

# Inspection Task 2


Imagine you are an expert in taint analysis and you want to evaluate a new Android taint analysis tool **X**. Tool **X** analyzes an Android app called **save\_me.apk** and outputs detected taint flows in the file **show.xml**.

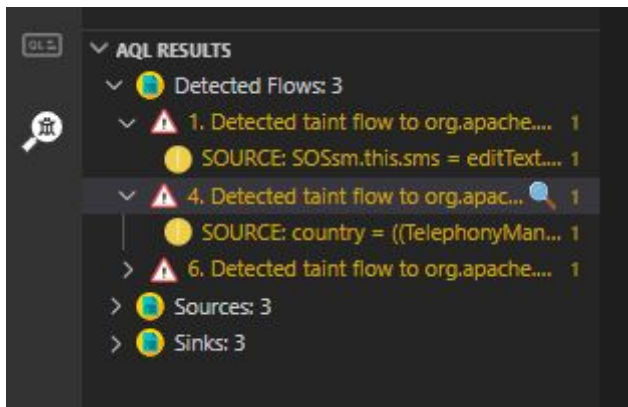
To evaluate the precision of **X**, you have to decide if these 3 taint flows in **show.xml** are true positives or false positives.

You are given a tool **TB-Viewer** which is integrated into Visual Studio Code and can display the taint flows in **show.xml** directly in Visual Studio Code.

## Your Task:

1. Start Visual Studio Code, enable the extension **TB-Viewer** in Visual Studio Code if you have it disabled. Restart Visual Studio Code.
2. In Visual Studio Code, click **File >> Open Workspace >> Select myworkspace.code-workspace** in the folder **save\_me**. This folder contains the decompiled source code project. Java source code is located in the **src** folder.
3. Open any Java source file in this project. This will trigger **TB-Viewer** to display the taint flows in **show.xml**.

4. Click  in the side panel. You should see the 3 taint flows in a tree view as shown below:



Each taint flow starts with a FlowID and is followed by a message which describes the flow with the information from **show.xml** (You may see different FlowIDs than in the screenshot). Hover either “Detected taint flow...” or “SOURCE...” of a flow, a blue magnifying glass will be shown as in the screenshot.

- Clicking on the magnifying glass besides “Detected taint flow...” allows you to navigate directly to the sink
  - Clicking on the magnifying glass besides “SOURCE...” allows you to navigate directly to the source.
5. Inspect these taint flows with the source code in Visual Studio Code.
  6. Document your judgement with Yes or No for each flow in the spreadsheet.  
[https://docs.google.com/spreadsheets/d/1mZu835VaMUZhGMLKIEJJwxVI1vAGhKw\\_MS06lq9jgw/edit?usp=sharing](https://docs.google.com/spreadsheets/d/1mZu835VaMUZhGMLKIEJJwxVI1vAGhKw_MS06lq9jgw/edit?usp=sharing)
  7. **Tell me when you start!**
  8. **Tell me when you finish!**