TAOCP 4A Notes

Sanskar Chand

2021

1 Intro

Combinatorics: The art of arranging discrete things.
Five interesting properties:

- Existence

- Enumeration

- Construction

- Generation

- Optimization

1.1 Langford pairs

Given 2n numbers 1 1 2 2 ... n n , arrange them in such a manner that, between
two occurences of k, there are exactly k numbers.