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Concordance for Second November, 1997 C++ Working Paper (after the meeting in Morristown, New Jersey)

This document provides a cross-refrerence between absolute section numbers and the corresponding symbolic names used for cross-references within the Working Paper. Its purpose is to make it easier to replace absolute section numbers by their corresponding names, which in turn will make it easier to renumber sections in future versions of the Working Paper.

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Listing by clause number

1	intro	General
1.1	intro.scope	Scope
1.2	intro.refs	Normative references
1.3	intro.compliance	Implementation compliance
1.4	intro.defs	Definitions
1.4.1	defns.argument	argument
1.4.2	defns.diagnostic	diagnostic message
1.4.3	defns.dynamic.type	dynamic type
1.4.4	defns.ill.formed	ill-formed program
1.4.5	defns.impl.defined	implementation-defined behavior
1.4.6	defns.impl.limits	implementation limits
1.4.7	defns.locale.specific	locale-specific behavior
1.4.8	defns.multibyte	multibyte character
1.4.9	defns.parameter	parameter
1.4.10	defns.signature	signature
1.4.11	defns.static.type	static type
1.4.12	defns.undefined	undefined behavior
1.4.13	defns.unspecified	unspecified behavior
1.4.14	defns.well.formed	well-formed program
1.5	syntax	Syntax notation
1.6	intro.memory	The C++ memory model
1.7	intro.object	The C++ object model
1.8	intro.execution	Program execution
1.9	intro.ack	Acknowledgments
2	lex	Lexical conventions
2.1	lex.phases	Phases of translation
2.2	lex.charset	Character sets
2.3	lex.trigraph	Trigraph sequences
2.4	lex.pptoken	Preprocessing tokens
2.5	lex.digraph	Alternative tokens
2.6	lex.token	Tokens
2.7	lex.comment	Comments
2.8	lex.header	Header names
2.9	lex.ppnumber	Preprocessing numbers
2.10	lex.name	Identifiers
2.11	lex.key	Keywords
2.12	lex.operators	Operators and punctuators
2.13	lex.literal	Literals
2.13.1	lex.icon	Integer literals
2.13.2	lex.ccon	Character literals
2.13.3	lex.fcon	Floating literals
2.13.4	lex.string	String literals
2.13.5	lex.bool	Boolean literals
3	basic	Basic concepts
3.1	basic.def	Declarations and definitions
3.2	basic.def.odr	One definition rule
3.3	basic.scope	Declarative regions and scopes
3.3.1	basic.scope.pdecl	Point of declaration
3.3.2	basic.scope.local	Local scope
3.3.3	basic.scope.proto	Function prototype scope
3.3.4	basic.funscope	Function scope
3.3.5	basic.scope.namespace	Namespace scope
3.3.6	basic.scope.class	Class scope

3.3.7	basic.scope.hiding	Name hiding
3.4	basic.lookup	Name lookup
3.4.1	basic.lookup.unqual	Unqualified name lookup
3.4.2	basic.lookup.koenig	Argument-dependent name lookup
3.4.3	basic.lookup.qual	Qualified name lookup
3.4.3.1	class.qual	Class members
3.4.3.2	namespace.qual	Namespace members
3.4.4	basic.lookup.elab	Elaborated type specifiers
3.4.5	basic.lookup.classref	Class member access
3.4.6	basic.lookup.udir	Using-directives and namespace aliases
3.5	basic.link	Program and linkage
3.6	basic.start	Start and termination
3.6.1	basic.start.main	Main function
3.6.2	basic.start.init	Initialization of non-local objects
3.6.3	basic.start.term	Termination
3.7	basic.stc	Storage duration
3.7.1	basic.stc.static	Static storage duration
3.7.2	basic.stc.auto	Automatic storage duration
3.7.3	basic.stc.dynamic	Dynamic storage duration
3.7.3.1	basic.stc.dynamic.allocation	Allocation functions
3.7.3.2	basic.stc.dynamic.deallocation	Deallocation functions
3.7.4	basic.stc.inherit	Duration of sub-objects
3.8	basic.life	Object Lifetime
3.9	basic.types	Types
3.9.1	basic.fundamental	Fundamental types
3.9.2	basic.compound	Compound types
3.9.3	basic.type.qualifier	CV-qualifiers
3.10	basic.lval	Lvalues and rvalues
4	conv	Standard conversions
4.1	conv.lval	Lvalue-to-rvalue conversion
4.2	conv.array	Array-to-pointer conversion
4.3	conv.func	Function-to-pointer conversion
4.4	conv.qual	Qualification conversions
4.5	conv.prom	Integral promotions
4.6	conv.fpprom	Floating point promotion
4.7	conv.integral	Integral conversions
4.8	conv.double	Floating point conversions
4.9	conv.fpint	Floating-integral conversions
4.10	conv.ptr	Pointer conversions
4.11	conv.mem	Pointer to member conversions
4.12	conv.bool	Boolean conversions
5	expr	Expressions
5.1	expr.prim	Primary expressions
5.2	expr.post	Postfix expressions
5.2.1	expr.sub	Subscripting
5.2.2	expr.call	Function call
5.2.3	expr.type.conv	Explicit type conversion (functional notation)
5.2.4	expr.pseudo	Pseudo destructor call
5.2.5	expr.ref	Class member access
5.2.6	expr.post.incr	Increment and decrement
5.2.7	expr.dynamic.cast	Dynamic cast
5.2.8	expr.typeid	Type identification
5.2.9	expr.static.cast	Static cast
5.2.10	expr.reinterpret.cast	Reinterpret cast

