

# 0. INTRODUCING C

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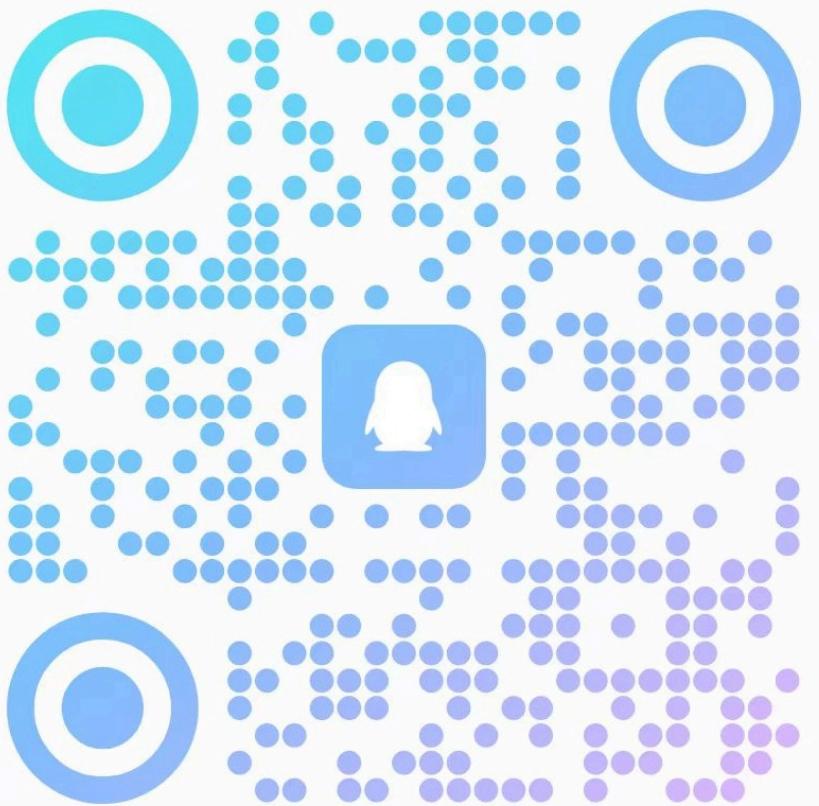
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Sep. 20, 2024

