

0. INTRODUCING C

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2023CPL

群号: 903318959

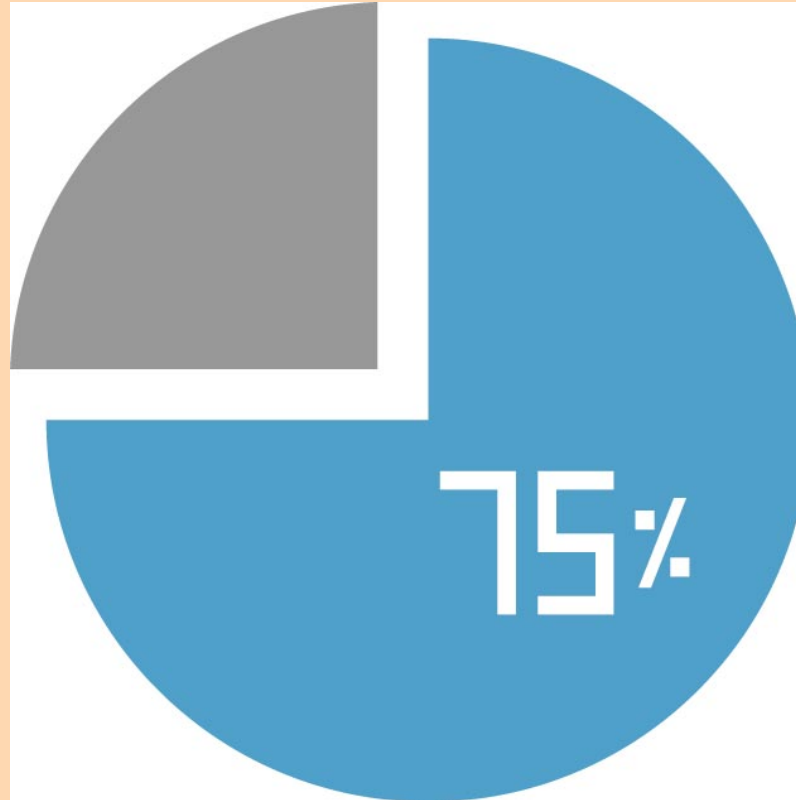


2023-CPL-通知群

群号: 893689398

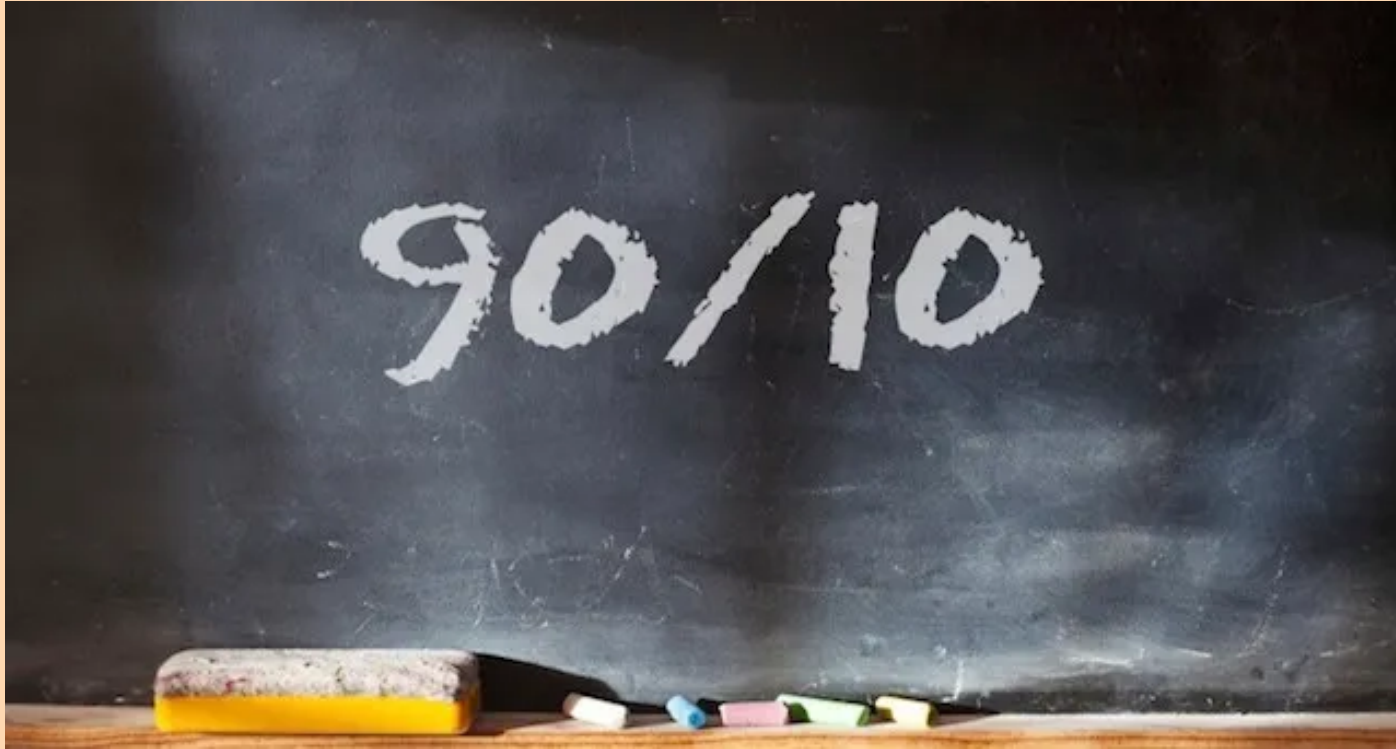


Questionnaire (1)



75% of students are new to programming.

Questionnaire (2)



10% of students attended in some programming contests.

To C Beginners

**DON'T
PANIC!**

From Beginners to Masters

Programming

De-Programming

[cpl-docs: docs.cpl.icu](https://docs.cpl.icu)



