

C++ TUTORIAL

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SESSION 1: A BETTER C

The C++ programming language is introduced as a "better C". Parallel features are contrasted with ANSI C. Differences between C++ and ANSI C are addressed. Special emphasis is given to the formalization of "call by reference", to the executability of declarations and to overloaded operators & functions.

SESSION 2: OBJECT-ORIENTED PROGRAMMING

Object oriented features of C++ are addressed. The principal topics addressed are abstract object classes, inheritance and derived object classes, encapsulation, virtual functions and polymorphism. The topics are elaborated by illustrating the concepts in the context of standard data structures for lists, stacks, queues and strings