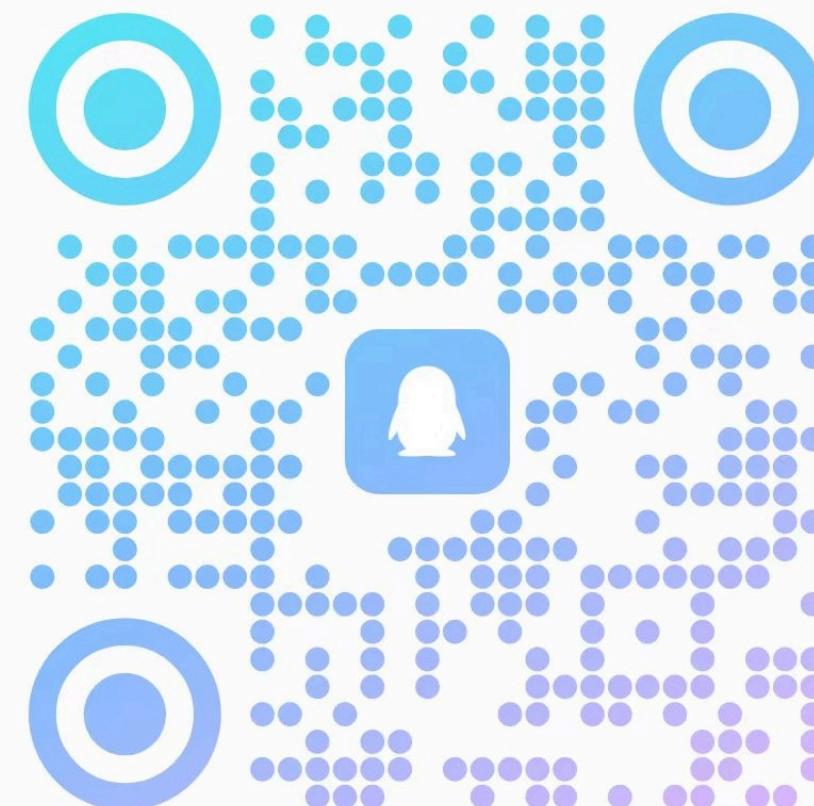
2024-CPL-0

群号: 836876545

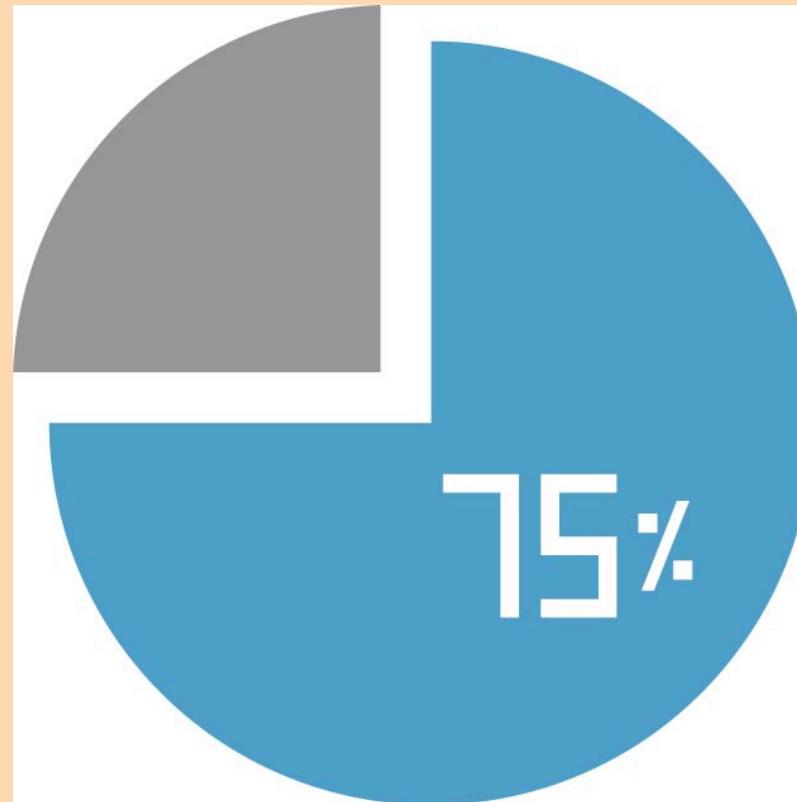


2024-CPL-答疑群

群号: 893689398

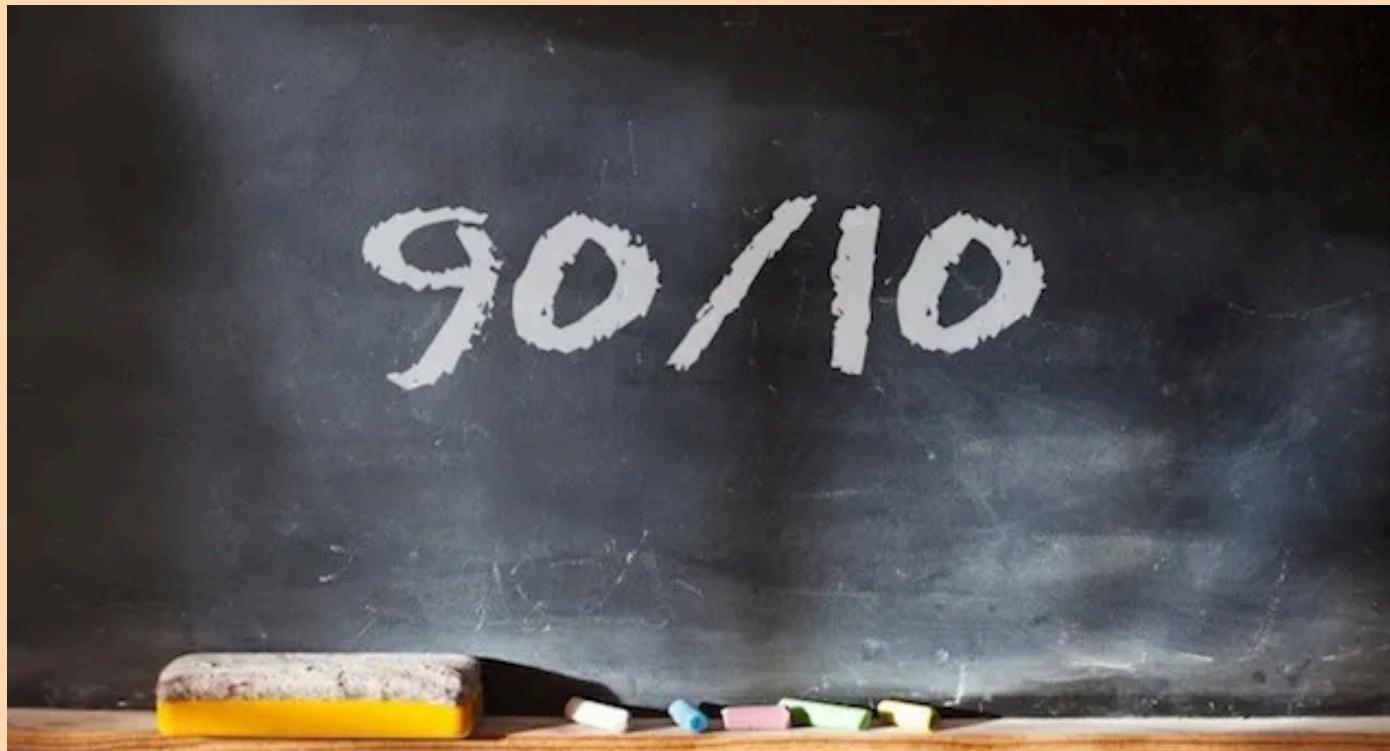


# Questionnaire (1)



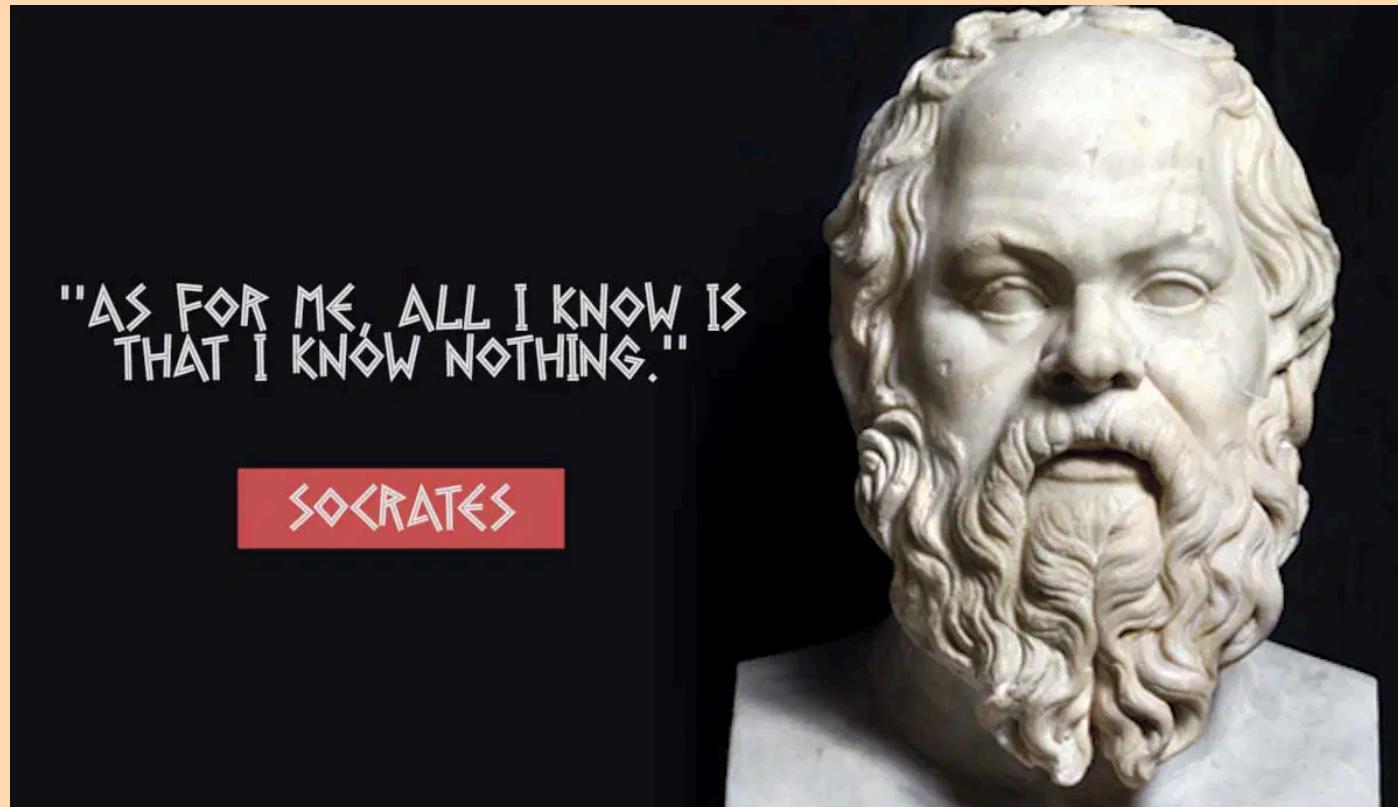
75% of students are new to programming.

# 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

The screenshot shows the homepage of the CPL Docs website. At the top is a large blue hexagonal logo with a white 'C' inside. Below it is the title 'C 语言程序设计基础' (C Programming Language) and its English translation. A search bar is present. The main menu on the left includes: '课程简介' (Course Introduction), '课程评价指标' (Evaluation Criteria), '编程练习与题解' (Programming Practice and Solutions), '抄袭与惩罚' (Plagiarism and Punishment) which is highlighted with a red border, '助教与答疑' (Tutoring and Answering Questions), 'C 语言开发环境' (C Language Development Environment), '课程资源' (Course Resources), '编程风格' (Coding Style), '往年 FAQ' (FAQ from Previous Years), and '杂项' (Miscellaneous). A red arrow points from the '抄袭与惩罚' menu item to the 'CPL Docs @ FeiShu' screenshot.

# CPL Docs @ FeiShu

The screenshot shows the CPL Docs page within the FeiShu app. It features a large image of a modern library interior. The title '首页' (Home) is at the top, followed by a callout box with a red pushpin icon and the text '课程网站: <https://docs.cpl.icu>'. Below this is a section titled '简介' (Introduction) with a detailed description of the course's purpose and target audience. At the bottom are buttons for 'Open in Feishu App', 'Favorite', 'Follow Updates', and 'Share'. A red arrow points from the '抄袭与惩罚' menu item in the first screenshot to this screenshot.

oj.cpl.icu

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

第 0 次作业，不计分，供各位同学测试环境使用

导出互评结果到Excel 编辑作业

2024-0-introduction

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

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



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!!!