5.2.11	expr.const.cast	Const cast
5.3	expr.unary	Unary expressions
5.3.1	expr.unary.op	Unary operators
5.3.2	expr.pre.incr	Increment and decrement
5.3.3	expr.sizeof	Sizeof
5.3.4	expr.new	New
5.3.5	expr.delete	Delete
5.4	expr.cast	Explicit type conversion (cast notation)
5.5	expr.mptr.oper	Pointer-to-member operators
5.6	expr.mul	Multiplicative operators
5.7	expr.add	Additive operators
5.8	expr.shift	Shift operators
5.9	expr.rel	Relational operators
5.10	expr.eq	Equality operators
5.11	expr.bit.and	Bitwise AND operator
5.12	expr.xor	Bitwise exclusive OR operator
5.13	expr.or	Bitwise inclusive OR operator
5.14	expr.log.and	Logical AND operator
5.15	expr.log.or	Logical OR operator
5.16	expr.cond	Conditional operator
5.17	expr.ass	Assignment operators
5.18	expr.comma	Comma operator
5.19	expr.const	Constant expressions
6	stmt.stmt	Statements
6.1	stmt.label	Labeled statement
6.2	stmt.expr	Expression statement
6.3	stmt.block	Compound statement or block
6.4	stmt.select	Selection statements
6.4.1	stmt.if	The `if` statement
6.4.2	stmt.switch	The `switch` statement
6.5	stmt.iter	Iteration statements
6.5.1	stmt.while	The `while` statement
6.5.2	stmt.do	The `do` statement
6.5.3	stmt.for	The `for` statement
6.6	stmt.jump	Jump statements
6.6.1	stmt.break	The `break` statement
6.6.2	stmt.cont	The `continue` statement
6.6.3	stmt.return	The `return` statement
6.6.4	stmt.goto	The `goto` statement
6.7	stmt.dcl	Declaration statement
6.8	stmt.ambig	Ambiguity resolution
7	dcl.dcl	Declarations
7.1	dcl.spec	Specifiers
7.1.1	dcl.stc	Storage class specifiers
7.1.2	dcl.fct.spec	Function specifiers
7.1.3	dcl.typedef	The `typedef` specifier
7.1.4	dcl.friend	The `friend` specifier
7.1.5	dcl.type	Type specifiers
7.1.5.1	dcl.type.cv	The *cv-qualifiers*
7.1.5.2	dcl.type.simple	Simple type specifiers
7.1.5.3	dcl.type.elab	Elaborated type specifiers
7.2	dcl.enum	Enumeration declarations
7.3	basic.namespace	Namespaces
7.3.1	namespace.def	Namespace definition
7.3.1.1	namespace.unnamed	Unnamed namespaces

7.3.1.2	namespace.memdef	Namespace member definitions
7.3.2	namespace.alias	Namespace alias
7.3.3	namespace.udecl	The using declaration
7.3.4	namespace.udir	Using directive
7.4	dcl.asm	The asm declaration
7.5	dcl.link	Linkage specifications
8	dcl.decl	Declarators
8.1	dcl.name	Type names
8.2	dcl.ambig.res	Ambiguity resolution
8.3	dcl.meaning	Meaning of declarators
8.3.1	dcl.ptr	Pointers
8.3.2	dcl.ref	References
8.3.3	dcl.mptr	Pointers to members
8.3.4	dcl.array	Arrays
8.3.5	dcl.fct	Functions
8.3.6	dcl.fct.default	Default arguments
8.4	dcl.fct.def	Function definitions
8.5	dcl.init	Initializers
8.5.1	dcl.init.aggr	Aggregates
8.5.2	dcl.init.string	Character arrays
8.5.3	dcl.init.ref	References
9	class	Classes
9.1	class.name	Class names
9.2	class.mem	Class members
9.3	class.mfct	Member functions
9.3.1	class.mfct.nonstatic	Nonstatic member functions
9.3.2	class.this	The this pointer
9.4	class.static	Static members
9.4.1	class.static.mfct	Static member functions
9.4.2	class.static.data	Static data members
9.5	class.union	Unions
9.6	class.bit	Bit-fields
9.7	class.nest	Nested class declarations
9.8	class.local	Local class declarations
9.9	class.nested.type	Nested type names
10	class.derived	Derived classes
10.1	class.mi	Multiple base classes
10.2	class.member.lookup	Member name lookup
10.3	class.virtual	Virtual functions
10.4	class.abstract	Abstract classes
11	class.access	Member access control
11.1	class.access.spec	Access specifiers
11.2	class.access.base	Accessibility of base classes and base class members
11.3	class.access.dcl	Access declarations
11.4	class.friend	Friends
11.5	class.protected	Protected member access
11.6	class.access.virt	Access to virtual functions
11.7	class.paths	Multiple access
11.8	class.access.nest	Nested classes
12	special	Special member functions
12.1	class.ctor	Constructors
12.2	class.temporary	Temporary objects
12.3	class.conv	Conversions
12.3.1	class.conv.ctor	Conversion by constructor

