




PRQA QA-C

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 The table below can be re-ordered, by clicking column headers.

Tool Version: 9.7

Checker	Guideline
0	MSC15-C. Do not depend on undefined behavior
1	MSC14-C. Do not introduce unnecessary platform dependencies
037	MSC14-C. Do not introduce unnecessary platform dependencies
0160	MSC15-C. Do not depend on undefined behavior
0161	FIO47-C. Use valid format strings
0161	MSC15-C. Do not depend on undefined behavior
0162	FIO47-C. Use valid format strings
0162	MSC15-C. Do not depend on undefined behavior
0163	FIO47-C. Use valid format strings
0163	MSC15-C. Do not depend on undefined behavior
0164	FIO47-C. Use valid format strings
0164	MSC15-C. Do not depend on undefined behavior
0165	FIO47-C. Use valid format strings
0165	MSC15-C. Do not depend on undefined behavior
0166	FIO47-C. Use valid format strings
0166	MSC15-C. Do not depend on undefined behavior
0167	FIO47-C. Use valid format strings
0167	MSC15-C. Do not depend on undefined behavior
0168	FIO47-C. Use valid format strings
0168	MSC15-C. Do not depend on undefined behavior
0169	FIO47-C. Use valid format strings
0169	MSC15-C. Do not depend on undefined behavior
0170	FIO47-C. Use valid format strings
0170	MSC15-C. Do not depend on undefined behavior
0171	FIO47-C. Use valid format strings
0171	MSC15-C. Do not depend on undefined behavior
0172	FIO47-C. Use valid format strings
0172	MSC15-C. Do not depend on undefined behavior
0173	FIO47-C. Use valid format strings
0173	MSC15-C. Do not depend on undefined behavior
0174	FIO47-C. Use valid format strings
0174	MSC15-C. Do not depend on undefined behavior
0175	FIO47-C. Use valid format strings
0175	MSC15-C. Do not depend on undefined behavior
0176	FIO47-C. Use valid format strings

0176	MSC15-C. Do not depend on undefined behavior
0177	FIO47-C. Use valid format strings
0177	MSC15-C. Do not depend on undefined behavior
0178	FIO47-C. Use valid format strings
0178	MSC15-C. Do not depend on undefined behavior
0179	MSC15-C. Do not depend on undefined behavior
0179 (U)	DCL11-C. Understand the type issues associated with variadic functions
0179 [U]	FIO47-C. Use valid format strings
0180 [FIO47-C. Use valid format strings
0184	DCL10-C. Maintain the contract between the writer and caller of variadic functions
0184	MSC15-C. Do not depend on undefined behavior
0184 (U)	DCL11-C. Understand the type issues associated with variadic functions
0184 [U]	FIO47-C. Use valid format strings
0185	FIO47-C. Use valid format strings
0185	DCL10-C. Maintain the contract between the writer and caller of variadic functions
0185	MSC15-C. Do not depend on undefined behavior
0185 (U)	DCL11-C. Understand the type issues associated with variadic functions
0186	MSC15-C. Do not depend on undefined behavior
0186 (U)	DCL11-C. Understand the type issues associated with variadic functions
0190	FIO47-C. Use valid format strings
0190	MSC15-C. Do not depend on undefined behavior
0190 (U)	DCL11-C. Understand the type issues associated with variadic functions
0191	FIO47-C. Use valid format strings
0191	MSC15-C. Do not depend on undefined behavior
0191 (U)	DCL11-C. Understand the type issues associated with variadic functions
0192	FIO47-C. Use valid format strings
0192	MSC15-C. Do not depend on undefined behavior
0192 (U)	DCL11-C. Understand the type issues associated with variadic functions
0193	FIO47-C. Use valid format strings
0193	MSC15-C. Do not depend on undefined behavior
0193 (U)	DCL11-C. Understand the type issues associated with variadic functions
0194	FIO47-C. Use valid format strings
0194	MSC15-C. Do not depend on undefined behavior
0194 (U)	DCL11-C. Understand the type issues associated with variadic functions
0195	FIO47-C. Use valid format strings
0195	MSC15-C. Do not depend on undefined behavior
0195 (U)	DCL11-C. Understand the type issues associated with variadic functions
0196	FIO47-C. Use valid format strings
0196	MSC15-C. Do not depend on undefined behavior
0196 (U)	DCL11-C. Understand the type issues associated with variadic functions
0197	FIO47-C. Use valid format strings
0197	MSC15-C. Do not depend on undefined behavior
0197 (U)	DCL11-C. Understand the type issues associated with variadic functions
0198	FIO47-C. Use valid format strings
0198	MSC15-C. Do not depend on undefined behavior
0198 (U)	DCL11-C. Understand the type issues associated with variadic functions
0199	FIO47-C. Use valid format strings

