

UNIVERSIDAD DE LAS FUERZAS ARMADAS ESPE



Object-oriented programming

NRC: 9642

Grupo 1

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Topic: Exception Inspection

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Evidence:

```
xd
Ingrese las medidas del vestido: XD
Ingrese el precio del vestido: Cinco
Ingrese solamente valores numéricos
Ingrese el número nuevamente: -1
Ingrese la cantidad de vestidos: @
Ingrese solamente valores enteros
Ingrese el número nuevamente: -3
BethsabéBoutique
```

```
VESTIDO #5
Nombre: ~~~~~
Marca: xd
Medidas: XD
Cantidad: -3
```

There is no validation of negative quantities.

```
VESTIDO #4
Nombre: 1
Marca: null
Medidas: 11
Cantidad: 0
..
```

There is no validation of 0 quantity.

```
VENTAS
-----
1. Añadir vestido al carrito de compras
2. Eliminar vestido del carrito de compras
3. Ver el carrito de compras
0. Salir
3
VESTIDOS EN EL CARRITO:
(1) ~~~~~'--->3    $-1.0
Total sin impuestos: -1.0
Impuestos: -0.12
Total agregado impuestos: -1.12
```

There is no validation of negative prices.

```
Ingrese nombre del cliente: 123456
```

There is no validation of no numeric people names.

```
Ingrese cedula cliente: LLLLLLOSDASDAS
```

There is no validation of non alphabetic character in people's id.

```
Ingrese el número nuevamente: Infinity
Ingrese la cantidad de vestidos: 3
Exception in thread "main" java.lang.IllegalArgumentException: Infinity is not a valid double value as per JSON specification
    at com.google.gson.Gson.checkValidFloatingPoint(Gson.java:448)
    at com.google.gson.Gson$2.write(Gson.java:437)
    at com.google.gson.Gson$2.write(Gson.java:423)
    at com.google.gson.internal.bind.TypeAdapterRuntimeTypeWrapper.write(TypeAdapterRuntimeTypeWrapper.java:70)
    at com.google.gson.internal.bind.ReflectiveTypeAdapterFactory$1.write(ReflectiveTypeAdapterFactory.java:196)
    at com.google.gson.internal.bind.ReflectiveTypeAdapterFactory$Adapter.write(ReflectiveTypeAdapterFactory.java:368)
    at com.google.gson.internal.bind.ObjectTypeAdapter.write(ObjectTypeAdapter.java:183)
    at com.google.gson.internal.bind.TypeAdapterRuntimeTypeWrapper.write(TypeAdapterRuntimeTypeWrapper.java:70)
    at com.google.gson.internal.bind.CollectionTypeAdapterFactory$Adapter.write(CollectionTypeAdapterFactory.java:97)
    at com.google.gson.internal.bind.CollectionTypeAdapterFactory$Adapter.write(CollectionTypeAdapterFactory.java:61)
    at com.google.gson.Gson.toJson(Gson.java:842)
    at com.google.gson.Gson.toJson(Gson.java:812)
    at com.google.gson.Gson.toJson(Gson.java:759)
    at com.google.gson.Gson.toJson(Gson.java:736)
    at ec.edu.espe.BethsabeBoutique.model.FileManager.createJson(FileManager.java:37)
    at ec.edu.espe.BethsabeBoutique.model.InventoryManager.addDress(InventoryManager.java:26)
    at ec.edu.espe.BethsabeBoutique.view.BethsabeBoutique.displayMenu(BethsabeBoutique.java:42)
    at ec.edu.espe.BethsabeBoutique.view.Main.main(Main.java:13)
C:\Users\joanc\AppData\Local\NetBeans\Cache\17\executor-snippets\run.xml:111: The following error occurred while executing
C:\Users\joanc\AppData\Local\NetBeans\Cache\17\executor-snippets\run.xml:68: Java returned: 1
BUILD FAILED (total time: 40 seconds)
```

