

Junior Knights Contest Course Spring 2024 2/10/2024 – Outline

I. Lecture Part I: Brute Force with Loops

- A. Identifying Sample Space
- B. Setting Up Loops, Counters
- C. Solving the Problem

Lecture Examples: Risk (my version), Set (<https://open.kattis.com/problems/set>)

Black Friday: <https://open.kattis.com/problems/blackfriday>

Heir's Dilemma: <https://open.kattis.com/problems/heirdilemma>

Counting Doubles: <https://open.kattis.com/problems/countdoubles>

Math Homework: <https://open.kattis.com/problems/mathhomework>

II. Break

III. Lecture Part II: Brute Force with Recursion

- A. Odometer
- B. Combinations
- C. Permutations

V. Practice Problems:

Exam Manipulation: <https://open.kattis.com/problems/examanipulation>

Geppetto: <https://open.kattis.com/problems/geppetto>

Dreamer: <https://open.kattis.com/problems/dreamer>

Challenge Problems

Class Picture: <https://open.kattis.com/problems/classpicture>

Dance Recital: <https://open.kattis.com/problems/dancerecital>