

TransData.java

```
/*
 * Countries of the World App 1.5
 * TransData.java "Transaction Data "
 * Waleed Gudah
 */
import java.io.*;

public class TransData {

    private String name;
    private int id;
    private String countryCode;
    private String continent;
    private int size;
    private int population;
    private float lifeExpectency;
    private String trans;
    private int numOfTransactions;
    private File file;
    private DataInputStream dataInput;
    private TheLog tLog;

    // *****//
    // *****//
    public TransData(int fileNumber, TheLog tLog) {

        this.tLog = tLog;

        tLog.statusFile(openFile(fileNumber));

    }

    // *****//
    // *****//
    public boolean nextRecord() {

        try {

            process(dataInput.readLine());

        }

        catch (Exception e) {

            return false;

        }

        return true;

    }

    // *****//
    // *****//
    public void process(String currentTransaction) {

        if (currentTransaction.isEmpty()) {

            return;

        }

        trans = currentTransaction.substring(0, 2);
```

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currentTransaction = currentTransaction.substring(3);

switch (trans) {
    case "IN":
        tLog.transProcess(insertInIndex(currentTransaction));
        break;
    case "DI":
        tLog.transProcess(deleteByID(currentTransaction));
        break;
    case "DC":
        tLog.transProcess(deleteByCode(currentTransaction));
        break;
    case "SI":
        tLog.transProcess(selectByID(currentTransaction));
        break;
    case "SC":
        tLog.transProcess(selectByCode(currentTransaction));
        break;
}

numOfTransactions++;
}

private String selectByCode(String currentTransaction) {
    countryCode = currentTransaction;
    return (trans + " " + countryCode);
}

// *****
// *****
private String selectByID(String currentTransaction) {
    id = Integer.parseInt(currentTransaction.trim());
    return (trans + " " + id);
}

// *****
// *****
public String deleteByID(String currentTransaction) {
    id = Integer.parseInt(currentTransaction.trim());
    return (trans + " " + id);
}
```

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}

// *****
// *****
public String deleteByCode(String currentTransaction) {

    countryCode = currentTransaction.trim();

    return (trans + " " + countryCode);

}

// *****
// *****
public String insertInIndex(String currentTransaction) {

    return "SORRY, insertCodeInIndex not yet working";

}

// *****
// *****
public String getTrans() {

    return trans;

}

// *****
// *****
public void finishUp() {

    tLog.statusFile(closeFile());

}

// *****
// *****
public String openFile(int fileNumber) {

    file = new File("TransData" + fileNumber + ".txt");

    try {

        dataInput = new DataInputStream(

            new BufferedInputStream(new FileInputStream(file)));

    } catch (Exception e) {

        return "TransData FILE OPEN FAILED";

    }

    return "TransData FILE opened";

}

// *****
// *****
public String closeFile() {

    try {

        dataInput.close();

```

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```
    } catch (Exception e) {

        return "TransData FILE CLOSE FAILED";

    }

    return "TransData FILE closed";

}

// *****//
// *****//
public int getId() {

    return id;

}

// *****//
// *****//
public String getName() {

    return name;

}

// *****//
// *****//
public String getcountryCode() {

    return countryCode;

}

// *****//
// *****//
public int getSize() {

    return size;

}

// *****//
// *****//
public int getPopulation() {

    return population;

}

// *****//
// *****//
public float getLifeExpectency() {

    return lifeExpectency;

}

// *****//
// *****//
public int getNumberOfTransactions() {

    return numOfTransactions;

}

// *****//
```

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```
// *****  
public String getContinent() {  
    return continent;  
}  
}
```