

# C programming-2 Month RoadMap



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Goal: Go from beginner → problem solver in just 8 weeks!



Week 1: Build the Foundation

👉 Learn syntax, variables, data types, operators, and basic I/O

🎯 Outcome: You can write your first working C programs!



Week 2: Logic Booster

👉 Master conditional statements (if-else), loops (for, while, do-while), and nested control flows

🎯 Outcome: Solve decision-making & repetitive problems with ease.



Week 3: Power of Functions

👉 Understand functions, recursion, and scope rules

🎯 Outcome: Write reusable code & solve problems with recursion like factorial, Fibonacci.



Week 4: Arrays & Strings Mastery

👉 Dive into arrays, strings, and their manipulation

🎯 Outcome: Work with collections of data and string-based problems.



Week 5: Pointer Magic ✨

👉 Learn pointers, pointer arithmetic, and arrays with pointers

🎯 Outcome: Understand memory deeply (a must for every C programmer).

## Week 6: Structures & Beyond

👉 Work with structures, unions, enums, and typedefs

🎯 Outcome: Start building real-world data models.

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## Week 7: Memory & Files

👉 File handling, dynamic memory allocation (malloc, calloc, free)

🎯 Outcome: Create programs that store and manage large data efficiently.

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## Week 8: Data Structures in C

👉 Solve problems on Linked List, Stack, Queue

🎯 Outcome: Get a strong base for DSA & Competitive Programming.

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## Resources to Follow

🎥 YouTube: CodeWithHarry, Neso Academy, Jenny's Lectures, Apna college

📝 Practice: HackerRank, GeeksforGeeks, Leetcode

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🔥 Tip: Stick to 1 hour daily → Stay consistent → By 2 months, you'll be confident in C & ready for DSA!

