```
SET B Debugging
1. public class Counter {
private int count = 0;
public void increment() {
count++;
}
public int getCount() {
return count;
}
}
public class Test {
public static void main(String[] args) {
Counter counter = new Counter();
while (counter.getCount() < 10) {
counter.increment();
}
System.out.println("Counter reached: " + counter.getCount());
}
}
② Issue: Static field not retaining value across instances.
② Solution: Check singleton implementation for proper instance handling.
   private static int count =
public void increment() {
                                                            === Code Execution Successful ===
System.out.println("Counter reached: " * counter.getCount());
2. public class Employee {
private String name;
```

public Employee(String name) {

```
this.name = name;
}

public String getName() {
  return name;
}

public class Test {
  public static void main(String[] args) {
   Employee e = new Employee("John");
   System.out.println(e.name); // Compilation error
}
```

- Issue: Direct access to private field name.
- ② Solution: Use getter method getName() to access private fields.

- 3. Question: Why is the FileNotFoundException not being caught when trying to open a file?
- ② Potential Issue: Make sure the FileInputStream or FileReader is enclosed in a trycatch block.

```
public class FileOpener {
public void openFile(String filePath) {
try {
FileReader fileReader = new FileReader(filePath);
BufferedReader br = new BufferedReader(fileReader);
String line;
```

```
while ((line = br.readLine()) != null) {
System.out.println(line);
}
br.close();
} catch (FileNotFoundException e) {
System.out.println("File not found: " + filePath);
} catch (IOException e) {
e.printStackTrace();
}
}
}
public class TestFileOpener {
public static void main(String[] args) {
FileOpener opener = new FileOpener();
opener.openFile("missingfile.txt");
}
}
   import java.io.*;
                                                                                            File not found: missingfile.txt
   class FileOpener {
      public void openFile(String filePath) {
                                                                                            === Code Execution Successful ===
            FileReader fileReader = new FileReader(filePath);
            BufferedReader br = new BufferedReader(fileReader);
             String line;
while ((line = br.readLine()) != null) {
                System.out.println(line);
         } catch (FileNotFoundException e) {
            System.out.println("File not found: " + filePath);
         } catch (IOException e) {
             e.printStackTrace();
  public class TestFileOpener {
      public static void main(String[] args) {
   FileOpener opener = new FileOpener();
   opener.openFile("missingfile.txt");
```

- 4. Question: Why is my array not printing the correct values?
- 2 Potential Issue: Ensure the array values are set correctly before printing.

```
public class PrintArray {

public static void main(String[] args) {

int[] numbers = new int[3];

numbers[0] = 10;

numbers[1] = 20;

numbers[2] = 30;

for (int num : numbers) {

System.out.println(num);

}
```