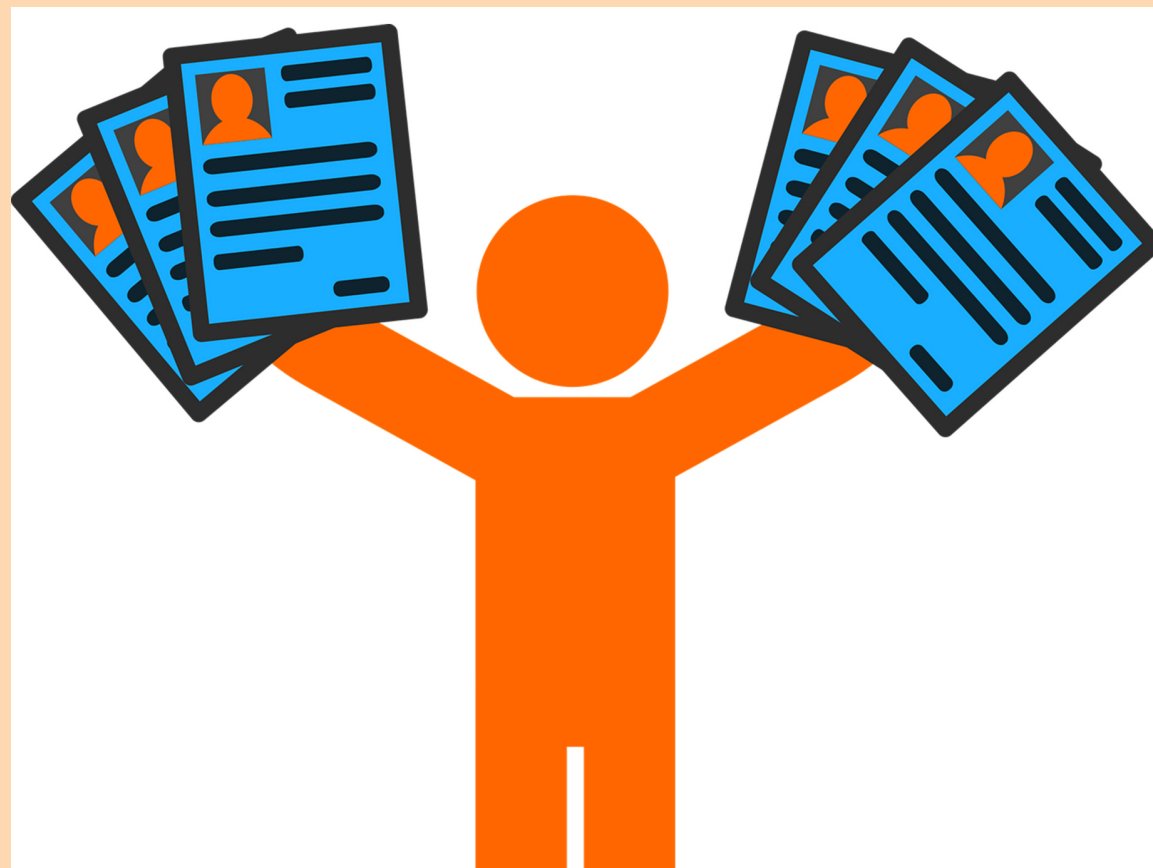
C 语言程序设计基础
C Programming Language

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

