**Assignment 2A**

**Code :**

package ProgramsDemo;

import java.io.IOException;

import org.apache.hadoop.conf.Configuration;

import org.apache.hadoop.fs.Path;

import org.apache.hadoop.io.IntWritable;

import org.apache.hadoop.io.LongWritable;

import org.apache.hadoop.io.Text;

import org.apache.hadoop.mapreduce.Job;

import org.apache.hadoop.mapreduce.Mapper;

import org.apache.hadoop.mapreduce.Reducer;

import org.apache.hadoop.mapreduce.lib.input.FileInputFormat;

import org.apache.hadoop.mapreduce.lib.output.FileOutputFormat;

import org.apache.hadoop.util.GenericOptionsParser;

public class WordCount {

public static void main(String [] args) throws Exception

{

Configuration c=new Configuration();

String[] files=new GenericOptionsParser(c,args).getRemainingArgs();

Path input=new Path(files[0]);

Path output=new Path(files[1]);

Job j=new Job(c,"wordcount");

j.setJarByClass(WordCount.class);

j.setMapperClass(MapForWordCount.class);

j.setReducerClass(ReduceForWordCount.class);

j.setOutputKeyClass(Text.class);

j.setOutputValueClass(IntWritable.class);

FileInputFormat.addInputPath(j, input);

FileOutputFormat.setOutputPath(j, output);

System.exit(j.waitForCompletion(true)?0:1);

}

public static class MapForWordCount extends Mapper<LongWritable, Text, Text, IntWritable>{

public void map(LongWritable key, Text value, Context con) throws IOException, InterruptedException

{

String line = value.toString();

String[] words=line.split(",");

for(String word: words )

{

Text outputKey = new Text(word.toUpperCase().trim());

IntWritable outputValue = new IntWritable(1);

con.write(outputKey, outputValue);

}

}

}

public static class ReduceForWordCount extends Reducer<Text, IntWritable, Text, IntWritable>

{

public void reduce(Text word, Iterable<IntWritable> values, Context con) throws IOException, InterruptedException

{

int sum = 0;

for(IntWritable value : values)

{

sum += value.get();

}

con.write(word, new IntWritable(sum));

}

}

}

**OUTPUT :**

[cloudera@quickstart Desktop]$ hadoop jar /home/cloudera/Desktop/file.jar ProgramsDemo.WordCount word1 folder

25/02/17 00:15:43 INFO client.RMProxy: Connecting to ResourceManager at /0.0.0.0:8032

25/02/17 00:15:44 INFO input.FileInputFormat: Total input paths to process : 1

25/02/17 00:15:44 INFO mapreduce.JobSubmitter: number of splits:1

25/02/17 00:15:44 INFO mapreduce.JobSubmitter: Submitting tokens for job: job\_1739779690859\_0001

25/02/17 00:15:45 INFO impl.YarnClientImpl: Submitted application application\_1739779690859\_0001

25/02/17 00:15:45 INFO mapreduce.Job: The url to track the job: http://quickstart.cloudera:8088/proxy/application\_1739779690859\_0001/

25/02/17 00:15:45 INFO mapreduce.Job: Running job: job\_1739779690859\_0001

25/02/17 00:15:56 INFO mapreduce.Job: Job job\_1739779690859\_0001 running in uber mode : false

25/02/17 00:15:56 INFO mapreduce.Job: map 0% reduce 0%

25/02/17 00:16:03 INFO mapreduce.Job: map 100% reduce 0%

25/02/17 00:16:12 INFO mapreduce.Job: map 100% reduce 100%

25/02/17 00:16:13 INFO mapreduce.Job: Job job\_1739779690859\_0001 completed successfully

