## Big Data Application Development Homework 3, Part 2 Answer Sheet

3. Use the REPL to explore Spark RDDs.

Provide the command you used to create the HDFS directory.	hdfs dfs -mkdir -p loudacre/weblog		
2) Provide the command you used to put the file into HDFS.	scp 2014-03-15.log jl11046@dumbo.hpc.nyu.edu:BDAD/hw3 hdfs dfs -put ~/BDAD/hw3/2014-03-15.log loudacre/weblog		
3) Provide the command you used to view the file.	hdfs dfs -cat loudacre/weblog/*		

## 4. Transform a small dataset using RDDs.

4) Initialize logfile.	val logfile:String = "loudacre/weblog/2014-03-15.log"			
5) Create an RDD from the file.	val file = sc.textFile(logfile)			
6) View 10 lines of the data.	file.take(10).foreach(println)			
7) Create an RDD containing only lines that are requests for jpg files.	val onlyJPG = file.filter(line => line.contains(".jpg"))			
8) View 10 lines of the data.	onlyJPG.take(10).foreach(println)			
9) Chain the previous commands into a single command that counts the number of JPG requests.	file.filter(line => line.contains(".jpg")).count()			
10) Create an RDD named lenRDD using the map function to return the length of each line of the log file.	val lenRDD = file.map(line => line.length)			
11) Create an RDD named wordsRDD using the map and split functions to map an array of words for each line.	val wordsRDD = file.map(line => line.split(" "))			
12) Create an RDD named ipsRDD containing only the IP addresses from each line.	val ipsRDD = wordsRDD.map(list => list(0))			
13) Use foreach(println) to output IP addresses.	ipsRDD.collect().foreach(println)			
14) Save the list of IP addresses to an HDFS directory named loudacre/iplist using saveAsTextFile.	ipsRDD.saveAsTextFile("loudacre/iplist/")			

4. Transform a small dataset using RDDs. (continued)

15) Provide a screenshot of the contents of the loudacre/iplist folder. (Paste it below.)

```
[jl11046@login-2-1 ~]$ hdfs dfs -ls loudacre/iplist

Found 3 items
-rw-r--r-+ 3 jl11046 users 0 2020-02-18 17:19 loudacre/iplist/_SUCCESS
-rw-r--r-+ 3 jl11046 users 50653 2020-02-18 17:19 loudacre/iplist/part-00000
-rw-r--r-+ 3 jl11046 users 50638 2020-02-18 17:19 loudacre/iplist/part-00001
[jl11046@login-2-1 ~]$
```

5. Transform a large dataset using RDDs.

16) Initialize logfile.	val logfile:String = "loudacre/weblogs/"			
17) Create an RDD from the file.	val file = sc.textFile(logfile)			
18) View 10 lines of the data.	file.take(10).foreach(println)			
19) Create an RDD containing only lines that are requests for jpg files.	val onlyJPG = file.filter(line => line.contains(".jpg"))			
20) View 10 lines of the data.	onlyJPG.take(10).foreach(println)			
21) Chain the previous commands into a single command that counts the number of JPG requests.	file.filter(line => line.contains(".jpg")).count()			
22) Create an RDD named lenRDD2 using the map function to return the length of each line of the log file.				
23) Create an RDD named wordsRDD2 using the map and split functions to map an array of words for each line.	val wordsRDD2 = file.map(line => line.split(" "))			
24) Create an RDD named ipsRDD2 containing only the IP addresses from each line.	val ipsRDD2 = wordsRDD2.map(list => list(0))			
25) Use foreach(println) to output IP addresses.	ipsRDD2.collect().foreach(println)			
26) Save the list of IP addresses to a file in an HDFS directory named loudacre/bigiplist - use saveAsTextFile.	ipsRDD2.saveAsTextFile("loudacre/bigiplist/")			
F. Transform a large dataset using PDDs	(continued)			

5. Transform a large dataset using RDDs. (continued)

27) Provide a screenshot of the contents of the <code>loudacre/bigiplist</code> folder. (Paste it below.)