Scores

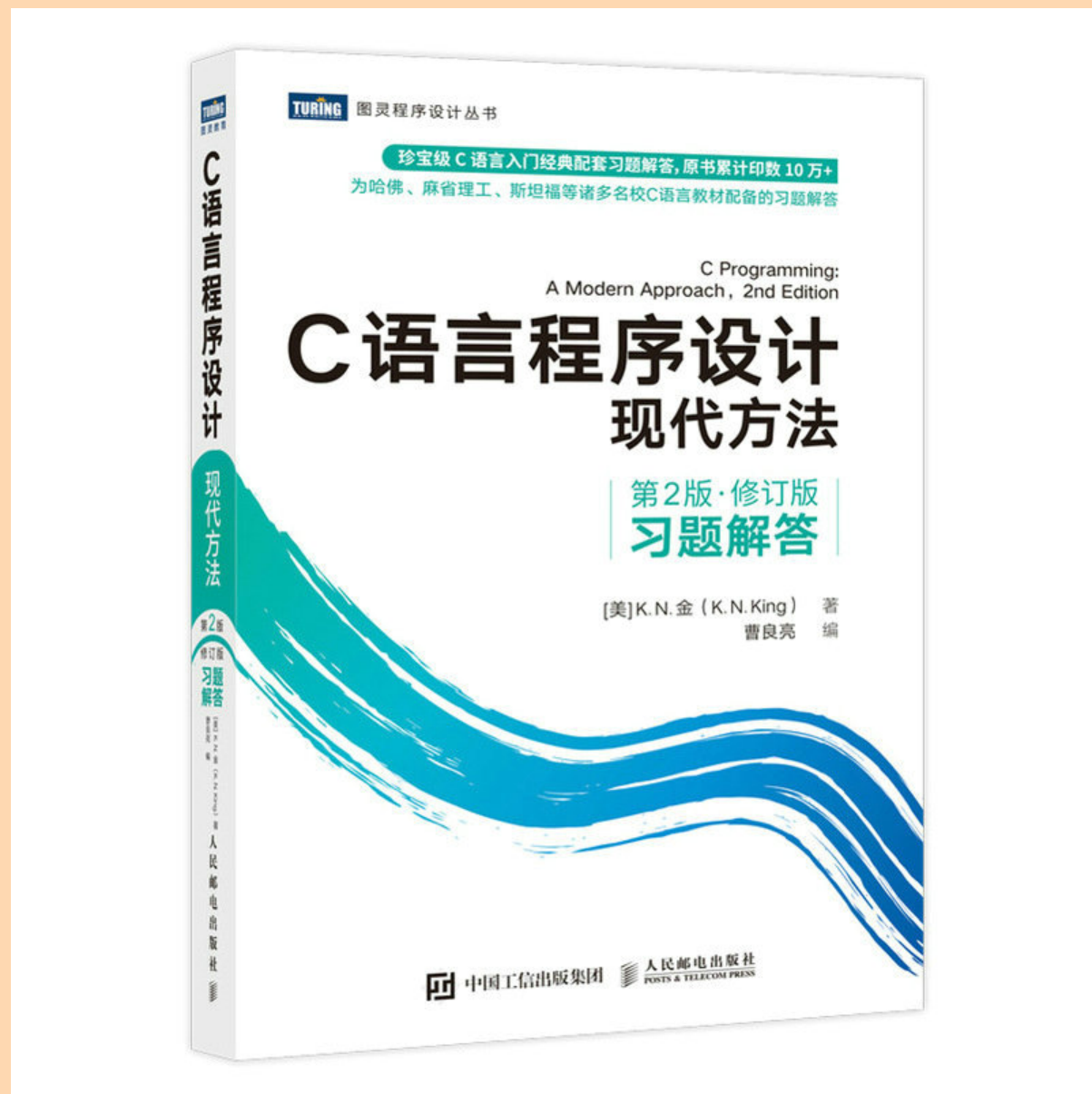
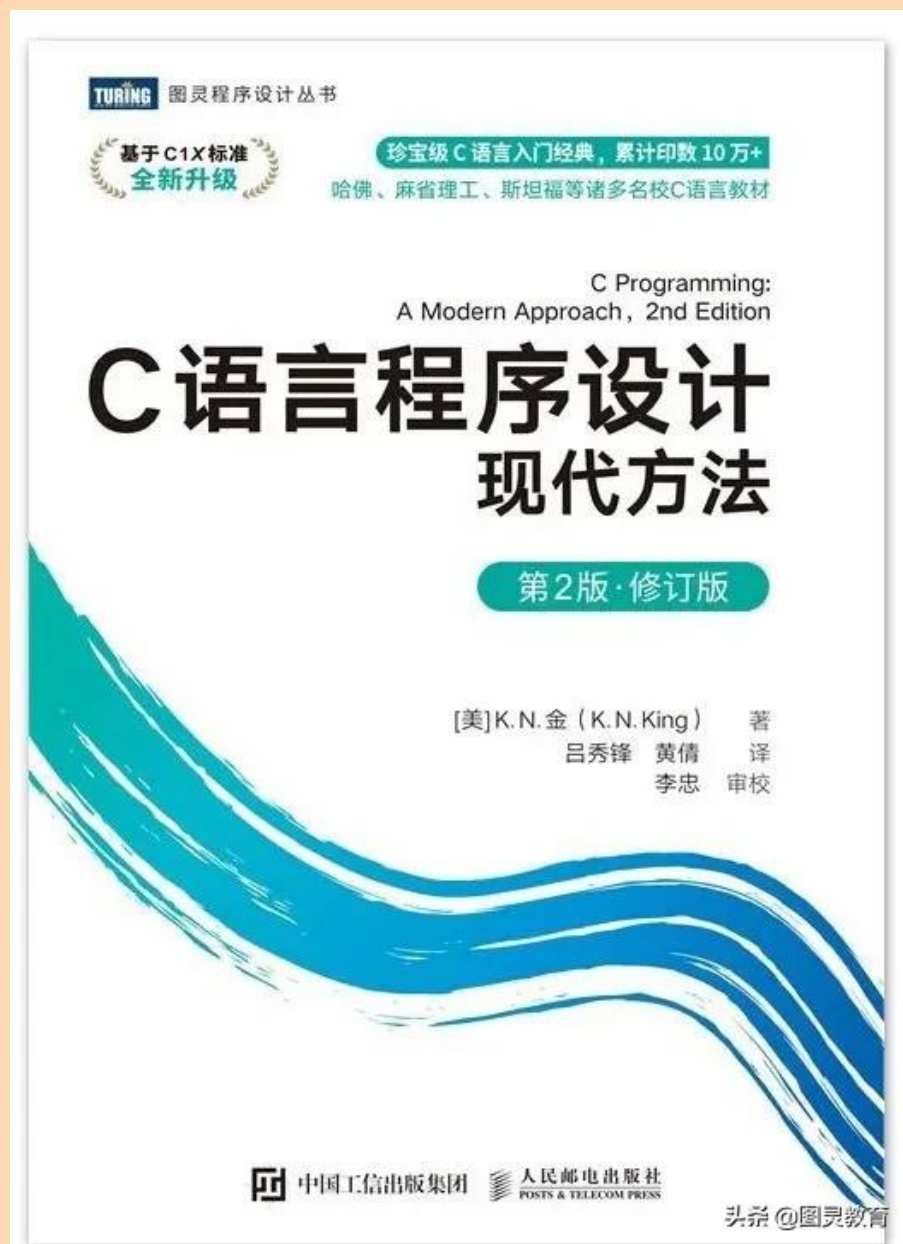
- ~~考勤(非必要不点名)~~
- 平时编程练习 (10 分)
- 阶段机试 1 (15 分)
- 阶段机试 2 (20 分)
- 期末项目 (25 分)
- 期末机试 (30 分)



