21 January 2025

Admin

- HW 1 due tonight 10pm
  - Upload on Canvas
  - If handwritten, use scanning app or scanner in library, computer labs
  - Submission is PDF only
- Quiz Friday
  - Credit for attempts
  - 30 minutes given, aim for 15 mins
  - handwritten / handtyped solutions

Making the Best of It: Efficient Backtracking?

- (Show schedule)
- Recall we started with counting and recurrences to find our resource usage function $T(n)$
  - Counting for imperative code
  - Recurrences for recursive code
- Example: Fibonnaci numbers

$$F_n = \begin{cases} 0 & n = 0 \\ 1 & n = 1 \\ F_{n-1} + F_{n-2} & otherwise \end{cases}$$