jl11046@login-2-1 hw3]\$ hdfs dfs -ls loudacre/bigiplist Found 312 items -rw-r--r--+ 3 il11046 users 0 2020-02-18 17:51 loudacre/bigiplist/ SUCCESS 49904 2020-02-18 17:46 loudacre/bigiplist/part-00000 -rw-r--r--+ 3 il11046 users -rw-r--r--+ 3 jl11046 users 49904 2020-02-18 17:46 loudacre/bigiplist/part-00001 -rw-r--r--+ 3 jl11046 users 49811 2020-02-18 17:47 loudacre/bigiplist/part-00002 -rw-r--r--+ 3 jl11046 users 50010 2020-02-18 17:46 loudacre/bigiplist/part-00003 -rw-r--r--+ 3 jl11046 users 49840 2020-02-18 17:47 loudacre/bigiplist/part-00004 rw-r--r--+ 3 jl11046 users 49663 2020-02-18 17:47 loudacre/bigiplist/part-00005 rw-r--r--+ 3 il11046 users 50035 2020-02-18 17:46 loudacre/bigiplist/part-00006 rw-r--r--+ 3 il11046 users 49867 2020-02-18 17:46 loudacre/bigiplist/part-00007 rw-r--r--+ 3 jl11046 users 49915 2020-02-18 17:47 loudacre/bigiplist/part-00008 rw-r--r--+ 3 jl11046 users 49964 2020-02-18 17:47 loudacre/bigiplist/part-00009 rw-r--r--+ 3 jl11046 users 49862 2020-02-18 17:47 loudacre/bigiplist/part-00010 50016 2020-02-18 17:47 loudacre/bigiplist/part-00011 -rw-r--r--+ 3 jl11046 users rw-r--r--+ 3 jl11046 users 49900 2020-02-18 17:46 loudacre/bigiplist/part-00012 rw-r--r--+ 3 il11046 users 49840 2020-02-18 17:47 loudacre/bigiplist/part-00013 -rw-r--r--+ 3 il11046 users 49854 2020-02-18 17:46 loudacre/bigiplist/part-00014 -rw-r--r--+ 3 jl11046 users 49846 2020-02-18 17:46 loudacre/bigiplist/part-00015 -rw-r--r--+ 3 jl11046 users 50041 2020-02-18 17:47 loudacre/bigiplist/part-00016 -rw-r--r--+ 3 jl11046 users 49611 2020-02-18 17:47 loudacre/bigiplist/part-00017 rw-r--r-+ 3 jl11046 users 49828 2020-02-18 17:47 loudacre/bigiplist/part-00018 rw-r--r--+ 3 jl11046 users 49879 2020-02-18 17:46 loudacre/bigiplist/part-00019 rw-r--r--+ 3 jl11046 users 49966 2020-02-18 17:46 loudacre/bigiplist/part-00020 rw-r--r--+ 3 jl11046 users 49973 2020-02-18 17:47 loudacre/bigiplist/part-00021 rw-r--r--+ 3 jl11046 users 49898 2020-02-18 17:47 loudacre/bigiplist/part-00022 rw-r--r--+ 3 jl11046 users 49846 2020-02-18 17:47 loudacre/bigiplist/part-00023 rw-r--r--+ 3 jl11046 users 49914 2020-02-18 17:46 loudacre/bigiplist/part-00024 rw-r--r--+ 3 jl11046 users 49682 2020-02-18 17:47 loudacre/bigiplist/part-00025 rw-r--r--+ 3 jl11046 users 50058 2020-02-18 17:47 loudacre/bigiplist/part-00026 rw-r--r--+ 3 jl11046 users 49853 2020-02-18 17:47 loudacre/bigiplist/part-00027 -rw-r--r--+ 3 jl11046 users 50019 2020-02-18 17:46 loudacre/bigiplist/part-00028 -rw-r--r--+ 3 jl11046 users 49911 2020-02-18 17:47 loudacre/bigiplist/part-00029 -rw-r--r--+ 3 jl11046 users 49762 2020-02-18 17:47 loudacre/bigiplist/part-00030 -rw-r--r--+ 3 jl11046 users 49896 2020-02-18 17:47 loudacre/bigiplist/part-00031 -rw-r--r--+ 3 il11046 users 49774 2020-02-18 17:47 loudacre/bigiplist/part-00032 rw-r--r--+ 3 jl11046 users 50011 2020-02-18 17:46 loudacre/bigiplist/part-00033 rw-r--r--+ 3 jl11046 users 49903 2020-02-18 17:47 loudacre/bigiplist/part-00034 -rw-r--r--+ 3 jl11046 users 49760 2020-02-18 17:46 loudacre/bigiplist/part-00035 49795 2020-02-18 17:47 loudacre/bigiplist/part-00036 rw-r--r-+ 3 jl11046 users rw-r--r--+ 3 jl11046 users 49911 2020-02-18 17:46 loudacre/bigiplist/part-00037 rw-r--r--+ 3 il11046 users 49784 2020-02-18 17:47 loudacre/bigiplist/part-00038 -rw-r--r--+ 3 il11046 users 49893 2020-02-18 17:47 loudacre/bigiplist/part-00039 -rw-r--r--+ 3 jl11046 users 49774 2020-02-18 17:47 loudacre/bigiplist/part-00040 -rw-r--r--+ 3 jl11046 users 49825 2020-02-18 17:47 loudacre/bigiplist/part-00041 -rw-r--r--+ 3 il11046 users 49947 2020-02-18 17:47 loudacre/bigiplist/part-00042 -rw-r--r--+ 3 jl11046 users 49583 2020-02-18 17:47 loudacre/bigiplist/part-00043 -rw-r--r--+ 3 jl11046 users 49570 2020-02-18 17:47 loudacre/bigiplist/part-00044 -rw-r--r--+ 3 il11046 users 49949 2020-02-18 17:47 loudacre/bigiplist/part-00045 rw-r--r--+ 3 il11046 users 49832 2020-02-18 17:47 loudacre/bigiplist/part-00046 rw-r--r--+ 3 jl11046 users 49877 2020-02-18 17:47 loudacre/bigiplist/part-00047 rw-r--r--+ 3 jl11046 users 49828 2020-02-18 17:47 loudacre/bigiplist/part-00048 rw-r--r--+ 3 jl11046 users 49729 2020-02-18 17:46 loudacre/bigiplist/part-00049 rw-r--r--+ 3 jl11046 users 49724 2020-02-18 17:46 loudacre/bigiplist/part-00050 rw-r--r--+ 3 jl11046 users 49836 2020-02-18 17:47 loudacre/bigiplist/part-00051 rw-r--r--+ 3 jl11046 users 49885 2020-02-18 17:46 loudacre/bigiplist/part-00052 rw-r--r--+ 3 jl11046 users 49433 2020-02-18 17:47 loudacre/bigiplist/part-00053 rw-r--r-+ 3 jl11046 users 49942 2020-02-18 17:47 loudacre/bigiplist/part-00054 -rw-r--r--+ 3 jl11046 users 49750 2020-02-18 17:47 loudacre/bigiplist/part-00055 -rw-r--r--+ 3 il11046 users 49898 2020-02-18 17:46 loudacre/bigiplist/part-00056 -rw-r--r--+ 3 jl11046 users 49896 2020-02-18 17:47 loudacre/bigiplist/part-00057 -rw-r--r--+ 3 jl11046 users 49492 2020-02-18 17:46 loudacre/bigiplist/part-00058 rw-r--r--+ 3 jl11046 users

