package helpers;  
  
import java.util.Scanner;  
import java.io.\*;

*\* InputReader reads typed text input from the standard text terminal.  
 \* The text typed by a user is returned.  
 \*  
 \** ***@author*** *Michael Kölling and David J. Barnes  
 \** ***@version*** *0.1 (2016.02.29)  
 \*  
 \* Modified by Derek Peacock 13/12/2020  
 \* Modified by Nick Day 28/09/2022 - drawing from Charatan and Kans' EasyIn class  
 \*/*public class InputReader  
{  
 private static Scanner *reader* = new Scanner(System.*in*);  
  
 // for the solution provided by Charatan and Kans  
 static String *s* = new String();  
 static byte[] *b* = new byte[512];  
 static int *bytesRead* = 0;  
  
 */\*\*  
 \* Read a line of text from standard input (the text terminal),  
 \* and return it as a String.  
 \*  
 \** ***@return*** *A String typed by the user.  
 \*/* public static String getString(String prompt)  
 {  
 String inputLine = null;  
 boolean isValid = false;  
  
 while(!isValid)  
 {  
 System.*out*.print(prompt); // print prompt  
 inputLine = *reader*.nextLine();  
  
 if(!inputLine.isEmpty())  
 isValid = true;  
 else  
 System.*out*.println("\nYour input is empty!\n");  
 }  
  
 return inputLine;  
 }  
  
 */\*\*  
 \* Read a the next int from standard imput (the text terminal),  
 \* and return it as an interger.  
 \*  
 \* Solution template provided by Charatan and Kans - modified by N Day September 2022  
 \*  
 \** ***@return*** *Integer typed by user.  
 \*/* public static int getInt(String prompt)  
 {  
 int number = 0;  
 boolean isValid = false;  
  
 while(!isValid)  
 {  
 System.*out*.print(prompt); // print prompt  
  
 try  
 {  
 //trim the input to remove extraneous characters  
 *bytesRead* = System.*in*.read(*b*);  
 *s* = new String(*b*,0,*bytesRead*-1);  
 number = Integer.*parseInt*(*s*.trim());  
 isValid = true;  
 }  
 catch(NumberFormatException e)  
 {  
 System.*out*.println("That is not a valid integer number!");  
 }  
 catch(IOException e)  
 {  
 System.*out*.println(e.getMessage());  
 }  
 }  
 return number;  
 }  
  
 */\*\*  
 \* Read a the next int from standard imput (the text terminal),  
 \* and return it as an interger.  
 \*  
 \* Solution template provided by Charatan and Kans - modified by N Day September 2022  
 \*  
 \** ***@return*** *Integer typed by user.  
 \*/* public static double getDouble(String prompt)  
 {  
 double number = 0;  
 boolean isValid = false;  
  
 while(!isValid)  
 {  
 System.*out*.print(prompt); // print prompt  
  
 try  
 {  
 //trim the input to remove extraneous characters  
 *bytesRead* = System.*in*.read(*b*);  
 *s* = new String(*b*,0,*bytesRead*-1);  
 number = (Double.*valueOf*(*s*.trim())).doubleValue();  
 isValid = true;  
 }  
 catch(NumberFormatException e)  
 {  
 System.*out*.println("That is not a valid double number!");  
 }  
 catch(IOException e)  
 {  
 System.*out*.println(e.getMessage());  
 }  
 }  
 return number;  
 }  
  
}