There is no validation of Infinity number in prices.

```
run:
java.io.FileNotFoundException: SavedFiles\Inventory.json (El sistema no puede encontrar la ruta especificada)
    at java.base/java.io.FileInputStream.open0(Native Method)
    at java.base/java.io.FileInputStream.open(FileInputStream.java:219)
    at java.base/java.io.FileInputStream.<init>(FileInputStream.java:158)
    at java.base/java.io.FileInputStream.<init>(FileInputStream.java:112)
    at java.base/java.io.FileReader.<init>(FileReader.java:60)
    at ec.edu.espe.BethsabeBoutique.model.FileManager.loadJson(FileManager.java:60)
    at ec.edu.espe.BethsabeBoutique.model.InventoryManager.<init>(InventoryManager.java:18)
BethsabeBoutique
-----
1. Mostrar vestidos
    at ec.edu.espe.BethsabeBoutique.view.BethsabeBoutique.<init>(BethsabeBoutique.java:15)
    at ec.edu.espe.BethsabeBoutique.view.Main.main(Main.java:12)
2. Agregar vestido
java.io.FileNotFoundException: SavedFiles\Inventory.json (El sistema no puede encontrar la ruta especificada)
    at java.base/java.io.FileInputStream.open0(Native Method)
    at java.base/java.io.FileInputStream.open(FileInputStream.java:219)
    at java.base/java.io.FileInputStream.<init>(FileInputStream.java:158)
    at java.base/java.io.FileInputStream.<init>(FileInputStream.java:112)
    at java.base/java.io.FileReader.<init>(FileReader.java:60)
    at ec.edu.espe.BethsabeBoutique.model.FileManager.loadJson(FileManager.java:60)
    at ec.edu.espe.BethsabeBoutique.model.InventoryManager.<init>(InventoryManager.java:18)
    at ec.edu.espe.BethsabeBoutique.model.SalesManager.<init>(SalesManager.java:12)
    at ec.edu.espe.BethsabeBoutique.model.ShoppingCart.<init>(ShoppingCart.java:16)
3. Editar informacion de un vestido
    at ec.edu.espe.BethsabeBoutique.view.BethsabeBoutique.<init>(BethsabeBoutique.java:17)
    at ec.edu.espe.BethsabeBoutique.view.Main.main(Main.java:12)
4. Eliminar vestido
5. Vender un vestido
```

```

Escoja una opcion: 1
java.io.FileNotFoundException: SavedFiles\Inventory.json (El sistema no puede encontrar la ruta especificada)
    at java.base/java.io.FileInputStream.open0(Native Method)
    at java.base/java.io.FileInputStream.open(FileInputStream.java:219)
    at java.base/java.io.FileInputStream.<init>(FileInputStream.java:158)
Inventario de vestidos:
-----
    at java.base/java.io.FileInputStream.<init>(FileInputStream.java:112)
    at java.base/java.io.FileReader.<init>(FileReader.java:60)
    at ec.edu.espe.BethsabeBoutique.model.FileManager.loadJson(FileManager.java:60)
    at ec.edu.espe.BethsabeBoutique.model.InventoryManager.displayDressList(InventoryManager.java:54)
    at ec.edu.espe.BethsabeBoutique.view.BethsabBoutique.displayMenu(BethsabBoutique.java:41)
    at ec.edu.espe.BethsabeBoutique.view.Main.main(Main.java:13)
    at ec.edu.espe.BethsabeBoutique.view.Main.main(Main.java:13)

Escoja una opcion: 3
java.io.FileNotFoundException: SavedFiles\Inventory.json (El sistema no puede encontrar la ruta especificada)
    at java.base/java.io.FileInputStream.open0(Native Method)
    at java.base/java.io.FileInputStream.open(FileInputStream.java:219)
    at java.base/java.io.FileInputStream.<init>(FileInputStream.java:158)
    at java.base/java.io.FileInputStream.<init>(FileInputStream.java:112)
    at java.base/java.io.FileReader.<init>(FileReader.java:60)
    at ec.edu.espe.BethsabeBoutique.model.FileManager.loadJson(FileManager.java:60)
    at ec.edu.espe.BethsabeBoutique.model.DressManager.searchDress(DressManager.java:41)
    at ec.edu.espe.BethsabeBoutique.model.InventoryManager.editDress(InventoryManager.java:30)
    at ec.edu.espe.BethsabeBoutique.view.BethsabBoutique.displayMenu(BethsabBoutique.java:43)
    at ec.edu.espe.BethsabeBoutique.view.Main.main(Main.java:13)
Ingrese el nombre del vestido:

