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hadoop@bmscscse-HP-Elite-Tower-800-G9-Desktop-PC: ~
at java.base/java.lang.ClassLoader.loadClass(ClassLoader.java:594)
at java.base/java.lang.ClassLoader.loadClass(ClassLoader.java:527)
at java.base/java.lang.Class.forName0(Native Method)
at java.base/java.lang.Class.forName(Class.java:398)
at org.apache.hadoop.util.RunJar.run(RunJar.java:321)
at org.apache.hadoop.util.RunJar.main(RunJar.java:241)
hadoop@bmscscse-HP-Elite-Tower-800-G9-Desktop-PC:~$ hadoop jar /home/hadoop/Desktop/topn.jar topnlab /mno/sample.txt /res
Exception in thread "main" java.lang.ClassNotFoundException: topnlab
at java.base/java.net.URLClassLoader.findClass(URLClassLoader.java:476)
at java.base/java.lang.ClassLoader.loadClass(ClassLoader.java:594)
at java.base/java.lang.ClassLoader.loadClass(ClassLoader.java:527)
at java.base/java.lang.Class.forName0(Native Method)
at java.base/java.lang.Class.forName(Class.java:398)
at org.apache.hadoop.util.RunJar.run(RunJar.java:321)
at org.apache.hadoop.util.RunJar.main(RunJar.java:241)
hadoop@bmscscse-HP-Elite-Tower-800-G9-Desktop-PC:~$ hadoop jar /home/hadoop/Desktop/topn.jar TopN /mno/sample.txt /res
Exception in thread "main" java.lang.NoClassDefFoundError: topnlab/TopN (wrong name: TopN)
at java.base/java.lang.ClassLoader.defineClass1(Native Method)
at java.base/java.lang.ClassLoader.defineClass(ClassLoader.java:1022)
at java.base/java.security.SecureClassLoader.defineClass(SecureClassLoader.java:174)
at java.base/java.net.URLClassLoader.defineClass(URLClassLoader.java:555)
at java.base/java.net.URLClassLoader$1.run(URLClassLoader.java:458)
at java.base/java.net.URLClassLoader$1.run(URLClassLoader.java:452)
at java.base/java.security.AccessController.doPrivileged(Native Method)
at java.base/java.net.URLClassLoader.findClass(URLClassLoader.java:451)
at java.base/java.lang.ClassLoader.loadClass(ClassLoader.java:594)
at java.base/java.lang.ClassLoader.loadClass(ClassLoader.java:527)
at java.base/java.lang.Class.forName0(Native Method)
at java.base/java.lang.Class.forName(Class.java:398)
at org.apache.hadoop.util.RunJar.run(RunJar.java:321)
at org.apache.hadoop.util.RunJar.main(RunJar.java:241)
hadoop@bmscscse-HP-Elite-Tower-800-G9-Desktop-PC:~$ hadoop jar /home/hadoop/Desktop/topn.jar topnlab.TopN /mno/sample.txt /
res
2025-05-20 13:58:09,506 INFO impl.MetricsConfig: Loaded properties from hadoop-metrics2.properties
2025-05-20 13:58:09,545 INFO impl.MetricsSystemImpl: Scheduled Metric snapshot period at 10 second(s).
2025-05-20 13:58:09,545 INFO impl.MetricsSystemImpl: JobTracker metrics system started
2025-05-20 13:58:09,658 INFO input.FileInputFormat: Total input files to process : 1
2025-05-20 13:58:09,709 INFO mapreduce.JobSubmitter: number of splits:1
2025-05-20 13:58:09,777 INFO mapreduce.JobSubmitter: Submitting tokens for job: job_local408680812_0001
2025-05-20 13:58:09,778 INFO mapreduce.JobSubmitter: Executing with tokens: []
2025-05-20 13:58:09,836 INFO mapreduce.Job: The url to track the job: http://localhost:8080/
2025-05-20 13:58:09,837 INFO mapreduce.Job: Running job: job_local408680812_0001
2025-05-20 13:58:09,838 INFO mapred.LocalJobRunner: OutputCommitter set in config null
2025-05-20 13:58:09,841 INFO output.PathOutputCommitterFactory: No output committer factory defined, defaulting to FileOutp
utCommitterFactory
2025-05-20 13:58:09,842 INFO output.FileOutputCommitter: File Output Committer Algorithm version is 2
2025-05-20 13:58:09,842 INFO output.FileOutputCommitter: FileOutputCommitter skip cleanup _temporary folders under output d
irectory:false, ignore cleanup failures: false

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hadoop@bmscscse-HP-Elite-Tower-800-G9-Desktop-PC: ~