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



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

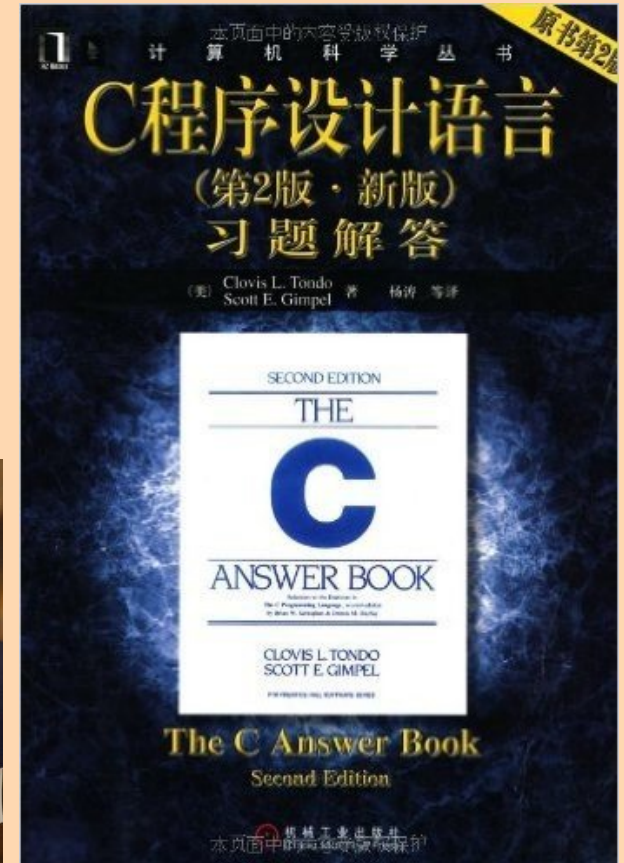
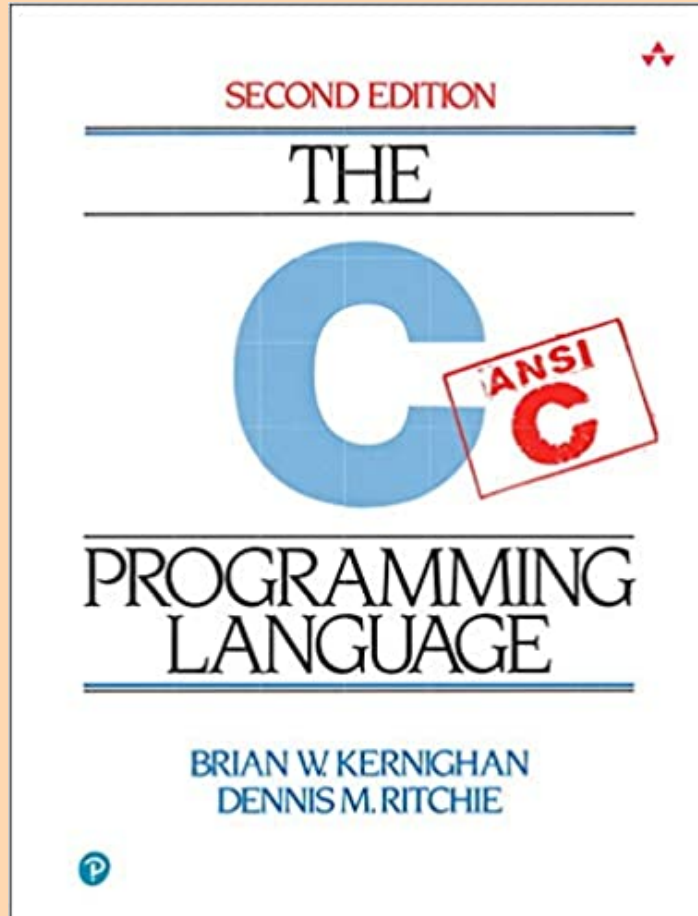
Stephen Prata

