

Introducton to Programming

Instructors:

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Administrivia

Interactions

Meeting plan:

- ▶ Every Tuesday 14:30 to 16:00.
- ▶ Wednesday from 14:30 to 17:30 lab starting 8th Dec.

Modes of communication:

- ▶ Mailing list.
- ▶ Canvas classroom.
- ▶ Discord server. Informal chat room, but strict moderation.

Submission of assignment programs:

- ▶ Evaluation server “Autojudge”. More details soon.

Grading Scheme

Tentative grading scheme:

Quizzes	30%
Assignments	70%

The above is bound to change. Updates on the Canvas page.

Technical

The programming language we will use is C.

The *compiler* we will use is “gcc” or “clang”.

Three ways to set up the required environment:

- ▶ Linux: Install the gcc package that comes with your distro.
- ▶ Windows: Use MinGW, and install gcc compiler. Or Install Ubuntu.
- ▶ Mac: Use XCode and install the Clang compiler.

Short term option:

- ▶ Online Compiler: <https://replit.com/>

Technical

You will need to setup a [VPN](#) to the IITH campus network.

See this [CC Support](#) page.

All assignments will have to be submitted to an evaluation server that can be accessed *only* via VPN.

You are expected to set up your VPN within 2 weeks!

Questions?

ID1063 Introduction to Programming

Goals of the course:

- ▶ *Computational Thinking*: Learning to think like a computer scientist.
- ▶ Writing medium size programs in C, and debugging your own programs.
- ▶ Understanding code, including that written by others.
- ▶ Writing, and appreciating, *good* code.

By the end of the course, you should be comfortable with the fundamentals of C, and be ready to explore other programming languages on your own.

References

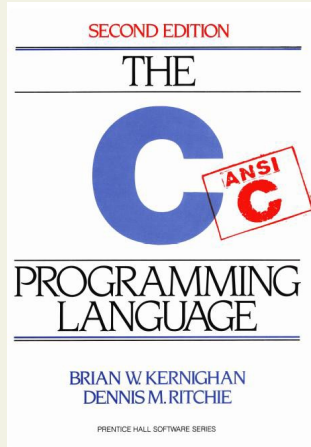


Figure: The C Programming Language by Kernighan and Ritchie

ID1063 Typical Issues:

Heterogeniety

A subset of students are already comfortable with C while others have never done any programming.

- ▶ This course is targetted for the complete beginner.
- ▶ Our Discord server will have TAs who can help you with your questions.

ID1063 Typical Issues:

Bad sources

The internet has too many people trying to teach programming without knowing it themselves.

- ▶ Stick to the references that we point you to.
- ▶ Ask us all your questions. Your seniors will help you as TAs.

ID1063 Typical Issues:

Plagiarism

Taking the work of ~~one of your peers~~ others and trying to pass it off as your own.

- ▶ Mandatory: read the plagiarism policy here: CSE Plagiarism Policy
- ▶ If you are found to have plagiarized *any* of your quizzes or assignments, your final grade is FR (Fail).

We will repeat this warning before your first assignment.

Questions?

Thank you!