0199	MSC15-C. Do not depend on undefined behavior
0199 (U)	DCL11-C. Understand the type issues associated with variadic functions
0200	FIO47-C. Use valid format strings
0200	MSC15-C. Do not depend on undefined behavior
0200 (U)	DCL11-C. Understand the type issues associated with variadic functions
0201	FIO47-C. Use valid format strings
0201	MSC15-C. Do not depend on undefined behavior
0201 (U)	DCL11-C. Understand the type issues associated with variadic functions
0202	FIO47-C. Use valid format strings
0202	MSC14-C. Do not introduce unnecessary platform dependencies
203	MSC15-C. Do not depend on undefined behavior
0204	FIO47-C. Use valid format strings
0204	MSC15-C. Do not depend on undefined behavior
0206	FIO47-C. Use valid format strings
0206	MSC15-C. Do not depend on undefined behavior
0206 (U)	DCL11-C. Understand the type issues associated with variadic functions
0207	DCL11-C. Understand the type issues associated with variadic functions
0207	MSC15-C. Do not depend on undefined behavior
0208	DCL11-C. Understand the type issues associated with variadic functions
0208	MSC15-C. Do not depend on undefined behavior
0232	MSC40-C. Do not violate constraints
0233	MSC40-C. Do not violate constraints
0235	MSC15-C. Do not depend on undefined behavior
0240	MSC14-C. Do not introduce unnecessary platform dependencies
0241	MSC14-C. Do not introduce unnecessary platform dependencies
0242	MSC14-C. Do not introduce unnecessary platform dependencies
0243	MSC14-C. Do not introduce unnecessary platform dependencies
0244	MSC40-C. Do not violate constraints
0246	MSC14-C. Do not introduce unnecessary platform dependencies
0268	MSC40-C. Do not violate constraints
0275	MSC15-C. Do not depend on undefined behavior
0278	MSC40-C. Do not violate constraints
0284	MSC14-C. Do not introduce unnecessary platform dependencies
0285	MSC09-C. Character encoding: Use subset of ASCII for safety
0286	MSC09-C. Character encoding: Use subset of ASCII for safety
0287	MSC09-C. Character encoding: Use subset of ASCII for safety
0288	MSC09-C. Character encoding: Use subset of ASCII for safety
0289	MSC09-C. Character encoding: Use subset of ASCII for safety
0299	MSC09-C. Character encoding: Use subset of ASCII for safety
0301	MSC15-C. Do not depend on undefined behavior
0302	MSC15-C. Do not depend on undefined behavior
0303	INT36-C. Converting a pointer to integer or integer to pointer
0304	MSC15-C. Do not depend on undefined behavior
0305	INT36-C. Converting a pointer to integer or integer to pointer
0306	INT36-C. Converting a pointer to integer or integer to pointer
0307	MSC15-C. Do not depend on undefined behavior
0309	INT36-C. Converting a pointer to integer or integer to pointer