Sixth Edition

C Primer Plus

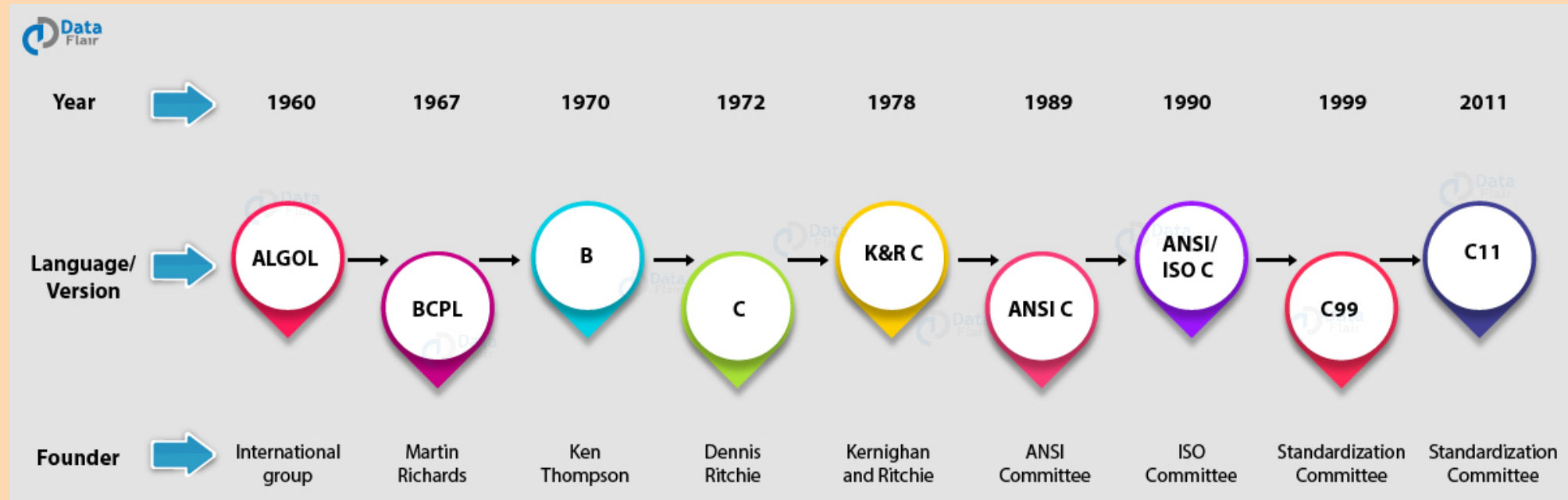


K&R C Bible (1978; 1988)



