**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** CopyIntegers {

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

{

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

{

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

printStream.println(x);

}

}

**void** copyInts2(Scanner scanner, PrintStream printStream)

{

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

{

**try**

{

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

printStream.println(x);

}

**catch** (InputMismatchException e)

{

// Note the following skips over the bad input

System.***out***.println(e+ " bad integer: "+ scanner.next());

}

}

}

**void** copyInts3(Scanner scanner, PrintStream printStream)

{

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

{

**int** x = -1;

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

{

x = scanner.nextInt();

printStream.println(x);

}

**else**

{

// Note the following skips over the bad input

System.***out***.println(" bad integer: "+ scanner.next());

}

}

}

**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);

copyInts(scanner, printStream);

// copyInts2(scanner, printStream);

// copyInts3(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) {

CopyIntegers ci = **new** CopyIntegers();

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

}

}