0309	MSC15-C. Do not depend on undefined behavior
0310	EXP39-C. Do not access a variable through a pointer of an incompatible type
0310	EXP11-C. Do not make assumptions regarding the layout of structures with bit-fields
0311	EXP05-C. Do not cast away a const qualification
0312	EXP32-C. Do not access a volatile object through a nonvolatile reference
0321	MSC40-C. Do not violate constraints
0322	MSC40-C. Do not violate constraints
0323	MSC15-C. Do not depend on undefined behavior
0324	INT36-C. Converting a pointer to integer or integer to pointer
0326	EXP36-C. Do not cast pointers into more strictly aligned pointer types
0326	INT36-C. Converting a pointer to integer or integer to pointer
0327	MSC15-C. Do not depend on undefined behavior
0337	MSC15-C. Do not depend on undefined behavior
0338	MSC40-C. Do not violate constraints
0339	DCL18-C. Do not begin integer constants with 0 when specifying a decimal value
0341	PRE05-C. Understand macro replacement when concatenating tokens or performing stringification
0342	PRE05-C. Understand macro replacement when concatenating tokens or performing stringification
0360	INT36-C. Converting a pointer to integer or integer to pointer
0361	INT36-C. Converting a pointer to integer or integer to pointer
0362	INT36-C. Converting a pointer to integer or integer to pointer
0400	MSC15-C. Do not depend on undefined behavior
0400 [U]	EXP30-C. Do not depend on the order of evaluation for side effects
0400 [U]	EXP10-C. Do not depend on the order of evaluation of subexpressions or the order in which side effects take place
0401	EXP10-C. Do not depend on the order of evaluation of subexpressions or the order in which side effects take place
0401	MSC15-C. Do not depend on undefined behavior
0401 [U]	EXP30-C. Do not depend on the order of evaluation for side effects
0402	EXP10-C. Do not depend on the order of evaluation of subexpressions or the order in which side effects take place
0402	MSC15-C. Do not depend on undefined behavior
0402 [U]	EXP30-C. Do not depend on the order of evaluation for side effects
0403	EXP10-C. Do not depend on the order of evaluation of subexpressions or the order in which side effects take place
0403	MSC15-C. Do not depend on undefined behavior
0403 [U]	EXP30-C. Do not depend on the order of evaluation for side effects
0403 [U]	EXP30-C. Do not depend on the order of evaluation for side effects
0403 [U]	EXP30-C. Do not depend on the order of evaluation for side effects
0404	EXP10-C. Do not depend on the order of evaluation of subexpressions or the order in which side effects take place
0404 [U]	EXP30-C. Do not depend on the order of evaluation for side effects
0405	EXP10-C. Do not depend on the order of evaluation of subexpressions or the order in which side effects take place
0405 [U]	EXP30-C. Do not depend on the order of evaluation for side effects
0422	MSC40-C. Do not violate constraints
0423	MSC40-C. Do not violate constraints
0426	MSC40-C. Do not violate constraints
0427	MSC40-C. Do not violate constraints
0428	EXP16-C. Do not compare function pointers to constant values
0429	MSC40-C. Do not violate constraints
0430	MSC40-C. Do not violate constraints
0431	MSC40-C. Do not violate constraints
0431	EXP05-C. Do not cast away a const qualification

0431(C)	DCL13-C. Declare function parameters that are pointers to values not changed by the function as const
0432	STR38-C. Do not confuse narrow and wide character strings and functions
0432	MSC40-C. Do not violate constraints
0432 [C]	STR04-C. Use plain char for characters in the basic character set
0434 (C)	DCL31-C. Declare identifiers before using them
0435	MSC40-C. Do not violate constraints
0436	MSC40-C. Do not violate constraints
0437	MSC40-C. Do not violate constraints
0446	MSC40-C. Do not violate constraints
0447	MSC40-C. Do not violate constraints
0448	MSC40-C. Do not violate constraints
0449	MSC40-C. Do not violate constraints
0450 [U]	EXP35-C. Do not modify objects with temporary lifetime
0451	MSC40-C. Do not violate constraints
0452	MSC40-C. Do not violate constraints
0453	MSC40-C. Do not violate constraints
0454	MSC40-C. Do not violate constraints
0455 [U]	EXP35-C. Do not modify objects with temporary lifetime
0456	MSC40-C. Do not violate constraints
0457	MSC40-C. Do not violate constraints
0458	MSC40-C. Do not violate constraints
0459 [U]	EXP35-C. Do not modify objects with temporary lifetime
0460	MSC40-C. Do not violate constraints
0461	MSC40-C. Do not violate constraints
0462	MSC40-C. Do not violate constraints
0463	MSC40-C. Do not violate constraints
0465 [U]	EXP35-C. Do not modify objects with temporary lifetime
0465 [U]	EXP35-C. Do not modify objects with temporary lifetime
0466	MSC40-C. Do not violate constraints
0467	MSC40-C. Do not violate constraints
0468	MSC40-C. Do not violate constraints
0469	MSC40-C. Do not violate constraints
0475	MSC15-C. Do not depend on undefined behavior
0476	MSC40-C. Do not violate constraints
0477	MSC40-C. Do not violate constraints
0478	MSC40-C. Do not violate constraints
0481	MSC40-C. Do not violate constraints
0482	MSC40-C. Do not violate constraints
0483	MSC40-C. Do not violate constraints
0484	MSC40-C. Do not violate constraints
0485	MSC40-C. Do not violate constraints
0486	MSC40-C. Do not violate constraints
0487	ARR36-C. Do not subtract or compare two pointers that do not refer to the same array
0487	MSC40-C. Do not violate constraints
0488	EXP08-C. Ensure pointer arithmetic is used correctly
0493	MSC40-C. Do not violate constraints
0494	MSC40-C. Do not violate constraints