2025-05-20 13:58:09,842 INFO output.FileOutputCommitter: File Output Committer Algorithm version is 2
2025-05-20 13:58:09,842 INFO output.FileOutputCommitter: FileOutputCommitter skip cleanup _temporary folders under output d
irectory:false, ignore cleanup failures: false
2025-05-20 13:58:09,842 INFO mapred.LocalJobRunner: OutputCommitter is org.apache.hadoop.mapreduce.lib.output.FileOutputCom
mitter
2025-05-20 13:58:09,884 INFO mapred.LocalJobRunner: Waiting for map tasks
2025-05-20 13:58:09,885 INFO mapred.LocalJobRunner: Starting task: attempt_local408680812_0001_m_000000_0
2025-05-20 13:58:09,895 INFO output.PathOutputCommitterFactory: No output committer factory defined, defaulting to FileOutp
utCommitterFactory
2025-05-20 13:58:09,895 INFO output.FileOutputCommitter: File Output Committer Algorithm version is 2
2025-05-20 13:58:09,895 INFO output.FileOutputCommitter: FileOutputCommitter skip cleanup _temporary folders under output d
irectory:false, ignore cleanup failures: false
2025-05-20 13:58:09,903 INFO mapred.Task: Using ResourceCalculatorProcessTree : [ ]
2025-05-20 13:58:09,906 INFO mapred.MapTask: Processing split: hdfs://localhost:9000/mno/sample.txt:0+75
2025-05-20 13:58:09,945 INFO mapred.MapTask: (EQUATOR) 0 kvi 26214396(104857584)
2025-05-20 13:58:09,945 INFO mapred.MapTask: mapreduce.task.io.sort.mb: 100
2025-05-20 13:58:09,945 INFO mapred.MapTask: soft limit at 83886080
2025-05-20 13:58:09,945 INFO mapred.MapTask: bufstart = 0; bufvoid = 104857600
2025-05-20 13:58:09,945 INFO mapred.MapTask: kvstart = 26214396; length = 6553600
2025-05-20 13:58:09,947 INFO mapred.MapTask: map output collector class = org.apache.hadoop.mapred.MapTask$MapOutputBuffer
2025-05-20 13:58:10,006 INFO mapred.LocalJobRunner:
2025-05-20 13:58:10,007 INFO mapred.MapTask: Starting flush of map output
2025-05-20 13:58:10,007 INFO mapred.MapTask: Spilling map output
2025-05-20 13:58:10,007 INFO mapred.MapTask: bufstart = 0; bufend = 135; bufvoid = 104857600
2025-05-20 13:58:10,007 INFO mapred.MapTask: kvstart = 26214396(104857584); kvend = 26214340(104857360); length = 57/655360
0
2025-05-20 13:58:10,010 INFO mapred.MapTask: Finished spill 0
2025-05-20 13:58:10,014 INFO mapred.Task: Task:attempt_local408680812_0001_m_000000_0 is done. And is in the process of com
mitting
2025-05-20 13:58:10,016 INFO mapred.LocalJobRunner: map
2025-05-20 13:58:10,017 INFO mapred.Task: Task 'attempt_local408680812_0001_m_000000_0' done.
2025-05-20 13:58:10,020 INFO mapred.Task: Final Counters for attempt_local408680812_0001_m_000000_0: Counters: 23
File System Counters
FILE: Number of bytes read=7513
FILE: Number of bytes written=645435
FILE: Number of read operations=0
FILE: Number of large read operations=0
FILE: Number of write operations=0
HDFS: Number of bytes read=75
HDFS: Number of bytes written=0
HDFS: Number of read operations=5
HDFS: Number of large read operations=0
HDFS: Number of write operations=1
HDFS: Number of bytes read erasure-coded=0
Map-Reduce Framework
Map input records=2
Map output records=15
Map output bytes=135

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hadoop@bmscsece-HP-Elite-Tower-800-G9-Desktop-PC: ~
2025-05-20 13:58:10,168 INFO mapred.Task: Task:attempt_local408680812_0001_r_000000_0 is done. And is in the process of committing
2025-05-20 13:58:10,169 INFO mapred.LocalJobRunner: 1 / 1 copied.
2025-05-20 13:58:10,169 INFO mapred.Task: Task attempt_local408680812_0001_r_000000_0 is allowed to commit now
2025-05-20 13:58:10,194 INFO output.FileOutputCommitter: Saved output of task 'attempt_local408680812_0001_r_000000_0' to hdfs://localhost:9000/res
2025-05-20 13:58:10,195 INFO mapred.LocalJobRunner: reduce > reduce
2025-05-20 13:58:10,196 INFO mapred.Task: Task 'attempt_local408680812_0001_r_000000_0' done.
