**package** printstream\_scanner;

**import** java.io.FileInputStream;

**import** java.io.FileNotFoundException;

**import** java.io.FileOutputStream;

**import** java.io.PrintStream;

**import** java.util.InputMismatchException;

**import** java.util.Scanner;

**public** **class** Printstream\_Scanner\_Mixed\_Data\_Examples {

**void** readMixedData(Scanner scanner, PrintStream printStream)

{

**while** (scanner.hasNext())

{

String name = scanner.next();

**int** homeRuns = scanner.nextInt();

**double** battingAverage = scanner.nextDouble();

printStream.printf("%s has %d home runs and has a %.3f batting average%n",

name, homeRuns, battingAverage);

}

}

**void** readMixedData2(Scanner scanner, PrintStream printStream)

{

**while** (scanner.hasNext())

{

**try**

{

String name = scanner.next();

**int** homeRuns = scanner.nextInt();

**double** battingAverage = scanner.nextDouble();

printStream.printf("%s has %d home runs and has a %.3f batting average%n",

name, homeRuns, battingAverage);

}

**catch** (InputMismatchException e)

{

System.***out***.println("Skipping line: "+e);

scanner.nextLine(); // skip the remainder of the line

}

}

}

**void** readMixedData3(Scanner scanner, PrintStream printStream)

{

**while** (scanner.hasNext())

{

String name = scanner.next();

**int** homeRuns = -1;

**if** (scanner.hasNextInt())

homeRuns = scanner.nextInt();

**else**

{

// Note the following skips the bad input

System.***out***.println("Bad home run input: "+ scanner.next() + " defaulting to -1");

}

**double** battingAverage = -1;

**if** (scanner.hasNextDouble())

battingAverage = scanner.nextDouble();

**else**

{

// Note the following skips the bad input

System.***out***.println("Bad batting average: "+ scanner.next() + " defaulting to -1");

}

printStream.printf("%s has %d home runs and has a %.3f batting average%n", name, homeRuns, battingAverage);

}

}

**void** readMixedData4(Scanner scanner, PrintStream printStream)

{

**while** (scanner.hasNext())

{

String name = scanner.nextLine();

**int** homeRuns = -1;

**if** (scanner.hasNextInt())

homeRuns = scanner.nextInt();

**else**

{

// Note the following skips the bad input

System.***out***.println("Bad home run input: "+ scanner.next() + " defaulting to -1");

}

**double** battingAverage = -1;

**if** (scanner.hasNextDouble())

battingAverage = scanner.nextDouble();

**else**

{

// Note the following skips the bad input

System.***out***.println("Bad batting average: "+ scanner.next() + " defaulting to -1");

}

printStream.printf("%s has %d home runs and has a %.3f batting average%n", name, homeRuns, battingAverage);

**if** (scanner.hasNextLine())

scanner.nextLine();// need to go to the next line

}

}

**void** process(String inputFileName, String outputFileName)

{

Scanner scanner=**null**;

PrintStream printStream=**null**;

**try**

{

FileInputStream fi = **new** FileInputStream(inputFileName);

scanner = **new** Scanner(fi);

FileOutputStream fo = **new** FileOutputStream(outputFileName);

printStream = **new** PrintStream(fo);

readMixedData(scanner, printStream);

}

**catch** (FileNotFoundException e)

{

System.***out***.println("error: "+e);

}

**finally**

{

**if** (scanner != **null**)

scanner.close();

**if** (printStream != **null**)

printStream.close();

}

}

**public** **static** **void** main(String[] args) {

Printstream\_Scanner\_Mixed\_Data\_Examples psme = **new** Printstream\_Scanner\_Mixed\_Data\_Examples();

psme.process(args[0], args[1]);

}

}