

Essential Computing 1

# Course Introduction

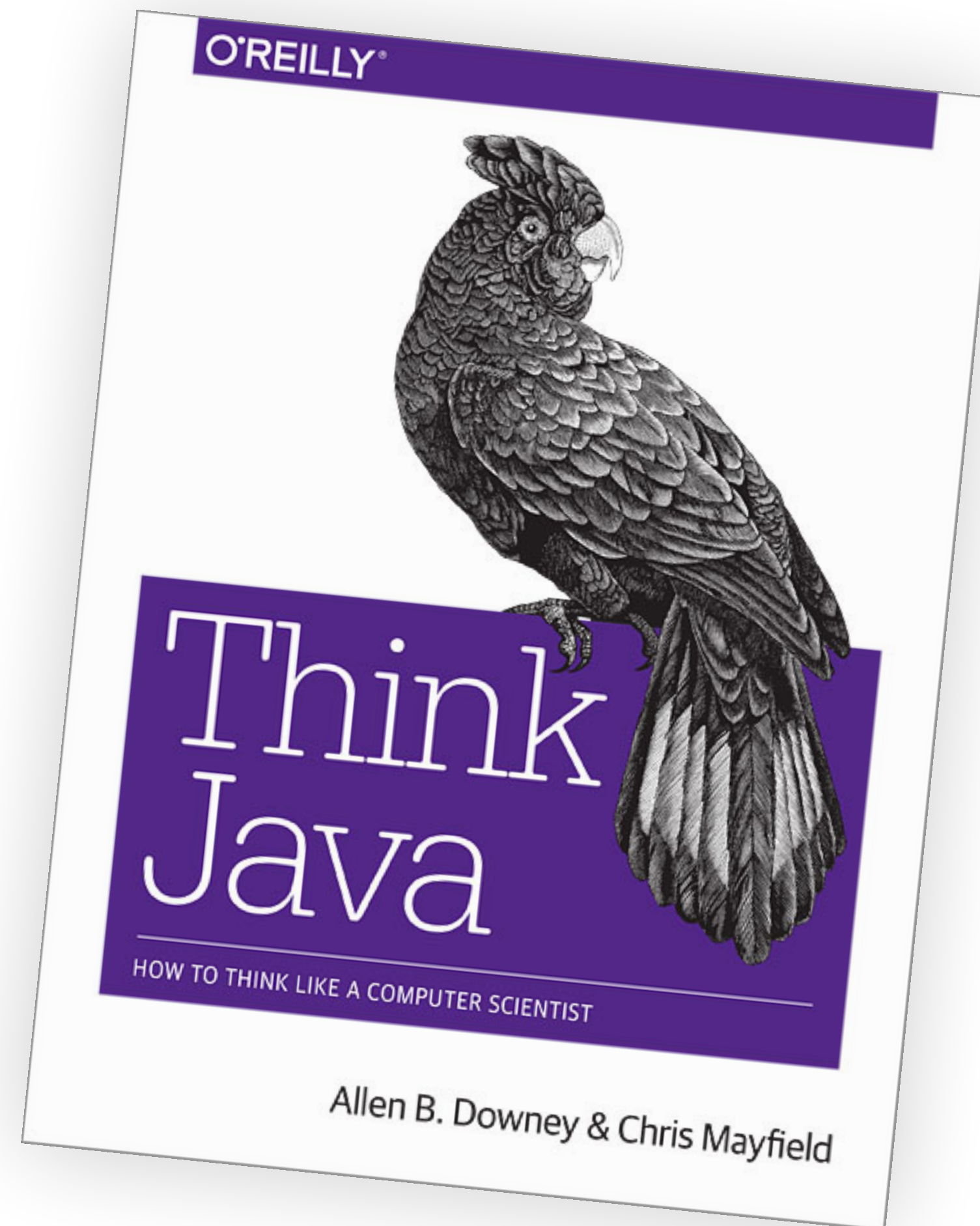
# First encounter?