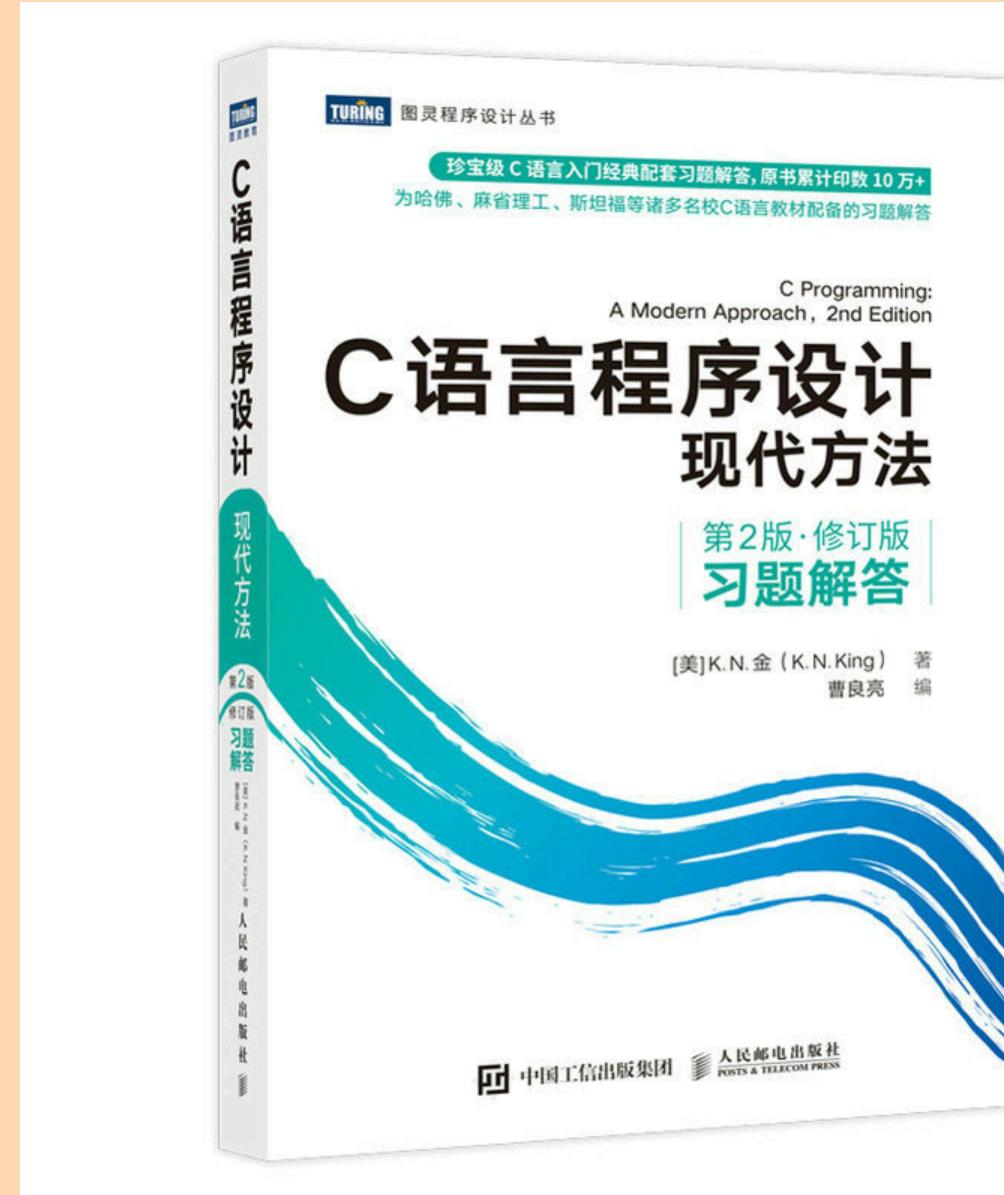
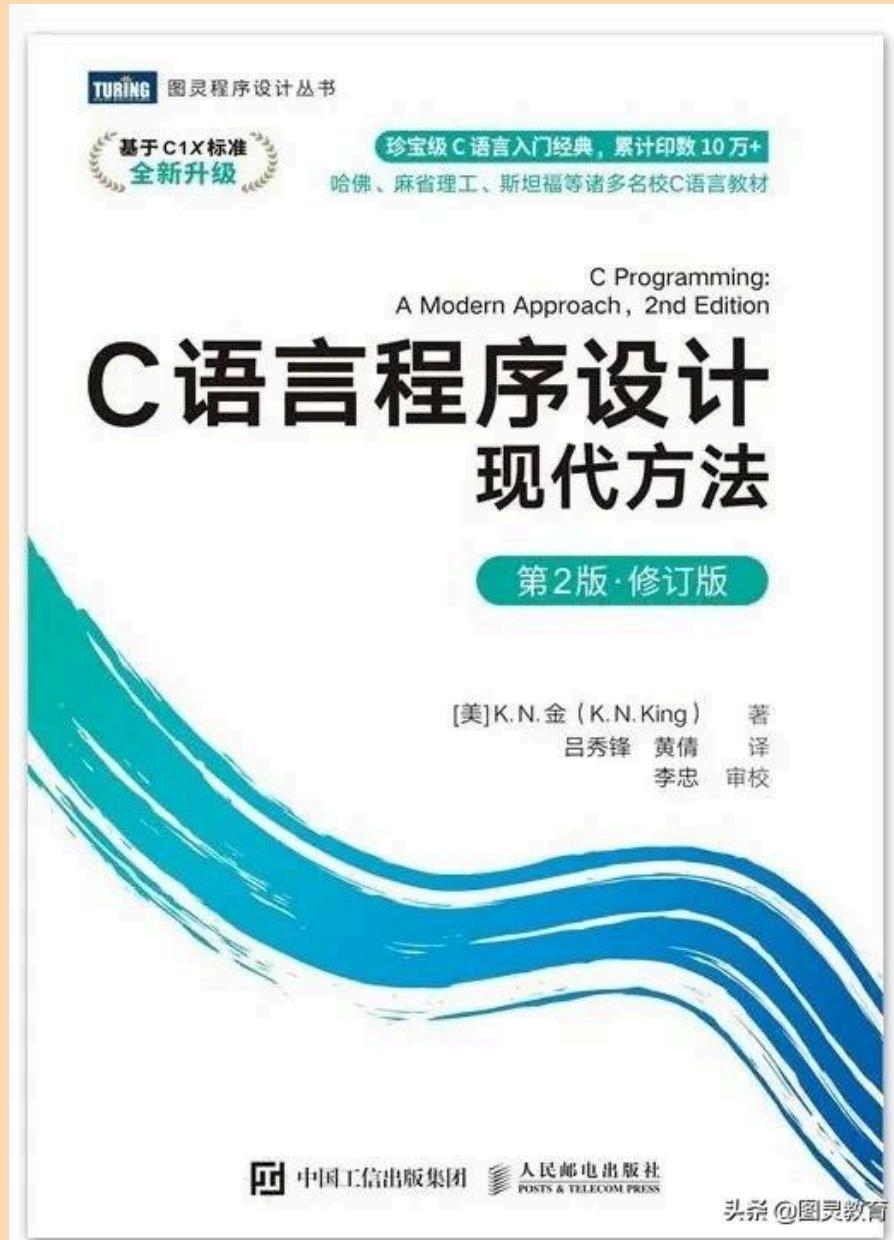