```

```

Escoja una opcion: 4
java.io.FileNotFoundException: SavedFiles\Inventory.json (El sistema no puede encontrar la ruta especificada)
    at java.base/java.io.FileInputStream.open0(Native Method)
    at java.base/java.io.FileInputStream.open(FileInputStream.java:219)
    at java.base/java.io.FileInputStream.<init>(FileInputStream.java:158)
    at java.base/java.io.FileInputStream.<init>(FileInputStream.java:112)
    at java.base/java.io.FileReader.<init>(FileReader.java:60)
    at ec.edu.espe.BethsabeBoutique.model.FileManager.loadJson(FileManager.java:60)
    at ec.edu.espe.BethsabeBoutique.model.DressManager.searchDress(DressManager.java:41)
    at ec.edu.espe.BethsabeBoutique.model.InventoryManager.deleteDress(InventoryManager.java:42)
    at ec.edu.espe.BethsabeBoutique.view.BethsabBoutique.displayMenu(BethsabBoutique.java:44)
    at ec.edu.espe.BethsabeBoutique.view.Main.main(Main.java:13)

```

```

VENTAS
-----
1. Aadir vestido al carrito de compras
2. Eliminar vestido del carrito de compras
3. Ver el carrito de compras
0. Salir
1
java.io.FileNotFoundException: SavedFiles\Inventory.json (El sistema no puede encontrar la ruta especificada)
    at java.base/java.io.FileInputStream.open0(Native Method)
    at java.base/java.io.FileInputStream.open(FileInputStream.java:219)
    at java.base/java.io.FileInputStream.<init>(FileInputStream.java:158)
    at java.base/java.io.FileInputStream.<init>(FileInputStream.java:112)
    at java.base/java.io.FileReader.<init>(FileReader.java:60)
    at ec.edu.espe.BethsabeBoutique.model.FileManager.loadJson(FileManager.java:60)
    at ec.edu.espe.BethsabeBoutique.model.DressManager.searchDress(DressManager.java:41)
    at ec.edu.espe.BethsabeBoutique.model.ShoppingCart.addToCart(ShoppingCart.java:23)
    at ec.edu.espe.BethsabeBoutique.view.BethsabBoutique.displaySalesMenu(BethsabBoutique.java:66)
    at ec.edu.espe.BethsabeBoutique.view.BethsabBoutique.displayMenu(BethsabBoutique.java:45)
    at ec.edu.espe.BethsabeBoutique.view.Main.main(Main.java:13)
Ingrese el nombre del vestido: |

```

There is no exception for execution without files.

```
Bethsab@Boutique
-----
1. Mostrar vestidos
2. Agregar vestido
3. Editar informacion de un vestido
4. Eliminar vestido
5. Vender un vestido
6. Generar reportes
0. Salir
Escriba una opcion: 6
Ingrese el nombre del reporte:
Inspection without fields
Bethsab@Boutique
-----
1. Mostrar vestidos
```

The screenshot shows an IDE with a Java file named 'BillingSystem.java' and its output. The code defines a 'Bills' class with a 'toJson' method that uses Gson to serialize an object. The output shows a runtime exception: 'com.google.gson.stream.MalformedJsonException: Unexpected value at line 1 column 11 path \$[0].name'. The stack trace points to the 'toJson' method in 'BillingSystem.java' at line 11.

```

1  [{"name": "brand": "By", "size": "T2", "pi
2
3
4  import java.io.FileWriter;
5  import java.io.IOException;
6  import java.time.LocalDate;
7  import java.util.ArrayList;
8
9
10 /**
11
12
13
14
15
16
17
18
19
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21
22
23
24
25
26
27
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29
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31
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86
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100

