

0. INTRODUCING C

Hengfeng Wei(魏恒峰)

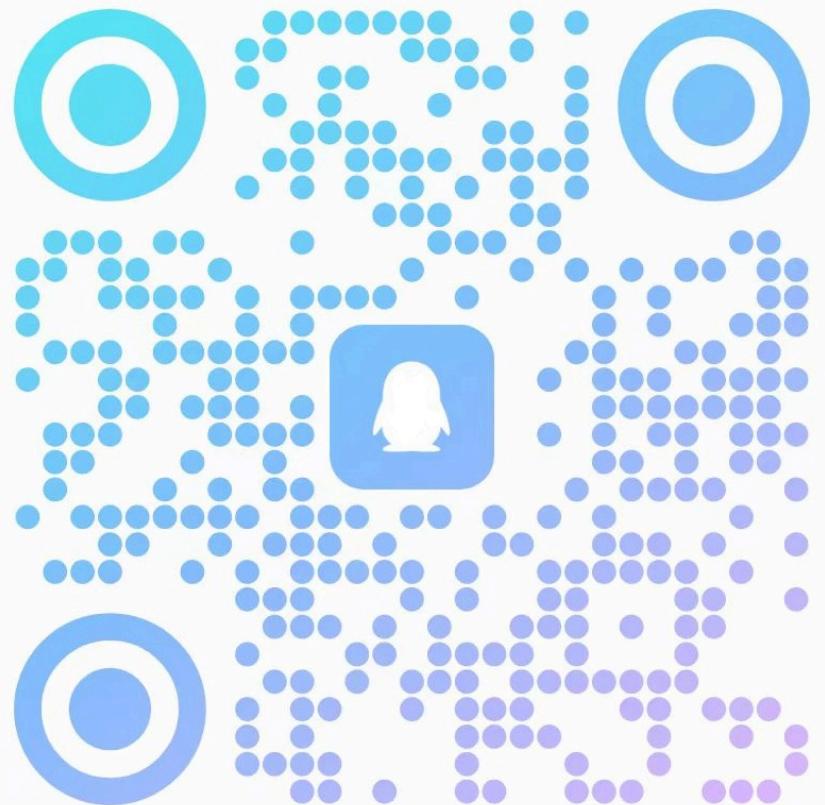
hfwei@nju.edu.cn



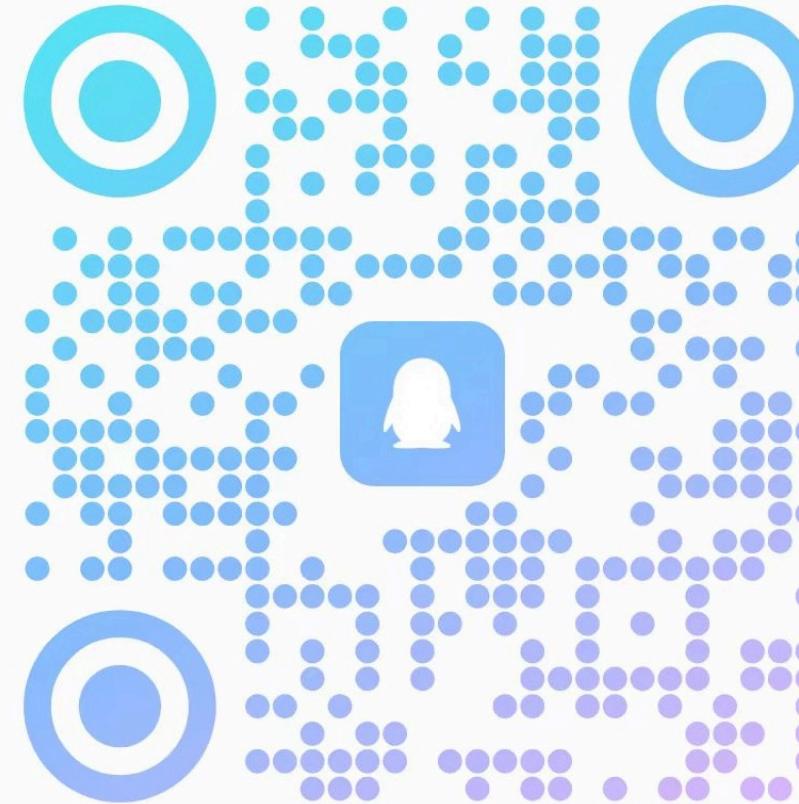
Sep. 19, 2024