**编程练习:** 每次扣 5 分, 10 分扣完为止; **期末项目:** 项目分数清零

# 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

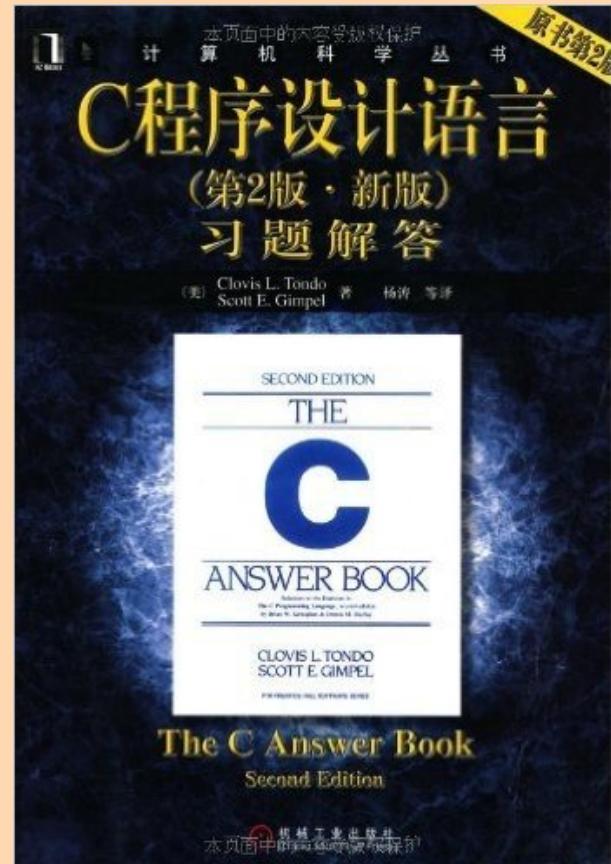
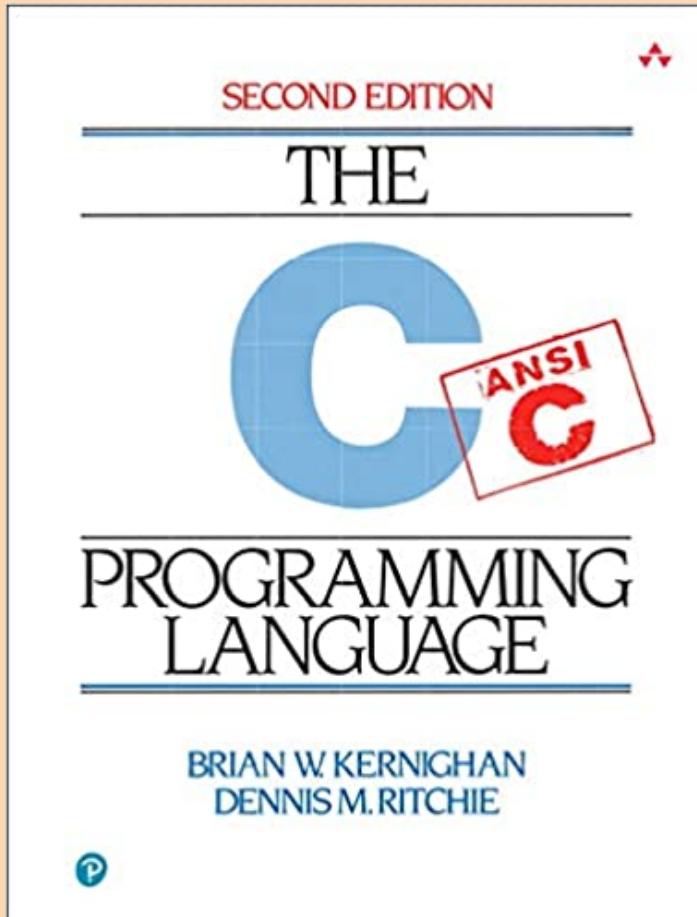
Stephen Prata

