CSC 360 Assignment # 1
Total points: 2 x 20 = 40

Problem 1 (*InputMismatchException*):
This problem is based on Programming Exercise 12.2. Review Listing 12.5 – InputMismatchExceptionDemo.java. Write a program that prompts the user to read in two integers and then displays their sum. Give a separate prompt for each integer. Your program should prompt the user to enter a number until the number's format is correct. Here is a sample run indicating how your program should behave:

```
Enter first integer: hi
Try again. (Incorrect input: an integer is required) Enter
first integer: six
Try again. (Incorrect input: an integer is required) Enter
first integer: 6
Enter second integer: five
Try again. (Incorrect input: an integer is required) Enter
second integer: 5
The sum is 11
```

Problem 2 (*Process values in a text file*):
This problem is based on Programming Exercise 12.14. Write a program that prompts the user for the name of a text file. The file should consist of a sequence of integers, one integer per line. The program will read in each line (using nextLine()), parse it as an int (using Integer.parseInt()), and report the number of values and their average. The average should be computed as a double. Your program should do some basic exception handling:

(1) If the file cannot be found then the program to print a message to that effect and terminate by executing System.exit(1).
(2) If the file can be found then every time that the program reads in a line that cannot be parsed (i.e. Integer.parseInt() throws a NumberFormatException) the program should print an error message with the bad line.

The final printout should display the number of good (i.e. parsable) lines, the average of the parsable values as a double, and the number of bad (unparsable) lines. Two sample runs are shown below:

```
Enter name of input file: numbers.txt Cannot parse eight
as an integer.
Cannot parse seven as an integer.
Cannot parse eighty-five thousand and sixty-two as an integer. Cannot parse 13 98 as
an integer.
Number of parsable lines: 6 Average value:
80.83333333333333 Number of unparsable lines: 4

Enter name of input file: Nums.txt
Could not find file: Nums.txt
```

The values in numbers.txt were as follows:

```
5
15
312
16
eight seven 44
eighty-five thousand and sixty-two 13 98
93
```