

NPTEL Video Lecture Topic List - Created by LinuXpert Systems, Chennai

NPTEL Video Course - Computer Science and Engineering - NOC:Problem Solving through Programming in C

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Co-ordinating Institute - IIT - Kharagpur

Sub-Titles - Available / Unavailable | MP3 Audio Lectures - Available / Unavailable

- Lecture 1 - Introduction
- Lecture 2 - Idea of Algorithms
- Lecture 3 - Flow Chart and Pseudocode
- Lecture 4 - Introduction to Programming Language Concepts
- Lecture 5 - Variables and Memory
- Lecture 6 - Types of Software and Compilers
- Lecture 7 - Introduction to C Programming Language
- Lecture 8 - Variables and Variable Types in C
- Lecture 9 - Introducing Functions
- Lecture 10 - Address and Content of Variables and Types
- Lecture 11 - Assignment Statement and Operators in C
- Lecture 12 - Arithmetic Expressions and Relational Expressions
- Lecture 13 - Logical Operators and Change in Control Flow
- Lecture 14 - Use of Logical Operatoers in Branching
- Lecture 15 - Branching
- Lecture 16 - IF-ELSE Statement (Continued...)
- Lecture 17 - Switch statement
- Lecture 18 - Switch Statement (Continued...) and Introduction to Loops
- Lecture 19 - Implementing Repetitions (Loops)
- Lecture 20 - Implementation of Loops with for Statement (Continued...)
- Lecture 21 - For Statement (Continued...)
- Lecture 22 - Example of If-Else
- Lecture 23 - Example of Loops
- Lecture 24 - Example of Loops (Continued...)
- Lecture 25 - Example of Loops (Continued...), Use of FOR Loops
- Lecture 26 - Introduction to Arrays
- Lecture 27 - Arrays (Continued...)
- Lecture 28 - Arrays (Continued...)
- Lecture 29 - Program using Arrays

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- Lecture 30 - Array Problem
- Lecture 31 - Linear Search
- Lecture 32 - Character Array and Strings
- Lecture 33 - String Operations
- Lecture 34 - 2-D Array Operation
- Lecture 35 - Introducing Functions
- Lecture 36 - More on Functions
- Lecture 37 - Function (Continued...)
- Lecture 38 - Scanf and Printf Functions; Function Prototype
- Lecture 39 - Parameter Passing in Function Revision
- Lecture 40 - Parameter Passing in Function Revision (Continued...)
- Lecture 41 - Substitution of # include and Macro
- Lecture 42 - search as a function
- Lecture 43 - Binary Search
- Lecture 44 - Binary Search (Continued...)
- Lecture 45 - Sorting Methods
- Lecture 46 - Bubble Sort (Continued...)
- Lecture 47 - Use of Pointer in Function
- Lecture 48 - Arrays at Strings
- Lecture 49 - Data Representation
- Lecture 50 - Bisection Method
- Lecture 51 - Interpolation
- Lecture 52 - Trapezoidal Rule and Runge-Kutta Method
- Lecture 53 - Recursion
- Lecture 54 - Recursion (Continued...)
- Lecture 55 - Structure
- Lecture 56 - Structure (Continued...)
- Lecture 57 - Structure with typedef
- Lecture 58 - Pointer
- Lecture 59 - Pointer (Continued...)
- Lecture 60 - Pointer in Structures
- Lecture 61 - Dynamic Allocation and File