0495	MSC40-C. Do not violate constraints
0496	MSC40-C. Do not violate constraints
0499	INT34-C. Do not shift an expression by a negative number of bits or by greater than or equal to the number of bits that exist in the operand
0513	ARR36-C. Do not subtract or compare two pointers that do not refer to the same array
0513	MSC40-C. Do not violate constraints
0514	MSC40-C. Do not violate constraints
0515	MSC40-C. Do not violate constraints
0536	MSC40-C. Do not violate constraints
0537	MSC40-C. Do not violate constraints
0540	MSC40-C. Do not violate constraints
0541	MSC40-C. Do not violate constraints
0542	MSC40-C. Do not violate constraints
0543	MSC15-C. Do not depend on undefined behavior
0544	MSC15-C. Do not depend on undefined behavior
0545	MSC15-C. Do not depend on undefined behavior
0546	MSC40-C. Do not violate constraints
0547	MSC40-C. Do not violate constraints
0550	MSC40-C. Do not violate constraints
0551	MSC14-C. Do not introduce unnecessary platform dependencies
0554	MSC40-C. Do not violate constraints
0555	MSC40-C. Do not violate constraints
0556	STR30-C. Do not attempt to modify string literals
0556	MSC40-C. Do not violate constraints
0557	MSC40-C. Do not violate constraints
0558	MSC40-C. Do not violate constraints
0559	MSC40-C. Do not violate constraints
0560	MSC40-C. Do not violate constraints
0561	MSC40-C. Do not violate constraints
0562	MSC40-C. Do not violate constraints
562	EXP32-C. Do not access a volatile object through a nonvolatile reference
0563	EXP40-C. Do not modify constant objects
0563	MSC40-C. Do not violate constraints
563	EXP32-C. Do not access a volatile object through a nonvolatile reference
0564	MSC40-C. Do not violate constraints
0565	MSC40-C. Do not violate constraints
0580	MSC40-C. Do not violate constraints
0581	MSC14-C. Do not introduce unnecessary platform dependencies
0588	MSC40-C. Do not violate constraints
0589	MSC40-C. Do not violate constraints
0590	MSC40-C. Do not violate constraints
0591	MSC40-C. Do not violate constraints
0601	MSC14-C. Do not introduce unnecessary platform dependencies
0602	DCL37-C. Do not declare or define a reserved identifier
0602	MSC15-C. Do not depend on undefined behavior
0603	DCL37-C. Do not declare or define a reserved identifier
0603	MSC15-C. Do not depend on undefined behavior
0605	MSC40-C. Do not violate constraints

