvet': 1,
'lofty': 1,
'At': 1,
'either': 1,
'end': 2,
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'opposite': 1,
'eye': 1,

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'saw': 1,
'flashing': 1,
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'All': 1,
'Family': 1,
'Buzzer': 1,
'Magical': 2,
'Mess': 1,
'No': 2,
'tore': 1,
'sign': 1,
'shoulder': 1,
'else': 1,
'box': 3,
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'far': 1,
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'sitting': 1,
'second': 1,
'row': 1,
'behind': 2,
'whose': 1,
'stuck': 1,
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'towel': 1,
'its': 4,
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