12.3.2	class.conv.fct	Conversion functions
12.4	class.dtor	Destructors
12.5	class.free	Free store
12.6	class.init	Initialization
12.6.1	class.expl.init	Explicit initialization
12.6.2	class.base.init	Initializing bases and members
12.7	class.cdtor	Construction and destruction
12.8	class.copy	Copying class objects
13	over	Overloading
13.1	over.load	Overloadable declarations
13.2	over.dcl	Declaration matching
13.3	over.match	Overload resolution
13.3.1	over.match.funcs	Candidate functions and argument lists
13.3.1.1	over.match.call	Function call syntax
13.3.1.1.1	over.call.func	Call to named function
13.3.1.1.2	over.call.object	Call to object of class type
13.3.1.2	over.match.oper	Operators in expressions
13.3.1.3	over.match.ctor	Initialization by constructor
13.3.1.4	over.match.copy	Copy-initialization of class by user-defined conversion
13.3.1.5	over.match.conv	Initialization by conversion function
13.3.1.6	over.match.ref	Initialization by conversion function for direct reference binding
13.3.2	over.match.viable	Viable functions
13.3.3	over.match.best	Best Viable Function
13.3.3.1	over.best.ics	Implicit conversion sequences
13.3.3.1.1	over.ics.scs	Standard conversion sequences
13.3.3.1.2	over.ics.user	User-defined conversion sequences
13.3.3.1.3	over.ics.ellipsis	Ellipsis conversion sequences
13.3.3.1.4	over.ics.ref	Reference binding
13.3.3.2	over.ics.rank	Ranking implicit conversion sequences
13.4	over.over	Address of overloaded function
13.5	over.oper	Overloaded operators
13.5.1	over.unary	Unary operators
13.5.2	over.binary	Binary operators
13.5.3	over.ass	Assignment
13.5.4	over.call	Function call
13.5.5	over.sub	Subscripting
13.5.6	over.ref	Class member access
13.5.7	over.inc	Increment and decrement
13.6	over.built	Built-in operators
14	temp	Templates
14.1	temp.param	Template parameters
14.2	temp.names	Names of template specializations
14.3	temp.arg	Template arguments
14.3.1	temp.arg.type	Template type arguments
14.3.2	temp.arg.nontype	Template non-type arguments
14.3.3	temp.arg.template	Template template arguments
14.4	temp.type	Type equivalence
14.5	temp.decls	Template declarations
14.5.1	temp.class	Class templates
14.5.1.1	temp.mem.func	Member functions of class templates
14.5.1.2	temp.mem.class	Member classes of class templates
14.5.1.3	temp.static	Static data members of class templates
14.5.2	temp.mem	Member templates

14.5.3	temp.friend	Friends
14.5.4	temp.class.spec	Class template partial specializations
14.5.4.1	temp.class.spec.match	Matching of class template partial specializations
14.5.4.2	temp.class.order	Partial ordering of class template specializations
14.5.4.3	temp.class.spec.mfunc	Members of class template specializations
14.5.5	temp.fct	Function templates
14.5.5.1	temp.over.link	Function template overloading
14.5.5.2	temp.func.order	Partial ordering of function templates
14.6	temp.res	Name resolution
14.6.1	temp.local	Locally declared names
14.6.2	temp.dep	Dependent names
14.6.2.1	temp.dep.type	Dependent types
14.6.2.2	temp.dep.expr	Type-dependent expressions
14.6.2.3	temp.dep.constexpr	Value-dependent expressions
14.6.2.4	temp.dep.temp	Dependent template arguments
14.6.3	temp.nondep	Non-dependent names
14.6.4	temp.dep.res	Dependent name resolution
14.6.4.1	temp.point	Point of instantiation
14.6.4.2	temp.dep.candidate	Candidate functions
14.6.5	temp.inject	Friend names declared within a class template
14.7	temp.spec	Template instantiation and specialization
14.7.1	temp.inst	Implicit instantiation
14.7.2	temp.explicit	Explicit instantiation
14.7.3	temp.expl.spec	Explicit specialization
14.8	temp.fct.spec	Function template specializations
14.8.1	temp.arg.explicit	Explicit template argument specification
14.8.2	temp.deduct	Template argument deduction
14.8.2.1	temp.deduct.call	Deducing template arguments from a function call
14.8.2.2	temp.deduct.funcaddr	Deducing template arguments taking the address of a function template
14.8.2.3	temp.deduct.conv	Deducing conversion function template arguments
14.8.2.4	temp.deduct.type	Deducing template arguments from a type
14.8.3	temp.over	Overload resolution
15	except	Exception handling
15.1	except.throw	Throwing an exception
15.2	except.ctor	Constructors and destructors
15.3	except.handle	Handling an exception
15.4	except.spec	Exception specifications
15.5	except.special	Special functions
15.5.1	except.terminate	The `terminate()` function
15.5.2	except.unexpected	The `unexpected()` function
15.5.3	except.uncaught	The `uncaught_exception()` function
15.6	except.access	Exceptions and access
16	cpp	Preprocessing directives
16.1	cpp.cond	Conditional inclusion
16.2	cpp.include	Source file inclusion
16.3	cpp.replace	Macro replacement
16.3.1	cpp.subst	Argument substitution
16.3.2	cpp.stringize	The # operator
16.3.3	cpp.concat	The ## operator
16.3.4	cpp.rescan	Rescanning and further replacement
16.3.5	cpp.scope	Scope of macro definitions

16.4	cpp.line	Line control
16.5	cpp.error	Error directive
16.6	cpp.pragma	Pragma directive
16.7	cpp.null	Null directive
16.8	cpp.predefined	Predefined macro names
17	lib.library	Library introduction
17.1	lib.definitions	Definitions
17.1.1	defns.arbitrary.stream	arbitrary-positional stream
17.1.2	defns.character	character
17.1.3	defns.character.container	character container type
17.1.4	defns.comparison	comparison function
17.1.5	defns.component	component
17.1.6	defns.default.behavior	default behavior
17.1.7	defns.handler	handler function
17.1.8	defns.iostream.templates	iostream class templates
17.1.9	defns.modifier	modifier function
17.1.10	defns.obj.state	object state
17.1.11		narrow-oriented iostream classes
17.1.12	defns.ntcts	NTCTS
17.1.13	defns.observer	observer function
17.1.14	defns.replacement	replacement function
17.1.15	defns.required.behavior	required behavior
17.1.16	defns.repositional.stream	repositional stream
17.1.17	defns.reserved.function	reserved function
17.1.18	defns.traits	traits class
17.1.19		wide-oriented iostream classes
17.2	defns.additional	Additional definitions
17.3	lib.description	Method of description (Informative)
17.3.1	lib.structure	Structure of each subclause
17.3.1.1	lib.structure.summary	Summary
17.3.1.2	lib.structure.requirements	Requirements
17.3.1.3	lib.structure.specifications	Specifications
17.3.1.4	lib.structure.see.also	C Library
17.3.2	lib.conventions	Other conventions
17.3.2.1	lib.type.descriptions	Type descriptions
17.3.2.1.1	lib.enumerated.types	Enumerated types
17.3.2.1.2	lib.bitmask.types	Bitmask types
17.3.2.1.3	lib.character.seq	Character sequences
17.3.2.1.3.1	lib.byte.strings	Byte strings
17.3.2.1.3.2	lib.multibyte.strings	Multibyte strings
17.3.2.1.3.3	lib.wide.characters	Wide-character sequences
17.3.2.2	lib.functions.within.classes	Functions within classes
17.3.2.3	lib.objects.within.classes	Private members
17.4	lib.requirements	Library-wide requirements
17.4.1	lib.organization	Library contents and organization
17.4.1.1	lib.contents	Library contents
17.4.1.2	lib.headers	Headers
17.4.1.3	lib.compliance	Freestanding implementations
17.4.2	lib.using	Using the library
17.4.2.1	lib.using.headers	Headers
17.4.2.2	lib.using.linkage	Linkage
17.4.3	lib.constraints	Constraints on programs
17.4.3.1	lib.reserved.names	Reserved names
17.4.3.1.1	lib.macro.names	Macro names
17.4.3.1.2	lib.global.names	Global names