Sixth Edition

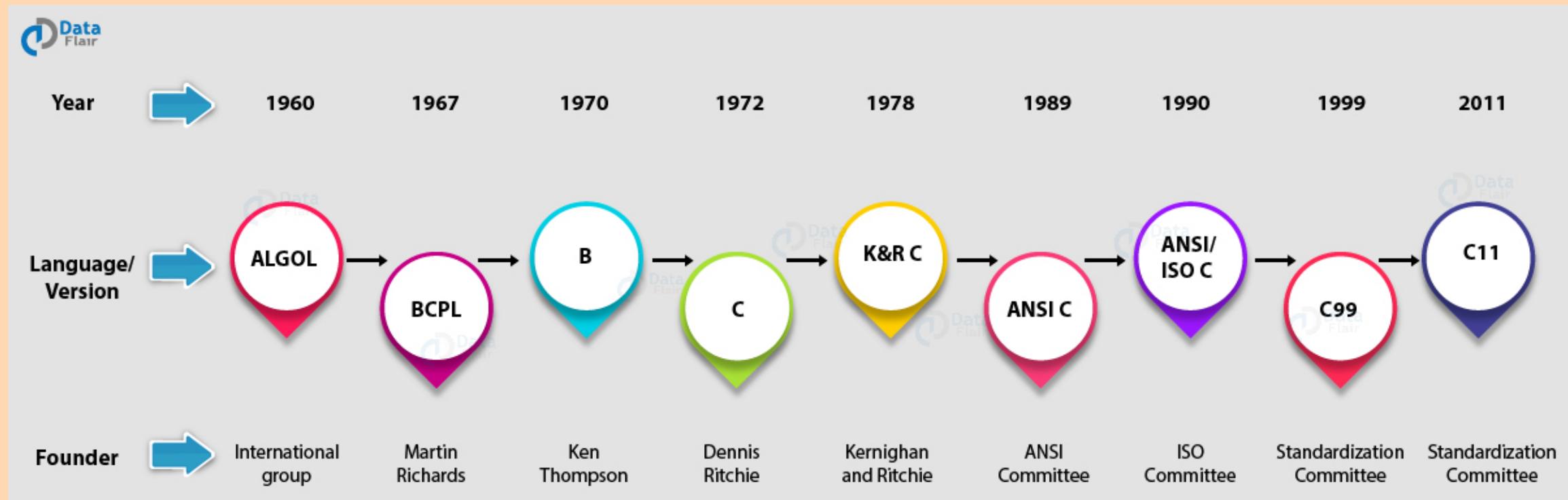
# C Primer Plus



# K&R C Bible (1978; 1988)



# A Brief History of C @ cprefere~~n~~ce [C17; C23]



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

**POISON**

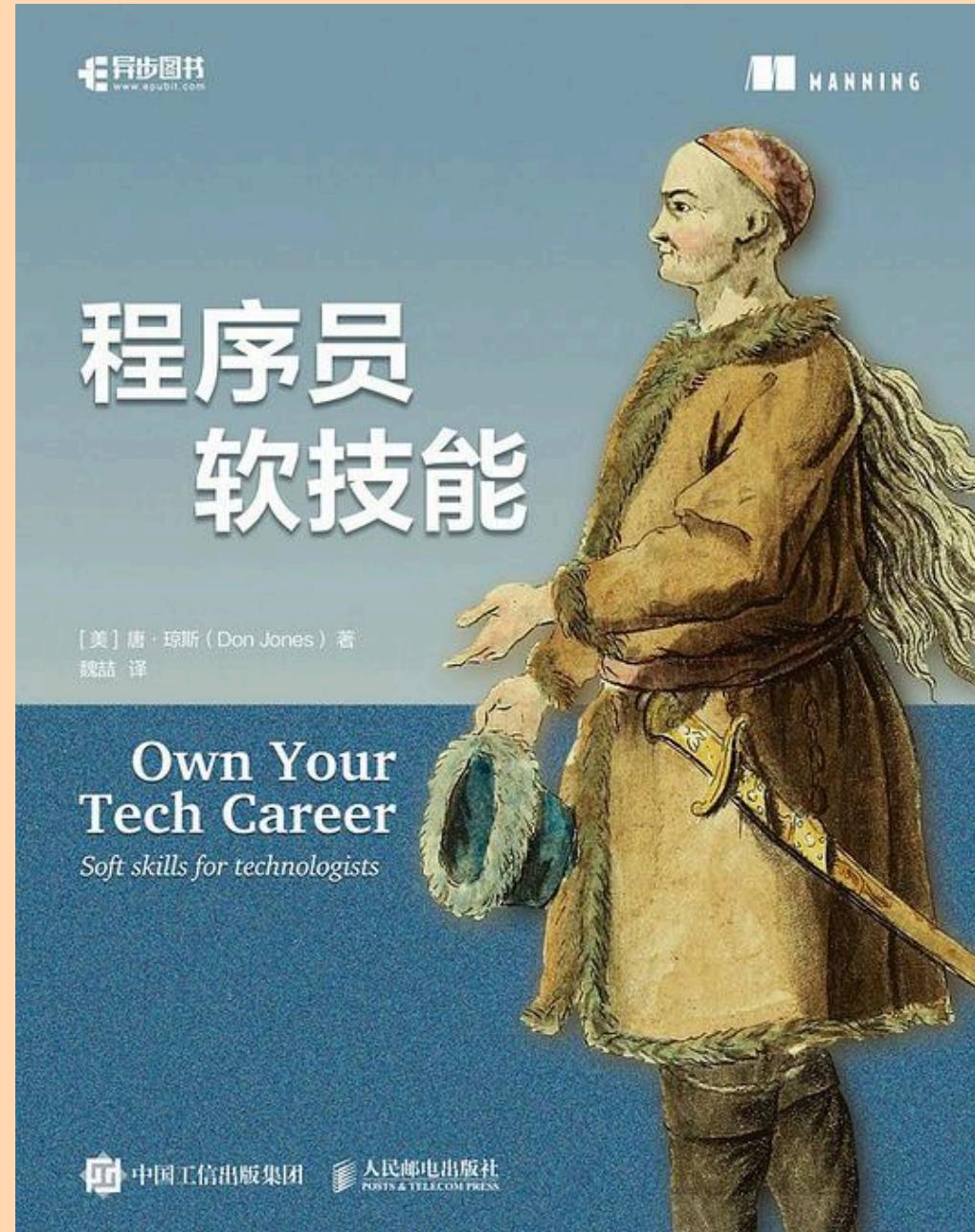