# Objectives

**Knowledge** Fundamental programming concepts

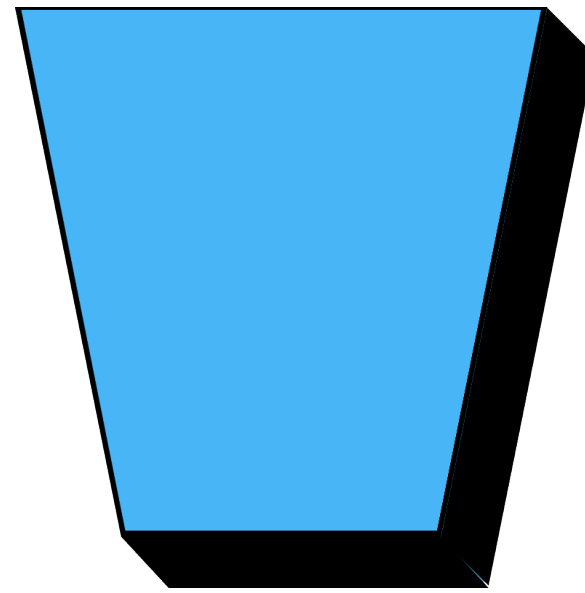
**Skills** Programming and associated tools (Java)

**Competencies** Computational thinking

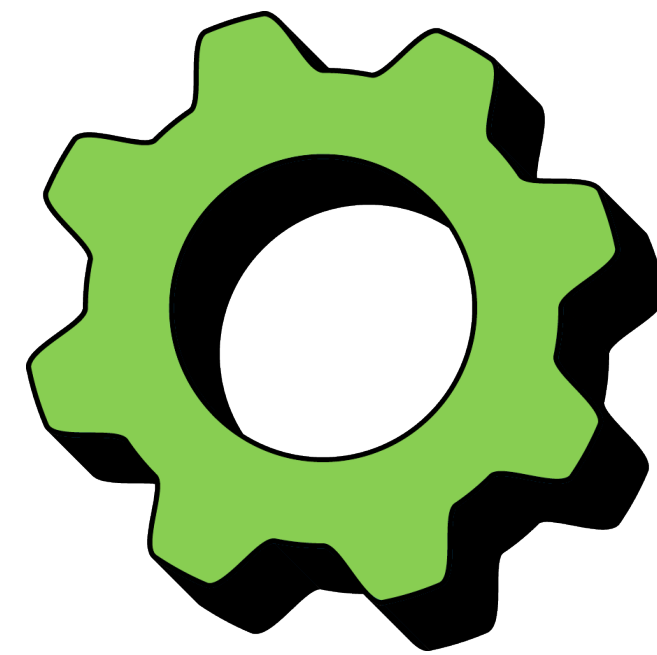


# Content

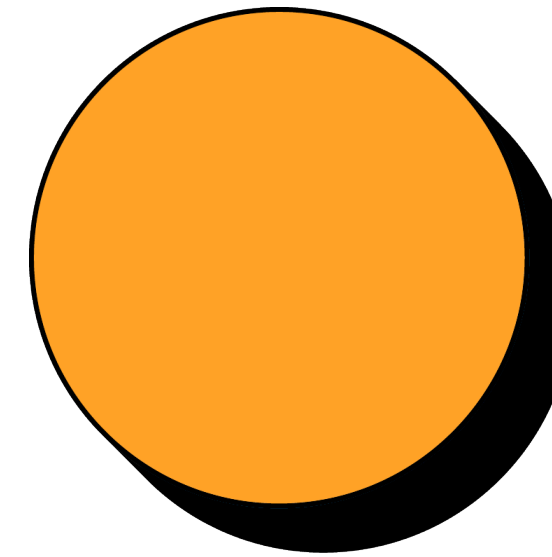
**Lecturing** Mainly repeating the book  
**Micro Assignments** In class, hands-on.  
**Mini Assignments** Homework  
**Mini Project** In class & homework



