# PP Task 5.3 Spot the Mistakes Answer Sheet

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## Some Sequence

**What is the compiler output? (Paste it below.)**

Error: cannot find symbol

symbol: variable K

location: class Spoterrors

**How would you describe the error in your own words?**

Variable K was never declared

**What would you change to correct the error?**

Change K to k

## Another Sequence

**What is the compiler output? (Paste it below.)**

Error: variable b might not have been initialized

**How would you describe the error in your own words?**

Variable b was never initialized. E.g. given a value.

**What would you change to correct the error?**

Change

a = 10;

c = a + b;

b = 25;

to

a = 10;

b = 25;

c = a + b;

## Reversed

|  |  |
| --- | --- |
| **Input used** | **Observed output** |
| hello | olle |

**What feature of the output do you think helps identify the cause of the erroneous behaviour?**

The first letter is missing from my entered text. This means the for loop is ending before 0(e.g the first lettter)

**What would you change to correct it?**

1 >= 0

## Print a List

**What output did you observe?**

There are 5 entries.

call has 4 letters.

this has 4 letters.

a has 1 letters.

book? has 5 letters.

java.lang.ArrayIndexOutOfBoundsException: 5

at Spoterrors.main(Spoterrors.java:12)

at sun.reflect.NativeMethodAccessorImpl.invoke0(Native Method)

at sun.reflect.NativeMethodAccessorImpl.invoke(Unknown Source)

at sun.reflect.DelegatingMethodAccessorImpl.invoke(Unknown Source)

at java.lang.reflect.Method.invoke(Unknown Source)

at edu.rice.cs.drjava.model.compiler.JavacCompiler.runCommand(JavacCompiler.java:259)

**Which parts of the output, including the ugly error message, do you think are most useful?**

ArrayIndexOutOfBoundsException: 5

**What is your interpretation of the error?**

The for loop is trying to use object 5 in an array of 0-4

**What would you change to correct the error?**

i <= document.length change to i < document.length

also, although its runs without crashing after the change, you can also change int i = 1 to int i = 0 to display all 5 entries

## Conditional Café Entry

|  |  |
| --- | --- |
| **Input used** | **Observed output** |
| 28 | Safe number of customers has been exceeded! Ask someone to leave.  Make sure they've paid their bill first! |
| 20 | Safe number of customers has been exceeded! Ask someone to leave.  Make sure they've paid their bill first! |

**What do you think the cause of the erroneous behaviour is?**

if (patrons > CAPACITY);

if you have a ; here it will drop out of the if statement

**What would you change to correct it?**

if (patrons > CAPACITY) { }