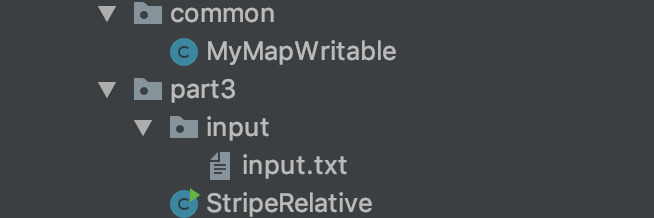
# **Project – part 1-5**

# **Part 3: Implement Stripes algorithm to compute relative frequencies.**

# ***Run in Hadoop Docker***

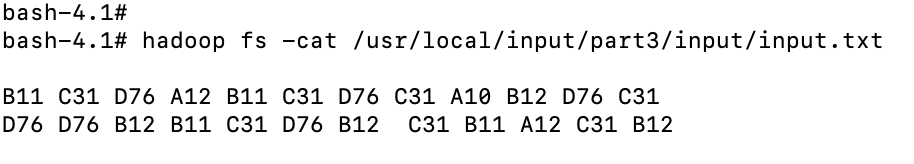
There are the .java files of program.



Build the whole project into .jar file and copy it into Hadoop docket and execute these commands:

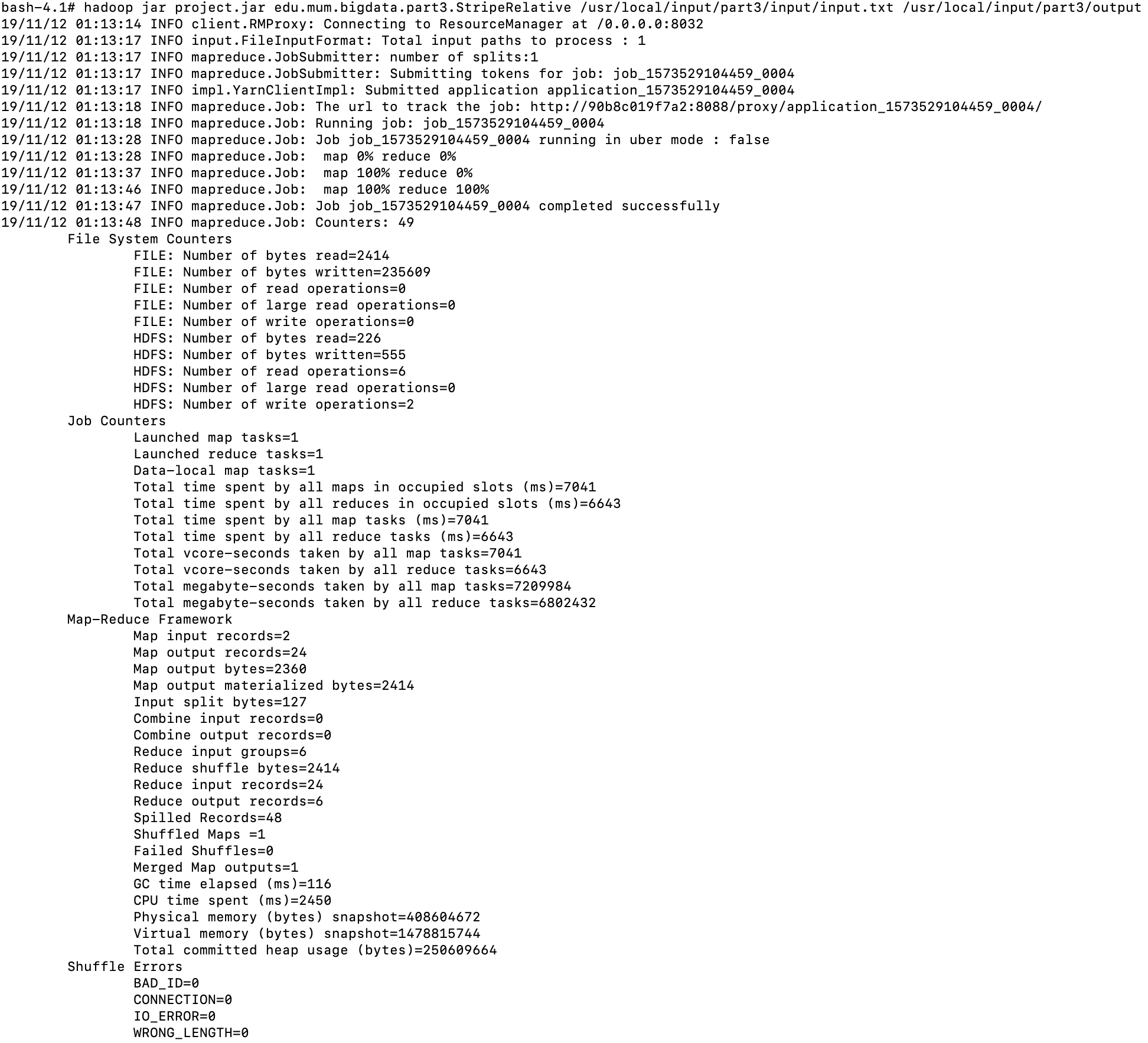
# **Show the input content**

hadoop fs -cat /usr/local/input/part3/input/input.txt



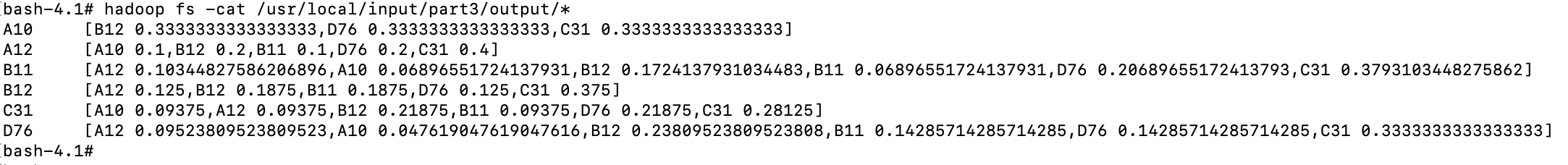