0616	MSC40-C. Do not violate constraints
0619	MSC40-C. Do not violate constraints
0620	MSC40-C. Do not violate constraints
0621	MSC40-C. Do not violate constraints
0622	MSC40-C. Do not violate constraints
0623	MSC15-C. Do not depend on undefined behavior
0625	MSC15-C. Do not depend on undefined behavior
0625 (U)	DCL36-C. Do not declare an identifier with conflicting linkage classifications
0626	MSC15-C. Do not depend on undefined behavior
0627	MSC40-C. Do not violate constraints
0627	DCL23-C. Guarantee that mutually visible identifiers are unique
0628	MSC40-C. Do not violate constraints
0629	MSC40-C. Do not violate constraints
0630	MSC15-C. Do not depend on undefined behavior
0631	MSC40-C. Do not violate constraints
0632	MSC15-C. Do not depend on undefined behavior
0633	MSC14-C. Do not introduce unnecessary platform dependencies
0634	MSC14-C. Do not introduce unnecessary platform dependencies
0634 (I)	INT12-C. Do not make assumptions about the type of a plain int bit-field when used in an expression
0635	INT12-C. Do not make assumptions about the type of a plain int bit-field when used in an expression
0635	MSC14-C. Do not introduce unnecessary platform dependencies
0636	MSC15-C. Do not depend on undefined behavior
0638	MSC40-C. Do not violate constraints
0640	MSC40-C. Do not violate constraints
0641	MSC40-C. Do not violate constraints
0642	MSC40-C. Do not violate constraints
0643	MSC40-C. Do not violate constraints
0644	MSC40-C. Do not violate constraints
0645	MSC40-C. Do not violate constraints
0646	MSC40-C. Do not violate constraints
0649	MSC40-C. Do not violate constraints
0650	MSC40-C. Do not violate constraints
0651	MSC40-C. Do not violate constraints
0653	MSC40-C. Do not violate constraints
0654	MSC15-C. Do not depend on undefined behavior
0655	MSC40-C. Do not violate constraints
0656	MSC40-C. Do not violate constraints
0657	MSC40-C. Do not violate constraints
0658	MSC15-C. Do not depend on undefined behavior
0659	MSC40-C. Do not violate constraints
0660	MSC14-C. Do not introduce unnecessary platform dependencies
0661	MSC15-C. Do not depend on undefined behavior
0662	MSC14-C. Do not introduce unnecessary platform dependencies
0664	MSC40-C. Do not violate constraints
0665	MSC40-C. Do not violate constraints
0667	MSC15-C. Do not depend on undefined behavior
0668	MSC15-C. Do not depend on undefined behavior

0669	MSC40-C. Do not violate constraints
0671	MSC40-C. Do not violate constraints
0672	MSC15-C. Do not depend on undefined behavior
0673	MSC40-C. Do not violate constraints
673	EXP32-C. Do not access a volatile object through a nonvolatile reference
0674	MSC40-C. Do not violate constraints
0674	STR04-C. Use plain char for characters in the basic character set
674	EXP32-C. Do not access a volatile object through a nonvolatile reference
0675	MSC40-C. Do not violate constraints
0676	MSC15-C. Do not depend on undefined behavior
0677	MSC40-C. Do not violate constraints
0678	ARR02-C. Explicitly specify array bounds, even if implicitly defined by an initializer
0678	MSC15-C. Do not depend on undefined behavior
0680	MSC15-C. Do not depend on undefined behavior
0682	MSC40-C. Do not violate constraints
0683	MSC40-C. Do not violate constraints
0684	MSC40-C. Do not violate constraints
0685	MSC40-C. Do not violate constraints
0688	ARR02-C. Explicitly specify array bounds, even if implicitly defined by an initializer
0690	MSC40-C. Do not violate constraints
0695	MEM02-C. Immediately cast the result of a memory allocation function call into a pointer to the allocated type
0696	MEM35-C. Allocate sufficient memory for an object
0697	EXP03-C. Do not assume the size of a structure is the sum of the sizes of its members
0698	MSC40-C. Do not violate constraints
0699	MSC40-C. Do not violate constraints
0699	STR04-C. Use plain char for characters in the basic character set
0701	MEM35-C. Allocate sufficient memory for an object
0706	MSC15-C. Do not depend on undefined behavior
0708	MSC40-C. Do not violate constraints
0709	MSC40-C. Do not violate constraints
0724	INT09-C. Ensure enumeration constants map to unique values
0736	MSC40-C. Do not violate constraints
0737	MSC40-C. Do not violate constraints
0738	MSC40-C. Do not violate constraints
0745	MSC15-C. Do not depend on undefined behavior
0746	MSC40-C. Do not violate constraints
0747	MSC40-C. Do not violate constraints
0751	EXP39-C. Do not access a variable through a pointer of an incompatible type
0751	EXP11-C. Do not make assumptions regarding the layout of structures with bit-fields
0752	STR30-C. Do not attempt to modify string literals
0752	STR05-C. Use pointers to const when referring to string literals
0753	STR30-C. Do not attempt to modify string literals
0753	STR05-C. Use pointers to const when referring to string literals
0754	STR30-C. Do not attempt to modify string literals
0755	MSC40-C. Do not violate constraints
0756	MSC40-C. Do not violate constraints
0757	MSC40-C. Do not violate constraints