17.4.3.1.3	lib.extern.names	External linkage
17.4.3.1.4	lib.extern.types	Types
17.4.3.2	lib.alt.headers	Headers
17.4.3.3	lib.derived.classes	Derived classes
17.4.3.4	lib.replacement.functions	Replacement functions
17.4.3.5	lib.handler.functions	Handler functions
17.4.3.6	lib.res.on.functions	Other functions
17.4.3.7	lib.res.on.arguments	Function arguments
17.4.3.8	lib.res.on.required	Required paragraph
17.4.4	lib.conforming	Conforming implementations
17.4.4.1	lib.res.on.headers	Headers
17.4.4.2	lib.res.on.macro.definitions	Restrictions on macro definitions
17.4.4.3	lib.global.functions	Global functions
17.4.4.4	lib.member.functions	Member functions
17.4.4.5	lib.reentrancy	Reentrancy
17.4.4.6	lib.protection.within.classes	Protection within classes
17.4.4.7	lib.derivation	Derived classes
17.4.4.8	lib.res.on.exception.handling	Restrictions on exception handling
18	lib.language.support	Language support library
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18.2	lib.support.limits	Implementation properties
18.2.1	lib.limits	Numeric limits
18.2.1.1	lib.numeric.limits	Template class `numeric_limits`
18.2.1.2	lib.numeric.limits.members	`numeric_limits` members
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18.3	lib.support.start.term	Start and termination
18.4	lib.support.dynamic	Dynamic memory management
18.4.1	lib.new.delete	Storage allocation and deallocation
18.4.1.1	lib.new.delete.single	Single-object forms
18.4.1.2	lib.new.delete.array	Array forms
18.4.1.3	lib.new.delete.placement	Placement forms
18.4.2	lib.alloc.errors	Storage allocation errors
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18.4.2.2	lib.new.handler	Type `new_handler`
18.4.2.3	lib.set.new.handler	`set_new_handler`
18.5	lib.support.rtti	Type identification
18.5.1	lib.type.info	Class `type_info`
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18.5.3	lib.bad.typeid	Class `bad_typeid`
18.6	lib.support.exception	Exception handling
18.6.1	lib.exception	Class `exception`
18.6.2	lib.exception.unexpected	Violating *`exception-specifications`*
18.6.2.1	lib.bad.exception	Class `bad_exception`
18.6.2.2	lib.unexpected.handler	Type `unexpected_handler`
18.6.2.3	lib.set.unexpected	`set_unexpected`
18.6.2.4	lib.unexpected	`unexpected`
18.6.3	lib.exception.terminate	Abnormal termination
18.6.3.1	lib.terminate.handler	Type `terminate_handler`
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18.7	lib.support.runtime	Other runtime support

19	lib.diagnostics	Diagnostics library
19.1	lib.std.exceptions	Exception classes
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19.1.2	lib.domain.error	Class `domain_error`
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19.1.4	lib.length.error	Class `length_error`
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19.1.6	lib.runtime.error	Class `runtime_error`
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19.2	lib.assertions	Assertions
19.3	lib.errno	Error numbers
20	lib.utilities	General utilities library
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20.1.3	lib.copyconstructible	Copy construction
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20.1.5	lib.allocator.requirements	Allocator requirements
20.2	lib.utility	Utility components
20.2.1	lib.operators	Operators
20.2.2	lib.pairs	Pairs
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20.3.1	lib.base	Base
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20.3.5	lib.negators	Negators
20.3.6	lib.binders	Binders
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20.3.6.2	lib.bind.1st	`bind1st`
20.3.6.3	lib.binder.2nd	Template class `binder2nd`
20.3.6.4	lib.bind.2nd	`bind2nd`
20.3.7	lib.function.pointer.adaptors	Adaptors for pointers to functions
20.3.8	lib.member.pointer.adaptors	Adaptors for pointers to members
20.4	lib.memory	Memory
20.4.1	lib.default.allocator	The default allocator
20.4.1.1	lib.allocator.members	`allocator` members
20.4.1.2	lib.allocator.globals	`allocator` globals
20.4.2	lib.storage.iterator	Raw storage iterator
20.4.3	lib.temporary.buffer	Temporary buffers
20.4.4	lib.specialized.algorithms	Specialized algorithms
20.4.4.1	lib.uninitialized.copy	`uninitialized_copy`
20.4.4.2	lib.uninitialized.fill	`uninitialized_fill`
20.4.4.3	lib.uninitialized.fill.n	`uninitialized_fill_n`
20.4.5	lib.auto.ptr	Template class `auto_ptr`
20.4.5.1	lib.auto.ptr.cons	`auto_ptr` constructors
20.4.5.2	lib.auto.ptr.members	`auto_ptr` members
20.4.5.3	lib.auto.ptr.conv	`auto_ptr` conversions
20.4.6	lib.c.malloc	C Library
20.5	lib.date.time	Date and time
21	lib.strings	Strings library
21.1	lib.char.traits	Character traits
21.1.1	lib.char.traits.require	Character traits requirements

