**Accredited Standards Committee***
**X3, INFORMATION PROCESSING SYSTEMS**

**Doc No:** X3J16/96−0179
WG21/N0997
**Date:** 23 September 1996
**Project:** Programming Language C++
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# Concordance for July 1996 (Hawaii) C++ Working Paper

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 |
| 1.5 | 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 |
| 2 | lex | Lexical conventions |
| 2.1 | lex.phases | Phases of translation |
| 2.2 | lex.charset | Basic source character set |
| 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 | | 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 | | 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 look up |
| 3.4.1 | basic.lookup.unqual | Unqualified name look up |
| 3.4.2 | basic.lookup.koenig | Argument-dependent name lookup |
| 3.4.3 | basic.lookup.qual | Qualified name look up |
| 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 |

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| 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 |

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| 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 |

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|---|---|---|
| 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 |

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| 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 |
| 14.4 | 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 |

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| 14.6.4.1 | temp.point | Point of instantiation |
| 14.6.4.2 | temp.dep.candidate | Candidate Functions |
| 14.6.4.3 | temp.dep.conv | Conversions |
| 14.6.5 | temp.inject | Friend names declared within a class template |
| 14.7 | temp.spec | Template 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 |
| 14.8.3 | 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 |
| 17.2 | lib.description | Method of description (Informative) |
| 17.2.1 | lib.structure | Structure of each subclause |
| 17.2.1.1 | lib.structure.summary | Summary |
| 17.2.1.2 | lib.structure.requirements | Requirements |
| 17.2.1.3 | lib.structure.specifications | Specifications |
| 17.2.1.4 | lib.structure.see.also | C Library |
| 17.2.2 | lib.conventions | Other conventions |
| 17.2.2.1 | lib.type.descriptions | Type descriptions |
| 17.2.2.1.1 | lib.enumerated.types | Enumerated types |
| 17.2.2.1.2 | lib.bitmask.types | Bitmask types |
| 17.2.2.1.3 | lib.character.seq | Character sequences |
| 17.2.2.1.3.1 | lib.byte.strings | Byte strings |
| 17.2.2.1.3.2 | lib.multibyte.strings | Multibyte strings |
| 17.2.2.1.3.3 | lib.wide.characters | Wide-character sequences |
| 17.2.2.2 | lib.functions.within.classes | Functions within classes |
| 17.2.2.3 | lib.objects.within.classes | Private members |
| 17.3 | lib.requirements | Library-wide requirements |

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| 17.3.1 | lib.organization | Library contents and organization |
| 17.3.1.1 | lib.contents | Library contents |
| 17.3.1.2 | lib.headers | Headers |
| 17.3.1.3 | lib.compliance | Freestanding implementations |
| 17.3.2 | lib.using | Using the library |
| 17.3.2.1 | lib.using.headers | Headers |
| 17.3.2.2 | lib.using.linkage | Linkage |
| 17.3.3 | lib.constraints | Constraints on programs |
| 17.3.3.1 | lib.reserved.names | Reserved names |
| 17.3.3.1.1 | lib.macro.names | Macro names |
| 17.3.3.1.2 | lib.global.names | Global names |
| 17.3.3.1.3 | lib.extern.names | External linkage |
| 17.3.3.2 | lib.alt.headers | Headers |
| 17.3.3.3 | lib.derived.classes | Derived classes |
| 17.3.3.4 | lib.replacement.functions | Replacement functions |
| 17.3.3.5 | lib.handler.functions | Handler functions |
| 17.3.3.6 | lib.res.on.functions | Other functions |
| 17.3.3.7 | lib.res.on.arguments | Function arguments |
| 17.3.3.8 | lib.res.on.required | Required paragraph |
| 17.3.4 | lib.conforming | Conforming implementations |
| 17.3.4.1 | lib.res.on.headers | Headers |
| 17.3.4.2 | lib.res.on.macro.definitions | Restrictions on macro definitions |
| 17.3.4.3 | lib.global.functions | Global functions |
| 17.3.4.4 | lib.member.functions | Member functions |
| 17.3.4.5 | lib.reentrancy | Reentrancy |
| 17.3.4.6 | lib.protection.within.classes | Protection within classes |
| 17.3.4.7 | lib.derivation | Derived classes |
| 17.3.4.8 | lib.res.on.exception.handling | Restrictions on exception handling |
| 18 | lib.language.support | Language support library |
| 18.1 | lib.support.types | Types |
| 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 |
| 18.2.1.3 | lib.round.style | Type `float_round_style` |
| 18.2.1.4 | lib.numeric.special | `numeric_limits` specializations |
| 18.2.2 | lib.c.limits | C Library |
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| 18.4 | lib.support.dynamic | Dynamic memory management |
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| 18.4.1.1 | lib.new.delete.single | Single-object forms |
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| 18.4.1.3 | lib.new.delete.placement | Placement forms |
| 18.4.2 | lib.alloc.errors | Storage allocation errors |
| 18.4.2.1 | lib.bad.alloc | Class `bad_alloc` |
| 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` |
| 18.5.2 | lib.bad.cast | Class `bad_cast` |
| 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` |