49745 2020-02-18 17:46 loudacre/bigiplist/part-00059

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49903 2020-02-18 17:46 loudacre/bigiplist/part-00060
rw-r--r--+ 3 jl11046 users
rw-r--r--+ 3 jl11046 users
                                 49781 2020-02-18 17:47 loudacre/bigiplist/part-00061
rw-r--r--+ 3 jl11046 users
                                 49766 2020-02-18 17:46 loudacre/bigiplist/part-00062
rw-r--r--+ 3 jl11046 users
                                 49717 2020-02-18 17:47 loudacre/bigiplist/part-00063
rw-r--r--+ 3 il11046 users
                                 49821 2020-02-18 17:47 loudacre/bigiplist/part-00064
rw-r--r--+ 3 jl11046 users
                                 49586 2020-02-18 17:46 loudacre/bigiplist/part-00065
rw-r--r--+ 3 jl11046 users
                                 49870 2020-02-18 17:47 loudacre/bigiplist/part-00066
rw-r--r--+ 3 jl11046 users
                                 49735 2020-02-18 17:47 loudacre/bigiplist/part-00067
rw-r--r--+ 3 jl11046 users
                                 49934 2020-02-18 17:46 loudacre/bigiplist/part-00068
rw-r--r--+ 3 jl11046 users
                                 49747 2020-02-18 17:47 loudacre/bigiplist/part-00069
rw-r--r--+ 3 il11046 users
                                 49783 2020-02-18 17:47 loudacre/bigiplist/part-00070
rw-r--r--+ 3 il11046 users
                                 50011 2020-02-18 17:46 loudacre/bigiplist/part-00071
rw-r--r--+ 3 jl11046 users
                                 49624 2020-02-18 17:47 loudacre/bigiplist/part-00072
rw-r--r--+ 3 jl11046 users
                                 49768 2020-02-18 17:46 loudacre/bigiplist/part-00073
rw-r--r--+ 3 jl11046 users
                                 49863 2020-02-18 17:46 loudacre/bigiplist/part-00074
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                                 49920 2020-02-18 17:46 loudacre/bigiplist/part-00075
rw-r--r--+ 3 jl11046 users
                                 49808 2020-02-18 17:46 loudacre/bigiplist/part-00076
-rw-r--r--+ 3 jl11046 users
                                 49679 2020-02-18 17:47 loudacre/bigiplist/part-00077
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                                 49493 2020-02-18 17:47 loudacre/bigiplist/part-00078
-rw-r--r--+ 3 jl11046 users
                                 49786 2020-02-18 17:47 loudacre/bigiplist/part-00079
rw-r--r--+ 3 jl11046 users
                                 49995 2020-02-18 17:47 loudacre/bigiplist/part-00080
rw-r--r--+ 3 jl11046 users
                                 49685 2020-02-18 17:46 loudacre/bigiplist/part-00081
rw-r--r--+ 3 jl11046 users
                                 49520 2020-02-18 17:46 loudacre/bigiplist/part-00082
rw-r--r--+ 3 il11046 users
                                 49996 2020-02-18 17:46 loudacre/bigiplist/part-00083
rw-r--r--+ 3 jl11046 users
                                 49793 2020-02-18 17:47 loudacre/bigiplist/part-00084
rw-r--r--+ 3 jl11046 users
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rw-r--r--+ 3 jl11046 users
                                 49814 2020-02-18 17:46 loudacre/bigiplist/part-00086
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                                 49732 2020-02-18 17:46 loudacre/bigiplist/part-00087
rw-r--r--+ 3 jl11046 users
                                 49913 2020-02-18 17:47 loudacre/bigiplist/part-00088
rw-r--r--+ 3 il11046 users
                                 49863 2020-02-18 17:46 loudacre/bigiplist/part-00089
rw-r--r--+ 3 jl11046 users
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rw-r--r--+ 3 jl11046 users
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rw-r--r--+ 3 il11046 users
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rw-r--r--+ 3 jl11046 users
                                 49899 2020-02-18 17:46 loudacre/bigiplist/part-00093
rw-r--r--+ 3 jl11046 users
                                 49825 2020-02-18 17:48 loudacre/bigiplist/part-00094
rw-r--r--+ 3 jl11046 users
                                 49643 2020-02-18 17:46 loudacre/bigiplist/part-00095
rw-r--r--+ 3 il11046 users
                                 49604 2020-02-18 17:48 loudacre/bigiplist/part-00096
rw-r--r--+ 3 jl11046 users
                                 49758 2020-02-18 17:48 loudacre/bigiplist/part-00097
rw-r--r--+ 3 jl11046 users
                                 49810 2020-02-18 17:48 loudacre/bigiplist/part-00098
rw-r--r--+ 3 jl11046 users
