Library Overview •

CSE 232 - Dr. Josh Nahum

Reading:

Chapter 9

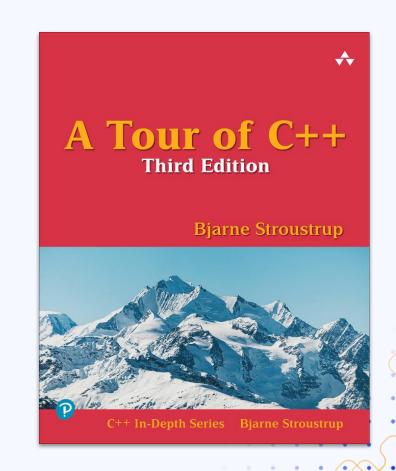


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using namespace std; Ranges

02

C Standard Library

00 using namespace std;

Why avoid "using namespace std;" declarations?



Namespace Pollution

By bringing all of std:: into the global function namespace, it a name makes it much easier to you'll ho accidentally name refactor clash with std.



Upkeep

If you need to add a function that shares a name with something in std, you'll have to refactor your entire project.



Readability

Especially when working with multiple namespaces, if quickly becomes difficult to determine which name is from which library.

01 Ranges



New in C++20



Algorithms

Algorithms (taught in the next few weeks) generally take two iterators to work. All algorithms can use ranges that allow passing of a container directly.



Iceberg

Ranges are a new and powerful feature in C++, but we won't be going into detail here in CSE 232.

O2 C Standard Library

Useful C Std Libraries



<cstdint>

Specific fixed-width integers



<cassert>

The assert "function"



<cfloat>

Useful floating point constants



<cmath>

Trig and other math-related functions and constants



<cctype>

Char-related functions



<cstdio>

C-style IO (notably the printf function)



Attribution

Please ask questions via Piazza

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