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| 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` |
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| 18.6.3.3 | lib.terminate | `terminate` |
| 18.6.4 | lib.uncaught | `uncaught_exception` |
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| 19.1.5 | lib.out.of.range | Class `out_of_range` |
| 19.1.6 | lib.runtime.error | Class `runtime_error` |
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| 20.1.2 | lib.lessthancomparable | Less than comparison |
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| 20.3.6.1 | lib.binder.1st | Template class `binder1st` |
| 20.3.6.2 | lib.bind.1st | `bind1st` |
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| 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 |
| 20.4.1.3 | lib.allocator.example | Example `allocator` |
| 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` |

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| 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 |
| 20.4.6 | 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.defs | Definitions |
| 21.1.2 | lib.char.traits.require | Character traits requirements |
| 21.1.3 | lib.char.traits.typedefs | traits typedefs |
| 21.1.4 | lib.char.traits.specializations | `char_traits` specializations |
| 21.1.4.1 | lib.char.traits.specializations.char | `struct char_traits<char>` |
| 21.1.4.2 | 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 |

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|---|---|---|
| 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.num.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 |

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| 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.adapters | Container adapters |
| 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 |

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|---|---|---|
| 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 |
| 24.1.6 | lib.iterator.tags | Iterator tags |
| 24.2 | lib.iterator.synopsis | Header `<iterator>` synopsis |
| 24.3 | lib.iterator.primitives | Iterator primitives |
| 24.3.1 | lib.std.iterator.tags | Standard iterator tags |
| 24.3.2 | 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.bidir.iter | Template class `reverse_bidirectional_iterator` |
| 24.4.1.2 | lib.reverse.bidir.iter.ops | `reverse_bidirectional_iterator` operations |
| 24.4.1.2.1 | lib.reverse.bidir.iter.cons | `reverse_bidirectional_iterator` constructor |
| 24.4.1.2.2 | lib.reverse.bidir.iter.conv | Conversion |
| 24.4.1.2.3 | lib.reverse.bidir.iter.op.star | `operator*` |
| 24.4.1.2.4 | lib.reverse.bidir.iter.opref | `operator->` |
| 24.4.1.2.5 | lib.reverse.bidir.iter.op++ | `operator++` |
| 24.4.1.2.6 | lib.reverse.bidir.iter.op-- | `operator--` |
| 24.4.1.2.7 | lib.reverse.bidir.iter.op== | `operator==` |
| 24.4.1.3 | lib.reverse.iterator | Template class `reverse_iterator` |
| 24.4.1.4 | lib.reverse.iter.ops | `reverse_iterator` operations |
| 24.4.1.4.1 | lib.reverse.iter.cons | `reverse_iterator` constructor |
| 24.4.1.4.2 | lib.reverse.iter.conv | Conversion |
| 24.4.1.4.3 | lib.reverse.iter.op.star | `operator*` |
| 24.4.1.4.4 | lib.reverse.iter.opref | `operator->` |
| 24.4.1.4.5 | lib.reverse.iter.op++ | `operator++` |
| 24.4.1.4.6 | lib.reverse.iter.op-- | `operator--` |
| 24.4.1.4.7 | lib.reverse.iter.op+ | `operator+` |
| 24.4.1.4.8 | lib.reverse.iter.op+= | `operator+=` |
| 24.4.1.4.9 | lib.reverse.iter.op- | `operator-` |
| 24.4.1.4.10 | lib.reverse.iter.op-= | `operator-=` |
| 24.4.1.4.11 | lib.reverse.iter.opindex | `operator[]` |
| 24.4.1.4.12 | lib.reverse.iter.op== | `operator==` |