                                 49453 2020-02-18 17:48 loudacre/bigiplist/part-00099
-rw-r--r--+ 3 jl11046 users
                                 49720 2020-02-18 17:48 loudacre/bigiplist/part-00100
rw-r--r--+ 3 jl11046 users
                                 49695 2020-02-18 17:46 loudacre/bigiplist/part-00101
-rw-r--r--+ 3 il11046 users
                                 49709 2020-02-18 17:48 loudacre/bigiplist/part-00102
rw-r--r--+ 3 jl11046 users
                                 49690 2020-02-18 17:48 loudacre/bigiplist/part-00103
-rw-r--r--+ 3 jl11046 users
                                 49858 2020-02-18 17:48 loudacre/bigiplist/part-00104
-rw-r--r--+ 3 jl11046 users
                                 49804 2020-02-18 17:48 loudacre/bigiplist/part-00105
rw-r--r--+ 3 jl11046 users
                                 50055 2020-02-18 17:48 loudacre/bigiplist/part-00106
rw-r--r--+ 3 jl11046 users
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rw-r--r--+ 3 il11046 users
                                 49759 2020-02-18 17:48 loudacre/bigiplist/part-00108
rw-r--r--+ 3 jl11046 users
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rw-r--r--+ 3 jl11046 users
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rw-r--r--+ 3 jl11046 users
                                 49759 2020-02-18 17:48 loudacre/bigiplist/part-00111
rw-r--r--+ 3 jl11046 users
                                 49630 2020-02-18 17:48 loudacre/bigiplist/part-00112
rw-r--r--+ 3 jl11046 users
                                 49677 2020-02-18 17:48 loudacre/bigiplist/part-00113
rw-r--r--+ 3 jl11046 users
                                 49996 2020-02-18 17:48 loudacre/bigiplist/part-00114
rw-r--r--+ 3 il11046 users
                                 49860 2020-02-18 17:46 loudacre/bigiplist/part-00115
rw-r--r--+ 3 jl11046 users
                                 49890 2020-02-18 17:48 loudacre/bigiplist/part-00116
rw-r--r--+ 3 jl11046 users
                                 49700 2020-02-18 17:48 loudacre/bigiplist/part-00117
rw-r--r--+ 3 jl11046 users
                                 49772 2020-02-18 17:46 loudacre/bigiplist/part-00118
rw-r--r--+ 3 il11046 users
                                 50030 2020-02-18 17:46 loudacre/bigiplist/part-00119
rw-r--r--+ 3 jl11046 users
                                 49945 2020-02-18 17:48 loudacre/bigiplist/part-00120
rw-r--r--+ 3 il11046 users
                                 50019 2020-02-18 17:48 loudacre/bigiplist/part-00121
                                 49788 2020-02-18 17:46 loudacre/bigiplist/part-00122
rw-r--r--+ 3 il11046 users
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rw-r--r--+ 3 il11046 users
                                 49811 2020-02-18 17:46 loudacre/bigiplist/part-00123
rw-r--r--+ 3 jl11046 users
                                 49844 2020-02-18 17:46 loudacre/bigiplist/part-00124
rw-r--r--+ 3 jl11046 users
                                 49925 2020-02-18 17:48 loudacre/bigiplist/part-00125
rw-r--r--+ 3 il11046 users
                                 49626 2020-02-18 17:46 loudacre/bigiplist/part-00126
rw-r--r--+ 3 jl11046 users
                                 49853 2020-02-18 17:48 loudacre/bigiplist/part-00127
rw-r--r--+ 3 jl11046 users
                                 49807 2020-02-18 17:48 loudacre/bigiplist/part-00128
rw-r--r--+ 3 jl11046 users
                                 49818 2020-02-18 17:49 loudacre/bigiplist/part-00129
rw-r--r--+ 3 jl11046 users
                                 49927 2020-02-18 17:48 loudacre/bigiplist/part-00130
rw-r--r--+ 3 il11046 users
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rw-r--r--+ 3 il11046 users
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rw-r--r--+ 3 jl11046 users
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rw-r--r--+ 3 il11046 users
                                 49779 2020-02-18 17:49 loudacre/bigiplist/part-00134
rw-r--r--+ 3 jl11046 users
                                 49732 2020-02-18 17:46 loudacre/bigiplist/part-00135
rw-r--r--+ 3 jl11046 users
                                 50154 2020-02-18 17:49 loudacre/bigiplist/part-00136
rw-r--r--+ 3 il11046 users
                                 49987 2020-02-18 17:49 loudacre/bigiplist/part-00137
-rw-r--r--+ 3 jl11046 users
                                 49718 2020-02-18 17:49 loudacre/bigiplist/part-00138
rw-r--r--+ 3 jl11046 users
                                 49668 2020-02-18 17:49 loudacre/bigiplist/part-00139
rw-r--r--+ 3 jl11046 users
                                 49865 2020-02-18 17:46 loudacre/bigiplist/part-00140
rw-r--r--+ 3 jl11046 users
                                 49657 2020-02-18 17:49 loudacre/bigiplist/part-00141
rw-r--r--+ 3 jl11046 users