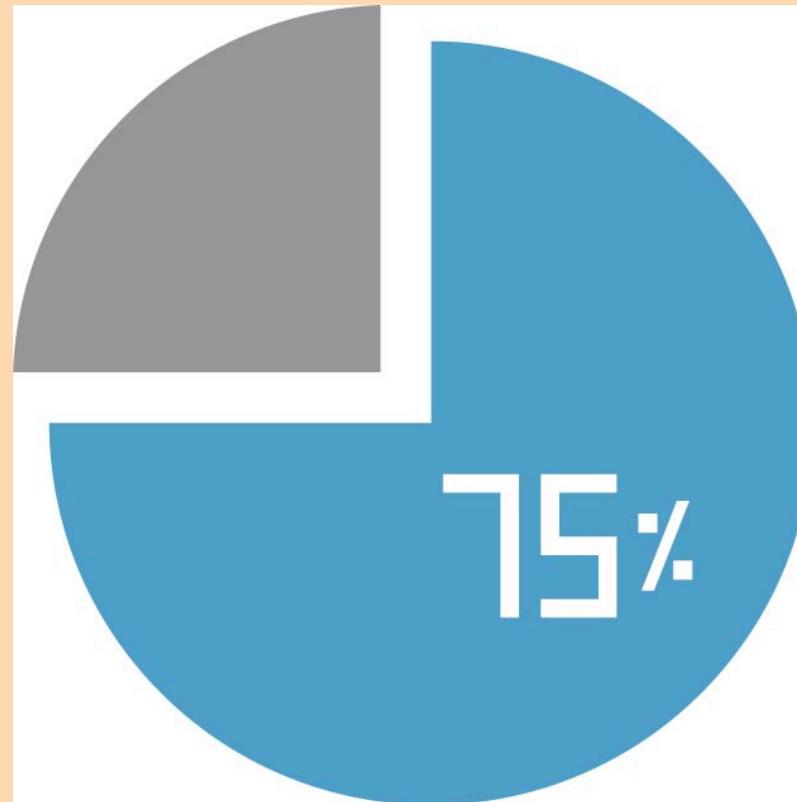
2024-CPL-6
群号: 1003531011



2024-CPL-答疑群
群号: 893689398

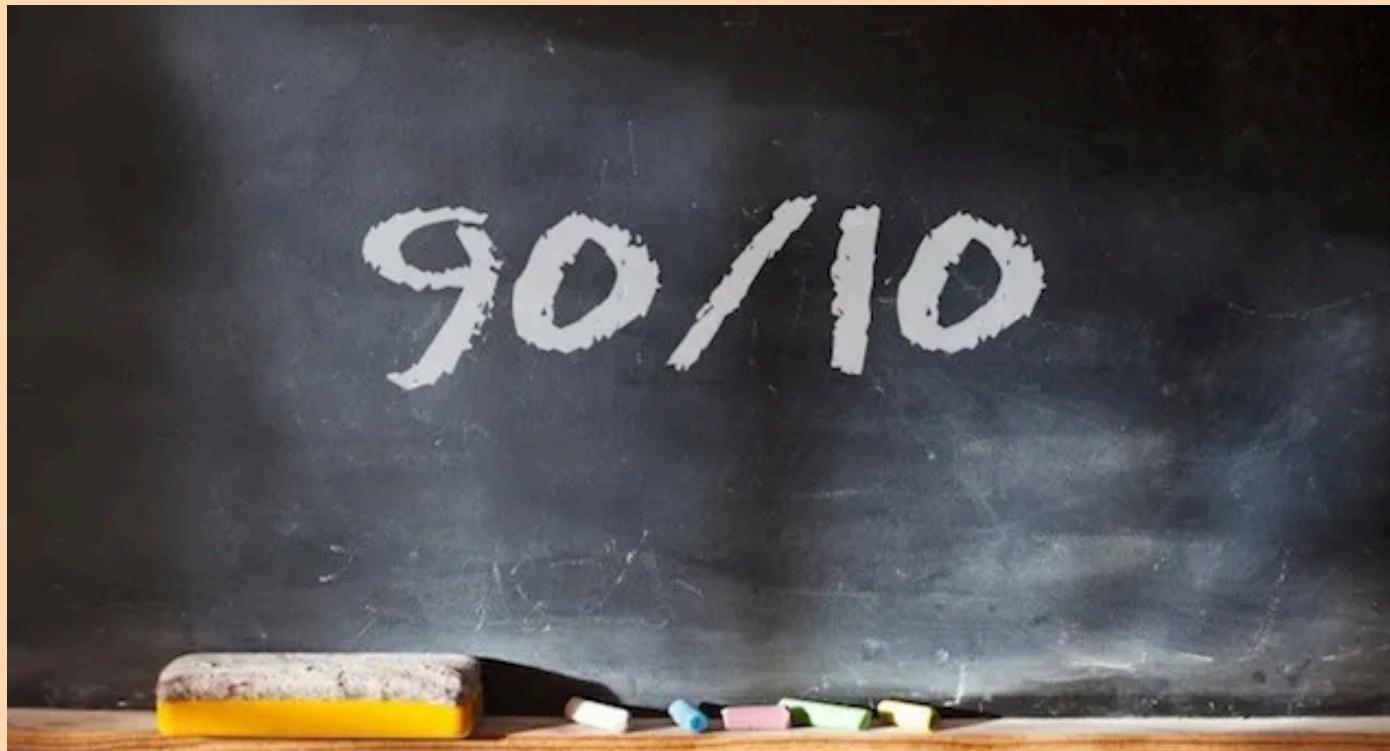


Questionnaire (1)