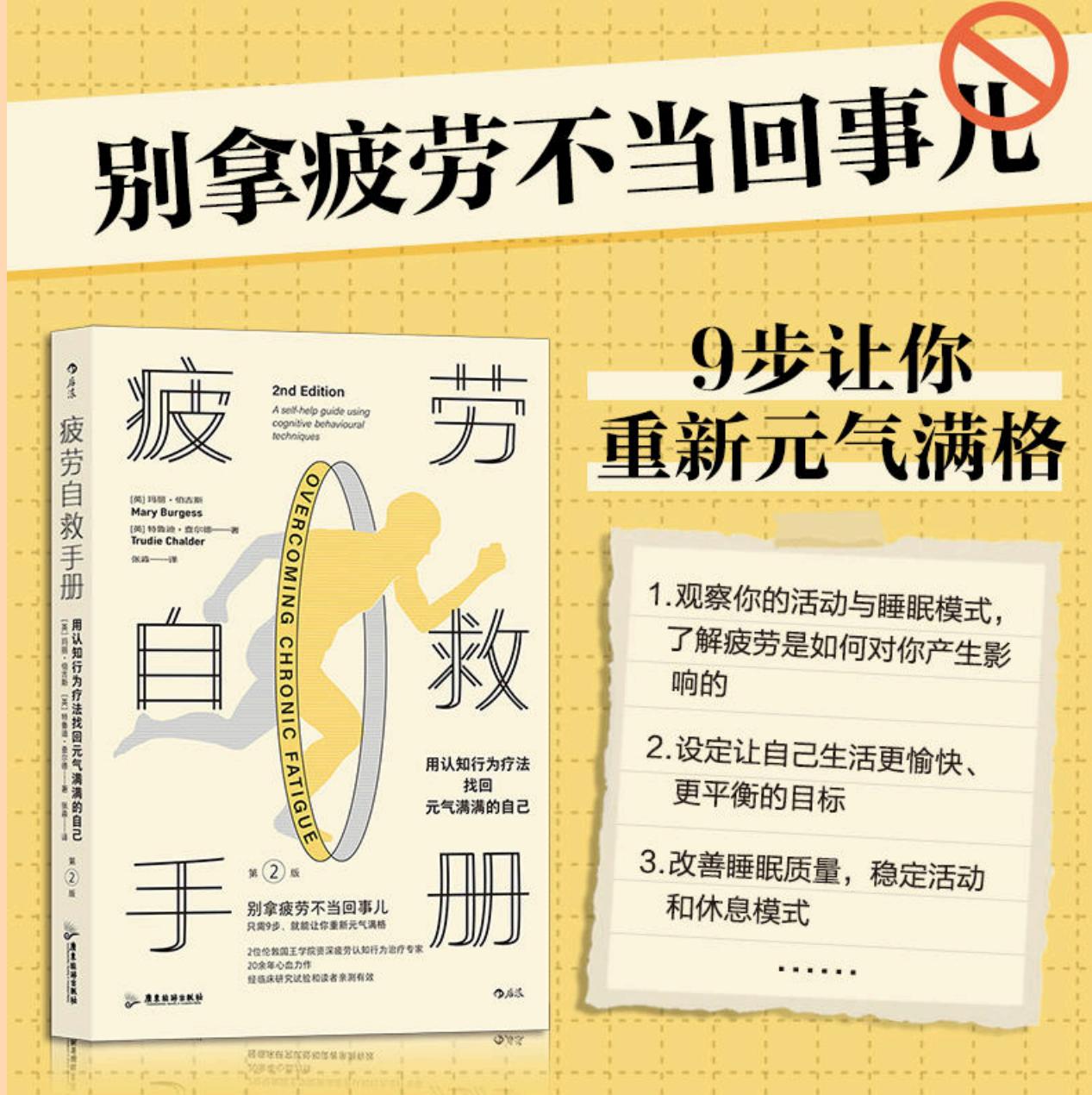
**If You're  
Not Sure, Ask**





**More Books in the Class . . .**





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

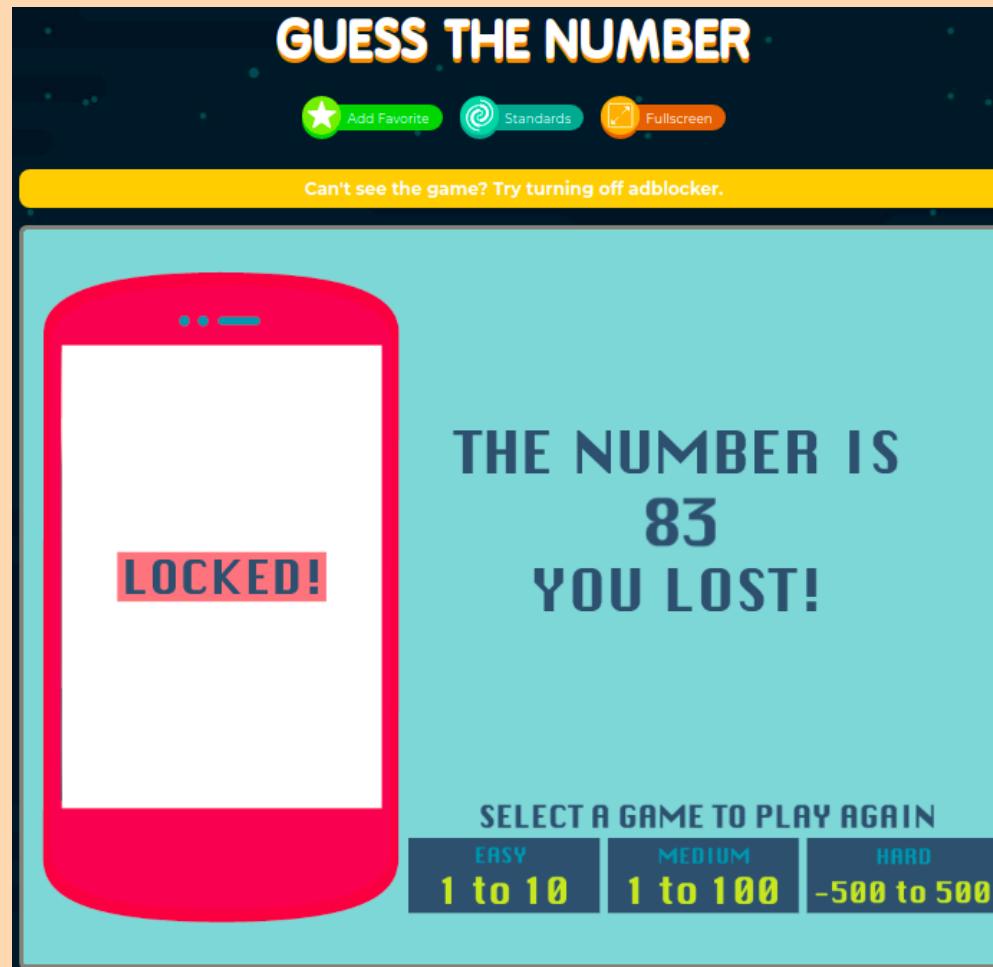


<Hello World/>

```
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

