



# Algorithm

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# Data Structure and Algorithm/leetcode/lintcode

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## Introduction

This work is some notes of learning and practicing data structures and algorithm.

1. Part I is some brief introduction of basic data structures and algorithm, such as, linked lists, stack, queues, trees, sorting and etc.
2. Part II is the analysis and summary of programming problems, and most of the programming problems come from <https://leetcode.com/> and <http://www.lintcode.com/>.
3. Part III is the appendix of resume and other supplements.

This project is hosted on <https://github.com/billryan/algorithm-exercise> and rendered by [Gitbook](#). You can star the repository on the GitHub to keep track of updates. Another choice is to subscribe channel `#github_commit` via Slack [https://ds-algo.slack.com/messages/github\\_commit/](https://ds-algo.slack.com/messages/github_commit/). ~~RSS feed is under development~~

Feel free to access <http://slackin4ds-algo.herokuapp.com> for Slack invite automation.

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If you find any mistakes or want to update/translate the awesome notes, please follow the [contributing guidelines](#). Any comments or suggestions would be greatly appreciated.

## To Do

- [ ] add multiple languages support, currently [繁體中文](#), [简体中文](#) are available
- [ ] explore nice writing style
- [ ] add implementations of `Python`, `C++`, `Java` regarding leetcode/lintcode OJ platform

- [ ] add time and space complexity analysis
  - [ ] summary of basic data structure and algorithm
  - [x] add CSS for online website <http://algorithm.yuanbin.me>, `yahei` plugin works well
  - [x] add proper Chinese fonts for PDF output
- 

## 简介

本文档为数据结构和算法学习笔记，全文大致分为以下三大部分：

1. Part I 为数据结构和算法基础，介绍一些基础的排序/链表/基础算法
2. Part II 为 OJ 上的编程题目实战，按题目的内容分章节编写，主要来源为 <https://leetcode.com/>, <http://www.lintcode.com/>, <http://www.geeksforgeeks.org/>, <http://hihocoder.com/>, <https://www.topcoder.com/>.
3. Part III 为附录部分，包含如何写简历和其他附加材料

本文参考了很多教材和博客，凡参考过的几乎都给出明确链接，如果不小心忘记了，请不要吝惜你的评论和issue :)

你可以在线或者离线查看/搜索本文档，以下方式任选~

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- 离线阅读：推送到GitHub后会触发 travis-ci 的编译，相应的部分编译输出提供 GitHub 和 GitCafe 下载。
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本项目托管在 <https://github.com/billryan/algorith-exercise> 由 Gitbook 渲染生成 HTML 页面。

你可以在 GitHub 中 star 该项目查看更新，也可以订阅 [https://ds-algo.slack.com/messages/github\\_commit/](https://ds-algo.slack.com/messages/github_commit/) 中的 `#github_commit` channel 在邮件中查看更新细节，RSS 种子功能正在开发中。

Slack 的自助邀请注册功能已启用，访问 <http://slackin4ds-algo.herokuapp.com> 即刻开启~

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- [ ] 探索适合用于后期批处理的书写及排版格式

- [ ] 完善 leetcode/lintcode 部分 C++ , Java , Python 三大语言的实现
- [ ] 加入时间/空间复杂度分析
- [ ] Part I 部分数据结构和算法基础知识的总结
- [x] 完善在线版本 <http://algorithm.yuanbin.me> 的 CSS, 使用 yahei 插件初步达到目标
- [x] 完善离线版本如 PDF(适合打印的字型) 的中文支持
- [ ] 完善离线版本如 PDF(适合在电子屏上浏览的字型) 的中文支持

## Part I - Basics

# Data Structure