# **Execute the MapReduce program**

hadoop jar project.jar edu.mum.bigdata.part3.StripeRelative /usr/local/input/part3/input/input.txt /usr/local/input/part3/output



hadoop fs -cat /usr/local/input/part3/output/\*

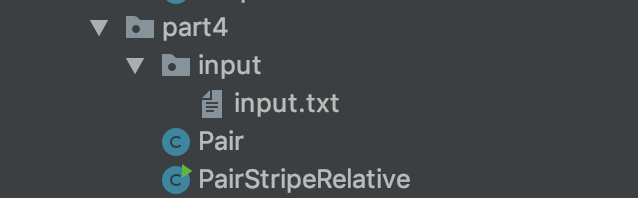
# **Program output**



# **Part 4: Implement Pairs in Mapper and Stripes in Reducer to compute relative frequencies.**

# ***Run in Hadoop Docker***

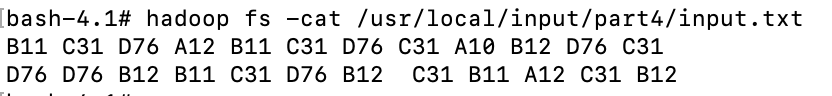
These are the .java files for the program.



Build the whole project into .jar file and copy it to Hadoop docker and execute these commands:

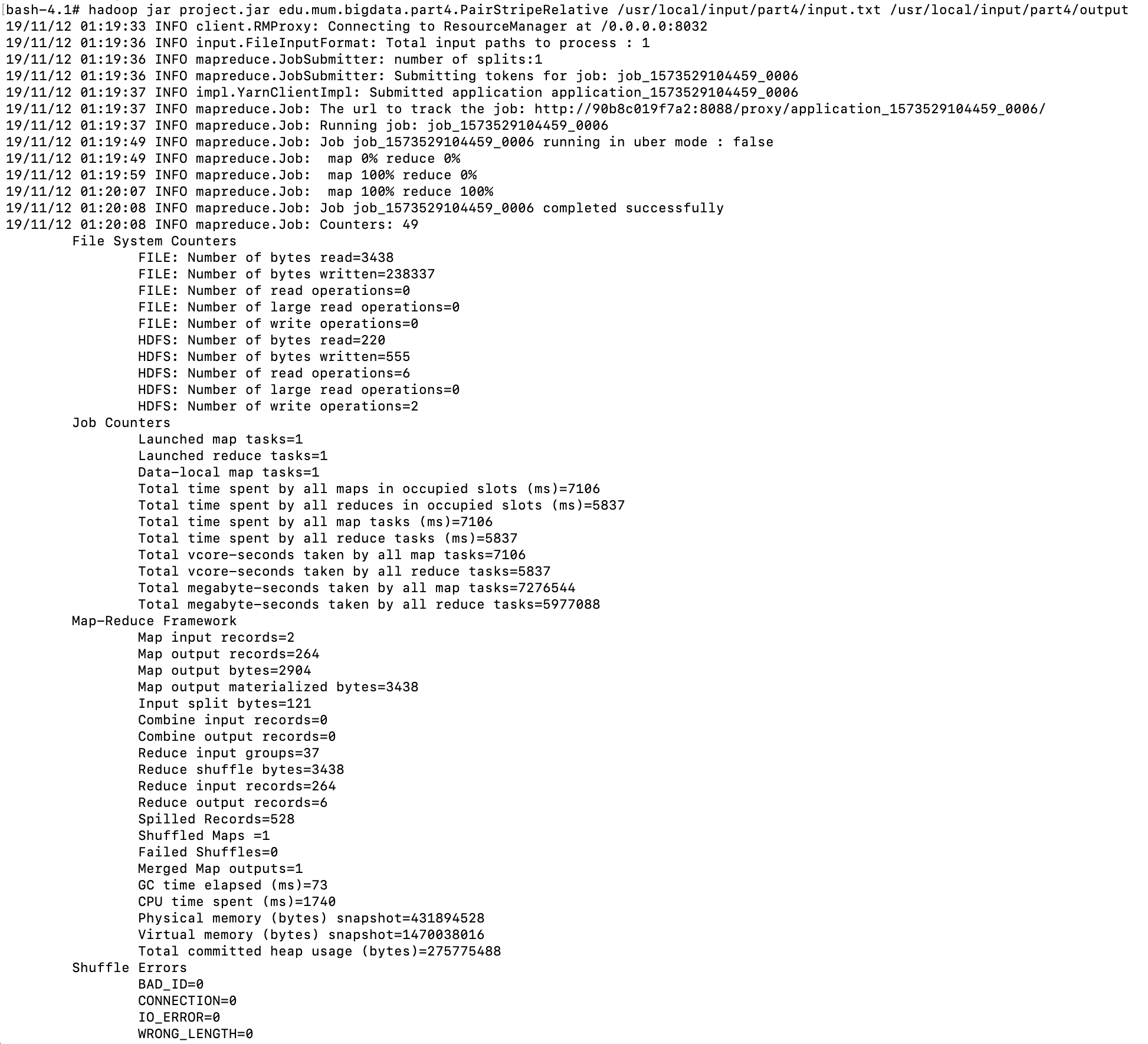
# **Show the content of input files**

hadoop fs -cat /usr/local/input/part4/input.txt



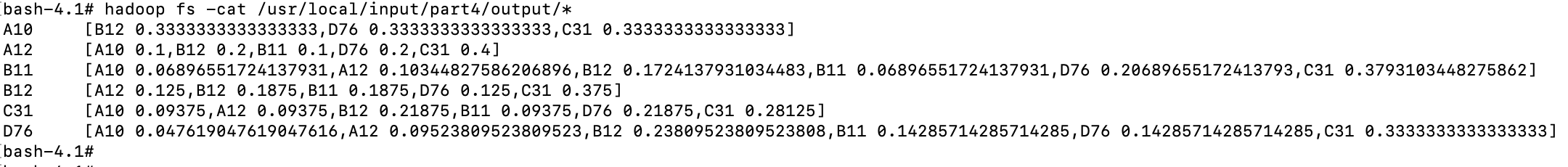
# **Execute the MapRecure program**

hadoop jar project.jar edu.mum.bigdata.part4.PairStripeRelative /usr/local/input/part4/input.txt /usr/local/input/part4/output