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| 24.4.1.4.13 | lib.reverse.iter.op< | `operator<` |
| 24.4.1.4.14 | lib.reverse.iter.opdiff | `operator-` |
| 24.4.1.4.15 | 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` |
| 24.5.2 | lib.ostream.iterator | Template class `ostream_iterator` |
| 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 |

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| 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 |
| 26.4 | lib.valarray.synopsis | Header `<valarray>` synopsis |
| 26.4.1 | lib.template.valarray | Template class `valarray` |
| 26.4.1.1 | lib.valarray.cons | `valarray` constructors |
| 26.4.1.2 | lib.valarray.assign | `valarray` assignment |
| 26.4.1.3 | lib.valarray.access | `valarray` element access |

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|---|---|---|
| 26.4.1.4 | lib.valarray.sub | `valarray` subset operations |
| 26.4.1.5 | lib.valarray.unary | `valarray` unary operators |
| 26.4.1.6 | lib.valarray.cassign | `valarray` computed assignment |
| 26.4.1.7 | lib.valarray.members | `valarray` member functions |
| 26.4.2 | lib.valarray.nonmembers | `valarray` non-member operations |
| 26.4.2.1 | lib.valarray.binary | `valarray` binary operators |
| 26.4.2.2 | lib.valarray.comparison | `valarray` logical operators |
| 26.4.2.3 | lib.valarray.transcend | `valarray` transcendentals |
| 26.4.3 | lib.class.slice | Class `slice` |
| 26.4.3.1 | lib.cons.slice | `slice` constructors |
| 26.4.3.2 | lib.slice.access | `slice` access functions |
| 26.4.4 | lib.template.slice.array | Template class `slice_array` |
| 26.4.4.1 | lib.cons.slice.arr | `slice_array` constructors |
| 26.4.4.2 | lib.slice.arr.assign | `slice_array` assignment |
| 26.4.4.3 | lib.slice.arr.comp.assign | `slice_array` computed assignment |
| 26.4.4.4 | lib.slice.arr.fill | `slice_array` fill function |
| 26.4.5 | lib.class.gslice | The `gslice` class |
| 26.4.5.1 | lib.gslice.cons | `gslice constructors` |
| 26.4.5.2 | lib.gslice.access | `gslice` access functions |
| 26.4.6 | lib.template.gslice.array | Template class `gslice_array` |
| 26.4.6.1 | lib.gslice.array.cons | `gslice_array` constructors |
| 26.4.6.2 | lib.gslice.array.assign | `gslice_array` assignment |
| 26.4.6.3 | lib.gslice.array.comp.assign | `gslice_array computed assignment` |
| 26.4.6.4 | lib.gslice.array.fill | `gslice_array` fill function |
| 26.4.7 | lib.template.mask.array | Template class `mask_array` |
| 26.4.7.1 | lib.mask.array.cons | `mask_array` constructors |
| 26.4.7.2 | lib.mask.array.assign | `mask_array` assignment |
| 26.4.7.3 | lib.mask.array.comp.assign | `mask_array` computed assignment |
| 26.4.7.4 | lib.mask.array.fill | `mask_array` fill function |
| 26.4.8 | lib.template.indirect.array | Template class `indirect_array` |
| 26.4.8.1 | lib.indirect.array.cons | `indirect_array` constructors |
| 26.4.8.2 | lib.indirect.array.assign | `indirect_array` assignment |
| 26.4.8.3 | lib.indirect.array.comp.assign | `indirect_array` computed assignment |
| 26.4.8.4 | lib.indirect.array.fill | `indirect_array` fill function |
| 26.5 | lib.numeric.ops | Generalized numeric operations |
| 26.5.1 | lib.accumulate | Accumulate |
| 26.5.2 | lib.inner.product | Inner product |
| 26.5.3 | lib.partial.sum | Partial sum |
| 26.5.4 | lib.adjacent.difference | Adjacent difference |
| 26.6 | lib.c.math | C Library |
| 27 | lib.input.output | Input/output library |
| 27.1 | lib.iostreams.requirements | Iostreams requirements |
| 27.1.1 | lib.iostreams.definitions | Definitions |
| 27.1.2 | lib.iostream.limits | Limitations |
| 27.1.2.1 | lib.iostream.limits.imbue | Imbue Limitations |
| 27.1.2.2 | 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` |
| 27.4.2.1 | lib.ios.types | Types |