```

```

run:
Exception in thread "main" com.google.gson.JsonSyntaxException: com.google.gson.stream.MalformedJsonException: Unexpected value at line 1 column 11 path $[0].name
at com.google.gson.Gson.fromJson(Gson.java:1242)
at com.google.gson.Gson.fromJson(Gson.java:1137)
at com.google.gson.Gson.fromJson(Gson.java:1107)
at ec.edu.espe.BethsabeBoutique.model.FileManager.loadJson(FileManager.java:61)
at ec.edu.espe.BethsabeBoutique.model.InventoryManager.<init>(InventoryManager.java:18)
at ec.edu.espe.BethsabeBoutique.view.BethsabeBoutique.<init>(BethsabeBoutique.java:15)
at ec.edu.espe.BethsabeBoutique.view.Main.main(Main.java:12)
Caused by: com.google.gson.stream.MalformedJsonException: Unexpected value at line 1 column 11 path $[0].name
at com.google.gson.stream.JsonReader.syntaxError(JsonReader.java:1659)
at com.google.gson.stream.JsonReader.doPeek(JsonReader.java:573)
at com.google.gson.stream.JsonReader.peek(JsonReader.java:433)
at com.google.gson.internal.bind.TypeAdapters$15.read(TypeAdapters.java:412)
at com.google.gson.internal.bind.TypeAdapters$15.read(TypeAdapters.java:409)
at com.google.gson.internal.bind.ReflectiveTypeAdapterFactory$1.readIntoField(ReflectiveTypeAdapterFactory.java:212)
at com.google.gson.internal.bind.ReflectiveTypeAdapterFactory$1.readField(ReflectiveTypeAdapterFactory.java:222)
at com.google.gson.internal.bind.ReflectiveTypeAdapterFactory$3Adapter.read(ReflectiveTypeAdapterFactory.java:433)
at com.google.gson.internal.bind.ReflectiveTypeAdapterFactory$3Adapter.read(ReflectiveTypeAdapterFactory.java:393)
at com.google.gson.internal.bind.TypeAdapterRuntimeTypeWrapper.read(TypeAdapterRuntimeTypeWrapper.java:40)
at com.google.gson.internal.bind.CollectionTypeAdapterFactory$Adapter.read(CollectionTypeAdapterFactory.java:82)
at com.google.gson.internal.bind.CollectionTypeAdapterFactory$Adapter.read(CollectionTypeAdapterFactory.java:61)
at com.google.gson.Gson.fromJson(Gson.java:1227)
... 6 more
CaUsers\hondaj\Local\NetBeans\Cache\17\executor-snippets\run.xml:111: The following error occurred while executing this line:
CaUsers\hondaj\Local\NetBeans\Cache\17\executor-snippets\run.xml:168: Java returned: 1
BUILD FAILED (total time: 0 seconds)