25/02/17 00:16:13 INFO mapreduce.Job: Counters: 49

File System Counters

FILE: Number of bytes read=188

FILE: Number of bytes written=221051

FILE: Number of read operations=0

FILE: Number of large read operations=0

FILE: Number of write operations=0

HDFS: Number of bytes read=196

HDFS: Number of bytes written=20

HDFS: Number of read operations=6

HDFS: Number of large read operations=0

HDFS: Number of write operations=2

Job Counters

Launched map tasks=1

Launched reduce tasks=1

Data-local map tasks=1

Total time spent by all maps in occupied slots (ms)=4742

Total time spent by all reduces in occupied slots (ms)=5445

Total time spent by all map tasks (ms)=4742

Total time spent by all reduce tasks (ms)=5445

Total vcore-seconds taken by all map tasks=4742

Total vcore-seconds taken by all reduce tasks=5445

Total megabyte-seconds taken by all map tasks=4855808

Total megabyte-seconds taken by all reduce tasks=5575680

Map-Reduce Framework

Map input records=1

Map output records=17

Map output bytes=148

Map output materialized bytes=188

Input split bytes=116

Combine input records=0

Combine output records=0

Reduce input groups=3

Reduce shuffle bytes=188

Reduce input records=17

Reduce output records=3

Spilled Records=34

Shuffled Maps =1

Failed Shuffles=0

Merged Map outputs=1

GC time elapsed (ms)=132

CPU time spent (ms)=1170

Physical memory (bytes) snapshot=348282880

Virtual memory (bytes) snapshot=3007389696

Total committed heap usage (bytes)=226365440

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=80

File Output Format Counters

Bytes Written=20

[cloudera@quickstart Desktop]$ hadoop fs -cat folder/part-r-00000

BUS 4

CAR 7

TRAIN 6

[cloudera@quickstart Desktop]$

**Assignment 2B**

**Code :**

package ProgramsDemo;

import java.io.IOException;

import org.apache.hadoop.conf.Configuration;

import org.apache.hadoop.fs.Path;

import org.apache.hadoop.io.IntWritable;

import org.apache.hadoop.io.LongWritable;

import org.apache.hadoop.io.Text;

import org.apache.hadoop.mapreduce.Job;

import org.apache.hadoop.mapreduce.Mapper;

import org.apache.hadoop.mapreduce.Reducer;

import org.apache.hadoop.mapreduce.lib.input.FileInputFormat;

import org.apache.hadoop.mapreduce.lib.output.FileOutputFormat;

import org.apache.hadoop.util.GenericOptionsParser;

public class billConsumption {

public static void main(String [] args) throws Exception

{

Configuration c=new Configuration();

String[] files=new GenericOptionsParser(c,args).getRemainingArgs();

Path input=new Path(files[0]);

Path output=new Path(files[1]);

Job j=new Job(c,"wordcount");

j.setJarByClass(WordCount.class);

j.setMapperClass(MapForWordCount.class);

j.setReducerClass(ReduceForWordCount.class);

j.setOutputKeyClass(Text.class);

j.setOutputValueClass(IntWritable.class);

FileInputFormat.addInputPath(j, input);

FileOutputFormat.setOutputPath(j, output);

System.exit(j.waitForCompletion(true)?0:1);

}

public static class MapForWordCount extends Mapper<LongWritable, Text, Text, IntWritable>{

public void map(LongWritable key, Text value, Context con) throws IOException, InterruptedException

{

String allLines = value.toString() ;

String[] lines = allLines.split("\n") ;

for(int i=0;i<lines.length;i++){

String[] words = lines[i].split(",") ;

String year = words[0] ;

Text outputKey = new Text(year.toUpperCase().trim());

for(int j=1;j<words.length;j++){

IntWritable outputValue = new IntWritable(Integer.parseInt(words[j]));

con.write(outputKey, outputValue);

}

}

}

}

public static class ReduceForWordCount extends Reducer<Text, IntWritable, Text, IntWritable>

{

int flag = 0 ;

public void reduce(Text word, Iterable<IntWritable> values, Context con) throws IOException, InterruptedException

{

int max = 0;

if(flag == 0){

con.write(new Text("year \t month \t max \t") , new IntWritable()) ;

flag ++ ;

}

int i=0 , maxi = 0 ;