                                 49971 2020-02-18 17:49 loudacre/bigiplist/part-00142
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                                 49723 2020-02-18 17:49 loudacre/bigiplist/part-00143
rw-r--r--+ 3 jl11046 users
                                 49768 2020-02-18 17:49 loudacre/bigiplist/part-00144
rw-r--r--+ 3 jl11046 users
                                 49808 2020-02-18 17:46 loudacre/bigiplist/part-00145
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rw-r--r--+ 3 jl11046 users
                                 49947 2020-02-18 17:49 loudacre/bigiplist/part-00147
rw-r--r--+ 3 jl11046 users
                                 49985 2020-02-18 17:46 loudacre/bigiplist/part-00148
                                 49886 2020-02-18 17:49 loudacre/bigiplist/part-00149
rw-r--r--+ 3 il11046 users
rw-r--r--+ 3 jl11046 users
                                 49954 2020-02-18 17:46 loudacre/bigiplist/part-00150
rw-r--r--+ 3 jl11046 users
                                 49956 2020-02-18 17:46 loudacre/bigiplist/part-00151
rw-r--r--+ 3 jl11046 users
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                                 50138 2020-02-18 17:46 loudacre/bigiplist/part-00158
rw-r--r--+ 3 jl11046 users
                                 49584 2020-02-18 17:46 loudacre/bigiplist/part-00159
rw-r--r--+ 3 jl11046 users
                                 49823 2020-02-18 17:49 loudacre/bigiplist/part-00160
rw-r--r-+ 3 jl11046 users
                                 50023 2020-02-18 17:49 loudacre/bigiplist/part-00161
-rw-r--r--+ 3 jl11046 users
                                 49862 2020-02-18 17:49 loudacre/bigiplist/part-00162
rw-r--r--+ 3 jl11046 users
                                 49725 2020-02-18 17:49 loudacre/bigiplist/part-00163
rw-r--r--+ 3 jl11046 users
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rw-r--r--+ 3 jl11046 users
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rw-r--r--+ 3 jl11046 users
                                 49949 2020-02-18 17:46 loudacre/bigiplist/part-00166
rw-r--r--+ 3 jl11046 users
                                 49980 2020-02-18 17:46 loudacre/bigiplist/part-00167
rw-r--r--+ 3 jl11046 users
                                 49672 2020-02-18 17:49 loudacre/bigiplist/part-00168
rw-r--r--+ 3 jl11046 users
                                 49913 2020-02-18 17:46 loudacre/bigiplist/part-00169
rw-r--r--+ 3 jl11046 users
                                 49901 2020-02-18 17:49 loudacre/bigiplist/part-00170
rw-r--r--+ 3 jl11046 users
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rw-r--r--+ 3 jl11046 users
                                 49901 2020-02-18 17:46 loudacre/bigiplist/part-00172
rw-r--r--+ 3 jl11046 users
                                 49928 2020-02-18 17:46 loudacre/bigiplist/part-00173
rw-r--r--+ 3 jl11046 users
                                 50090 2020-02-18 17:49 loudacre/bigiplist/part-00174
rw-r--r--+ 3 jl11046 users
                                 49931 2020-02-18 17:49 loudacre/bigiplist/part-00175
rw-r--r--+ 3 il11046 users
                                 49822 2020-02-18 17:46 loudacre/bigiplist/part-00176
rw-r--r--+ 3 jl11046 users
                                 49736 2020-02-18 17:46 loudacre/bigiplist/part-00177
rw-r--r--+ 3 jl11046 users
                                 49821 2020-02-18 17:46 loudacre/bigiplist/part-00178
rw-r--r--+ 3 jl11046 users
                                 49824 2020-02-18 17:49 loudacre/bigiplist/part-00179
rw-r--r--+ 3 jl11046 users
                                 49860 2020-02-18 17:49 loudacre/bigiplist/part-00180
rw-r--r--+ 3 jl11046 users
                                 49933 2020-02-18 17:49 loudacre/bigiplist/part-00181
rw-r--r--+ 3 jl11046 users
                                 49878 2020-02-18 17:46 loudacre/bigiplist/part-00182
-rw-r--r--+ 3 jl11046 users
                                 49926 2020-02-18 17:46 loudacre/bigiplist/part-00183
-rw-r--r--+ 3 il11046 users
                                 49874 2020-02-18 17:46 loudacre/bigiplist/part-00184
rw-r--r--+ 3 jl11046 users
                                 49909 2020-02-18 17:49 loudacre/bigiplist/part-00185
```

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50091 2020-02-18 17:49 loudacre/bigiplist/part-00186
rw-r--r--+ 3 jl11046 users
rw-r--r--+ 3 jl11046 users
                                 49806 2020-02-18 17:46 loudacre/bigiplist/part-00187
rw-r--r--+ 3 il11046 users
                                 49723 2020-02-18 17:49 loudacre/bigiplist/part-00188
rw-r--r-+ 3 jl11046 users
                                 49926 2020-02-18 17:46 loudacre/bigiplist/part-00189
rw-r--r--+ 3 jl11046 users
