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package it.polito.bigdata.spark.exercise33;

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;

        inputPath=args[0];

        // Create a configuration object and set the name of the application
        SparkConf conf=new SparkConf().setAppName("Spark Exercise #33");

        // 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-3 values
        List<Double> topPM10Value= pm10ValuesRDD.top(3);

        // Print the result on the standard output of the Driver
        // program
        for (Double value: topPM10Value)
        {
            System.out.println(value);
        }

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

```