Rajahow Parajuli

* Approach, Design & Algorithm:
  + This was straight up assignment for me. The gui was annoying to make
  + algorithms we not an issue since we did not have to code the linked list or hash code, so it was straight forward.
  + The only trick was to make sure to use account for negative hashcode with was fixed by using absolute value method
  + The hardest part was add show all algorithm I ran in to issue with trying to sort the element for the arraylist.
* Test Plan & Test Cases:

The test case have removal punctuation like “ . \_ and has apostrophe which should not have been removed.

Pictures for cases are below the table.

|  |  |  |  |
| --- | --- | --- | --- |
| Input | Actual output | expected | passed |
| Chapter 1  It is a truth universally acknowledged, that a single man in possession  of a good fortune, must be in want of a wife.  However little known the feelings or views of such a man may be on his  first entering a neighbourhood, this truth is so well fixed in the minds  of the surrounding families, that he is considered the rightful property  of some one or other of their daughters.  "My dear Mr. Bennet," said his lady to him one day, "have you heard that  Netherfield Park is let at last?"  Mr. Bennet replied that he had not.  "But it is," returned she; "for Mrs. Long has just been here, and she  told me all about it."  Mr. Bennet made no answer.  "Do you not want to know who has taken it?" cried his wife impatiently.  "\_You\_ want to tell me, and I have no objection to hearing it."  This was invitation enough.  "Why, my dear, you must know, Mrs. Long says that Netherfield is taken  by a young man of large fortune from the north of England; that he came  down on Monday in a chaise and four to see the place, and was so much  delighted with it, that he agreed with Mr. Morris immediately; that he  is to take possession before Michaelmas, and some of his servants are to  be in the house by the end of next week."  "What is his name?"  "Bingley."  "Is he married or single?"  "Oh! Single, my dear, to be sure! A single man of large fortune; four or  five thousand a year. What a fine thing for our girls!" | about: 18  acknowledged: 4  agreed: 31  all: 18  answer: 20  are: 32  been: 17  before: 32  bennet: 12, 15, 20  bingley: 37  but: 17  came: 29  chaise: 30  chapter: 1  considered: 9  cried: 22  daughters: 10  day: 12  dear: 12, 28, 41  delighted: 31  down: 30  end: 33  england;: 29  enough: 26  entering: 8  families: 9  feelings: 7  fine: 42  first: 8  five: 42  fixed: 8  for: 17, 42  fortune: 5, 29  fortune;: 41  four: 30, 41  from: 29  girls: 42  good: 5  had: 15  has: 17, 22  have: 12, 24  heard: 12  hearing: 24  here: 17  him: 12  his: 7, 12, 22, 32, 35  house: 33  however: 7  immediately;: 31  impatiently: 22  invitation: 26  just: 17  know: 22, 28  known: 7  lady: 12  large: 29, 41  last: 13  let: 13  little: 7  long: 17, 28  made: 20  man: 4, 7, 29, 41  married: 39  may: 7  michaelmas: 32  minds: 8  monday: 30  morris: 31  mrs: 17, 28  much: 30  must: 5, 28  name: 35  neighbourhood: 8  netherfield: 13, 28  next: 33  north: 29  not: 15, 22  objection: 24  one: 10, 12  other: 10  our: 42  park: 13  place: 30  possession: 4, 32  property: 9  replied: 15  returned: 17  rightful: 9  said: 12  says: 28  see: 30  servants: 32  she: 17  she;: 17  single: 4, 39, 41  some: 10, 32  such: 7  sure: 41  surrounding: 9  take: 32  taken: 22, 28  tell: 24  that: 4, 9, 12, 15, 28, 29, 31  their: 10  thing: 42  this: 8, 26  thousand: 42  told: 18  truth: 4, 8  universally: 4  views: 7  want: 5, 22, 24  was: 26, 30  week: 33  well: 8  what: 35, 42  who: 22  why: 28  wife: 5, 22  with: 31  year: 42  you: 12, 22, 24, 28  young: 29 | about: 18  acknowledged: 4  agreed: 31  all: 18  answer: 20  are: 32  been: 17  before: 32  bennet: 12, 15, 20  bingley: 37  but: 17  came: 29  chaise: 30  chapter: 1  considered: 9  cried: 22  daughters: 10  day: 12  dear: 12, 28, 41  delighted: 31  down: 30  end: 33  england;: 29  enough: 26  entering: 8  families: 9  feelings: 7  fine: 42  first: 8  five: 42  fixed: 8  for: 17, 42  fortune: 5, 29  fortune;: 41  four: 30, 41  from: 29  girls: 42  good: 5  had: 15  has: 17, 22  have: 12, 24  heard: 12  hearing: 24  here: 17  him: 12  his: 7, 12, 22, 32, 35  house: 33  however: 7  immediately;: 31  impatiently: 22  invitation: 26  just: 17  know: 22, 28  known: 7  lady: 12  large: 29, 41  last: 13  let: 13  little: 7  long: 17, 28  made: 20  man: 4, 7, 29, 41  married: 39  may: 7  michaelmas: 32  minds: 8  monday: 30  morris: 31  mrs: 17, 28  much: 30  must: 5, 28  name: 35  neighbourhood: 8  netherfield: 13, 28  next: 33  north: 29  not: 15, 22  objection: 24  one: 10, 12  other: 10  our: 42  park: 13  place: 30  possession: 4, 32  property: 9  replied: 15  returned: 17  rightful: 9  said: 12  says: 28  see: 30  servants: 32  she: 17  she;: 17  single: 4, 39, 41  some: 10, 32  such: 7  sure: 41  surrounding: 9  take: 32  taken: 22, 28  tell: 24  that: 4, 9, 12, 15, 28, 29, 31  their: 10  thing: 42  this: 8, 26  thousand: 42  told: 18  truth: 4, 8  universally: 4  views: 7  want: 5, 22, 24  was: 26, 30  week: 33  well: 8  what: 35, 42  who: 22  why: 28  wife: 5, 22  with: 31  year: 42  you: 12, 22, 24, 28  young: 29 | yes |

The highlights:

I learned how to use linked list as hashtable and array conversions.