21.1.2	lib.char.traits.typedefs	traits typedefs
21.1.3	lib.char.traits.specializations	`char_traits` specializations
21.1.3.1	lib.char.traits.specializations.char	`struct char_traits<char>`
21.1.3.2	lib.char.traits.specializations.wchar.t	`struct char_traits<wchar_t>`
21.2	lib.string.classes	String classes
21.3	lib.basic.string	Template class `basic_string`
21.3.1	lib.string.cons	`basic_string` constructors
21.3.2	lib.string.iterators	`basic_string` iterator support
21.3.3	lib.string.capacity	`basic_string` capacity
21.3.4	lib.string.access	`basic_string` element access
21.3.5	lib.string.modifiers	`basic_string` modifiers
21.3.5.1	lib.string::op+=	`basic_string::operator+=`
21.3.5.2	lib.string::append	`basic_string::append`
21.3.5.3	lib.string::assign	`basic_string::assign`
21.3.5.4	lib.string::insert	`basic_string::insert`
21.3.5.5	lib.string::erase	`basic_string::erase`
21.3.5.6	lib.string::replace	`basic_string::replace`
21.3.5.7	lib.string::copy	`basic_string::copy`
21.3.5.8	lib.string::swap	`basic_string::swap`
21.3.6	lib.string.ops	`basic_string` string operations
21.3.6.1	lib.string::find	`basic_string::find`
21.3.6.2	lib.string::rfind	`basic_string::rfind`
21.3.6.3	lib.string::find.first.of	`basic_string::find_first_of`
21.3.6.4	lib.string::find.last.of	`basic_string::find_last_of`
21.3.6.5	lib.string::find.first.not.of	`basic_string::find_first_not_of`
21.3.6.6	lib.string::find.last.not.of	`basic_string::find_last_not_of`
21.3.6.7	lib.string::substr	`basic_string::substr`
21.3.6.8	lib.string::compare	`basic_string::compare`
21.3.7	lib.string.nonmembers	`basic_string` non-member functions
21.3.7.1	lib.string::op+	`operator+`
21.3.7.2	lib.string::operator==	`operator==`
21.3.7.3	lib.string::op!=	`operator!=`
21.3.7.4	lib.string::op<	`operator<`
21.3.7.5	lib.string::op>	`operator>`
21.3.7.6	lib.string::op<=	`operator<=`
21.3.7.7	lib.string::op>=	`operator>=`
21.3.7.8	lib.string.special	`swap`
21.3.7.9	lib.string.io	Inserters and extractors
21.4	lib.c.strings	Null-terminated sequence utilities
22	lib.localization	Localization library
22.1	lib.locales	Locales
22.1.1	lib.locale	Class `locale`
22.1.1.1	lib.locale.types	`locale` types
22.1.1.1.1	lib.locale.category	Type `locale::category`
22.1.1.1.2	lib.locale.facet	Class `locale::facet`
22.1.1.1.3	lib.locale.id	Class `locale::id`
22.1.1.2	lib.locale.cons	`locale` constructors and destructor
22.1.1.3	lib.locale.members	`locale` members
22.1.1.4	lib.locale.operators	`locale` operators
22.1.1.5	lib.locale.statics	`locale` static members
22.1.2	lib.locale.global.templates	`locale` globals
22.1.3	lib.locale.convenience	Convenience interfaces
22.1.3.1	lib.classification	Character classification

22.1.3.2	lib.conversions	Character conversions
22.2	lib.locale.categories	Standard `locale` categories
22.2.1	lib.category.ctype	The `ctype` category
22.2.1.1	lib.locale.ctype	Template class `ctype`
22.2.1.1.1	lib.locale.ctype.members	`ctype` members
22.2.1.1.2	lib.locale.ctype.virtuals	`ctype` virtual functions
22.2.1.2	lib.locale.ctype.byname	Template class `ctype_byname`
22.2.1.3	lib.facet.ctype.special	`ctype` specializations
22.2.1.3.1	lib.facet.ctype.char.dtor	`ctype<char>` destructor
22.2.1.3.2	lib.facet.ctype.char.members	`ctype<char>` members
22.2.1.3.3	lib.facet.ctype.char.statics	`ctype<char>` static members
22.2.1.3.4	lib.facet.ctype.char.virtuals	`ctype<char>` virtual functions
22.2.1.4	lib.locale.ctype.byname.special	Class ctype_byname<char>
22.2.1.5	lib.locale.codecvt	Template class `codecvt`
22.2.1.5.1	lib.locale.codecvt.members	`codecvt` members
22.2.1.5.2	lib.locale.codecvt.virtuals	`codecvt` virtual functions
22.2.1.6	lib.locale.codecvt.byname	Template class `codecvt_byname`
22.2.2	lib.category.numeric	The numeric category
22.2.2.1	lib.locale.num.get	Template class `num_get`
22.2.2.1.1	lib.facet.num.get.members	`num_get` members
22.2.2.1.2	lib.facet.num.get.virtuals	`num_get` virtual functions
22.2.2.2	lib.locale.nm.put	Template class `num_put`
22.2.2.2.1	lib.facet.num.put.members	`num_put` members
22.2.2.2.2	lib.facet.num.put.virtuals	`num_put` virtual functions
22.2.3	lib.facet.numpunct	The numeric punctuation facet
22.2.3.1	lib.locale.numpunct	Template class `numpunct`
22.2.3.1.1	lib.facet.numpunct.members	`numpunct` members
22.2.3.1.2	lib.facet.numpunct.virtuals	`numpunct` virtual functions
22.2.3.2	lib.locale.numpunct.byname	Template class `numpunct_byname`
22.2.4	lib.category.collate	The collate category
22.2.4.1	lib.locale.collate	Template class `collate`
22.2.4.1.1	lib.locale.collate.members	`collate` members
22.2.4.1.2	lib.locale.collate.virtuals	`collate` virtual functions
22.2.4.2	lib.locale.collate.byname	Template class `collate_byname`
22.2.5	lib.category.time	The time category
22.2.5.1	lib.locale.time.get	Template class `time_get`
22.2.5.1.1	lib.locale.time.get.members	`time_get` members
22.2.5.1.2	lib.locale.time.get.virtuals	`time_get` virtual functions
22.2.5.2	lib.locale.time.get.byname	Template class `time_get_byname`
22.2.5.3	lib.locale.time.put	Template class `time_put`
22.2.5.3.1	lib.locale.time.put.members	`time_put` members
22.2.5.3.2	lib.locale.time.put.virtuals	`time_put` virtual functions
22.2.5.4	lib.locale.time.put.byname	Template class `time_put_byname`
22.2.6	lib.category.monetary	The monetary category
22.2.6.1	lib.locale.money.get	Template class `money_get`
22.2.6.1.1	lib.locale.money.get.members	`money_get` members
22.2.6.1.2	lib.locale.money.get.virtuals	`money_get` virtual functions
22.2.6.2	lib.locale.money.put	Template class `money_put`
22.2.6.2.1	lib.locale.money.put.members	`money_put` members
22.2.6.2.2	lib.locale.money.put.virtuals	`money_put` virtual functions
22.2.6.3	lib.locale.moneypunct	Template class `moneypunct`
22.2.6.3.1	lib.locale.moneypunct.members	