# **Show the program output**

hadoop fs -cat /usr/local/input/part4/output/\*

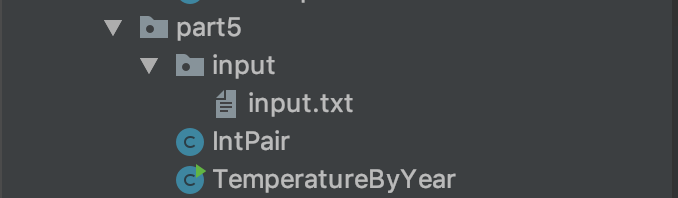


# **Part 5: Solve a MapReduce problem of your choice!**

# **Run in Hadoop Docker**

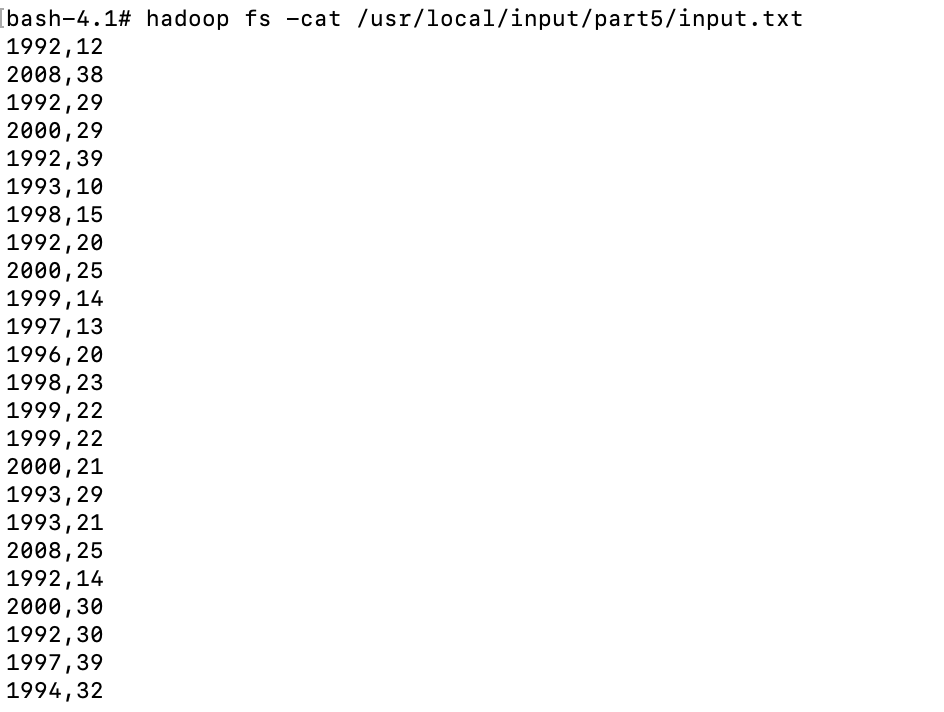
The problem is to compute the average temperature by year. Build the whole project into .jar file and copy it into Hadoop docker and execute with the follow commands.

The following is the .java files for this part and the testing input data.