A Brief History of C

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

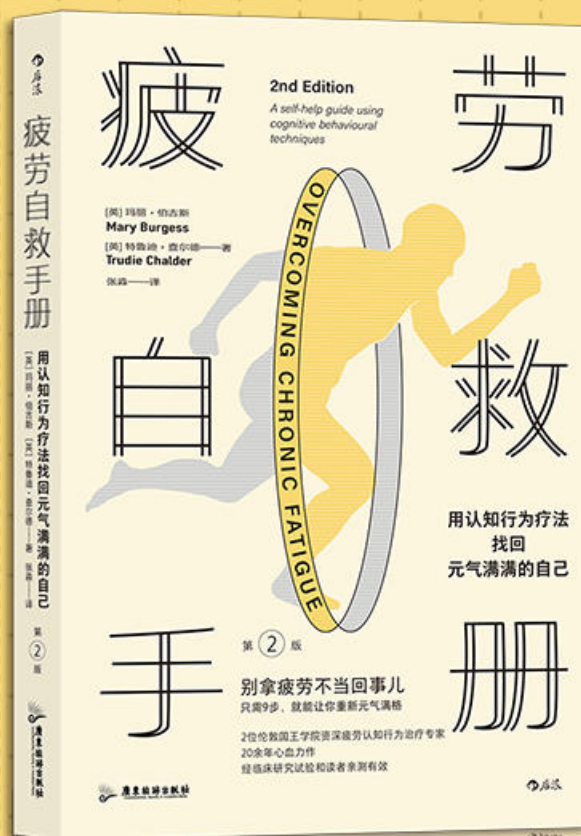


Do *NOT* become a **language lawyer**!



More Books in the Class . . .

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
-

ASK ME ANYTHING

GREAT MINDS
DISCUSS IDEAS

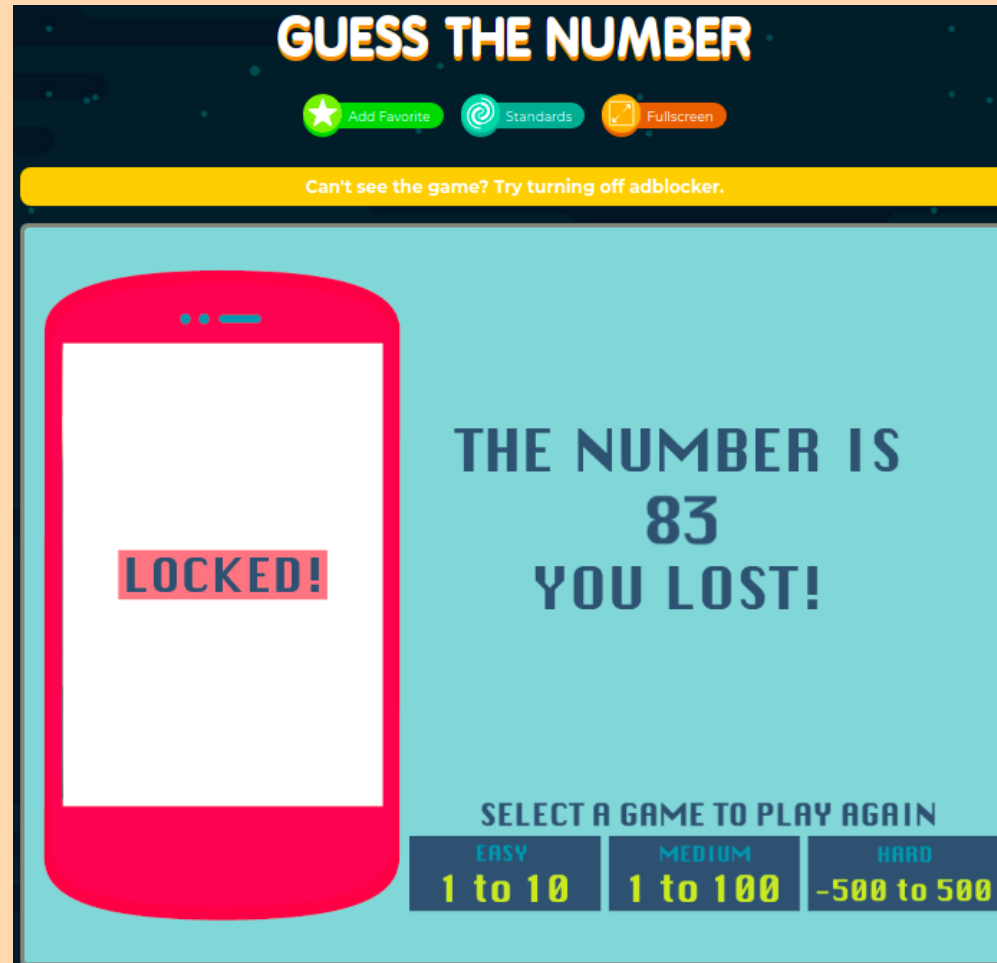
**"TALK IS
CHEAP.
SHOW ME THE
CODE."
-LINUS TORVALDS**

```
<Hello World/>
```

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

Brian Kern

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**

Thank
You!