2025-05-20 13:58:10,197 INFO mapred.Task: Final Counters for attempt_local408680812_0001_r_000000_0: Counters: 30
File System Counters
  FILE: Number of bytes read=7887
  FILE: Number of bytes written=645606
  FILE: Number of read operations=0
  FILE: Number of large read operations=0
  FILE: Number of write operations=0
  HDFS: Number of bytes read=75
  HDFS: Number of bytes written=105
  HDFS: Number of read operations=10
  HDFS: Number of large read operations=0
  HDFS: Number of write operations=3
  HDFS: Number of bytes read erasure-coded=0
Map-Reduce Framework
  Combine input records=0
  Combine output records=0
  Reduce input groups=15
  Reduce shuffle bytes=171
  Reduce input records=15
  Reduce output records=15
  Spilled Records=15
  Shuffled Maps =1
  Failed Shuffles=0
  Merged Map outputs=1
  GC time elapsed (ms)=0
  Total committed heap usage (bytes)=526385152
Shuffle Errors
  BAD_ID=0
  CONNECTION=0
  IO_ERROR=0
  WRONG_LENGTH=0
  WRONG_MAP=0
  WRONG_REDUCE=0
File Output Format Counters
  Bytes Written=105
2025-05-20 13:58:10,197 INFO mapred.LocalJobRunner: Finishing task: attempt_local408680812_0001_r_000000_0
2025-05-20 13:58:10,197 INFO mapred.LocalJobRunner: reduce task executor complete.
2025-05-20 13:58:10,840 INFO mapreduce.Job: Job job_local408680812_0001 running in uber mode : false
2025-05-20 13:58:10,842 INFO mapreduce.Job: map 100% reduce 100%
2025-05-20 13:58:10,843 INFO mapreduce.Job: Job job_local408680812_0001 completed successfully

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hadoop@bmscsece-HP-Elite-Tower-800-G9-Desktop-PC: ~
Map input records=2
Map output records=15
Map output bytes=135
Map output materialized bytes=171
Input split bytes=101
Combine input records=0
Spilled Records=15
Failed Shuffles=0
Merged Map outputs=0
GC time elapsed (ms)=0
Total committed heap usage (bytes)=526385152
File Input Format Counters
  Bytes Read=75
2025-05-20 13:58:10,020 INFO mapred.LocalJobRunner: Finishing task: attempt_local408680812_0001_m_000000_0
2025-05-20 13:58:10,020 INFO mapred.LocalJobRunner: map task executor complete.
2025-05-20 13:58:10,021 INFO mapred.LocalJobRunner: Waiting for reduce tasks
2025-05-20 13:58:10,022 INFO mapred.LocalJobRunner: Starting task: attempt_local408680812_0001_r_000000_0
2025-05-20 13:58:10,027 INFO output.PathOutputCommitterFactory: No output committer factory defined, defaulting to FileOutputCommitterFactory
2025-05-20 13:58:10,027 INFO output.FileOutputCommitter: File Output Committer Algorithm version is 2
2025-05-20 13:58:10,027 INFO output.FileOutputCommitter: FileOutputCommitter skip cleanup _temporary folders under output directory:false, ignore cleanup failures: false
2025-05-20 13:58:10,027 INFO mapred.Task: Using ResourceCalculatorProcessTree : [ ]
2025-05-20 13:58:10,028 INFO mapred.ReduceTask: Using ShuffleConsumerPlugin: org.apache.hadoop.mapreduce.task.reduce.ShuffleConsumer
2025-05-20 13:58:10,029 WARN impl.MetricsSystemImpl: JobTracker metrics system already initialized!
2025-05-20 13:58:10,037 INFO reduce.MergeManagerImpl: MergerManager: memoryLimit=5829453312, maxSingleShuffleLimit=1457363328, mergeThreshold=3847439360, ioSortFactor=10, memToMemMergeOutputsThreshold=10
2025-05-20 13:58:10,038 INFO reduce.EventFetcher: attempt_local408680812_0001_r_000000_0 Thread started: EventFetcher for fetching Map Completion Events
2025-05-20 13:58:10,053 INFO reduce.LocalFetcher: localfetcher#1 about to shuffle output of map attempt_local408680812_0001_m_000000_0 decomp: 167 len: 171 to MEMORY
2025-05-20 13:58:10,054 INFO reduce.InMemoryMapOutput: Read 167 bytes from map-output for attempt_local408680812_0001_m_000000_0
2025-05-20 13:58:10,055 INFO reduce.MergeManagerImpl: closeInMemoryFile -> map-output of size: 167, inMemoryMapOutputs.size() -> 1, commitMemory -> 0, usedMemory -> 167
2025-05-20 13:58:10,056 INFO reduce.EventFetcher: EventFetcher is interrupted.. Returning
2025-05-20 13:58:10,056 INFO mapred.LocalJobRunner: 1 / 1 copied.