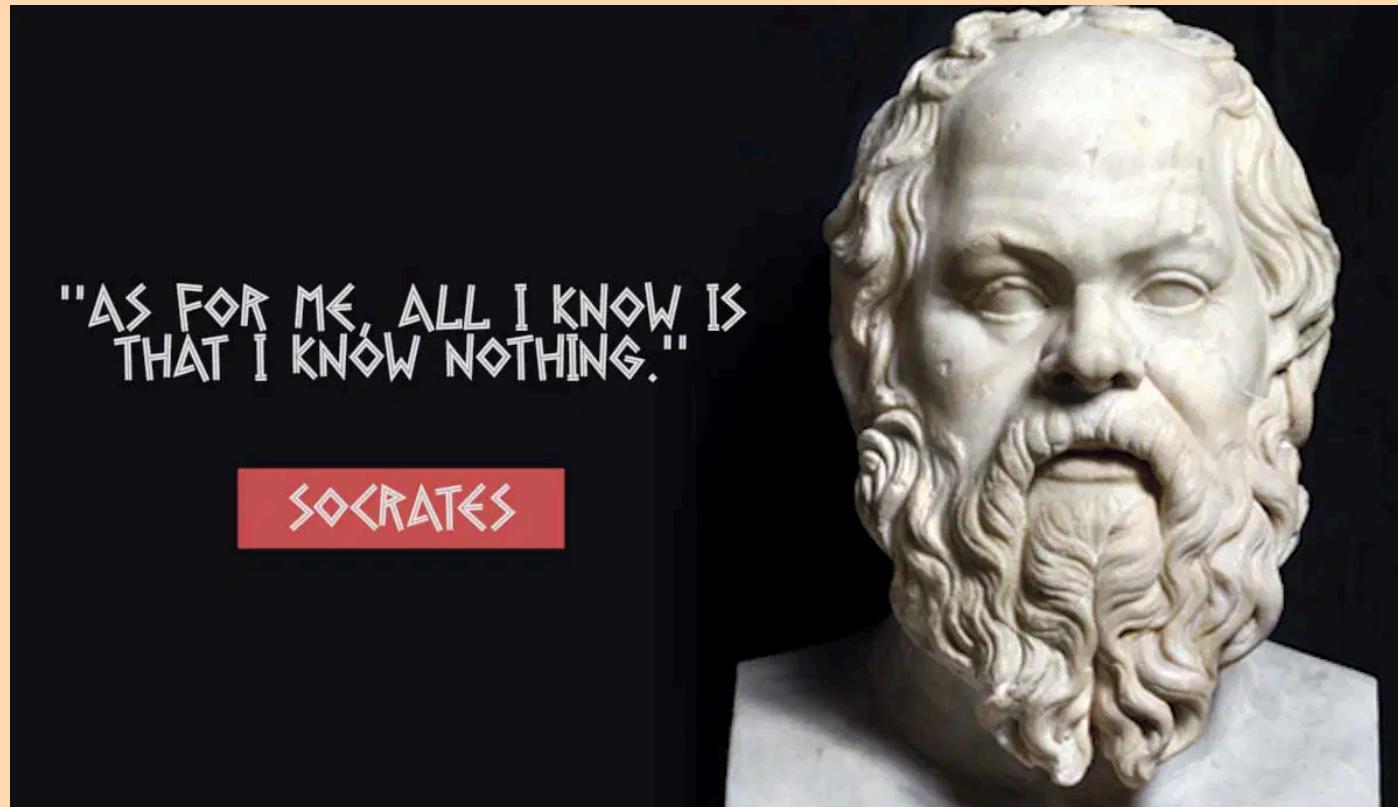
75% of students are new to programming.

Questionnaire (2)



10% of students attended in some programming contests.

Questionnaire (3)



The C Beginners (know 0%)

The C Beginners



To The C Beginners

**DON'T
PANIC!**

From Beginners to Masters

Programming

De-Programming

cpl-docs @ docs.cpl.icu

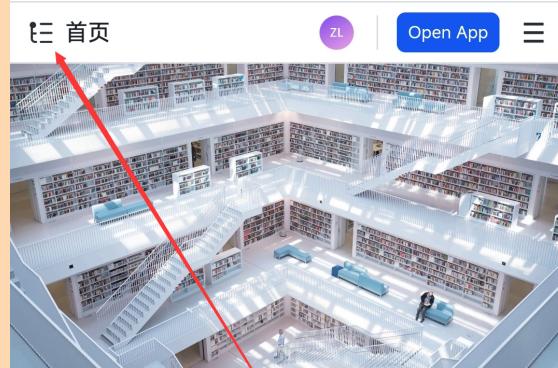


C 语言程序设计基础
C Programming Language

Q 搜索

- > 课程简介
- > 课程评价指标
- > 编程练习与题解
- > 抄袭与惩罚
- > 助教与答疑
- > C 语言开发环境
- > 课程资源
- > 编程风格
- > 往年 FAQ
- > 杂项

CPL Docs @ FeiShu



首页

课程网站: <https://docs.cpl.icu>

简介

本系列讲义由南京大学软件学院C语言程序设计基础（CPL）课程的任课老师、助教、学生等共同撰写，面向不同基础的C语言学习者，旨在提供浅显易懂、简明扼要、深入浅出的教程，用以辅助课堂教学，降低学习门槛。

[Open in Feishu App](#)

