Comments on old exams from pre-June 2024.

Earlier versions of this course had almost, but not exactly, the same content. The problems on old exams roughly fall into the following three categories:

A. Relevant to us.

B. Was probably meant to be solved using techniques outside our course, but can also be solved with our techniques. This may make the problem harder.

C. Not relevant to us.

Exam 2024-01-03

A. 1, 2, 3, 4a, 6, 7

B. –

C. 4b, 5

Exam 2023-08-17

A. 1, 3, 4a, 5, 6

B. 4b (Harder without Euler's function. Solvable using Fermat + CRT.)

C. 2, 7

Exam 2023-06-03

A. 1, 2, 3b, 4, 5, 7

B. 6 (Harder without memorizing derangement formula. Solvable with PIE.)

C. 3a

Exam 2022-10-21

A. 1, 2, 3, 4, 5, 7

B. –

C. 6

Exam 2022-08-18

A. 1, 2b, 3, 4, 5, 6, 7

B. –

C. 2a

Exam 2022-06-03

A. 1, 2, 4a, 7

B. 4b (Harder without Euler's function. Solvable with PIE.),
6 (Harder without memorizing derangement formula. Solvable with PIE.)

C. 3, 5

Exam 2021-10-22

A. 1, 2, 3bc, 4, 5, 6, 7

B. –

C. 3a

Exam 2021-08-19

A. 1, 2, 3, 4, 5, 6, 7

B. –

C. –

Exam 2021-06-03

A. 1, 2, 3, 4, 5, 7

B. 6c (This is *easier* without derangements.)

C. 6ab