String[] months = {"Jan","Feb","Mar","Apr","May","Jun","Jul","Aug","Sep","Oct","Nov","Dec"};

for(IntWritable value : values)

{

i ++ ;

if(value.get()>max){

max = value.get();

maxi = i ;

}

}

Text output = new Text(word + "\t" + months[maxi]) ;

con.write(output,new IntWritable(max));

}

}

}

**OUTPUT :**

[cloudera@quickstart Desktop]$ hadoop fs -put bill myBill

[cloudera@quickstart Desktop]$ hadoop jar /home/cloudera/Desktop/file.jar ProgramsDemo.billConsumption myBill folder1

25/02/17 00:18:00 INFO client.RMProxy: Connecting to ResourceManager at /0.0.0.0:8032

25/02/17 00:18:01 INFO input.FileInputFormat: Total input paths to process : 1

25/02/17 00:18:01 INFO mapreduce.JobSubmitter: number of splits:1

25/02/17 00:18:02 INFO mapreduce.JobSubmitter: Submitting tokens for job: job\_1739779690859\_0002

25/02/17 00:18:02 INFO impl.YarnClientImpl: Submitted application application\_1739779690859\_0002

25/02/17 00:18:02 INFO mapreduce.Job: The url to track the job: http://quickstart.cloudera:8088/proxy/application\_1739779690859\_0002/

25/02/17 00:18:02 INFO mapreduce.Job: Running job: job\_1739779690859\_0002

25/02/17 00:18:10 INFO mapreduce.Job: Job job\_1739779690859\_0002 running in uber mode : false

25/02/17 00:18:10 INFO mapreduce.Job: map 0% reduce 0%

25/02/17 00:18:17 INFO mapreduce.Job: map 100% reduce 0%

25/02/17 00:18:24 INFO mapreduce.Job: map 100% reduce 100%

25/02/17 00:18:25 INFO mapreduce.Job: Job job\_1739779690859\_0002 completed successfully

25/02/17 00:18:25 INFO mapreduce.Job: Counters: 49

File System Counters

FILE: Number of bytes read=666

FILE: Number of bytes written=222035

FILE: Number of read operations=0

FILE: Number of large read operations=0

FILE: Number of write operations=0

HDFS: Number of bytes read=320

HDFS: Number of bytes written=83

HDFS: Number of read operations=6

HDFS: Number of large read operations=0

HDFS: Number of write operations=2

Job Counters

Launched map tasks=1

Launched reduce tasks=1

Data-local map tasks=1

Total time spent by all maps in occupied slots (ms)=4474

Total time spent by all reduces in occupied slots (ms)=5198

Total time spent by all map tasks (ms)=4474

Total time spent by all reduce tasks (ms)=5198

Total vcore-seconds taken by all map tasks=4474

Total vcore-seconds taken by all reduce tasks=5198

Total megabyte-seconds taken by all map tasks=4581376

Total megabyte-seconds taken by all reduce tasks=5322752

Map-Reduce Framework

Map input records=5

Map output records=60

Map output bytes=540

Map output materialized bytes=666

Input split bytes=117

Combine input records=0

Combine output records=0

Reduce input groups=5

Reduce shuffle bytes=666

Reduce input records=60

Reduce output records=6

Spilled Records=120

Shuffled Maps =1

Failed Shuffles=0

Merged Map outputs=1

GC time elapsed (ms)=119

CPU time spent (ms)=1160

Physical memory (bytes) snapshot=353021952

Virtual memory (bytes) snapshot=3007389696

Total committed heap usage (bytes)=226365440

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=203

File Output Format Counters

Bytes Written=83

[cloudera@quickstart Desktop]$ hadoop fs -cat folder1/part-r-00000

year month max 0

1979 Apr 43

1980 Aug 31

1981 Jun 36

1984 Sep 43

1985 Jul 41

[cloudera@quickstart Desktop]$

**Assignment 2C**

**Code :**

package ProgramsDemo;

import java.io.IOException;

import org.apache.hadoop.conf.Configuration;