须知

☆ Favorite 因 Follow Updates ↗ Share

oj@oj.cpl.icu; oj@public.oj.cpl.icu

← 2024-0-introduction 2024-09-17 19:59:19 题目列表 评测情况 得分排名 admin ▾

2024-0-introduction
2024-09-03 08:00 - 2024-09-29 23:00

第 0 次作业, 不计分, 供各位同学测试环境使用 🎉

题目列表

#	名称	解决状态	通过人数
A	Hello C Programming!	✓ 已解决	144 / 151
B	a + b problem	✓ 已解决	124 / 137
C	Quine		44 / 71

导出互评结果到Excel 编辑作业



ZULIP

- ▼ VIEWS
 - Inbox
 - Recent conversations
 - Combined feed
 - Mentions
 - Reactions
 - Starred messages
 - Drafts
- DIRECT MESSAGES
- CHANNELS**
- Pinned
- # Better-CPL
- # cpl-resources
- # gcc-mingw-clang**
- # general
- # git-github
- # hello-world
- # ide-clion
- # ide-dev-c++
- # ide-vs
- # ide-vscode

Active

TA

2024cpl@Zulip



Scores

- ~~考勤 (非必要不点名)~~
- 平时编程练习 (10 分)
- 阶段机试 1 (15 分)
- 阶段机试 2 (20 分)
- 期末机试 (30 分)
- 期末项目 (25 分)



No Plagiarism!!!

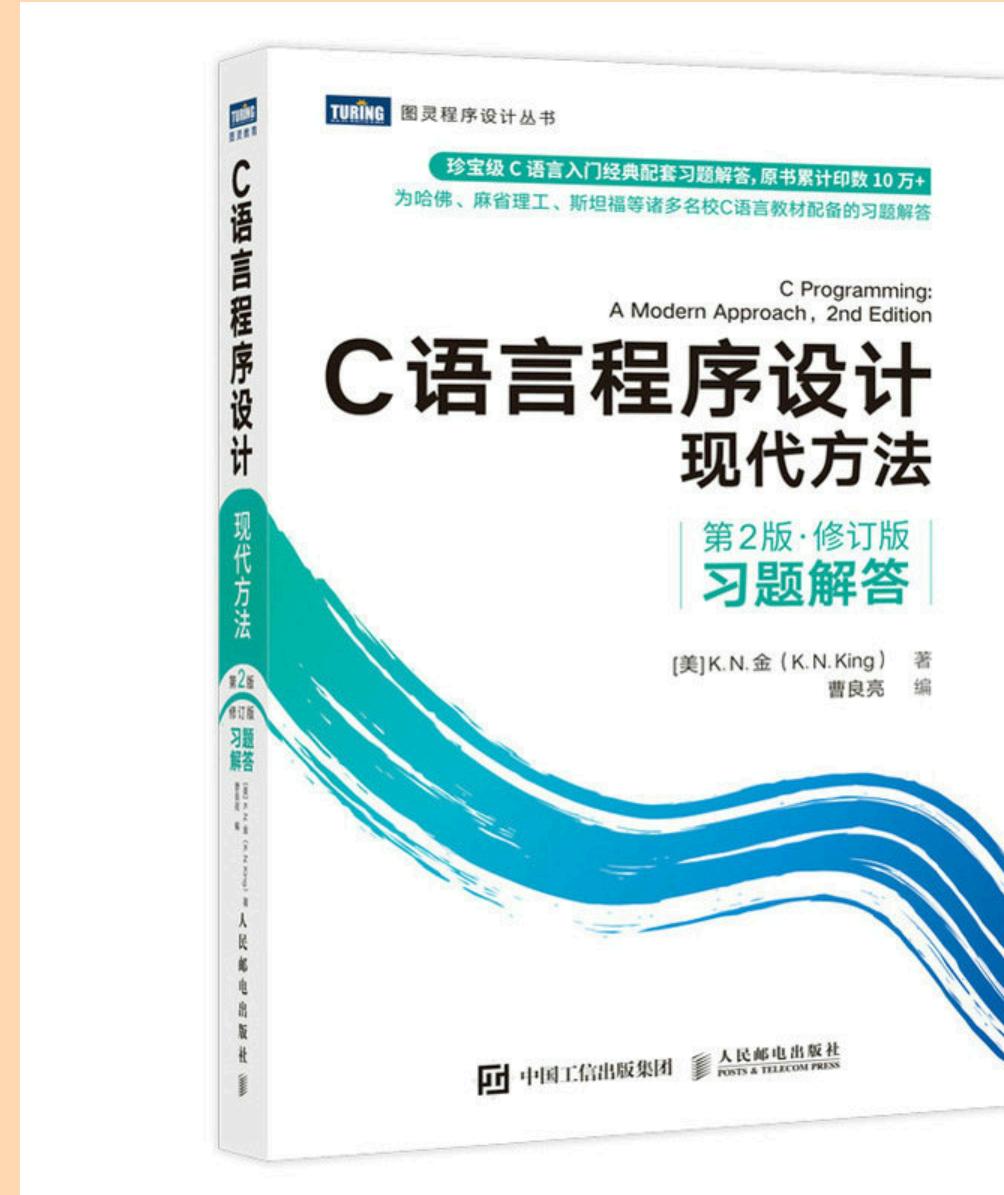
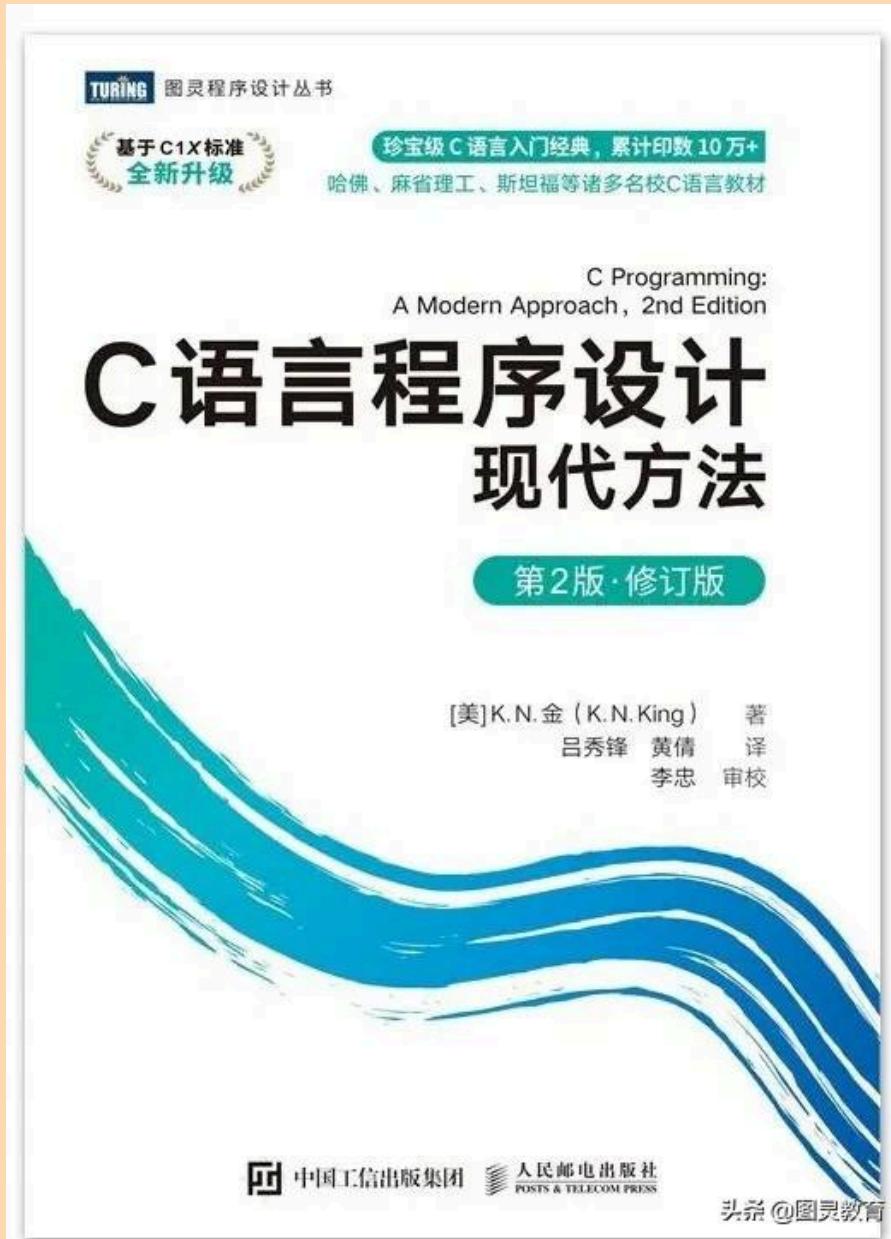