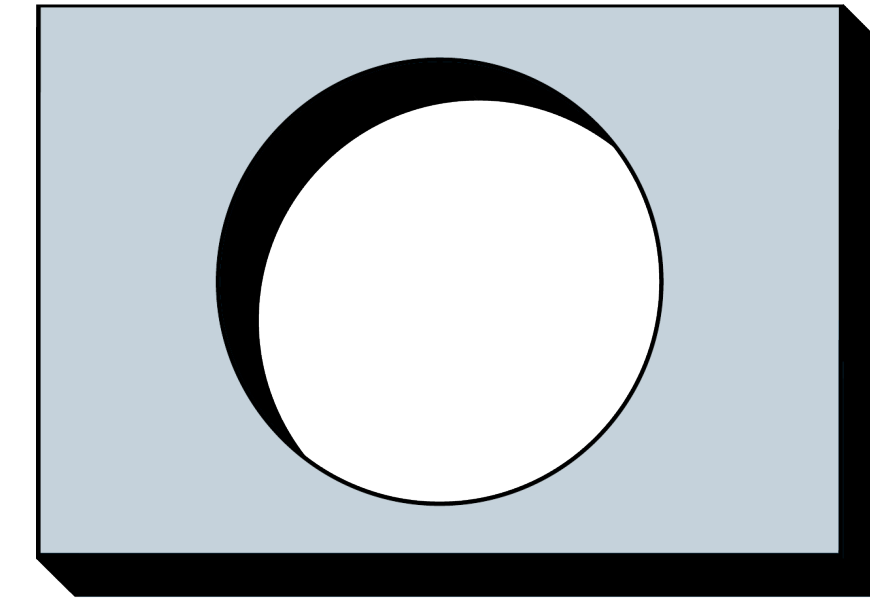
**variable**



**function**



**object**



**class**

# Requirements

**Mini Assignments** Do 50%

**Mini Project** Upload before Nov 21st

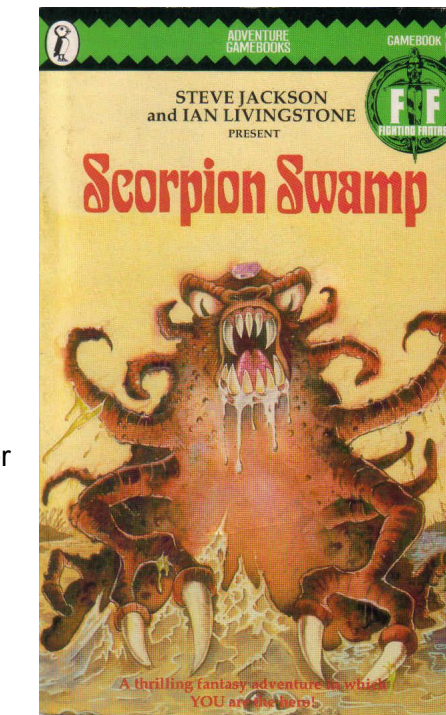
**Oral exam** Prove your knowledge

# Mini Project

## Mini Project: Text-Based Adventure Game

You are to write a program that takes the user on an adventure in a world where (s)he is the protagonist. Your program will produce a non-linear story, similarly to adventure game books popular in the 80s, where the reader is presented with critical choices that lead to different consequences (other pages).

You are free to define a theme for your adventure, be it pirates, sci-fi, D&D, RL at RUC, or something completely different.



### Delivery Requirements

You must hand in your completed project and all source code required to compile and run the application. You are encouraged to hand in brief documentation (maximum of two pages including everything - e.g. illustrations) to explain your code and the ideas behind it.

Your program must run in the terminal and produce an interaction flow like this:

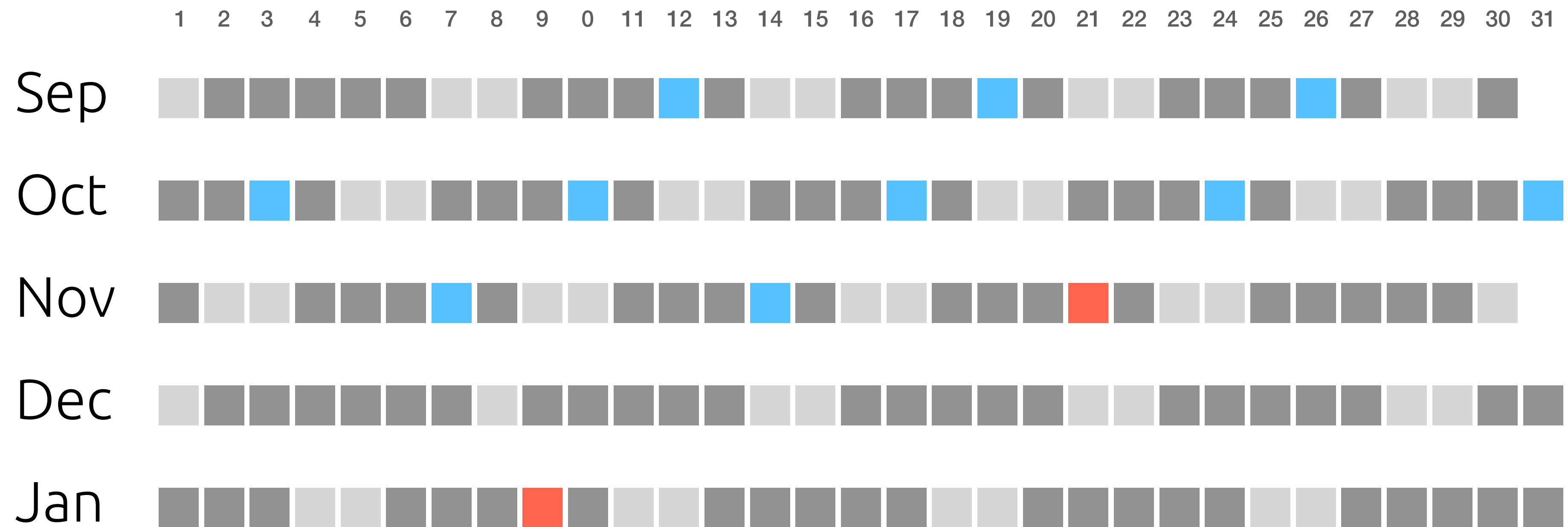
1. The program outputs a text to the user that describes a location/situation and a number of options to react.
2. The user inputs her reaction of choice to the program.
3. The program evaluates the choice and outputs a text to the user with a new location/situation and new choices. Repeat step 2.