2025-05-20 13:58:10,056 INFO reduce.MergeManagerImpl: finalMerge called with 1 in-memory map-outputs and 0 on-disk map-outputs
2025-05-20 13:58:10,059 INFO mapred.Merger: Merging 1 sorted segments
2025-05-20 13:58:10,059 INFO mapred.Merger: Down to the last merge-pass, with 1 segments left of total size: 162 bytes
2025-05-20 13:58:10,060 INFO reduce.MergeManagerImpl: Merged 1 segments, 167 bytes to disk to satisfy reduce memory limit
2025-05-20 13:58:10,060 INFO reduce.MergeManagerImpl: Merging 1 files, 171 bytes from disk
2025-05-20 13:58:10,060 INFO reduce.MergeManagerImpl: Merging 0 segments, 0 bytes from memory into reduce
2025-05-20 13:58:10,060 INFO mapred.Merger: Merging 1 sorted segments
2025-05-20 13:58:10,061 INFO mapred.Merger: Down to the last merge-pass, with 1 segments left of total size: 162 bytes
2025-05-20 13:58:10,061 INFO mapred.LocalJobRunner: 1 / 1 copied.

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hadoop@bmscscse-HP-Elite-Tower-800-G9-Desktop-PC: ~
2025-05-20 13:58:10.840 INFO mapreduce.Job: Job job_local408680012_0001 running in uber mode : false
2025-05-20 13:58:10.842 INFO mapreduce.Job: map 100% reduce 100%
2025-05-20 13:58:10.843 INFO mapreduce.Job: Job job_local408680012_0001 completed successfully
2025-05-20 13:58:10.854 INFO mapreduce.Job: Counters: 36
  File System Counters
    FILE: Number of bytes read=15400
    FILE: Number of bytes written=1291841
    FILE: Number of read operations=0
    FILE: Number of large read operations=0
    FILE: Number of write operations=0
    HDFS: Number of bytes read=150
    HDFS: Number of bytes written=185
    HDFS: Number of read operations=12
    HDFS: Number of large read operations=0
    HDFS: Number of write operations=4
    HDFS: Number of bytes read erasure-coded=0
  Map-Reduce Framework
    Map input records=2
    Map output records=18
    Map output bytes=125
    Map output materialized bytes=171
    Input split bytes=101
    Combine input records=0
    Combine output records=0
    Reduce input groups=15
    Reduce shuffle bytes=171
    Reduce input records=15
    Reduce output records=15
    Spilled Records=30
    Shuffled Maps =1
    Failed Shuffles=0
    Merged Map outputs=1
    GC time elapsed (ms)=0
    Total committed heap usage (bytes)=1052770304
  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=75
  File Output Format Counters
    Bytes Written=185
hadoop@bmscscse-HP-Elite-Tower-800-G9-Desktop-PC:~$ hadoop fs -cat /res/part-00000
cat: /res/part-00000: No such file or directory
hadoop@bmscscse-HP-Elite-Tower-800-G9-Desktop-PC:~$ hadoop fs -ls /res

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hadoop@bmscscse-HP-Elite-Tower-800-G9-Desktop-PC: ~
  Input split bytes=101
  Combine input records=0
  Combine output records=0
  Reduce input groups=15
  Reduce shuffle bytes=171
  Reduce input records=15
  Reduce output records=15
  Spilled Records=30
  Shuffled Maps =1
  Failed Shuffles=0
  Merged Map outputs=1
  GC time elapsed (ms)=0
  Total committed heap usage (bytes)=1052770304
  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=75
  File Output Format Counters
    Bytes Written=185
hadoop@bmscscse-HP-Elite-Tower-800-G9-Desktop-PC:~$ hadoop fs -cat /res/part-00000
cat: /res/part-00000: No such file or directory
hadoop@bmscscse-HP-Elite-Tower-800-G9-Desktop-PC:~$ hadoop fs -ls /res
Found 2 items
-rw-r--r-- 1 hadoop supergroup          0 2025-05-20 13:58 /res/_SUCCESS
-rw-r--r-- 1 hadoop supergroup       105 2025-05-20 13:58 /res/part-r-00000
hadoop@bmscscse-HP-Elite-Tower-800-G9-Desktop-PC:~$ ^C
hadoop@bmscscse-HP-Elite-Tower-800-G9-Desktop-PC:~$ hadoop fs -cat /res/part-r-00000
college 1
in      1
bms     1
hii     1
l       1
inna   1
am      1
m       1
bhuvana 1
how     1
are     1
avyukth 1
of      1
you     1
engineering 1
hadoop@bmscscse-HP-Elite-Tower-800-G9-Desktop-PC:~$

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