

Day 6: Lab assignment Java Collection

Try different methods of Set and List and complete the table below

No.	Method	Return Type	Description(List)	Description(Set)
1	add(Object element)			
2	addAll(Collection c)			
3	remove(Object element)			
4	removeAll(Collection c)			
5	clear()			
6	size()			
9	contains(Object element)			
10	iterator()			
11	toArray()			

Q2. create a file story.txt and put some text into it. read that file and find the frequency of each word in the file in the and print it

Ex:
story.txt
life is full of fun life is full of fun life is full of fun life

O/P:
life appear 4 times
is appear 3 times
.....
.....

Q3. Create a class BookCollection which contains:

1. the owner's name and an array of books that the owner has,
2. toString() that outputs all the books in the BookCollection in a nice format.
3. a method hasBook(Book b) which checks if the book b is contained in the array (we consider two books the same if they have the same title and author).

4. a method sort() that sorts the books in the array by the lexicographical order of the book title, and author.

Create your own BookCollection and check if you own a particular book:"Java in depth". Sort the

BookCollection

and output the BookCollection.

Q4. Consider file data:

97.59780253225763
23.705044359023198
72.97025259152822
18.986484094410137
77.56528079180427
88.5456385076513
59.09494795452861
72.71304984780839
80.0202893029642
29.58427968260707
74.66713563267237
27.40345943374961
15.990164966686493
58.852582668688534
45.58743329596889
77.2227556103568
53.49035808405568
93.5583604428736
35.09314691785803
9.812059847790467
51.438605600928376
6.081908597641594
2.604194278086147
99.43752090812772
20.355993598952395

Put data into a file named data.txt, Read from data.txt all the doubles (edited by a user) and display the biggest one.