编程练习: 每次扣 5 分, 10 分扣完为止; **期末项目:** 项目分数清零

ASK ME ANYTHING

GREAT MINDS
DISCUSS IDEAS

About the 2024CPL Class





PEARSON

C和C++实务精选
品味岁月积淀，读享技术菁华

C Primer Plus

(第6版) 中文版

C Primer Plus
Sixth Edition

- 经久不衰的C语言畅销经典教程
- 针对C11标准进行全面更新



[美] Stephen Prata | 著
姜佑 | 译



中国工信出版集团



人民邮电出版社
POSTS & TELECOM PRESS

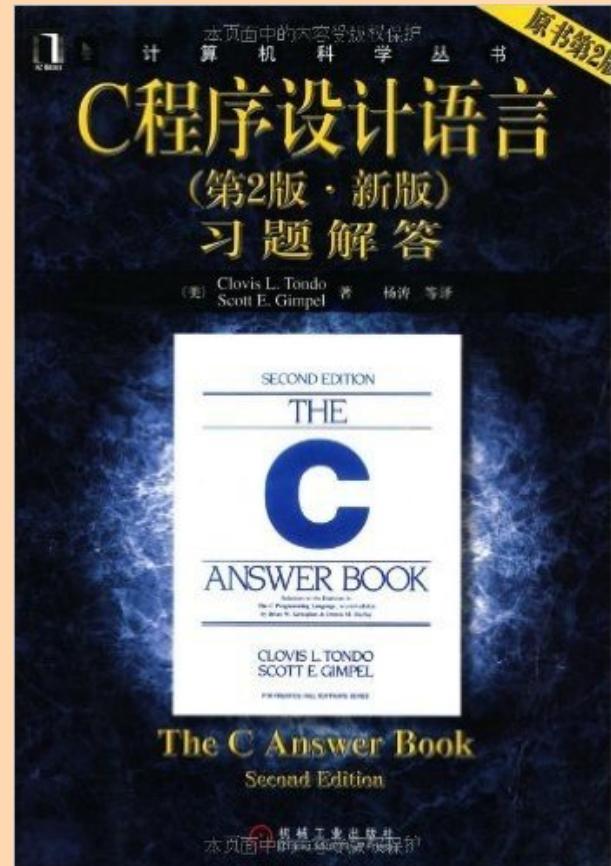
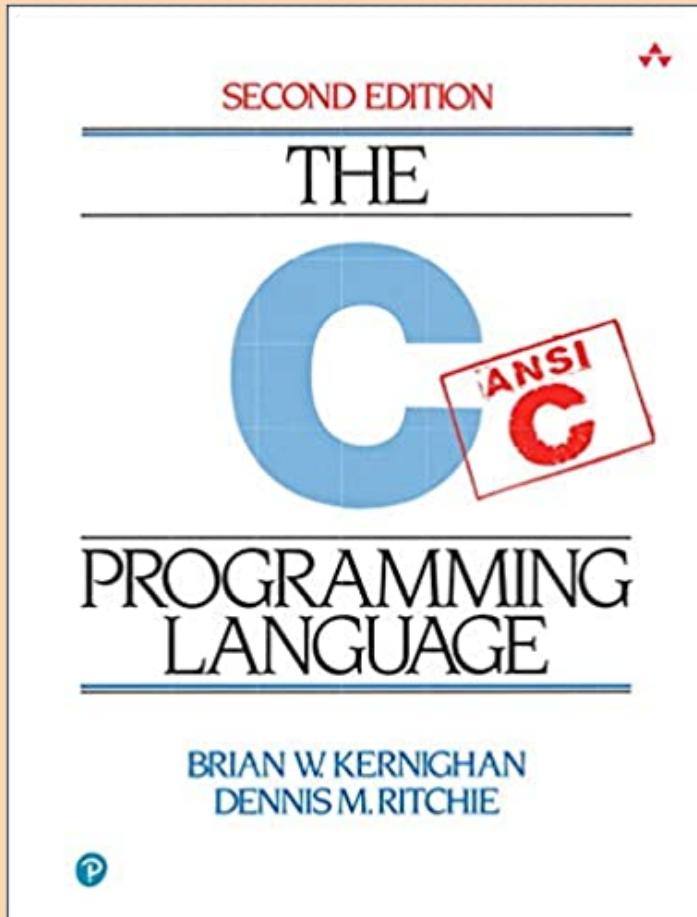
Stephen Prata

Sixth Edition

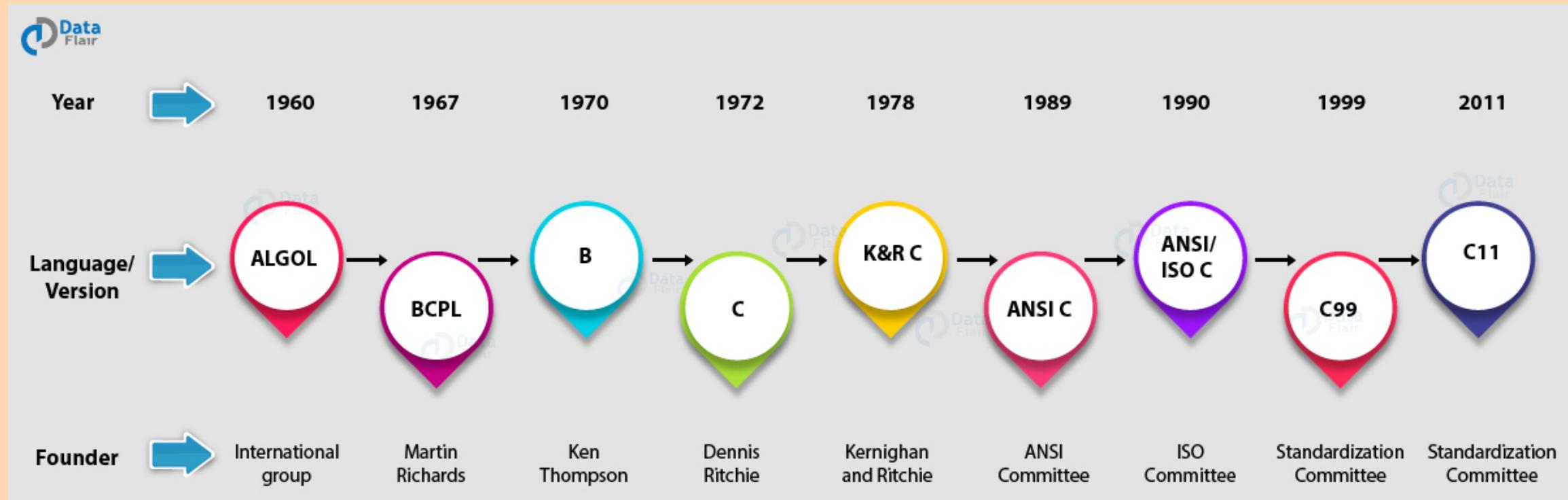
C Primer Plus



K&R C Bible (1978; 1988)



A Brief History of C @ [cppreference](#) [C17; C23]



You do *NOT* need to be a **language lawyer!**

POISON



**If You're
Not Sure, Ask**





More Books in the Class . . .