                                 49707 2020-02-18 17:50 loudacre/bigiplist/part-00190
rw-r--r--+ 3 jl11046 users
                                 49979 2020-02-18 17:46 loudacre/bigiplist/part-00191
rw-r--r--+
           3 jl11046 users
                                 49996 2020-02-18 17:46 loudacre/bigiplist/part-00192
rw-r--r--+
              jl11046 users
                                 49564 2020-02-18 17:46 loudacre/bigiplist/part-00193
rw-r--r--+
           3 il11046 users
                                 49698 2020-02-18 17:49 loudacre/bigiplist/part-00194
rw-r--r--+
           3 jl11046 users
                                 49980 2020-02-18 17:49 loudacre/bigiplist/part-00195
                                 49789 2020-02-18 17:46 loudacre/bigiplist/part-00196
rw-r--r--+ 3 jl11046 users
rw-r--r--+ 3 jl11046 users
                                 49633 2020-02-18 17:49 loudacre/bigiplist/part-00197
rw-r--r--+ 3 jl11046 users
                                 49695 2020-02-18 17:50 loudacre/bigiplist/part-00198
rw-r--r--+ 3 jl11046 users
                                 49864 2020-02-18 17:50 loudacre/bigiplist/part-00199
rw-r--r--+ 3 il11046 users
                                 49669 2020-02-18 17:46 loudacre/bigiplist/part-00200
rw-r--r--+ 3 jl11046 users
                                 49938 2020-02-18 17:50 loudacre/bigiplist/part-00201
rw-r--r-+ 3 jl11046 users
                                 49619 2020-02-18 17:50 loudacre/bigiplist/part-00202
           3 jl11046 users
                                 49718 2020-02-18 17:50 loudacre/bigiplist/part-00203
rw-r--r--+
           3 jl11046 users
                                 49772 2020-02-18 17:50 loudacre/bigiplist/part-00204
rw-r--r--+
rw-r--r--+
              jl11046 users
                                 49681 2020-02-18 17:50 loudacre/bigiplist/part-00205
           3 il11046 users
                                 49699 2020-02-18 17:50 loudacre/bigiplist/part-00206
           3 il11046 users
rw-r--r--+
                                 49936 2020-02-18 17:46 loudacre/bigiplist/part-00207
rw-r--r--+
           3 jl11046 users
                                 49716 2020-02-18 17:50 loudacre/bigiplist/part-00208
ru-r--r--+
           3 jl11046 users
                                 49845 2020-02-18 17:50 loudacre/bigiplist/part-00209
rw-r--r--+ 3 jl11046 users
                                 49811 2020-02-18 17:50 loudacre/bigiplist/part-00210
rw-r--r--+ 3 jl11046 users
                                 49496 2020-02-18 17:46 loudacre/bigiplist/part-00211
rw-r--r--+ 3 il11046 users
                                 49958 2020-02-18 17:50 loudacre/bigiplist/part-00212
rw-r--r-+ 3 jl11046 users
                                 49674 2020-02-18 17:50 loudacre/bigiplist/part-00213
rw-r--r--+ 3 jl11046 users
                                 49591 2020-02-18 17:50 loudacre/bigiplist/part-00214
-rw-r--r--+ 3 jl11046 users
                                 49839 2020-02-18 17:46 loudacre/bigiplist/part-00215
rw-r--r--+ 3 jl11046 users
                                 49810 2020-02-18 17:46 loudacre/bigiplist/part-00216
           3 jl11046 users
rw-r--r--+
                                 49615 2020-02-18 17:46 loudacre/bigiplist/part-00217
rw-r--r--+ 3 il11046 users
                                 49805 2020-02-18 17:50 loudacre/bigiplist/part-00218
rw-r--r--+ 3 il11046 users
                                 49705 2020-02-18 17:50 loudacre/bigiplist/part-00219
rw-r--r--+ 3 jl11046 users
                                 50078 2020-02-18 17:50 loudacre/bigiplist/part-00220
rw-r--r--+ 3 il11046 users
                                 49599 2020-02-18 17:46 loudacre/bigiplist/part-00221
rw-r--r--+ 3 jl11046 users
                                 49798 2020-02-18 17:46 loudacre/bigiplist/part-00222
rw-r--r--+ 3 jl11046 users
                                 49686 2020-02-18 17:50 loudacre/bigiplist/part-00223
rw-r--r--+ 3 il11046 users
                                 49647 2020-02-18 17:50 loudacre/bigiplist/part-00224
rw-r--r--+ 3 jl11046 users
                                 49904 2020-02-18 17:50 loudacre/bigiplist/part-00225
rw-r--r--+ 3 jl11046 users
                                 49803 2020-02-18 17:46 loudacre/bigiplist/part-00226
           3 jl11046 users
                                 49786 2020-02-18 17:50 loudacre/bigiplist/part-00227
-rw-r--r--+
           3 jl11046 users
rw-r--r--+
                                 49864 2020-02-18 17:50 loudacre/bigiplist/part-00228
rw-r--r--+
              jl11046 users
                                 49973 2020-02-18 17:50 loudacre/bigiplist/part-00229
              il11046 users
