

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[CA-KNUTH].

Bibliography

[CA-KNUTH] Knuth, D. *Concrete Mathematics*

[MCS-LEHMAN] Lehman E. *Mathematics for Computer Science*