COMP207P Report

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1 Introduction

In this report we will outline the thought processes and actions undertaken in order to implement **Simple Folding** and **Constant Variables** peephole optimisations.

2 Notes on File Structure

We decided that `SimpleFolding` should be in a separate file to the provided `ConstantFolding` in order to adhere to the good practice of keeping one public class per `java` file

3 Simple Folding

3.1 Thought Processess and Design Decisions

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3.2 Implementation Notes

Algorithm 1 Simple Folding algorithm

1: Hope = 4
2: **while** Hope > 0 **do**
3:     **if** knowWhatToDo = True **then**
4:         person ← DoesSomething
5:     **else**
6:         Hope ← Hope −1
7:     **end if**
8: **end while**

3.3 Testing and Result

4 Constant Folding

4.1 Thought Processess and Design Decisions

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4.2 Implementation Notes

Algorithm 2 Simple Folding algorithm

1: Hope = 4
2: **while** Hope > 0 **do**
3:    **if** knowWhatToDo = True **then**
4:       person ← DoesSomething
5:    **else**
6:       Hope ← Hope −1
7:    **end if**
8: **end while**

4.3 Testing and Result