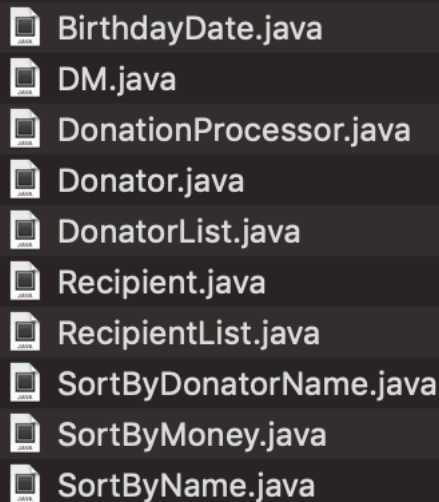


Program Description

Written by Haichen ZHU (hzhu9034, SID:480295103)

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There are 10 classes in my program, and they are:



- BirthdayDate.java
- DM.java
- DonationProcessor.java
- Donator.java
- DonatorList.java
- Recipient.java
- RecipientList.java
- SortByDonatorName.java
- SortByMoney.java
- SortByName.java

This program begins in DM's main function, and it creates an object of DonationProcessor to read two given input files. Each valid record will be saved into an object of Donator or Recipient and then this object was saved in DonatorList's object, or RecipientList's object.

The Donator class can check whether the information of donator is valid, and it can save every donation of this donator in Map, whose key is the name of the recipient, and the value is the amount of money donated.

The Recipient class also can save the total money received from each postcode area, using Map, which the key is postcode, and the value is total money received.

The DonatorList class can update its members, and sort them by names or by total donation.

As the program is reading the instruction file, at the meantime, it creates or open a report file, and save the corresponding answer into it.

After all instructions have been executed, this program will create a result file and save current donator in DonatorList into it.

It can be compiled using

```
akemiashitas-MacBook-puro:hzhu8034 haichenzhu$ javac -d DM19S1 *.java
```

which will create a directory called DM19S1, and all class files are saved in.

Then, navigate to this directory, run this program using

```
akemiashitas-MacBook-puro:hzhu8034 haichenzhu$ cd DM19S1  
akemiashitas-MacBook-puro:DM19S1 haichenzhu$ java DM19S1.DM members1 instruction  
1
```

It should work, thank you!