		moneypunct members
22.2.6.3.2	lib.locale.moneypunct.virtuals	moneypunct virtual functions
22.2.6.4	lib.locale.moneypunct.byname	Template class moneypunct_byname
22.2.7	lib.category.messages	The message retrieval category
22.2.7.1	lib.locale.messages	Template class messages
22.2.7.1.1	lib.locale.messages.members	messages members
22.2.7.1.2	lib.locale.messages.virtuals	messages virtual functions
22.2.7.2	lib.locale.messages.byname	Template class messages_byname
22.2.8	lib.facets.examples	Program-defined facets
22.3	lib.c.locales	C Library Locales
23	lib.containers	Containers library
23.1	lib.container.requirements	Container requirements
23.1.1	lib.sequence.reqmts	Sequences
23.1.2	lib.associative.reqmts	Associative containers
23.2	lib.sequences	Sequences
23.2.1	lib.deque	Template class deque
23.2.1.1	lib.deque.cons	deque constructors, copy, and assignment
23.2.1.2	lib.deque.capacity	deque capacity
23.2.1.3	lib.deque.modifiers	deque modifiers
23.2.1.4	lib.deque.special	deque specialized algorithms
23.2.2	lib.list	Template class list
23.2.2.1	lib.list.cons	list constructors, copy, and assignment
23.2.2.2	lib.list.capacity	list capacity
23.2.2.3	lib.list.modifiers	list modifiers
23.2.2.4	lib.list.ops	list operations
23.2.2.5	lib.list.special	list specialized algorithms
23.2.3	lib.container.adaptors	Container adaptors
23.2.3.1	lib.queue	Template class queue
23.2.3.2	lib.priority.queue	Template class priority_queue
23.2.3.2.1	lib.priqueue.cons	priority_queue constructors
23.2.3.2.2	lib.priqueue.members	priority_queue members
23.2.3.3	lib.stack	Template class stack
23.2.4	lib.vector	Template class vector
23.2.4.1	lib.vector.cons	vector constructors, copy, and assignment
23.2.4.2	lib.vector.capacity	vector capacity
23.2.4.3	lib.vector.modifiers	vector modifiers
23.2.4.4	lib.vector.special	vector specialized algorithms
23.2.5	lib.vector.bool	Class vector<bool>
23.3	lib.associative	Associative containers
23.3.1	lib.map	Template class map
23.3.1.1	lib.map.cons	map constructors, copy, and assignment
23.3.1.2	lib.map.access	map element access
23.3.1.3	lib.map.ops	map operations
23.3.1.4	lib.map.special	map specialized algorithms
23.3.2	lib.multimap	Template class multimap
23.3.2.1	lib.multimap.cons	multimap constructors
23.3.2.2	lib.multimap.ops	multimap operations
23.3.2.3	lib.multimap.special	multimap specialized algorithms
23.3.3	lib.set	Template class set
23.3.3.1	lib.set.cons	set constructors, copy, and assignment
23.3.3.2	lib.set.special	set specialized algorithms
23.3.4	lib.multiset	Template class multiset
23.3.4.1	lib.multiset.cons	multiset constructors