import org.apache.hadoop.fs.Path;

import org.apache.hadoop.io.IntWritable;

import org.apache.hadoop.io.LongWritable;

import org.apache.hadoop.io.Text;

import org.apache.hadoop.mapreduce.Job;

import org.apache.hadoop.mapreduce.Mapper;

import org.apache.hadoop.mapreduce.Reducer;

import org.apache.hadoop.mapreduce.lib.input.FileInputFormat;

import org.apache.hadoop.mapreduce.lib.output.FileOutputFormat;

import org.apache.hadoop.util.GenericOptionsParser;

public class logTime {

public static void main(String [] args) throws Exception

{

Configuration c=new Configuration();

String[] files=new GenericOptionsParser(c,args).getRemainingArgs();

Path input=new Path(files[0]);

Path output=new Path(files[1]);

Job j=new Job(c,"wordcount");

j.setJarByClass(WordCount.class);

j.setMapperClass(MapForWordCount.class);

j.setReducerClass(ReduceForWordCount.class);

j.setOutputKeyClass(Text.class);

j.setOutputValueClass(IntWritable.class);

FileInputFormat.addInputPath(j, input);

FileOutputFormat.setOutputPath(j, output);

System.exit(j.waitForCompletion(true)?0:1);

}

public static class MapForWordCount extends Mapper<LongWritable, Text, Text, IntWritable>{

public void map(LongWritable key, Text value, Context con) throws IOException, InterruptedException

{

String allLines = value.toString() ;

String[] lines = allLines.split("\n") ;

for(String line:lines){

String[] words = line.split(",") ;

String login = words[5] ;

String logout = words[7] ;

String ip = words[1];

String[] loginParts = login.split(" ");

String[] logoutParts = logout.split(" ");

// Extract the hours and minutes from the time part

String[] loginTimeParts = loginParts[1].split(":");

String[] logoutTimeParts = logoutParts[1].split(":");

int loginHour = Integer.parseInt(loginTimeParts[0]);

int loginMinute = Integer.parseInt(loginTimeParts[1]);

int logoutHour = Integer.parseInt(logoutTimeParts[0]);

int logoutMinute = Integer.parseInt(logoutTimeParts[1]);

int loginTotalMinutes = loginHour \* 60 + loginMinute;

int logoutTotalMinutes = logoutHour \* 60 + logoutMinute;

// Calculate the difference in minutes

int differenceInMinutes = logoutTotalMinutes - loginTotalMinutes;

// Convert minutes to seconds

int differenceInSeconds = differenceInMinutes \* 60;

Text outputKey = new Text(ip.toUpperCase().trim());

IntWritable outputValue = new IntWritable(differenceInSeconds);

con.write(outputKey, outputValue);

}

}

}

public static class ReduceForWordCount extends Reducer<Text, IntWritable, Text, IntWritable> {

private int gmx = Integer.MIN\_VALUE; // Initialize to a very low value

private int gmn = Integer.MAX\_VALUE; // Initialize to a very high value

private Text gmxip = new Text();

private Text gmnip = new Text();

public void reduce(Text word, Iterable<IntWritable> values, Context con) throws IOException, InterruptedException {

int mx = Integer.MIN\_VALUE;

int mn = Integer.MAX\_VALUE;

// Calculate max and min for the current IP

for (IntWritable value : values) {

int loginTime = value.get();

if (loginTime > mx) {

mx = loginTime;

}

if (loginTime < mn) {

mn = loginTime;

}

}

// Update global max and min across all IPs

if (mx > gmx) {

gmx = mx;

gmxip.set(word); // Set the IP with the max login time

}

if (mn < gmn) {

gmn = mn;

gmnip.set(word); // Set the IP with the min login time

}

}

protected void cleanup(Context context) throws IOException, InterruptedException {

// After all reduce tasks have finished, emit the final result

context.write(new Text("Max IP: " + gmxip.toString()), new IntWritable(gmx));

context.write(new Text("Min IP: " + gmnip.toString()), new IntWritable(gmn));

