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package it.polito.bigdata.spark.exercise35;

import org.apache.spark.api.java.*;

import java.util.List;

import org.apache.spark.SparkConf;

public class SparkDriver {

	public static void main(String[] args) {

		String inputPath;
		String outputPath;

		inputPath=args[0];
		outputPath=args[1];

		// Create a configuration object and set the name of the application
		SparkConf conf=new SparkConf().setAppName("Spark Exercise #34");

		// Create a Spark Context object
		JavaSparkContext sc = new JavaSparkContext(conf);


		// Read the content of the input file
		JavaRDD<String> readingsRDD = sc.textFile(inputPath);

		// Extract the PM10 values
		// It can be implemented by using the map transformation
		JavaRDD<Double> pm10ValuesRDD = readingsRDD.map(new
ExtractPM10Value());

		// Select the top-1 value
		List<Double> topPM10Values= pm10ValuesRDD.top(1);
		Double topValue=topPM10Values.get(0);

		// Filter the content of readingsRDD
		// Select only the line(s) associated with the topValue
		JavaRDD<String> selectedRecordsRDD=readingsRDD.filter(new
LinesTopPM10Value(topValue));

		// Extract the dates from the selected records
		JavaRDD<String> datesRDD=selectedRecordsRDD.map(new ExtractDate());

		// Remove duplicates, if any
		JavaRDD<String> distinctDatesRDD=datesRDD.distinct();

		// Store the result in the output folder
		distinctDatesRDD.saveAsTextFile(outputPath);

		// Close the Spark context
		sc.close();
	}
}
```