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|---|---|---|
| 27.4.2.1.1 | lib.ios::failure | Class `ios_base::failure` |
| 27.4.2.1.2 | lib.ios::fmtflags | Type `ios_base::fmtflags` |
| 27.4.2.1.3 | lib.ios::iostate | Type `ios_base::iostate` |
| 27.4.2.1.4 | lib.ios::openmode | Type `ios_base::openmode` |
| 27.4.2.1.5 | lib.ios::seekdir | Type `ios_base::seekdir` |
| 27.4.2.1.6 | lib.ios::Init | Class `ios_base::Init` |
| 27.4.2.2 | lib.fmtflags.state | `ios_base fmtflags` state functions |
| 27.4.2.3 | lib.ios.base.locales | `ios_base locale` functions |
| 27.4.2.4 | lib.ios.members.static | `ios_base` static members |
| 27.4.2.5 | lib.ios.base.storage | `ios_base` storage functions |
| 27.4.2.6 | lib.ios.base.callback | `ios_base` callbacks |
| 27.4.2.7 | lib.ios.base.cons | `ios_base` constructors/destructors |
| 27.4.3 | lib.fpos | Template class `fpos` |
| 27.4.3.1 | lib.fpos.cons | `fpos` Constructor |
| 27.4.3.2 | lib.fpos.members | `fpos` Members |
| 27.4.4 | lib.fpos.operations | `fpos` requirements |
| 27.4.5 | lib.ios | Template class `basic_ios` |
| 27.4.5.1 | lib.basic.ios.cons | `basic_ios` constructors |
| 27.4.5.2 | lib.basic.ios.members | Member functions |
| 27.4.5.3 | lib.iostate.flags | `basic_ios iostate` flags functions |
| 27.4.6 | lib.std.ios.manip | `ios_base` manipulators |
| 27.4.6.1 | lib.fmtflags.manip | `fmtflags` manipulators |
| 27.4.6.2 | lib.adjustfield.manip | `adjustfield` manipulators |
| 27.4.6.3 | lib.basefield.manip | `basefield` manipulators |
| 27.4.6.4 | lib.floatfield.manip | `floatfield` manipulators |
| 27.5 | lib.stream.buffers | Stream buffers |
| 27.5.1 | lib.streambuf.reqts | Stream buffer requirements |
| 27.5.2 | lib.streambuf | Template class `basic_streambuf<charT,traits>` |
| 27.5.2.1 | lib.streambuf.cons | `basic_streambuf` constructors |
| 27.5.2.2 | lib.streambuf.members | `basic_streambuf` public member functions |
| 27.5.2.2.1 | lib.streambuf.locales | Locales |
| 27.5.2.2.2 | lib.streambuf.buffer | Buffer management and positioning |
| 27.5.2.2.3 | lib.streambuf.pub.get | Get area |
| 27.5.2.2.4 | lib.streambuf.pub.pback | Putback |
| 27.5.2.2.5 | lib.streambuf.pub.put | Put area |
| 27.5.2.3 | lib.streambuf.protected | `basic_streambuf` protected member functions |
| 27.5.2.3.1 | lib.streambuf.get.area | Get area access |
| 27.5.2.3.2 | lib.streambuf.put.area | Put area access |
| 27.5.2.4 | lib.streambuf.virtuals | `basic_streambuf` virtual functions |
| 27.5.2.4.1 | lib.streambuf.virt.locales | Locales |
| 27.5.2.4.2 | lib.streambuf.virt.buffer | Buffer management and positioning |
| 27.5.2.4.3 | lib.streambuf.virt.get | Get area |
| 27.5.2.4.4 | lib.streambuf.virt.pback | Putback |
| 27.5.2.4.5 | lib.streambuf.virt.put | Put area |
| 27.6 | lib.iostream.format | Formatting and manipulators |
| 27.6.1 | lib.input.streams | Input streams |
| 27.6.1.1 | lib.istream | Template class `basic_istream` |
| 27.6.1.1.1 | lib.istream.cons | `basic_istream` constructors |
| 27.6.1.1.2 | lib.istream::sentry | Class `basic_istream::sentry` |
| 27.6.1.2 | lib.istream.formatted | Formatted input functions |
| 27.6.1.2.1 | lib.istream.formatted.reqmts | Common requirements |
| 27.6.1.2.2 | lib.istream.formatted.arithmetic | Arithmetic Extractors |

