```
[31118668]Gigin-2-1 PA3]$ hadoop jar pageBank.jar PageBank class3/input.txt class3/output
3090923 18:1946 MARN mapreador_JobHecouresbjooder: Nadoop.commund-line option parsing not performed. Implement the Tool interface and execute your application with ToolRunner to remedy this.
1909213 18:1946 MARN mapreador_JobHecouresbjooder: Nadoop.commund-line option parsing not performed. Implement the Tool interface and execute your application with ToolRunner to remedy this.
1909213 18:1947 HDFO Configuration.deprecation: mapred.textoutputformat.separator is deprecated. Instead, use mapreduce.output.textoutputformat.separator
1909213 18:1947 HDFO Configuration.deprecation: mapred.textoutputformat.separator
1909213 18:1947 HDFO mapreduce.obc: Naming join join join joint page 1909213 18:1948 HDFO mapreduce.obc: Naming join join 1909203 18:1949 HDFO mapreduce.obc: Naming join join 1909203 18:1949 HDFO mapreduce.obc: Naming join join 1909203 18:1949 HDFO mapreduce.obc: map 08 reduce 08
1909213 18:1959 HDFO mapreduce.obc: map 08 reduce 08
1909213 18:1959 HDFO mapreduce.obc: map 08 reduce 08
1909213 18:2960 HDFO mapreduce.obc: documents of the State Obcommunity of th
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```
Reduce input groups=6
                 Reduce shuffle bytes=184
                 Reduce input records=21
                 Reduce output records=6
                 Spilled Records=42
                 Shuffled Maps =1
                 Failed Shuffles=0
                 Merged Map outputs=1
                 GC time elapsed (ms)=95
                 CPU time spent (ms)=1910
                 Physical memory (bytes) snapshot=911691776
                 Virtual memory (bytes) snapshot=7472320512
                 Total committed heap usage (bytes)=2375024640
        Shuffle Errors
                 BAD ID=0
                 CONNECTION=0
                 IO ERROR=0
                 WRONG LENGTH=0
                 WRONG MAP=0
                 WRONG REDUCE=0
        File Input Format Counters
                 Bytes Read=100
        File Output Format Counters
                 Bytes Written=151
[jl11046@login-2-1 PA3]$ hdfs dfs -ls class3/output
Found 2 items
-rw-r--r-+ 3 jl11046 users 0 2019-09-23 18:20 class3/output/_SUCCESS -rw-r--r-+ 3 jl11046 users 151 2019-09-23 18:19 class3/output/part-r-00000
[jl11046@login-2-1 PA3]$ hdfs dfs -cat class3/part-r-00000
cat: `class3/part-r-00000': No such file or directory
[jl11046@login-2-1 PA3]$ hdfs dfs -cat class3/output/part-r-00000
A C J 0.1166669
B D E J 0.200000400000000000
C A B 0.20000040000000000
D A B C E J 0.05555566666666667
E J 0.08888906666666667
J B C 0.3388895666666667
```

```
[3111046@login=2-1 FA3]$ hadoop jar pageKank.jar PageKank class3/output/part-r-00000 class3/output2
10709/23 18:30:40 War imposites. Jobbsconceroscopiosion: Hadoop command-line option parsing not performed. Implement the Tool interface and execute your application with ToolRunner to remedy this.