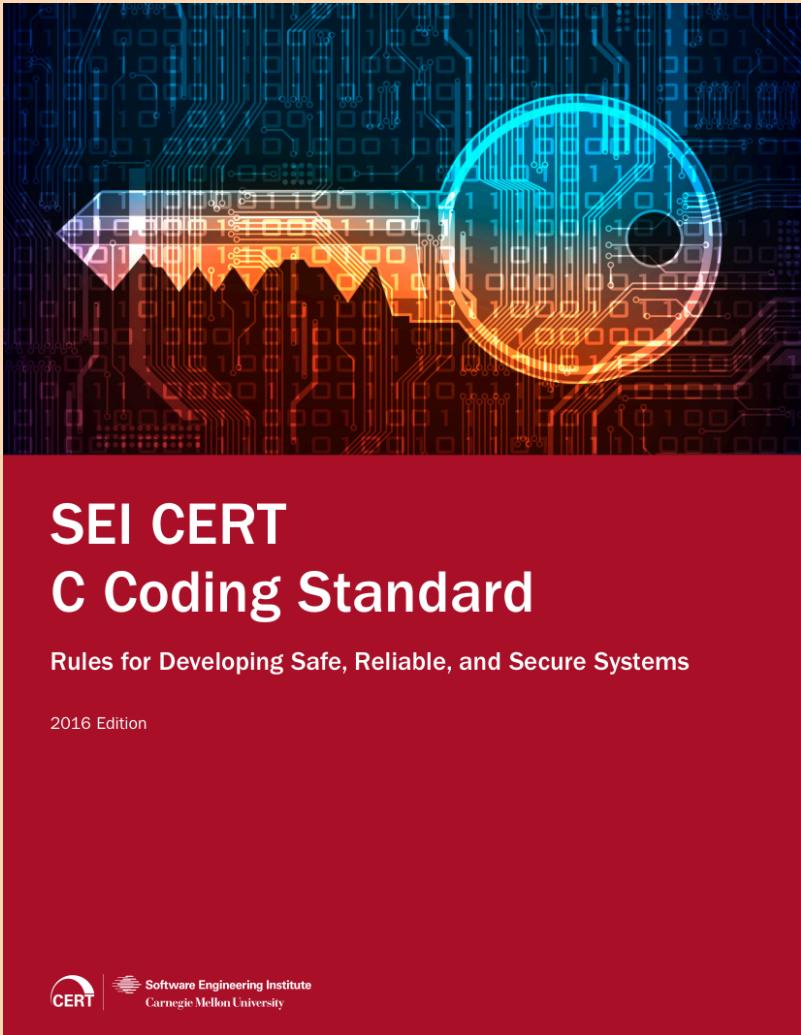
**Dynamic memory extensions** (dynamic memory TR)

**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

# Secure Coding in C



C语言编程指南 V1.0





# ASK ME ANYTHING

GREAT MINDS  
DISCUSS IDEAS

Thank  
You!