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package it.polito.bigdata.spark.exercise34;

import org.apache.spark.api.java.function.Function;

// Define a class implementing the Function<String, Boolean> interface
public class LinesTopPM10Value implements Function<String, Boolean> {

    // This attribute of the class is used to store
    // the maximum value to use during the test in the call method
    Double maxValue;

    // This class has a constructor that can be used to
    // set the value of maxValue during the creation of the
    // object instantiating this class
    public LinesTopPM10Value(Double max)
    {
        maxValue=max;
    }

    // Implement the call method
    // The call method receives one reading/one record
    // and returns it only if the value of PM10 value is the maximum value
    public Boolean call(String PM10Reading) {
        Double PM10value;

        // Split the line in fields
        String[] fields=PM10Reading.split(",");

        // fields[2] contains the PM10 value
        PM10value=new Double(fields[2]);

        // If PM10value is equal to the maximum value
        // return true (the line must be selected)
        // Otherwise, return false (the line must be discarded)
        if (PM10value.equals(maxValue))
            return true;
        else
            return false;
    }
}

```