

# Problems in Math and Computer Science

Compiled and to be solved by Chad Estioco



# Contents

1	2015.1	5
2	Miscellaneous Problems	7



# Chapter 1

## 2015.1

1. Prove that

$$\exists x \forall y P(x, y) \leftrightarrow \forall y \exists x P(x, y) \quad (1.1)$$



## Chapter 2

# Miscellaneous Problems

(I.e., problems that were compiled before and left unsolved)

1. Let  $J(n)$  be the Josephus Numbers.