# Learning to Program with F# Exercises Department of Computer Science University of Copenhagen

Jon Sporring, Martin Elsman, Torben Mogensen, Christina Lioma

October 21, 2022

# 0.1 Weekday

## 0.1.1 Teacher's guide

Emne Sumtyper og lister

Sværhedsgrad Let

### 0.1.2 Introduction

In the following, you are to work with the discriminated union weekday:

```
type weekday =
  Monday | Tuesday | Wednesday | Thursday | Friday | Saturday | Sunday
```

which represents the days of the week.

### 0.1.3 Exercise(s)

- **0.1.3.1:** Make a function dayToNumber: weekday -> int which given a weekday returns an integer, such that Monday is 1, Tuesday is 2, etc.
- **0.1.3.2:** Make a function nextDay: weekday -> weekday which given a day returns the next day, i.e., Tuesday is the next day of Monday, and Monday is the next day of Sunday.
- **0.1.3.3:** Make a function numberToDay : n : int -> weekday option which given an integer in the range 1...7 returns one of the weekdays Monday...Sunday as an option type. An integer not in the range, i.e. < 1 or > 7 should return None.

Examples:

The call numberToDay 1 should return Some Monday and The call numberToDay 42 should return None.