```
import java.io.*;

////////////////////////////////////////////////////////////////////////
//                                                                    //
//  The following program takes in integers from a source file and then    //
//    seperates the even and odd integers into corrisponding files and     //
//    returns the total number of integers, the number of odd integers,    //
//  the number of even integers, and the sum of the odd and even integers. //
//                                                                    //
//                          WRITTEN BY:                               //
//                                ALAIN DADAIAN                       //
//                                                                    //
////////////////////////////////////////////////////////////////////////

class Splitter
{
   private String inFileName, oddFileName, evenFileName;
   private static int counter = 0, oddCounter = 0, evenCounter = 0;
   private static int totalOdd = 0, totalEven = 0, totalIntegers = 0;

   //-----------------------------------------------------------------
   //  This is the Splitter constructer. It takes in three arguements,
   //  inFileName, oddFileName, and evenFilename all of type String,
   //  and returns nothing. The inFileName is the file to be read as
   //  the source of the integers. The oddFilename and evenFileName
   //  are the files where the odd and even numbers are printed to
   //  respectively.
   //-----------------------------------------------------------------
   public Splitter (String inFileName, String oddFileName, String evenFileName)
   {
      this.inFileName = inFileName;
      this.oddFileName = oddFileName;
      this.evenFileName = evenFileName;
   }

   //-----------------------------------------------------------------
   //  The read method reads the integers from a file and sorts out
   //  the even integers from the odd integers and puts them into
   //  their corrisponding files. It also counts the number of
   //  integers, odd integers, and even integers from a file. Lastly
   //  it also adds together the odd integers and stores the value in
   //  totalodd and adds together the even integers and stores the
   //  value in totaleven.
   //-----------------------------------------------------------------
   public void read () throws Exception
   {
      String line;
      int num;

      PrintStream oddPs = new PrintStream(
                           new FileOutputStream(
                               new File(oddFileName)));

      PrintStream evenPs = new PrintStream(
                            new FileOutputStream(
                                new File(evenFileName)));

      BufferedReader br = new BufferedReader(
                             new InputStreamReader(
                                 new FileInputStream(
                                     new File(inFileName))));
     int i = 1;
      line = br.readLine();

      while (line != null)
      {
         if (line.equals(""))
         {
            line = br.readLine();
         }
         else
         {
            num = Integer.parseInt(line);

            if (Math.abs(num) % 2 == 0)
            {
               evenPs.println(line);
               evenCounter++;
               totalEven += num;
```

```
            }
            else
            {
               oddPs.println(line);
               oddCounter++;
               totalOdd += num;
            }

            totalIntegers++;

            line = br.readLine();
         }
      }
   }

   //-----------------------------------------------------------------
   //  Returns the total number of integers read from a file.
   //-----------------------------------------------------------------
   public static int getNIntegers()
   {
      return totalIntegers;
   }

   //-----------------------------------------------------------------
   //  Returns the number of odd integers read from a file.
   //-----------------------------------------------------------------
   public static int getNOddIntegers()
   {
      return oddCounter;
   }

   //-----------------------------------------------------------------
   //  Returns the number of odd integers read from a file.
   //-----------------------------------------------------------------
   public static int getNEvenIntegers()
   {
      return evenCounter;
   }

   //-----------------------------------------------------------------
   //  Returns the total sum of all odd integers read from a file.
   //-----------------------------------------------------------------
   public static int getTotalOddIntegers()
   {
      return totalOdd;
   }

   //-----------------------------------------------------------------
   //  Returns the total sum of all even integers read from a file.
   //-----------------------------------------------------------------
   public static int getTotalEvenIntegers()
   {
      return totalEven;
   }

   //-----------------------------------------------------------------

} // end of class Splitter

////////////////////////////////////////////////////////////////////////////

class Hw03
{
   public static void main(String[] args) throws Exception
   {
      String inFileName, oddFileName, evenFileName;

      BufferedReader br2 = new BufferedReader(new InputStreamReader(System.in));

      System.out.println("Written by Alain Dadaian");

      System.out.print("Input File? ");
      inFileName = br2.readLine();

      System.out.print("File for odd integers? ");
      oddFileName = br2.readLine();

      System.out.print("File for even integers? ");
      evenFileName = br2.readLine();
```

```
      Splitter s = new Splitter(inFileName, oddFileName, evenFileName);
      s.read();

      System.out.println("Number of integers processed: " + Splitter.getNIntegers());
      System.out.println("Number of odd integers: " + Splitter.getNOddIntegers());
      System.out.println("Number of even intgers: " + Splitter.getNEvenIntegers());
      System.out.println("Total of odd integers: " + Splitter.getTotalOddIntegers());
      System.out.println("Total of even integers: " + Splitter.getTotalEvenIntegers());

   }
} // end of class Hw03

////////////////////////////////////////////////////////////////////////////
```