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|---|---|---|
| 27.6.1.2.3 | lib.istream::extractors | `basic_istream::operator>>` |
| 27.6.1.3 | lib.istream.unformatted | Unformatted input functions |
| 27.6.1.4 | lib.istream.manip | Standard `basic_istream` manipulators |
| 27.6.1.5 | lib.iostreamclass | Template class `basic_iostream` |
| 27.6.1.5.1 | lib.iostream.cons | `basic_iostream` constructors |
| 27.6.1.5.2 | lib.iostream.dest | `basic_iostream` destructor |
| 27.6.2 | lib.output.streams | Output streams |
| 27.6.2.1 | lib.ostream | Template class `basic_ostream` |
| 27.6.2.2 | lib.ostream.cons | `basic_ostream` constructors |
| 27.6.2.3 | lib.ostream::sentry | Class `basic_ostream::sentry` |
| 27.6.2.4 | lib.ostream.formatted | Formatted output functions |
| 27.6.2.4.1 | lib.ostream.formatted.reqmts | Common requirements |
| 27.6.2.4.2 | lib.ostream.inserters.arithmetic | Arithmetic Inserters |
| 27.6.2.4.3 | lib.ostream.inserters | `basic_ostream::operator<<` |
| 27.6.2.4.4 | lib.ostream.inserters.character | Character inserter template functions |
| 27.6.2.5 | lib.ostream.unformatted | Unformatted output functions |
| 27.6.2.6 | lib.ostream.manip | Standard `basic_ostream` manipulators |
| 27.6.3 | lib.std.manip | Standard manipulators |
| 27.7 | lib.string.streams | String-based streams |
| 27.7.1 | lib.stringbuf | Template class `basic_stringbuf` |
| 27.7.1.1 | lib.stringbuf.cons | `basic_stringbuf` constructors |
| 27.7.1.2 | lib.stringbuf.members | Member functions |
| 27.7.1.3 | lib.stringbuf.virtuals | Overridden virtual functions |
| 27.7.2 | lib.istringstream | Template class `basic_istringstream` |
| 27.7.2.1 | lib.istringstream.cons | `basic_istringstream` constructors |
| 27.7.2.2 | lib.istringstream.members | Member functions |
| 27.7.2.3 | lib.ostringstream | Class `basic_ostringstream` |
| 27.7.2.4 | lib.ostringstream.cons | `basic_ostringstream` constructors |
| 27.7.2.5 | lib.ostringstream.members | Member functions |
| 27.7.3 | lib.stringstream | Template class `basic_stringstream` |
| 27.7.4 | lib.stringstream.cons | basic_stringstream constructors |
| 27.7.5 | lib.stringstream.members | Member |
| 27.8 | lib.file.streams | File-based streams |
| 27.8.1 | lib.fstreams | File streams |
| 27.8.1.1 | lib.filebuf | Template class `basic_filebuf` |
| 27.8.1.2 | lib.filebuf.cons | `basic_filebuf` constructors |
| 27.8.1.3 | lib.filebuf.members | Member functions |
| 27.8.1.4 | lib.filebuf.virtuals | Overridden virtual functions |
| 27.8.1.5 | lib.ifstream | Template class `basic_ifstream` |
| 27.8.1.6 | lib.ifstream.cons | `basic_ifstream` constructors |
| 27.8.1.7 | lib.ifstream.members | Member functions |
| 27.8.1.8 | lib.ofstream | Template class `basic_ofstream` |
| 27.8.1.9 | lib.ofstream.cons | `basic_ofstream` constructors |
| 27.8.1.10 | lib.ofstream.members | Member functions |
| 27.8.1.11 | lib.fstream | Template class `basic_fstream` |
| 27.8.1.12 | lib.fstream.cons | `basic_fstream` constructors |
| 27.8.1.13 | lib.fstream.members | Member functions |
| 27.8.2 | lib.c.files | C Library files |
| A | gram | Grammar summary |
| A.1 | gram.key | Keywords |
| A.2 | gram.lex | Lexical conventions |
| A.3 | gram.basic | Basic concepts |
| A.4 | gram.expr | Expressions |

