

## DM528 – Weekly Note 2

### Lectures in week 46

#### Monday, November 14

- We will finish Section 5.5:
  - Permutations with Indistinguishable Objects
  - Distributing Objects into Boxes
- Section 6.1: An Introduction to Discrete Probability
- Section 6.2: Probability Theory

#### Thursday, November 17

- We will finish Section 6.2
- Section 6.3: Bayes's Theorem
- If time permits:  
Section 6.4: Expected Value and Variance

### Exercises for week 46

#### Tuesday, November 15 / Wednesday, November 16

- Section 5.3: Exercises 18, 24, 30, 40
- Section 5.4: Exercises 6, 19, 28
- Section 5.5: Exercises 5, 8, 12, 14, 15, 20, 22

#### Thursday, November 17 / Friday, November 18

- Section 5.5: Exercises 30, 36, 39, 42, 52, 62
- Section 5.6: Exercise 4  
Try finding the algorithm for finding the next permutation before reading Section 5.6.
- Section 6.1: Exercises 4, 6, 10, 16, 18, 22, 28, 36, 41

### The first mandatory assignment

The first mandatory assignment will be published on the course homepage on Tuesday, November 15. The deadline for handing in the assignment is Monday, November 28 at 12:15.

### Course language

Since it turns out that there is an exchange student taking the course, the lectures and the weekly notes will from now on be in English. As announced earlier, the S1 exercise classes will be in English. The S2 exercise classes will still be in Danish.