# TypeScript Algorithms

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In-progress book about algorithms and data structures in TypeScript.

# Chapter 2

# Algorithms and Data Structures

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$$fib_n = fib_{n-2} + fib_{n-1}$$

# Chapter 3

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# Chapter 4

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- Project Euler
- The Algorithm Design Manual
- Elements of Programming Interviews

## 4.2 Contributing

### 4.2.1 Getting Started

#### 4.2.1.1 Run Problem Tests

- Install Node Version Manager
- `yarn setup`
- `yarn test --all`

#### 4.2.1.2 Compile Book

- Install Pandoc (Homebrew)
- Install BasicTeX (Homebrew)

- Install fswatch (Homebrew)
- `make book`
- `open book/output/index.pdf`

### 4.2.2 Commands

| Command | Description |
|---|---|
| `yarn setup` | Setup local development environment |
| `yarn test` | Run tests |
| `yarn gen:leetcode` | Generate new LeetCode problem |
| `yarn gen:project-euler` | Generate new Project Euler problem |
| `make book` | Compile book to various formats |
| `make watch` | Recompile book automatically when source files change |