                                 49576 2020-02-18 17:46 loudacre/bigiplist/part-00230
           3 il11046 users
rw-r--r--+
                                 49833 2020-02-18 17:50 loudacre/bigiplist/part-00231
rw-r--r--+
           3 jl11046 users
                                 49856 2020-02-18 17:50 loudacre/bigiplist/part-00232
rw-r--r--+
           3 il11046 users
                                 49951 2020-02-18 17:46 loudacre/bigiplist/part-00233
rw-r--r--+ 3 jl11046 users
                                 49958 2020-02-18 17:50 loudacre/bigiplist/part-00234
rw-r--r--+ 3 jl11046 users
                                 50102 2020-02-18 17:46 loudacre/bigiplist/part-00235
rw-r--r--+ 3 il11046 users
                                 49771 2020-02-18 17:46 loudacre/bigiplist/part-00236
rw-r--r--+ 3 il11046 users
                                 49781 2020-02-18 17:50 loudacre/bigiplist/part-00237
rw-r--r--+ 3 jl11046 users
                                 49662 2020-02-18 17:50 loudacre/bigiplist/part-00238
-rw-r--r--+ 3 jl11046 users
                                 49891 2020-02-18 17:46 loudacre/bigiplist/part-00239
rw-r--r--+ 3 jl11046 users
                                 49726 2020-02-18 17:50 loudacre/bigiplist/part-00240
           3 jl11046 users
rw-r--r--+
                                 49984 2020-02-18 17:46 loudacre/bigiplist/part-00241
rw-r--r--+ 3 il11046 users
                                 49793 2020-02-18 17:50 loudacre/bigiplist/part-00242
rw-r--r--+ 3 il11046 users
                                 49866 2020-02-18 17:50 loudacre/bigiplist/part-00243
rw-r--r--+ 3 jl11046 users
                                 50039 2020-02-18 17:50 loudacre/bigiplist/part-00244
rw-r--r--+ 3 jl11046 users
                                 49877 2020-02-18 17:50 loudacre/bigiplist/part-00245
-rw-r--r--+ 3 jl11046 users
                                 49770 2020-02-18 17:46 loudacre/bigiplist/part-00246
rw-r--r--+ 3 jl11046 users
                                 49850 2020-02-18 17:50 loudacre/bigiplist/part-00247
rw-r--r--+ 3 il11046 users
                                 49956 2020-02-18 17:50 loudacre/bigiplist/part-00248
```

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49729 2020-02-18 17:50 loudacre/bigiplist/part-00249
rw-r--r--+ 3 jl11046 users
rw-r--r--+ 3 jl11046 users
                                 49714 2020-02-18 17:50 loudacre/bigiplist/part-00250
rw-r--r--+ 3 il11046 users
                                 49709 2020-02-18 17:46 loudacre/bigiplist/part-00251
-rw-r--r--+ 3 il11046 users
                                 49558 2020-02-18 17:50 loudacre/bigiplist/part-00252
-rw-r--r--+ 3 jl11046 users
                                 49708 2020-02-18 17:50 loudacre/bigiplist/part-00253
-rw-r--r--+ 3 jl11046 users
                                 49764 2020-02-18 17:46 loudacre/bigiplist/part-00254
rw-r--r--+ 3 jl11046 users
                                 49802 2020-02-18 17:50 loudacre/bigiplist/part-00255
rw-r--r--+ 3 jl11046 users
                                 49983 2020-02-18 17:50 loudacre/bigiplist/part-00256
rw-r--r--+ 3 jl11046 users
                                 49698 2020-02-18 17:46 loudacre/bigiplist/part-00257
rw-r--r--+ 3 il11046 users
                                 49760 2020-02-18 17:50 loudacre/bigiplist/part-00258
rw-r--r--+ 3 jl11046 users
                                 49695 2020-02-18 17:46 loudacre/bigiplist/part-00259
rw-r--r--+ 3 jl11046 users
                                 49779 2020-02-18 17:50 loudacre/bigiplist/part-00260
rw-r--r--+ 3 jl11046 users
                                 49750 2020-02-18 17:50 loudacre/bigiplist/part-00261
-rw-r--r--+ 3 jl11046 users
                                 49914 2020-02-18 17:50 loudacre/bigiplist/part-00262
rw-r--r--+ 3 jl11046 users
                                 49851 2020-02-18 17:46 loudacre/bigiplist/part-00263
rw-r--r--+ 3 jl11046 users
                                 49821 2020-02-18 17:50 loudacre/bigiplist/part-00264
                                 49629 2020-02-18 17:46 loudacre/bigiplist/part-00265
-rw-r--r--+ 3 il11046 users
-rw-r--r--+ 3 jl11046 users
                                 49861 2020-02-18 17:50 loudacre/bigiplist/part-00266
-rw-r--r--+ 3 jl11046 users
                                 49772 2020-02-18 17:50 loudacre/bigiplist/part-00267
           3 jl11046 users
                                 49745 2020-02-18 17:46 loudacre/bigiplist/part-00268
-rw-r--r--+
           3 jl11046 users
-rw-r--r--+
                                 49784 2020-02-18 17:50 loudacre/bigiplist/part-00269
rw-r--r--+
              jl11046 users
                                 49570 2020-02-18 17:46 loudacre/bigiplist/part-00270