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|---|---|---|
| A.5 | gram.stmt.stmt | Statements |
| A.6 | gram.dcl.dcl | Declarations |
| A.7 | gram.dcl.decl | Declarators |
| A.8 | gram.class | Classes |
| A.9 | gram.class.derived | Derived classes |
| A.10 | gram.special | Special member functions |
| A.11 | gram.over | Overloading |
| A.12 | gram.temp | Templates |
| A.13 | gram.except | Exception handling |
| B | limits | Implementation quantities |
| C | diff | Compatibility |
| C.1 | diff.c | Extensions |
| C.1.1 | diff.early | C++ features available in 1985 |
| C.1.2 | diff.c++ | C++ features added since 1985 |
| C.2 | diff.iso | C++ and ISO C |
| C.2.1 | diff.lex | Clause _lex_: lexical conventions |
| C.2.2 | diff.basic | Clause _basic_: basic concepts |
| C.2.3 | diff.expr | Clause _expr_: expressions |
| C.2.4 | diff.stat | Clause _stmt.stmt_: statements |
| C.2.5 | diff.dcl | Clause _dcl.dcl_: declarations |
| C.2.6 | diff.decl | Clause _dcl.decl_: declarators |
| C.2.7 | diff.class | Clause _class_: classes |
| C.2.8 | diff.special | Clause _special_: special member functions |
| C.2.9 | diff.cpp | Clause _cpp_: preprocessing directives |
| C.3 | diff.anac | Anachronisms |
| C.3.1 | diff.fct.def | Old style function definitions |
| C.3.2 | diff.base.init | Old style base class initializer |
| C.3.3 | diff.this | Assignment to `this` |
| C.3.4 | diff.bound | Cast of bound pointer |
| C.3.5 | diff.class.nonnested | Nonnested classes |
| C.4 | diff.library | Standard C library |
| C.4.1 | diff.mods.to.headers | Modifications to headers |
| C.4.2 | diff.mods.to.definitions | Modifications to definitions |
| C.4.2.1 | diff.wchar.t | Type `wchar_t` |
| C.4.2.2 | diff.header.iso646.h | Header `<iso646.h>` |
| C.4.2.3 | diff.null | Macro `NULL` |
| C.4.3 | diff.mods.to.declarations | Modifications to declarations |
| C.4.4 | diff.mods.to.behavior | Modifications to behavior |
| C.4.4.1 | diff.offsetof | Macro `offsetof(`*`type`*`,` *`member-designator`*`)` |
| C.4.4.2 | diff.malloc | Memory allocation functions |
| D | depr | Compatibility features |
| D.1 | depr.post.incr | Postfix increment operator |
| D.2 | depr.static | static keyword |
| D.3 | depr.access.dcl | Access declarations |
| D.4 | depr.string | Implicit conversion from const strings |
| D.5 | depr.c.headers | Standard C library headers |
| D.6 | depr.ios.members | Old iostreams members |
| D.7 | depr.str.strstreams | `char*` streams |
| D.7.1 | depr.strstreambuf | Class `strstreambuf` |
| D.7.1.1 | depr.strstreambuf.cons | `strstreambuf` constructors |
| D.7.1.2 | depr.strstreambuf.members | Member functions |
| D.7.1.3 | depr.strstreambuf.virtuals | `strstreambuf` overridden virtual functions |
| D.7.2 | depr.istrstream | Class `istrstream` |
| D.7.2.1 | depr.istrstream.cons | `istrstream` constructors |

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|---|---|---|
| D.7.2.2 | depr.istrstream.members | Member functions |
| D.7.3 | depr.ostrstream | Class `ostrstream` |
| D.7.3.1 | depr.ostrstream.cons | `ostrstream` constructors |
| D.7.3.2 | depr.ostrstream.members | Member functions |
| D.7.4 | depr.strstream | Class `strstream` |
| D.7.4.1 | depr.strstream.cons | `strstream` constructors |
| D.7.4.2 | depr.strstream.dest | `strstream` destructor |
| D.7.4.3 | depr.strstream.oper | `strstream` operations |
| E | extendid | Universal-character-names for identifiers |