}

}

}

**OUTPUT :**

[cloudera@quickstart Desktop]$ hadoop fs -put logTime logTime

[cloudera@quickstart Desktop]$ hadoop jar /home/cloudera/Desktop/file.jar ProgramsDemo.logTime logTime folder3

25/02/17 00:21:20 INFO client.RMProxy: Connecting to ResourceManager at /0.0.0.0:8032

25/02/17 00:21:21 INFO input.FileInputFormat: Total input paths to process : 1

25/02/17 00:21:22 INFO mapreduce.JobSubmitter: number of splits:1

25/02/17 00:21:22 INFO mapreduce.JobSubmitter: Submitting tokens for job: job\_1739779690859\_0004

25/02/17 00:21:22 INFO impl.YarnClientImpl: Submitted application application\_1739779690859\_0004

25/02/17 00:21:23 INFO mapreduce.Job: The url to track the job: http://quickstart.cloudera:8088/proxy/application\_1739779690859\_0004/

25/02/17 00:21:23 INFO mapreduce.Job: Running job: job\_1739779690859\_0004

25/02/17 00:21:32 INFO mapreduce.Job: Job job\_1739779690859\_0004 running in uber mode : false

25/02/17 00:21:32 INFO mapreduce.Job: map 0% reduce 0%

25/02/17 00:21:38 INFO mapreduce.Job: map 100% reduce 0%

25/02/17 00:21:46 INFO mapreduce.Job: map 100% reduce 100%

25/02/17 00:21:47 INFO mapreduce.Job: Job job\_1739779690859\_0004 completed successfully

