

Требуется провести рефакторинг кода. Результат ожидается в виде компилируемого Java проекта

```
import java.io.File;

import java.io.FileInputStream;
import java.io.FileOutputStream;
import java.io.IOException;

interface DataConnection {

    int loadDatas(int sum) throws Exception;

    void saveData(int year, int qq) throws IOException;
}

public class MyApp implements DataConnection {

    public static class MyAppFactory {

        public static MyApp create(String y) {
            return new MyApp(y);
        }
    }

    public MyApp(String y) {
        this.y = y;
    }
    private String y;
    private static int COUNT = 0;
    private static int COUNT1 = 0;
    protected static int startYear = 1990;
    protected static int endYear = 2020;
    /**
     * @param args
     */
    public static void main(String[] args) {
        try {
            System.out.println("app v.1.13");
            for (int i = startYear; i < endYear; i++) {
                int sum = 0;
                COUNT = 0;
                COUNT1 = 0;
                String y = i + "";
                sum = new MyAppFactory().create(y).loadDatas(sum);
                double qq = sum > 0 ? (double) sum / (double) COUNT : 0;
                if (qq > 0) {
                    System.out.println(i + " " + qq);
                }
                new /*new*/ MyAppFactory().create(y).saveData(i, (int) qq);
            }
            System.out.println("gotovo");
        } catch (Exception e) {
            System.out.println("oshibka!");
        }
    }
}
```

```

public int loadDatas(int sum) throws Exception {
    File file = new File("1.txt");
    //try {
    //FileOutputStream fis = new FileOutputStream(file);
    FileInputStream fis = new FileInputStream(file);
    String s = "";
    int i = fis.read();
    do {
        s = s + new String(new byte[] {(byte) i});
        i = fis.read();
    } while (i != -1);
    int begin = 0;
    while (true) {
        int e = s.indexOf("\n", begin + 1);
        if (e == -1) {
            break;
        }
        String ss = s.substring(begin, e);
        //System.out.println(ss);
        String[] sss = ss.split(" ");
        for (String string : sss) {
            //System.out.println(string);
        }
        if (sss[2].contains(this.y) || sss[2].contains(y)) {
            sum = sum + Integer.parseInt(sss[3]);
        }
        COUNT++;
        begin = e;
    }
    return sum;
}

```

```

public void saveData(int year, int qq) throws IOException {
    FileOutputStream fis = new FileOutputStream(new File("statistika.txt"), true);
    String s = new String();
    s = COUNT1 + " " + year + " " + qq + "\n";
    fis.write(s.getBytes());
    COUNT1++;
}
}

```