

Assignment Project Exam Help

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Checker Framework Tutorial

Introduction

The Checker Framework enhances Java's type system to make it more powerful and useful. This lets software developers detect and prevent errors in their Java programs. The Checker Framework includes compiler plug-ins ("checkers") that find bugs or verify their absence. It also permits software developers to write their own compiler plug-ins.

In this tutorial, you will learn to use the Checker Framework to prevent null pointer exceptions, to prevent SQL Injection attacks, and to improve code quality. In this tutorial, you will learn to use the Checker Framework from the command line. The Checker Framework can also be used with other [tools](#) such as Maven or IntelliJ IDEA, and you could follow the command-line version of the tutorial using one of those tools.

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Using the Checker Framework from the command line

1. [Install the Checker Framework](#) and then return to this page.
As described in the installation instructions, [set the alias javacheck](#) to the Checker Framework compiler.
2. [Download](#) and unzip the source files for the tutorial, then enter the `src` directory: `cd src`
3. [Getting Started](#), a simple example use of the Nullness Checker
4. [Validating User Input](#), an example using the Regex Checker
5. [Finding a Security Error](#), a complex example using the Tainting Checker
6. [Writing an Encryption Checker](#), an example of writing your own type checker

Resources

- [The Checker Framework Manual](#)
- [The Checker Framework homepage](#)
- Feel free to **contact** us! Email checker-framework-dev@googlegroups.com
- A [Nullness Checker tutorial](#), by David Bürgin