25/02/17 00:21:48 INFO mapreduce.Job: Counters: 49

File System Counters

FILE: Number of bytes read=1864

FILE: Number of bytes written=224401

FILE: Number of read operations=0

FILE: Number of large read operations=0

FILE: Number of write operations=0

HDFS: Number of bytes read=8599

HDFS: Number of bytes written=50

HDFS: Number of read operations=6

HDFS: Number of large read operations=0

HDFS: Number of write operations=2

Job Counters

Launched map tasks=1

Launched reduce tasks=1

Data-local map tasks=1

Total time spent by all maps in occupied slots (ms)=4850

Total time spent by all reduces in occupied slots (ms)=4969

Total time spent by all map tasks (ms)=4850

Total time spent by all reduce tasks (ms)=4969

Total vcore-seconds taken by all map tasks=4850

Total vcore-seconds taken by all reduce tasks=4969

Total megabyte-seconds taken by all map tasks=4966400

Total megabyte-seconds taken by all reduce tasks=5088256

Map-Reduce Framework

Map input records=100

Map output records=100

Map output bytes=1658

Map output materialized bytes=1864

Input split bytes=118

Combine input records=0

Combine output records=0

Reduce input groups=10

Reduce shuffle bytes=1864

Reduce input records=100

Reduce output records=2

Spilled Records=200

Shuffled Maps =1

Failed Shuffles=0

Merged Map outputs=1

GC time elapsed (ms)=141

CPU time spent (ms)=1150

Physical memory (bytes) snapshot=356880384

Virtual memory (bytes) snapshot=3007533056

Total committed heap usage (bytes)=226365440

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=8481

File Output Format Counters

Bytes Written=50

[cloudera@quickstart Desktop]$ hadoop fs -cat folder3/part-r-00000

Max IP: 10.10.10.103 18420

Min IP: 10.10.13.167 0

IP COUNT

10.10.12.231 1034

10.10.12.232 343

10.10.12.233 946

10.10.12.234 734

10.10.12.235 730

10.10.12.236 498

10.10.12.238 26

10.10.12.239 844

10.10.12.24 1488

10.10.12.240 608

10.10.12.241 24

10.10.12.242 1083

10.10.12.243 5

10.10.12.244 928

10.10.12.246 26

10.10.12.247 150

10.10.12.249 1172

10.10.12.25 448

10.10.12.250 234

10.10.12.251 517

10.10.12.253 361

10.10.12.254 328

10.10.12.255 372

10.10.12.26 563

10.10.12.27 3189

10.10.12.28 55

10.10.12.29 70

10.10.12.3 64

10.10.12.30 539

10.10.12.31 153

10.10.12.32 22

10.10.12.34 68

10.10.12.37 25

10.10.12.38 1549

10.10.12.41 350

10.10.12.44 370

10.10.12.45 803

10.10.12.46 318

10.10.12.47 3041

10.10.12.49 3518

10.10.12.5 18

10.10.12.51 110

10.10.12.52 1964

10.10.12.54 2

10.10.12.55 127

10.10.12.56 3296

10.10.12.59 1220

10.10.12.6 1057

10.10.12.60 156

10.10.12.62 744

10.10.12.63 1076

10.10.12.64 200

10.10.12.65 563

10.10.12.66 243

10.10.12.67 23

10.10.12.69 434

10.10.12.7 191

10.10.12.70 3137

10.10.12.71 1809

10.10.12.73 318

10.10.12.74 2490

10.10.12.75 488

10.10.12.76 800

10.10.12.77 86

10.10.12.78 12

10.10.12.8 3152

10.10.12.83 1155

10.10.12.85 133

10.10.12.88 831

10.10.12.89 839

10.10.12.90 61

10.10.12.91 358

10.10.12.92 855

10.10.12.93 3348

10.10.12.95 241

10.10.12.96 1014

10.10.12.97 276

10.10.12.99 726

10.10.13.0 645

10.10.13.1 36

10.10.13.10 32

10.10.13.101 342

10.10.13.102 72

10.10.13.103 2

10.10.13.104 161

10.10.13.106 539

10.10.13.107 201

10.10.13.108 403

10.10.13.11 2

10.10.13.110 770

10.10.13.111 55

10.10.13.115 743

10.10.13.116 1277

10.10.13.117 30