rw-r--r--+
              jl11046 users
                                 50044 2020-02-18 17:46 loudacre/bigiplist/part-00271
           3 il11046 users
                                 49433 2020-02-18 17:50 loudacre/bigiplist/part-00272
rw-r--r--+
           3 jl11046 users
rw-r--r--+
                                 49914 2020-02-18 17:46 loudacre/bigiplist/part-00273
rw-r--r--+
           3 jl11046 users
                                 49697 2020-02-18 17:46 loudacre/bigiplist/part-00274
rw-r--r--+ 3 jl11046 users
                                 49793 2020-02-18 17:50 loudacre/bigiplist/part-00275
rw-r--r--+ 3 jl11046 users
                                 49683 2020-02-18 17:46 loudacre/bigiplist/part-00276
rw-r--r--+ 3 jl11046 users
                                 49845 2020-02-18 17:50 loudacre/bigiplist/part-00277
rw-r--r--+ 3 jl11046 users
                                 49709 2020-02-18 17:50 loudacre/bigiplist/part-00278
-rw-r--r--+ 3 jl11046 users
                                 49794 2020-02-18 17:50 loudacre/bigiplist/part-00279
-rw-r--r--+ 3 jl11046 users
                                 49692 2020-02-18 17:46 loudacre/bigiplist/part-00280
-rw-r--r--+ 3 jl11046 users
                                 49708 2020-02-18 17:50 loudacre/bigiplist/part-00281
-rw-r--r--+ 3 jl11046 users
                                 49950 2020-02-18 17:50 loudacre/bigiplist/part-00282
-rw-r--r--+ 3 jl11046 users
                                 49809 2020-02-18 17:50 loudacre/bigiplist/part-00283
rw-r--r--+ 3 jl11046 users
                                 49929 2020-02-18 17:50 loudacre/bigiplist/part-00284
rw-r--r--+ 3 jl11046 users
                                 49784 2020-02-18 17:50 loudacre/bigiplist/part-00285
rw-r--r--+ 3 jl11046 users
                                 49670 2020-02-18 17:46 loudacre/bigiplist/part-00286
                                 49854 2020-02-18 17:46 loudacre/bigiplist/part-00287
rw-r--r--+ 3 jl11046 users
rw-r--r--+ 3 jl11046 users
                                 49692 2020-02-18 17:46 loudacre/bigiplist/part-00288
-rw-r--r--+ 3 jl11046 users
                                 49779 2020-02-18 17:46 loudacre/bigiplist/part-00289
rw-r--r--+ 3 il11046 users
                                 49698 2020-02-18 17:46 loudacre/bigiplist/part-00290
rw-r--r--+ 3 jl11046 users
                                 49761 2020-02-18 17:46 loudacre/bigiplist/part-00291
-rw-r--r--+ 3 jl11046 users
                                 49751 2020-02-18 17:46 loudacre/bigiplist/part-00292
-rw-r--r--+ 3 il11046 users
                                 49590 2020-02-18 17:51 loudacre/bigiplist/part-00293
           3 jl11046 users
                                 49907 2020-02-18 17:46 loudacre/bigiplist/part-00294
-rw-r--r--+
rw-r--r--+
              jl11046 users
                                 49818 2020-02-18 17:51 loudacre/bigiplist/part-00295
              il11046 users
                                 49699 2020-02-18 17:46 loudacre/bigiplist/part-00296
rw-r--r--+
rw-r--r--+
              il11046 users
                                 49617 2020-02-18 17:51 loudacre/bigiplist/part-00297
rw-r--r--+
           3 jl11046 users
                                 49824 2020-02-18 17:46 loudacre/bigiplist/part-00298
rw-r--r--+
           3 jl11046 users
                                 49887 2020-02-18 17:46 loudacre/bigiplist/part-00299
           3 jl11046 users
rw-r--r--+
                                 49956 2020-02-18 17:47 loudacre/bigiplist/part-00300
rw-r--r--+ 3 jl11046 users
                                 49708 2020-02-18 17:51 loudacre/bigiplist/part-00301
rw-r--r--+ 3 jl11046 users
                                 49800 2020-02-18 17:51 loudacre/bigiplist/part-00302
rw-r--r--+ 3 il11046 users
                                 49766 2020-02-18 17:51 loudacre/bigiplist/part-00303
rw-r--r--+ 3 jl11046 users
                                 49849 2020-02-18 17:47 loudacre/bigiplist/part-00304
rw-r--r--+ 3 jl11046 users
                                 49464 2020-02-18 17:51 loudacre/bigiplist/part-00305
-rw-r--r--+ 3 jl11046 users
                                 49906 2020-02-18 17:46 loudacre/bigiplist/part-00306
-rw-r--r--+ 3 jl11046 users
                                 49524 2020-02-18 17:51 loudacre/bigiplist/part-00307
-rw-r--r--+ 3 jl11046 users
                                 49737 2020-02-18 17:47 loudacre/bigiplist/part-00308
-rw-r--r--+ 3 jl11046 users
                                 49734 2020-02-18 17:46 loudacre/bigiplist/part-00309
-rw-r--r--+ 3 jl11046 users
                                  2084 2020-02-18 17:46 loudacre/bigiplist/part-00310
[jl11046@login-2-1 hw3]$
```