Your program must run as a console application and:

- Use classes and objects to contain a location/situation that leads to other locations/situations.
- The user should be able to go through at least 10 different successive locations/situations before reaching a dead end.



# Overview



CLASS

DEADLINE / EXAM

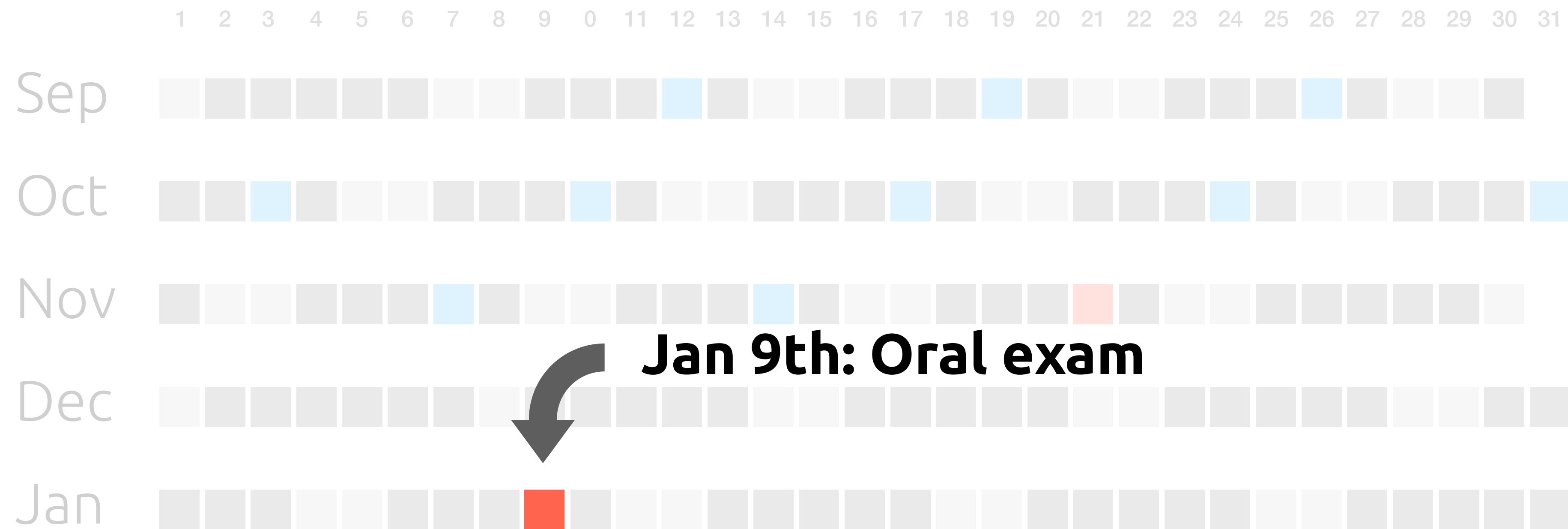
# Overview



**Nov 21st: Mini Project Deadline**

CLASS DEADLINE / EXAM

# Overview



**Jan 9th: Oral exam**

CLASS

DEADLINE / EXAM