10.10.13.118 334

10.10.13.121 1142

10.10.13.122 936

10.10.13.123 202

10.10.13.124 328

10.10.13.125 1106

10.10.13.126 1667

10.10.13.128 289

10.10.13.129 25

10.10.13.13 617

10.10.13.130 78

10.10.13.131 233

10.10.13.132 744

10.10.13.133 24

10.10.13.134 98

10.10.13.135 27

10.10.13.136 1772

10.10.13.137 308

10.10.13.138 412

10.10.13.14 426

10.10.13.141 576

10.10.13.142 3990

10.10.13.144 219

10.10.13.146 22

10.10.13.147 213

10.10.13.148 166

10.10.13.15 53

10.10.13.150 1431

10.10.13.151 90

10.10.13.152 175

10.10.13.153 4377

10.10.13.156 78

10.10.13.158 207

10.10.13.159 8

10.10.13.16 607

10.10.13.160 1222

10.10.13.161 122

10.10.13.162 2719

10.10.13.165 70

10.10.13.166 112

10.10.13.167 23

10.10.13.168 28

10.10.13.169 213

10.10.13.17 58

10.10.13.170 169

10.10.13.172 5398

10.10.13.174 123

10.10.13.176 293

10.10.13.177 34

10.10.13.178 48

10.10.13.179 342

10.10.13.18 1077

10.10.13.181 29

10.10.13.182 399

10.10.13.183 97

10.10.13.184 35

10.10.13.186 3214

10.10.13.187 7

10.10.13.188 76

10.10.13.189 57

10.10.13.190 62

10.10.13.191 508

10.10.13.192 222

10.10.13.195 303

10.10.13.196 10

10.10.13.199 4063

10.10.13.2 62

10.10.13.20 751

10.10.13.201 21

10.10.13.203 901

10.10.13.204 1279

10.10.13.206 167

10.10.13.208 5

10.10.13.21 959

10.10.13.211 5839

10.10.13.216 6

10.10.13.219 1917

10.10.13.220 31

10.10.13.222 52

10.10.13.224 4

10.10.13.226 92

10.10.13.227 51

10.10.13.228 181

10.10.13.23 1038

10.10.13.231 592

10.10.13.233 284

10.10.13.237 72

10.10.13.238 615

10.10.13.24 990

10.10.13.240 650

10.10.13.242 267

10.10.13.243 4

10.10.13.244 11

10.10.13.245 293

10.10.13.246 1

10.10.13.247 831

10.10.13.248 294

10.10.13.250 11

10.10.13.252 335

10.10.13.254 660

10.10.13.26 1237

10.10.13.27 95

10.10.13.29 1

10.10.13.3 17

10.10.13.30 1644

10.10.13.31 1118

10.10.13.32 200

10.10.13.33 8

10.10.13.36 1173

10.10.13.37 1380

10.10.13.38 343

10.10.13.39 96

10.10.13.4 271

10.10.13.41 575

10.10.13.42 909

10.10.13.44 302

10.10.13.45 97

10.10.13.47 6

10.10.13.49 212

10.10.13.5 203

10.10.13.51 31

10.10.13.53 185

10.10.13.54 1465

10.10.13.55 596

10.10.13.56 1376

10.10.13.57 19

10.10.13.59 20

10.10.13.61 4

10.10.13.62 75

10.10.13.63 932

10.10.13.64 289

10.10.13.65 308

10.10.13.66 88

10.10.13.67 1267

10.10.13.68 529

10.10.13.69 678

10.10.13.7 1175

10.10.13.71 537

10.10.13.74 1

10.10.13.77 125

10.10.13.78 296

10.10.13.79 29

10.10.13.8 45

10.10.13.81 412

10.10.13.82 728

10.10.13.83 547

10.10.13.84 915

10.10.13.85 1585

10.10.13.86 1089

10.10.13.87 1401

10.10.13.88 522

10.10.13.89 16

10.10.13.9 1496

10.10.13.90 45

10.10.13.91 308

10.10.13.94 26

10.10.13.95 290

10.10.13.96 133

10.10.13.97 79

10.10.13.98 470

10.10.13.99 1838

10.10.14.102 6

10.10.14.103 44

10.10.14.104 19

10.10.14.105 579

10.10.14.107 4380

10.10.14.108 330

10.10.14.111 267

10.10.14.112 17

10.10.14.113 270

10.10.14.115 646

10.10.14.116 381

10.10.14.118 348

10.10.14.119 15

10.10.14.120 273

10.10.14.121 569

10.10.14.122 15

10.10.14.123 1005

10.10.14.124 49

10.10.14.126 410

10.10.14.128 5738

10.10.14.132 40

10.10.14.134 5140

10.10.14.135 360

10.10.14.138 676

10.10.14.139 78

10.10.14.14 224

10.10.14.140 1415

10.10.14.144 28

10.10.14.145 757

10.10.14.146 397

10.10.14.149 203

10.10.14.150 781

10.10.14.151 166

10.10.14.152 149