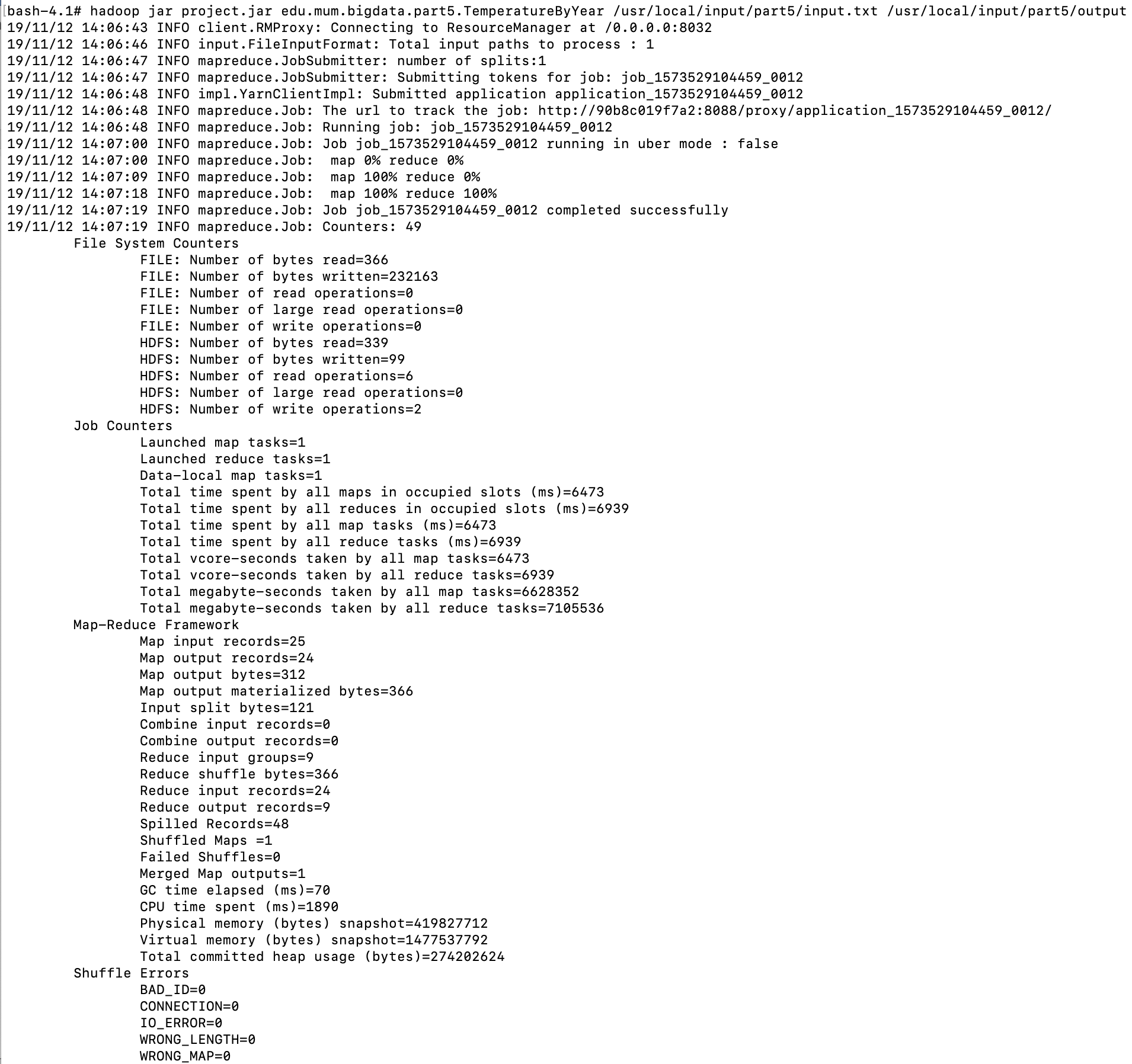
# **Show the content of input data.**

hadoop fs -cat /usr/local/input/part5/input.txt



# **Execute the MapReduce program**

hadoop jar project.jar edu.mum.bigdata.part5.TemperatureByYear /usr/local/input/part5/input.txt /usr/local/input/part5/output



# **Show the output data.**

hadoop fs -cat /usr/local/input/part5/output/\*