启步图书
www.eubit.com

MANNING

程序员 软技能

[美] 唐·琼斯 (Don Jones) 著
魏喆 译

Own Your
Tech Career

Soft skills for technologists

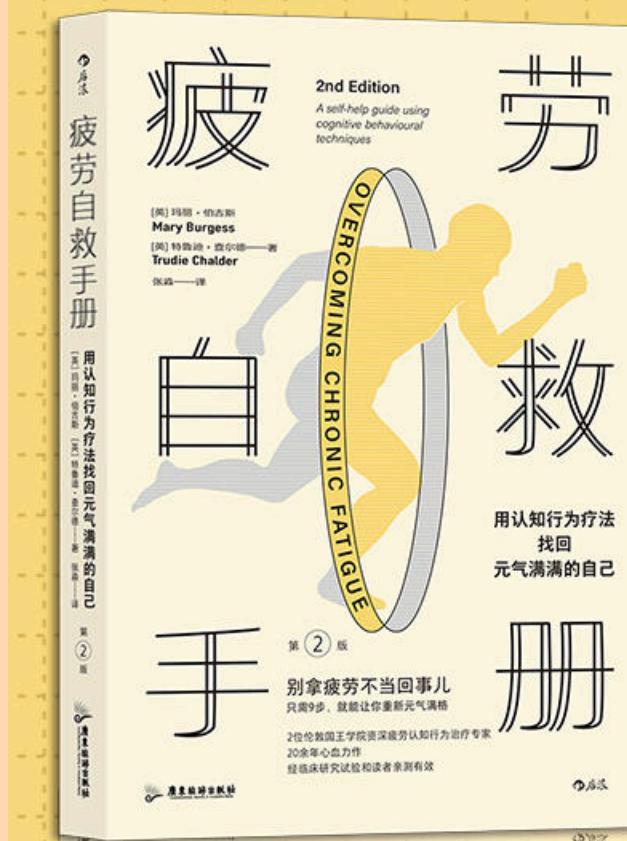


中国工信出版集团



人民邮电出版社
POSTS & TELECOM PRESS

别拿疲劳不当回事儿



9步让你 重新元气满格

1. 观察你的活动与睡眠模式，了解疲劳是如何对你产生影响的
2. 设定让自己生活更愉快、更平衡的目标
3. 改善睡眠质量，稳定活动和休息模式

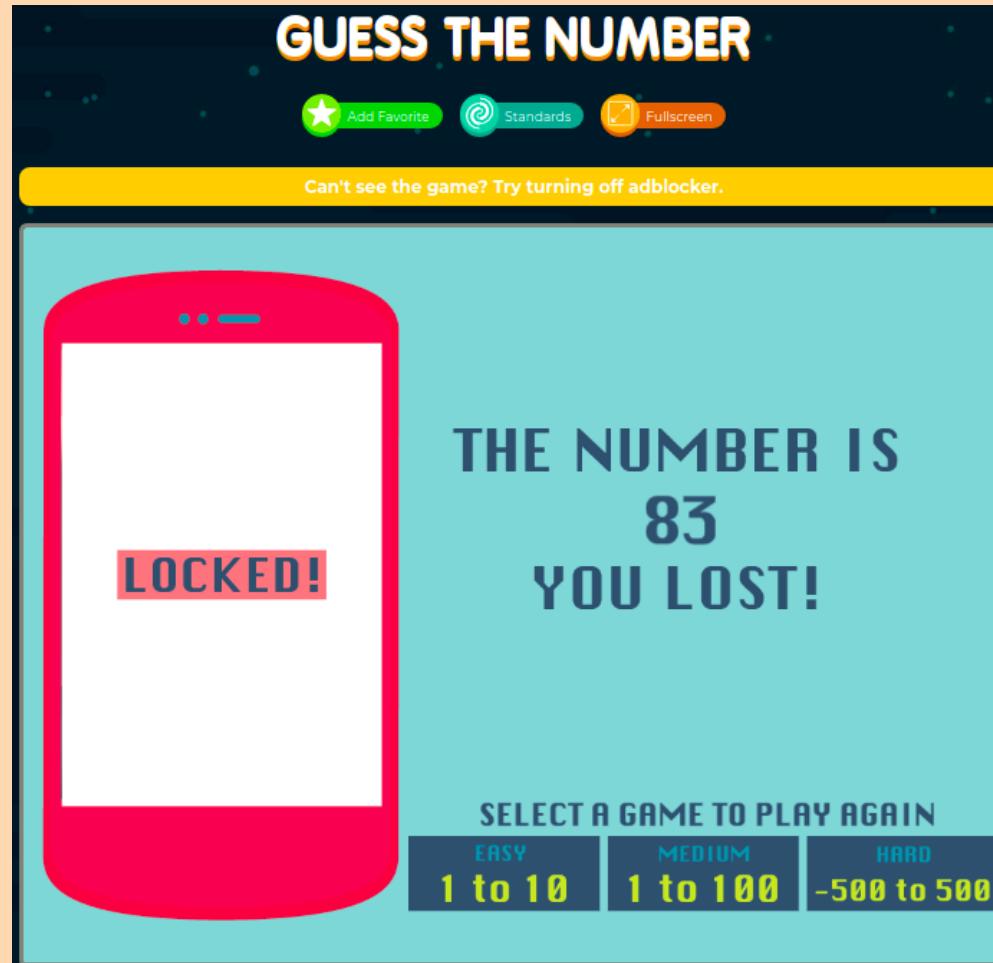
"TALK IS
CHEAP.
SHOW ME THE
CODE."
-LINUS TORVALDS