```

```
Bethsab@Boutique
-----
1. Mostrar vestidos
2. AÑadir vestido
3. Editar informacion de un vestido
4. Eliminar vestido
5. Vender un vestido
6. Generar reportes
0. Salir
Escoja una opcion: 2
Ingrese el nombre del vestido: ValidateNegativeQuantities
Ingrese la marca del vestido: A
Ingrese las medidas del vestido: A
Ingrese el precio del vestido: 3
Ingrese la cantidad de vestidos: 1
Exception in thread "main" java.lang.NullPointerException: Cannot invoke "java.time.LocalDate.toString()" because "localDate" is null
    at ec.edu.espe.BethsabeBoutique.model.FileManager$.write(FileManager.java:29)
    at ec.edu.espe.BethsabeBoutique.model.FileManager$.write(FileManager.java:26)
    at com.google.gson.internal.bind.TypeAdapterRuntimeTypeWrapper.write(TypeAdapterRuntimeTypeWrapper.java:70)
    at com.google.gson.internal.bind.ReflectiveTypeAdapterFactory$.write(ReflectiveTypeAdapterFactory.java:196)
    at com.google.gson.internal.bind.ReflectiveTypeAdapterFactory$Adapter.write(ReflectiveTypeAdapterFactory.java:368)
    at com.google.gson.internal.bind.ObjectTypeAdapter.write(ObjectTypeAdapter.java:183)
    at com.google.gson.internal.bind.TypeAdapterRuntimeTypeWrapper.write(TypeAdapterRuntimeTypeWrapper.java:70)
    at com.google.gson.internal.bind.CollectionTypeAdapterFactory$Adapter.write(CollectionTypeAdapterFactory.java:97)
    at com.google.gson.internal.bind.CollectionTypeAdapterFactory$Adapter.write(CollectionTypeAdapterFactory.java:61)
    at com.google.gson.Gson.toJson(Gson.java:842)
    at com.google.gson.Gson.toJson(Gson.java:812)
    at com.google.gson.Gson.toJson(Gson.java:759)
    at com.google.gson.Gson.toJson(Gson.java:736)
    at ec.edu.espe.BethsabeBoutique.model.FileManager.createJson(FileManager.java:37)
    at ec.edu.espe.BethsabeBoutique.model.InventoryManager.addDress(InventoryManager.java:26)
    at ec.edu.espe.BethsabeBoutique.view.Bethsab@Boutique.displayMenu(Bethsab@Boutique.java:42)
    at ec.edu.espe.BethsabeBoutique.view.Main.main(Main.java:13)
C:\Users\joanc\AppData\Local\NetBeans\Cache\17\executor-snippets\run.xml:111: The following error occurred while executing this line:
C:\Users\joanc\AppData\Local\NetBeans\Cache\17\executor-snippets\run.xml:68: Java returned: 1
BUILD FAILED (total time: 34 seconds)
```

There is no null validation in the Json

```
sbabéBoutique > SavedFiles > {} Inventory.json > ...
{"name":"1","size":"11"}]

BillingSystem.java
Source History
4 import java.io.FileWriter;
import java.io.IOException;

Output - BethsabéBoutique (run)
1. Mostrar vestidos
2. AÑadir vestido
3. Editar informacion de un vestido
4. Eliminar vestido
5. Vender un vestido
6. Generar reportes
0. Salir
Escoja una opcion: 6
Ingrese el nombre del reporte:
Inspection without fields
Bethsab@Boutique
-----
1. Mostrar vestidos
2. AÑadir vestido
3. Editar informacion de un vestido
4. Eliminar vestido
5. Vender un vestido
6. Generar reportes
0. Salir
Escoja una opcion: 5
[]

VENTAS
-----
1. AÑadir vestido al carrito de compras
2. Eliminar vestido del carrito de compras
3. Ver el carrito de compras
0. Salir
1
Ingrese el nombre del vestido: 1
Exception in thread "main" java.lang.NullPointerException: Cannot invoke "String.equalsIgnoreCase(String)" because "string" is null
    at ec.edu.espe.BethsabeBoutique.model.DressManager.searchDress(DressManager.java:47)
    at ec.edu.espe.BethsabeBoutique.model.ShoppingCart.addToCart(ShoppingCart.java:23)
    at ec.edu.espe.BethsabeBoutique.view.Bethsab@Boutique.displaySalesMenu(Bethsab@Boutique.java:66)
    at ec.edu.espe.BethsabeBoutique.view.Bethsab@Boutique.displayMenu(Bethsab@Boutique.java:45)
    at ec.edu.espe.BethsabeBoutique.view.Main.main(Main.java:13)
C:\Users\joanc\AppData\Local\NetBeans\Cache\17\executor-snippets\run.xml:111: The following error occurred while executing this line:
C:\Users\joanc\AppData\Local\NetBeans\Cache\17\executor-snippets\run.xml:68: Java returned: 1
BUILD FAILED (total time: 5 minutes 16 seconds)
```

There is no exception for null fields in the sale.

Vestido #3		
nombre: ;1		
marca: ;null		
medidas: ;11		
cantidad: ;0		
FechaRecepcion: ;null		

There is no null validation in the CSV