23.3.4.2	lib.multiset.special	multiset specialized algorithms
23.3.5	lib.template.bitset	Template class bitset
23.3.5.1	lib.bitset.cons	bitset constructors
23.3.5.2	lib.bitset.members	bitset members
23.3.5.3	lib.bitset.operators	bitset operators
24	lib.iterators	Iterators library
24.1	lib.iterator.requirements	Iterator requirements
24.1.1	lib.input.iterators	Input iterators
24.1.2	lib.output.iterators	Output iterators
24.1.3	lib.forward.iterators	Forward iterators
24.1.4	lib.bidirectional.iterators	Bidirectional iterators
24.1.5	lib.random.access.iterators	Random access iterators
24.2	lib.iterator.synopsis	Header <iterator> synopsis
24.3	lib.iterator.primitives	Iterator primitives
24.3.1	lib.iterator.traits	Iterator traits
24.3.2	lib.iterator.basic	Basic iterator
24.3.3	lib.std.iterator.tags	Standard iterator tags
24.3.4	lib.iterator.operations	Iterator operations
24.4	lib.predef.iterators	Predefined iterators
24.4.1	lib.reverse.iterators	Reverse iterators
24.4.1.1	lib.reverse.iterator	Template class reverse_iterator
24.4.1.2	lib.reverse.iter.requirements	reverse_iterator requirements
24.4.1.3	lib.reverse.iter.ops	reverse_iterator operations
24.4.1.3.1	lib.reverse.iter.cons	reverse_iterator constructor
24.4.1.3.2	lib.reverse.iter.conv	Conversion
24.4.1.3.3	lib.reverse.iter.op.star	operator*
24.4.1.3.4	lib.reverse.iter.opref	operator->
24.4.1.3.5	lib.reverse.iter.op++	operator++
24.4.1.3.6	lib.reverse.iter.op--	operator--
24.4.1.3.7	lib.reverse.iter.op+	operator+
24.4.1.3.8	lib.reverse.iter.op+=	operator+=
24.4.1.3.9	lib.reverse.iter.op-	operator-
24.4.1.3.10	lib.reverse.iter.op-=	operator-=
24.4.1.3.11	lib.reverse.iter.opindex	operator[]
24.4.1.3.12	lib.reverse.iter.op==	operator==
24.4.1.3.13	lib.reverse.iter.op<	operator<
24.4.1.3.14	lib.reverse.iter.op!=	operator!=
24.4.1.3.15	lib.reverse.iter.op>	operator>
24.4.1.3.16	lib.reverse.iter.op>=	operator>=
24.4.1.3.17	lib.reverse.iter.op<=	operator<=
24.4.1.3.18	lib.reverse.iter.opdiff	operator-
24.4.1.3.19	lib.reverse.iter.opsum	operator+
24.4.2	lib.insert.iterators	Insert iterators
24.4.2.1	lib.back.insert.iterator	Template class back_insert_iterator
24.4.2.2	lib.back.insert.iter.ops	back_insert_iterator operations
24.4.2.2.1	lib.back.insert.iter.cons	back_insert_iterator constructor
24.4.2.2.2	lib.back.insert.iter.op=	back_insert_iterator::operator=
24.4.2.2.3	lib.back.insert.iter.op*	back_insert_iterator::operator*
24.4.2.2.4	lib.back.insert.iter.op++	back_insert_iterator::operator++
24.4.2.2.5	lib.back.inserter	back_inserter
24.4.2.3	lib.front.insert.iterator	Template class front_insert_iterator
24.4.2.4	lib.front.insert.iter.ops	front_insert_iterator operations
24.4.2.4.1	lib.front.insert.iter.cons	front_insert_iterator constructor
24.4.2.4.2	lib.front.insert.iter.op=	front_insert_iterator::operator=
24.4.2.4.3	lib.front.insert.iter.op*	front_insert_iterator::operator*

24.4.2.4.4	lib.front.insert.iter.op++	front_insert_iterator::operator++
24.4.2.4.5	lib.front.inserter	front_inserter
24.4.2.5	lib.insert.iterator	Template class insert_iterator
24.4.2.6	lib.insert.iter.ops	insert_iterator operations
24.4.2.6.1	lib.insert.iter.cons	insert_iterator constructor
24.4.2.6.2	lib.insert.iter.op=	insert_iterator::operator=
24.4.2.6.3	lib.insert.iter.op*	insert_iterator::operator*
24.4.2.6.4	lib.insert.iter.op++	insert_iterator::operator++
24.4.2.6.5	lib.inserter	inserter
24.5	lib.stream.iterators	Stream iterators
24.5.1	lib.istream.iterator	Template class istream_iterator
24.5.1.1	lib.istream.iterator.cons	istream_iterator constructors and destructor
24.5.1.2	lib.istream.iterator.ops	istream_iterator operations
24.5.2	lib.ostream.iterator	Template class ostream_iterator
24.5.2.1	lib.ostream.iterator.cons.des	ostream_iterator constructors and destructor
24.5.2.2	lib.ostream.iterator.ops	ostream_iterator operations
24.5.3	lib.istreambuf.iterator	Template class istreambuf_iterator
24.5.3.1	lib.istreambuf.iterator::proxy	Template class istreambuf_iterator::proxy
24.5.3.2	lib.istreambuf.iterator.cons	istreambuf_iterator constructors
24.5.3.3	lib.istreambuf.iterator::op*	istreambuf_iterator::operator*
24.5.3.4	lib.istreambuf.iterator::op++	istreambuf_iterator::operator++
24.5.3.5	lib.istreambuf.iterator::equal	istreambuf_iterator::equal
24.5.3.6	lib.istreambuf.iterator::op==	operator==
24.5.3.7	lib.istreambuf.iterator::op!=	operator!=
24.5.4	lib.ostreambuf.iterator	Template class ostreambuf_iterator
24.5.4.1	lib.ostreambuf.iter.cons	ostreambuf_iterator constructors
24.5.4.2	lib.ostreambuf.iter.ops	ostreambuf_iterator operations
25	lib.algorithms	Algorithms library
25.1	lib.alg.nonmodifying	Non-modifying sequence operations
25.1.1	lib.alg.foreach	For each
25.1.2	lib.alg.find	Find
25.1.3	lib.alg.find.end	Find End
25.1.4	lib.alg.find.first.of	Find First
25.1.5	lib.alg.adjacent.find	Adjacent find
25.1.6	lib.alg.count	Count
25.1.7	lib.mismatch	Mismatch
25.1.8	lib.alg.equal	Equal
25.1.9	lib.alg.search	Search
25.2	lib.alg.modifying.operations	Mutating sequence operations
25.2.1	lib.alg.copy	Copy
25.2.2	lib.alg.swap	Swap
25.2.3	lib.alg.transform	Transform
25.2.4	lib.alg.replace	Replace
25.2.5	lib.alg.fill	Fill
25.2.6	lib.alg.generate	Generate
25.2.7	lib.alg.remove	Remove
25.2.8	lib.alg.unique	Unique
25.2.9	lib.alg.reverse	Reverse
25.2.10	lib.alg.rotate	Rotate
25.2.11	lib.alg.random.shuffle	Random shuffle
25.2.12	lib.alg.partitions	Partitions
25.3	lib.alg.sorting	Sorting and related operations