**Listing by symbolic name**


| | | |
|---|---|---|
| basic | 3 | Basic concepts |
| basic.compound | 3.9.2 | Compound types |
| basic.def | 3.1 | Declarations and definitions |
| basic.def.odr | 3.2 | One definition rule |
| basic.fundamental | 3.9.1 | Fundamental types |
| basic.life | 3.8 | Object Lifetime |
| basic.link | 3.5 | Program and linkage |
| basic.lookup | 3.4 | Name look up |
| basic.lookup.classref | 3.4.5 | Class member access |
| basic.lookup.elab | 3.4.4 | Elaborated type specifiers |
| basic.lookup.koenig | 3.4.2 | Argument-dependent name lookup |
| basic.lookup.qual | 3.4.3 | Qualified name look up |
| basic.lookup.udir | 3.4.6 | Using directives and namespace aliases |
| basic.lookup.unqual | 3.4.1 | Unqualified name look up |
| basic.lval | 3.10 | Lvalues and rvalues |
| basic.namespace | 7.3 | Namespaces |
| basic.scope | 3.3 | Declarative regions and scopes |
| basic.scope.class | 3.3.6 | Class scope |
| basic.scope.hiding | 3.3.7 | Name hiding |
| basic.scope.local | 3.3.2 | Local scope |
| basic.scope.namespace | 3.3.5 | Namespace scope |
| basic.scope.pdecl | 3.3.1 | Point of declaration |
| basic.scope.proto | 3.3.3 | Function prototype scope |
| basic.start | 3.6 | Start and termination |
| basic.start.init | 3.6.2 | Initialization of non-local objects |
| basic.start.main | 3.6.1 | Main function |
| basic.start.term | 3.6.3 | Termination |
| basic.stc | 3.7 | Storage duration |
| basic.stc.auto | 3.7.2 | Automatic storage duration |
| basic.stc.dynamic | 3.7.3 | Dynamic storage duration |
| basic.stc.dynamic.allocation | 3.7.3.1 | Allocation functions |
| basic.stc.dynamic.deallocation | 3.7.3.2 | Deallocation functions |
| basic.stc.inherit | 3.7.4 | Duration of sub-objects |
| basic.stc.static | 3.7.1 | Static storage duration |
| basic.type.qualifier | 3.9.3 | CV-qualifiers |
| basic.types | 3.9 | Types |
| class | 9 | Classes |
| class.abstract | 10.4 | Abstract classes |
| class.access | 11 | Member access control |
| class.access.base | 11.2 | Accessibility of base classes and base class members |
| class.access.dcl | 11.3 | Access declarations |
| class.access.nest | 11.8 | Nested classes |
| class.access.spec | 11.1 | Access specifiers |
| class.access.virt | 11.6 | Access to virtual functions |
| class.base.init | 12.6.2 | Initializing bases and members |
| class.bit | 9.6 | Bit-fields |
| class.cdtor | 12.7 | Construction and destruction |
| class.conv | 12.3 | Conversions |
| class.conv.ctor | 12.3.1 | Conversion by constructor |
| class.conv.fct | 12.3.2 | Conversion functions |
| class.copy | 12.8 | Copying class objects |

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|---|---|---|
| class.ctor | 12.1 | Constructors |
| class.derived | 10 | Derived classes |
| class.dtor | 12.4 | Destructors |
| class.expl.init | 12.6.1 | Explicit initialization |
| class.free | 12.5 | Free store |
| class.friend | 11.4 | Friends |
| class.init | 12.6 | Initialization |
| class.local | 9.8 | Local class declarations |
| class.mem | 9.2 | Class members |
| class.member.lookup | 10.2 | Member name lookup |
| class.mfct | 9.3 | Member functions |
| class.mfct.nonstatic | 9.3.1 | Nonstatic member functions |
| class.mi | 10.1 | Multiple base classes |
| class.name | 9.1 | Class names |
| class.nest | 9.7 | Nested class declarations |
| class.nested.type | 9.9 | Nested type names |
| class.paths | 11.7 | Multiple access |
| class.protected | 11.5 | Protected member access |
| class.qual | 3.4.3.1 | Class members |
| class.static | 9.4 | Static members |
| class.static.data | 9.4.2 | Static data members |
| class.static.mfct | 9.4.1 | Static member functions |
| class.temporary | 12.2 | Temporary objects |
| class.this | 9.3.2 | The `this` pointer |
| class.union | 9.5 | Unions |
| class.virtual | 10.3 | Virtual functions |
| conv | 4 | Standard conversions |
| conv.array | 4.2 | Array-to-pointer conversion |
| conv.bool | 4.12 | Boolean conversions |
| conv.double | 4.8 | Floating point conversions |
| conv.fpint | 4.9 | Floating-integral conversions |
| conv.fpprom | 4.6 | Floating point promotion |
| conv.func | 4.3 | Function-to-pointer conversion |
| conv.integral | 4.7 | Integral conversions |
| conv.lval | 4.1 | Lvalue-to-rvalue conversion |
| conv.mem | 4.11 | Pointer to member conversions |
| conv.prom | 4.5 | Integral promotions |
| conv.ptr | 4.10 | Pointer conversions |
| conv.qual | 4.4 | Qualification conversions |
| cpp | 16 | Preprocessing directives |
| cpp.concat | 16.3.3 | The ## operator |
| cpp.cond | 16.1 | Conditional inclusion |
| cpp.error | 16.5 | Error directive |
| cpp.include | 16.2 | Source file inclusion |
| cpp.line | 16.4 | Line control |
| cpp.null | 16.7 | Null directive |
| cpp.pragma | 16.6 | Pragma directive |
| cpp.predefined | 16.8 | Predefined macro names |
| cpp.replace | 16.3 | Macro replacement |
| cpp.rescan | 16.3.4 | Rescanning and further replacement |
| cpp.scope | 16.3.5 | Scope of macro definitions |
| cpp.stringize | 16.3.2 | The # operator |
| cpp.subst | 16.3.1 | Argument substitution |
| dcl.ambig.res | 8.2 | Ambiguity resolution |
| dcl.array | 8.3.4 | Arrays |

