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/*****
 *
 * File:          IntegerTextField.java
 *
 * Author:        Dan Gerstl
 *
 * Date:          05/19/2018
 *
 * Purpose:       Project 02
 *
 * Description:    Custome JTextField to handle integers.
 *
 * Comment:       NA
 *
 *****/

import javax.swing.*;

public class IntegerTextField extends JTextField
{
    /*** Class Variables ***/

    private int minimum = Integer.MIN_VALUE;
    private int maximum = Integer.MAX_VALUE;

    /*** Constructors ***/

    public IntegerTextField(int size)
    {
        super(size);
    }

    public IntegerTextField(int size, int minimum, int maximum)
    {
        super(size);

        setMinimum(minimum);
        setMaximum(maximum);
    }

    /*** Mutator Methods ***/

    public void setMinimum(int minimum)
    {
        this.minimum = minimum;
    }

    public void setMaximum(int maximum)
    {
        this.maximum = maximum;
    }

    /*** Accessor Methods ***/

    public int getInteger() throws IntegerUserInputException
    {
        /*** Local Variables ***/

        int intNumber = 0;

        /*** Extract User Input ***/

        try
        {

```

```
        intNumber = Integer.parseInt(getText().trim());

        if (intNumber < minimum || intNumber > maximum)
        {
            throw new IntegerUserInputException(minimum, maximum);
        }

    catch (NumberFormatException e)
    {
        throw new IntegerUserInputException("Not an integer - " +
                                             e.getMessage());
    }

    return intNumber;
}
}
```