25.3.1	lib.alg.sort	Sorting
25.3.1.1	lib.sort	`sort`
25.3.1.2	lib.stable.sort	`stable_sort`
25.3.1.3	lib.partial.sort	`partial_sort`
25.3.1.4	lib.partial.sort.copy	`partial_sort_copy`
25.3.2	lib.alg.nth.element	Nth element
25.3.3	lib.alg.binary.search	Binary search
25.3.3.1	lib.lower.bound	`lower_bound`
25.3.3.2	lib.upper.bound	`upper_bound`
25.3.3.3	lib.equal.range	`equal_range`
25.3.3.4	lib.binary.search	`binary_search`
25.3.4	lib.alg.merge	Merge
25.3.5	lib.alg.set.operations	Set operations on sorted structures
25.3.5.1	lib.includes	`includes`
25.3.5.2	lib.set.union	`set_union`
25.3.5.3	lib.set.intersection	`set_intersection`
25.3.5.4	lib.set.difference	`set_difference`
25.3.5.5	lib.set.symmetric.difference	`set_symmetric_difference`
25.3.6	lib.alg.heap.operations	Heap operations
25.3.6.1	lib.push.heap	`push_heap`
25.3.6.2	lib.pop.heap	`pop_heap`
25.3.6.3	lib.make.heap	`make_heap`
25.3.6.4	lib.sort.heap	`sort_heap`
25.3.7	lib.alg.min.max	Minimum and maximum
25.3.8	lib.alg.lex.comparison	Lexicographical comparison
25.3.9	lib.alg.permutation.generators	Permutation generators
25.4	lib.alg.c.library	C library algorithms
26	lib.numerics	Numerics library
26.1	lib.numeric.requirements	Numeric type requirements
26.2	lib.complex.numbers	Complex numbers
26.2.1	lib.complex.synopsis	Header `<complex>` synopsis
26.2.2	lib.complex	Template class `complex`
26.2.3	lib.complex.special	`complex` specializations
26.2.4	lib.complex.members	`complex` member functions
26.2.5	lib.complex.member.ops	`complex` member operators
26.2.6	lib.complex.ops	`complex` non-member operations
26.2.7	lib.complex.value.ops	`complex` value operations
26.2.8	lib.complex.transcendentals	`complex` transcendentals
26.3	lib.numarray	Numeric arrays
26.3.1	lib.valarray.synopsis	Header `<valarray>` synopsis
26.3.2	lib.template.valarray	Template class `valarray`
26.3.2.1	lib.valarray.cons	`valarray` constructors
26.3.2.2	lib.valarray.assign	`valarray` assignment
26.3.2.3	lib.valarray.access	`valarray` element access
26.3.2.4	lib.valarray.sub	`valarray` subset operations
26.3.2.5	lib.valarray.unary	`valarray` unary operators
26.3.2.6	lib.valarray.cassign	`valarray` computed assignment
26.3.2.7	lib.valarray.members	`valarray` member functions
26.3.3	lib.valarray.nonmembers	`valarray` non-member operations
26.3.3.1	lib.valarray.binary	`valarray` binary operators
26.3.3.2	lib.valarray.comparison	`valarray` logical operators
26.3.3.3	lib.valarray.transcend	`valarray` transcendentals
26.3.4	lib.class.slice	Class `slice`
26.3.4.1	lib.cons.slice	`slice` constructors

26.3.4.2	lib.slice.access	slice access functions
26.3.5	lib.template.slice.array	Template class slice_array
26.3.5.1	lib.cons.slice.arr	slice_array constructors
26.3.5.2	lib.slice.arr.assign	slice_array assignment
26.3.5.3	lib.slice.arr.comp.assign	slice_array computed assignment
26.3.5.4	lib.slice.arr.fill	slice_array fill function
26.3.6	lib.class.gslice	The gslice class
26.3.6.1	lib.gslice.cons	gslice constructors
26.3.6.2	lib.gslice.access	gslice access functions
26.3.7	lib.template.gslice.array	Template class gslice_array
26.3.7.1	lib.gslice.array.cons	gslice_array constructors
26.3.7.2	lib.gslice.array.assign	gslice_array assignment
26.3.7.3	lib.gslice.array.comp.assign	gslice_array computed assignment
26.3.7.4	lib.gslice.array.fill	gslice_array fill function
26.3.8	lib.template.mask.array	Template class mask_array
26.3.8.1	lib.mask.array.cons	mask_array constructors
26.3.8.2	lib.mask.array.assign	mask_array assignment
26.3.8.3	lib.mask.array.comp.assign	mask_array computed assignment
26.3.8.4	lib.mask.array.fill	mask_array fill function
26.3.9	lib.template.indirect.array	Template class indirect_array
26.3.9.1	lib.indirect.array.cons	indirect_array constructors
26.3.9.2	lib.indirect.array.assign	indirect_array assignment
26.3.9.3	lib.indirect.array.comp.assign	indirect_array computed assignment
26.3.9.4	lib.indirect.array.fill	indirect_array fill function
26.4	lib.numeric.ops	Generalized numeric operations
26.4.1	lib.accumulate	Accumulate
26.4.2	lib.inner.product	Inner product
26.4.3	lib.partial.sum	Partial sum
26.4.4	lib.adjacent.difference	Adjacent difference
26.5	lib.c.math	C Library
27	lib.input.output	Input/output library
27.1	lib.iostreams.requirements	Iostreams requirements
27.1.1	lib.iostream.limits.imbue	Imbue Limitations
27.1.2	lib.iostreams.limits.pos	Positioning Type Limitations
27.2	lib.iostream.forward	Forward declarations
27.3	lib.iostream.objects	Standard iostream objects
27.3.1	lib.narrow.stream.objects	Narrow stream objects
27.3.2	lib.wide.stream.objects	Wide stream objects
27.4	lib.iostreams.base	Iostreams base classes
27.4.1	lib.stream.types	Types
27.4.2	lib.ios.base	Class ios_base
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