<Hello World/>

```
main()
{
    printf("Hello, world\n");
}
```

Zin Koht

Game: Guess the Number



Game: Guess the Number

Programming is *NOT*(only) about languages.

You learn C to express **YOUR IDEAS** with
COMPUTERS.

c reference

C reference

C89, C95, C99, C11, C17, C23

Language

Basic concepts
Keywords
Preprocessor
Expressions
Declaration
Initialization
Functions
Statements

Headers

Type support

Program utilities

Variadic functions

Error handling

Dynamic memory management

Date and time utilities

Strings library

Null-terminated strings:
byte – multibyte – wide

Algorithms

Numerics

Common mathematical functions

Floating-point environment (C99)

Pseudo-random number generation

Complex number arithmetic (C99)

Type-generic math (C99)

Input/output support

Localization support

Atomic operations library (C11)

Thread support library (C11)

Technical specifications

Dynamic memory extensions (dynamic memory TR)

Floating-point extensions, Part 1 (FP Ext 1 TS)

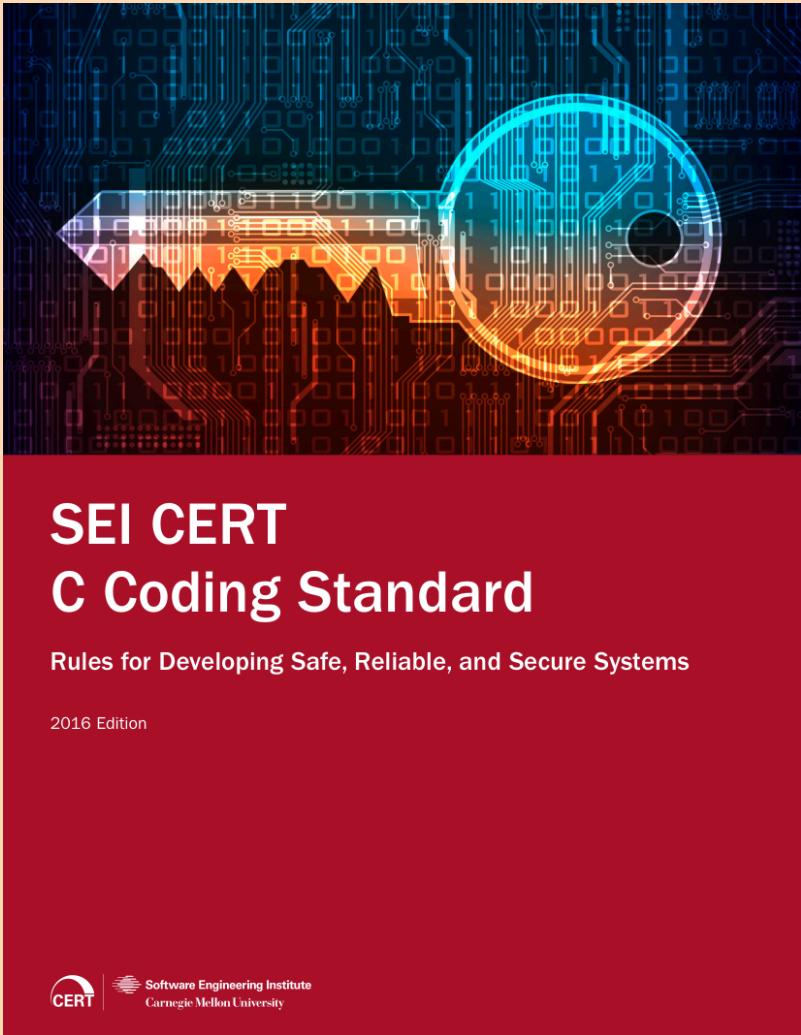
Floating-point extensions, Part 4 (FP Ext 4 TS)

External Links – Non-ANSI/ISO Libraries – Index – Symbol Index

Game: Guess the Number

Program = Input + Data + Operations + Output

Secure Coding in C



C语言编程指南 V1.0



ASK ME ANYTHING

GREAT MINDS
DISCUSS IDEAS



Thank
You!