Introduction to the Pigeonhole Principle

Perryn Chang

July 2, 2020

Abstract

The goal of this handout is to let the reader become familiar with the Pigeonhole Principle, an idea used in all levels of competitive mathematics. However, with that being said, this handout is targeted towards readers who are at the boarderline AIME level.

Contents

1	Introduction	2
2	Basic Examples	2
3	More Difficult Examples	2
4	Problems	2

- 1 Introduction
- 2 Basic Examples
- 3 More Difficult Examples
- 4 Problems