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|---|---|---|
| dcl.asm | 7.4 | The `asm` declaration |
| dcl.dcl | 7 | Declarations |
| dcl.decl | 8 | Declarators |
| dcl.enum | 7.2 | Enumeration declarations |
| dcl.fct | 8.3.5 | Functions |
| dcl.fct.def | 8.4 | Function definitions |
| dcl.fct.default | 8.3.6 | Default arguments |
| dcl.fct.spec | 7.1.2 | Function specifiers |
| dcl.friend | 7.1.4 | The `friend` specifier |
| dcl.init | 8.5 | Initializers |
| dcl.init.aggr | 8.5.1 | Aggregates |
| dcl.init.ref | 8.5.3 | References |
| dcl.init.string | 8.5.2 | Character arrays |
| dcl.link | 7.5 | Linkage specifications |
| dcl.meaning | 8.3 | Meaning of declarators |
| dcl.mptr | 8.3.3 | Pointers to members |
| dcl.name | 8.1 | Type names |
| dcl.ptr | 8.3.1 | Pointers |
| dcl.ref | 8.3.2 | References |
| dcl.spec | 7.1 | Specifiers |
| dcl.stc | 7.1.1 | Storage class specifiers |
| dcl.type | 7.1.5 | Type specifiers |
| dcl.type.cv | 7.1.5.1 | The *cv-qualifiers* |
| dcl.type.elab | 7.1.5.3 | Elaborated type specifiers |
| dcl.type.simple | 7.1.5.2 | Simple type specifiers |
| dcl.typedef | 7.1.3 | The `typedef` specifier |
| depr | D | Compatibility features |
| depr.access.dcl | D.3 | Access declarations |
| depr.c.headers | D.5 | Standard C library headers |
| depr.ios.members | D.6 | Old iostreams members |
| depr.istrstream | D.7.2 | Class `istrstream` |
| depr.istrstream.cons | D.7.2.1 | `istrstream` constructors |
| depr.istrstream.members | D.7.2.2 | Member functions |
| depr.ostrstream | D.7.3 | Class `ostrstream` |
| depr.ostrstream.cons | D.7.3.1 | `ostrstream` constructors |
| depr.ostrstream.members | D.7.3.2 | Member functions |
| depr.post.incr | D.1 | Postfix increment operator |
| depr.static | D.2 | static keyword |
| depr.str.strstreams | D.7 | `char*` streams |
| depr.string | D.4 | Implicit conversion from const strings |
| depr.strstream | D.7.4 | Class `strstream` |
| depr.strstream.cons | D.7.4.1 | `strstream` constructors |
| depr.strstream.dest | D.7.4.2 | `strstream` destructor |
| depr.strstream.oper | D.7.4.3 | `strstream` operations |
| depr.strstreambuf | D.7.1 | Class `strstreambuf` |
| depr.strstreambuf.cons | D.7.1.1 | `strstreambuf` constructors |
| depr.strstreambuf.members | D.7.1.2 | Member functions |
| depr.strstreambuf.virtuals | D.7.1.3 | `strstreambuf` overridden virtual functions |
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| diff.bound | C.3.4 | Cast of bound pointer |
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| diff.class | C.2.7 | Clause _class_: classes |
| diff.class.nonnested | C.3.5 | Nonnested classes |
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| diff.dcl | C.2.5 | Clause _dcl.dcl_: declarations |
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| diff.expr | C.2.3 | Clause _expr_: expressions |
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| diff.malloc | C.4.4.2 | Memory allocation functions |
| diff.mods.to.behavior | C.4.4 | Modifications to behavior |
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| diff.special | C.2.8 | Clause _special_: special member functions |
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