# Dynamic programming

Ethan Arnold

March 2016

# 1 Dynamic programming

## 1.1 Introduction

## 1.2 Fibonacci

**Motivating problem**

**Description**

**Constraints**

**Input**

**Output**

**Sample input**

**Sample output**

**Discussion**

**Practice problems**

**Further reading**

## 1.3 Coin change

**Motivating problem**

**Description**

**Constraints**

**Input**

**Output**

**Sample input**

**Sample output**

**Discussion**

**Practice problems**

**Further reading**

## 1.4 Longest increasing subarray

**Motivating problem**

**Description**

**Constraints**

**Input**

**Output**