10.10.14.154 475

10.10.14.156 8

10.10.14.157 106

10.10.14.159 10

10.10.14.160 326

10.10.14.167 155

10.10.14.168 2146

10.10.14.169 234

10.10.14.17 331

10.10.14.172 52

10.10.14.173 332

10.10.14.177 1481

10.10.14.178 301

10.10.14.179 25

10.10.14.180 33

10.10.14.182 118

10.10.14.183 699

10.10.14.184 142

10.10.14.185 31

10.10.14.186 210

10.10.14.187 86

10.10.14.191 221

10.10.14.192 34

10.10.14.193 996

10.10.14.195 69

10.10.14.196 537

10.10.14.197 136

10.10.14.2 1

10.10.14.20 190

10.10.14.201 592

10.10.14.202 36

10.10.14.207 6

10.10.14.209 417

10.10.14.21 4180

10.10.14.215 414

10.10.14.217 47

10.10.14.220 401

10.10.14.223 4

10.10.14.224 60

10.10.14.225 463

10.10.14.226 324

10.10.14.227 1618

10.10.14.228 393

10.10.14.229 224

10.10.14.23 3

10.10.14.230 53

10.10.14.231 499

10.10.14.234 8

10.10.14.236 659

10.10.14.237 1551

10.10.14.239 149

10.10.14.243 1218

10.10.14.244 4

10.10.14.246 202

10.10.14.247 38

10.10.14.248 799

10.10.14.249 172

10.10.14.251 315

10.10.14.3 153

10.10.14.31 100

10.10.14.32 98

10.10.14.34 1678

10.10.14.36 19

10.10.14.37 275

10.10.14.38 32

10.10.14.39 4010

10.10.14.4 85

10.10.14.40 2

10.10.14.41 87

10.10.14.42 986

10.10.14.43 153

10.10.14.49 97

10.10.14.50 649

10.10.14.54 67

10.10.14.56 1043

10.10.14.57 382

10.10.14.59 583

10.10.14.6 49

10.10.14.60 5

10.10.14.62 41

10.10.14.63 70

10.10.14.65 42

10.10.14.68 209

10.10.14.70 1233

10.10.14.71 425

10.10.14.72 10

10.10.14.73 787

10.10.14.74 142

10.10.14.75 5190

10.10.14.77 170

10.10.14.78 9

10.10.14.80 256

10.10.14.81 2592

10.10.14.82 28

10.10.14.84 538

10.10.14.85 127

10.10.14.88 235

10.10.14.89 94

10.10.14.92 253

10.10.14.94 15

10.10.14.95 618

10.10.14.98 561

10.10.14.99 83

10.10.15.0 1290

10.10.15.100 146

10.10.15.101 80

10.10.15.102 11

10.10.15.103 25

10.10.15.105 2

10.10.15.108 572

10.10.15.109 215

10.10.15.111 376

10.10.15.113 12

10.10.15.116 24

10.10.15.117 2

10.10.15.119 2

10.10.15.12 67

10.10.15.121 80

10.10.15.122 65

10.10.15.124 433

10.10.15.125 3846

10.10.15.127 122

10.10.15.129 1269

10.10.15.13 45

10.10.15.130 19

10.10.15.131 514

10.10.15.133 124

10.10.15.134 29

10.10.15.135 535

10.10.15.137 66

10.10.15.138 182

10.10.15.139 14

10.10.15.14 165

10.10.15.141 58

10.10.15.142 4

10.10.15.143 196

10.10.15.145 2116

10.10.15.147 69

10.10.15.153 1034

10.10.15.154 491

10.10.15.157 683

10.10.15.158 96

10.10.15.16 728

10.10.15.160 21

10.10.15.164 538

10.10.15.165 45

10.10.15.17 699

10.10.15.170 559

10.10.15.172 27

10.10.15.173 44

10.10.15.175 353

10.10.15.177 124

10.10.15.193 441

10.10.15.194 426

10.10.15.20 187

10.10.15.204 24467

10.10.15.215 725

10.10.15.24 190

10.10.15.25 151

10.10.15.31 129

10.10.15.32 417

10.10.15.38 597

10.10.15.43 46

10.10.15.44 159

10.10.15.46 88

10.10.15.47 116

10.10.15.48 169

10.10.15.49 120

10.10.15.51 90

10.10.15.53 356

10.10.15.54 38

10.10.15.57 27

10.10.15.58 631

10.10.15.6 140

10.10.15.62 2

10.10.15.66 681

10.10.15.69 4445

10.10.15.70 214

10.10.15.72 118

10.10.15.73 31

10.10.15.74 820

10.10.15.75 67

10.10.15.79 300

10.10.15.8 29

10.10.15.80 207

10.10.15.81 74

10.10.15.82 1120

10.10.15.83 378

10.10.15.84 65

10.10.15.85 921

10.10.15.86 430

10.10.15.90 287

10.10.15.92 6

10.10.15.93 8

10.10.15.94 332

10.10.15.96 315

10.10.15.98 2770

10.10.15.99 231