10709/23 18:30:30:50 NEO Configuration.deprecation: mapped interface process is 1
10709/23 18:30:30:50 NEO Configuration.deprecation: mapped interface process. In 10709/23 18:30:30 NEO Configuration.deprecation.deprecation.deprecation.deprecation.deprecation.deprecation.deprecation.deprecation.deprecation.deprecation.deprecation.deprecation.deprecation.deprecation.deprecation.deprecation.deprecation.deprecation.deprecation.deprecation.deprecation.deprecation.deprecation.deprecation.deprecation.deprecation.deprecation.deprecation.deprecation.deprecation.deprecation.deprecation.deprecation.deprecation.deprecation.deprecation.deprecation.deprecation.deprecation.deprecation.deprecation.deprecation.deprecation.deprecation.deprecation.deprecation.deprecation.deprecation.deprecation.deprecation.deprecation.deprecation.deprecation.deprecation.deprecation.deprecation.deprecation.deprecation.deprecation.deprecation.deprecation.deprecation.deprecation.deprecation.deprecation.deprecation.deprecation.deprecation.deprecation.deprecation.deprecation.deprecation.deprecation.deprecation.deprecation.deprecation.deprecation.deprecation.deprecation.deprecation.deprecation.deprecation.deprecation.deprecation.deprecation.deprecation.deprecation.deprecation.deprecation.deprecation.deprecation.deprecation.deprecation.deprecation.deprecation.deprecation.deprecat
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```
Combine input records=0
               Combine output records=0
               Reduce input groups=6
               Reduce shuffle bytes=239
                Reduce input records=21
               Reduce output records=6
               Spilled Records=42
               Shuffled Maps =1
               Failed Shuffles=0
               Merged Map outputs=1
               GC time elapsed (ms)=94
               CPU time spent (ms)=1920
               Physical memory (bytes) snapshot=911024128
               Virtual memory (bytes) snapshot=7473655808
               Total committed heap usage (bytes)=2416443392
       Shuffle Errors
               BAD ID=0
               CONNECTION=0
                IO ERROR=0
               WRONG_LENGTH=0
               WRONG MAP=0
               WRONG REDUCE=0
       File Input Format Counters
               Bytes Read=151
       File Output Format Counters
               Bytes Written=161
[jl11046@login-2-1 PA3]$ hdfs dfs -ls class3/output2
Found 2 items
-rw-r--r--+ 3 jl11046 users
                                    0 2019-09-23 18:21 class3/output2/ SUCCESS
-rw-r--r+ 3 jl11046 users 161 2019-09-23 18:21 class3/output2/part-r-00000
[jl11046@login-2-1 PA3]$ hdfs dfs -cat class3/output2/part-r-00000
A C J 0.111111333333333334
B D E J 0.2805561166666667
C A B 0.23888936666666669
D A B C E J 0.066666800000000001
E J 0.077777933333333334
J B C 0.225000450000000002
```

```
1318108[jegin] 2.3 DR3] backer jar segeland, jar Regeland (Jars) colonial 22part - 60000 class 23phight
1309/23 182.13 DR3 backer jar segeland, jar Regeland (Jars) colonial parsing not performed. Implement the Tool interface and execute your application with ToolBunner to remedy this.
1309/23 182.13 HTMC input.fileImplifrents: Total input parts to process: 1
1309/23 182.13 HTMC input.fileImplifrents: Total input parts to process: 1
1309/23 182.13 HTMC input.fileImplifrents: supred.tetocloptifrents.sparts.gradue.output.tetocloptifrents.sparator
1309/23 182.13 HTMC input.fileImplifrents: supred.tetocloptifrents.sparator
1309/23 182.13 HTMC improduce.lob: The unit to track the job: http://babar.se.its.nu.edu;8888/prox/spplication_1569288317451_9272
1309/23 182.13 HTMC improduce.lob: The unit to track the job: http://babar.se.its.nu.edu;8888/prox/spplication_1569288317451_9272
1309/23 182.13 HTMC improduce.lob: Sub jobs/98851851_9072
```

```
Combine output records=0
               Reduce input groups=6
               Reduce shuffle bytes=246
               Reduce input records=21
               Reduce output records=6
               Spilled Records=42
               Shuffled Maps =1
               Failed Shuffles=0
               Merged Map outputs=1
               GC time elapsed (ms)=88
               CPU time spent (ms)=1780
               Physical memory (bytes) snapshot=910516224
               Virtual memory (bytes) snapshot=7470661632
               Total committed heap usage (bytes)=2390228992
       Shuffle Errors
               BAD ID=0
               CONNECTION=0
               IO ERROR=0
               WRONG_LENGTH=0
               WRONG_MAP=0
               WRONG REDUCE=0
       File Input Format Counters
               Bytes Read=161
       File Output Format Counters
               Bytes Written=160
[jl11046@login-2-1 PA3]$ hdfs dfs -ls class3/output3
Found 2 items
-rw-r--r--+ 3 jl11046 users
                                     0 2019-09-23 18:21 class3/output3/ SUCCESS
-rw-r--r--+ 3 jl11046 users
                                   160 2019-09-23 18:21 class3/output3/part-r-00000
[jl11046@login-2-1 PA3]$ hdfs dfs -cat class3/output3/part-r-00000
A C J 0.13277804333333333
B D E J 0.245278268333333338
C A B 0.1813892516666667
D A B C E J 0.09351870555555557
E J 0.10685206555555557
J B C 0.2401856655555556
[jl11046@login-2-1 PA3]$
```