Declaration of non-plagiarism:

• We declare that all the code submitted in the project is our own work. We have not copied anything from the internet or from other teams. We understand that if any form of plagiarism is found in our submission, we will be disqualified from the course and the exam office will be notified.

Contribution statement:

We read up on the algorithm of Patch encoding together, then agreed on the structure of the project. The implementation has been done while setting together. However, the actual code typing has been divided into tasks in the following way.

- Alaa Khalil: (Matriculation-Nr. 103686): I did the fault localization by using infer. I have made it run through a java process inside the Gradle project. Then, I did parse the output of infer tool (reports in JSON) and store it into the project structure.

- Maximilian Seitz (Matriculation-Nr.: 107291): Application of the fixes by modifying the source code, and producing fixed source code. Preparation of source code for fault localisation (adding annotations).

- Nehal Darwish (Matriculation-Nr.:109480): Dockerizing the tool and automating the process of the whole source code.