0758	MSC40-C. Do not violate constraints
0766	MSC40-C. Do not violate constraints
0767	MSC40-C. Do not violate constraints
0768	MSC40-C. Do not violate constraints
0774	MSC40-C. Do not violate constraints
0775	MSC40-C. Do not violate constraints
0776	DCL40-C. Do not create incompatible declarations of the same function or object
0776	DCL23-C. Guarantee that mutually visible identifiers are unique
0777	DCL23-C. Guarantee that mutually visible identifiers are unique
0777	MSC15-C. Do not depend on undefined behavior
0778	DCL40-C. Do not create incompatible declarations of the same function or object
0778	DCL23-C. Guarantee that mutually visible identifiers are unique
0779	DCL40-C. Do not create incompatible declarations of the same function or object
0779	DCL23-C. Guarantee that mutually visible identifiers are unique
0779	MSC15-C. Do not depend on undefined behavior
0789	DCL40-C. Do not create incompatible declarations of the same function or object
0789	DCL23-C. Guarantee that mutually visible identifiers are unique
0790	FLP02-C. Avoid using floating-point numbers when precise computation is needed
0791	DCL23-C. Guarantee that mutually visible identifiers are unique
0793	DCL23-C. Guarantee that mutually visible identifiers are unique
0795	DCL01-C. Do not reuse variable names in subscopes
0796	DCL01-C. Do not reuse variable names in subscopes
0801	MSC40-C. Do not violate constraints
0801	PRE05-C. Understand macro replacement when concatenating tokens or performing stringification
0802	MSC40-C. Do not violate constraints
0802	PRE05-C. Understand macro replacement when concatenating tokens or performing stringification
0803	MSC40-C. Do not violate constraints
803	PRE05-C. Understand macro replacement when concatenating tokens or performing stringification
0804	MSC40-C. Do not violate constraints
0811	MSC40-C. Do not violate constraints
0811	PRE05-C. Understand macro replacement when concatenating tokens or performing stringification
0812	MSC40-C. Do not violate constraints
0813	MSC15-C. Do not depend on undefined behavior
0814	MSC15-C. Do not depend on undefined behavior
0821	MSC40-C. Do not violate constraints
0821	MSC15-C. Do not depend on undefined behavior
0830	MSC14-C. Do not introduce unnecessary platform dependencies
0831	MSC14-C. Do not introduce unnecessary platform dependencies
0834	MSC40-C. Do not violate constraints
0835	MSC40-C. Do not violate constraints
0836	MSC15-C. Do not depend on undefined behavior
0837	MSC15-C. Do not depend on undefined behavior
0840	MSC14-C. Do not introduce unnecessary platform dependencies
0844	MSC40-C. Do not violate constraints
0845	MSC40-C. Do not violate constraints
0848	MSC15-C. Do not depend on undefined behavior
0851	MSC40-C. Do not violate constraints

0852	MSC40-C. Do not violate constraints
0853	PRE32-C. Do not use preprocessor directives in invocations of function-like macros
0853	MSC15-C. Do not depend on undefined behavior
0854	MSC15-C. Do not depend on undefined behavior
0864	MSC15-C. Do not depend on undefined behavior
0865	MSC15-C. Do not depend on undefined behavior
0866	MSC40-C. Do not violate constraints
0867	MSC15-C. Do not depend on undefined behavior
0872	MSC15-C. Do not depend on undefined behavior
0872	PRE05-C. Understand macro replacement when concatenating tokens or performing stringification
0873	MSC40-C. Do not violate constraints
0874	MSC15-C. Do not depend on undefined behavior
0874	STR10-C. Do not concatenate different type of string literals
0877	MSC40-C. Do not violate constraints
0880	PRE05-C. Understand macro replacement when concatenating tokens or performing stringification
0881	PRE05-C. Understand macro replacement when concatenating tokens or performing stringification
0883	MSC14-C. Do not introduce unnecessary platform dependencies
0883	PRE06-C. Enclose header files in an include guard
0884	PRE05-C. Understand macro replacement when concatenating tokens or performing stringification
0885	MSC15-C. Do not depend on undefined behavior
0887	MSC15-C. Do not depend on undefined behavior
0888	MSC15-C. Do not depend on undefined behavior
0899	MSC14-C. Do not introduce unnecessary platform dependencies
0905	PRE30-C. Do not create a universal character name through concatenation
0914	MSC15-C. Do not depend on undefined behavior
0915	MSC15-C. Do not depend on undefined behavior
0940	MSC40-C. Do not violate constraints
0941	MSC40-C. Do not violate constraints
0942	MSC15-C. Do not depend on undefined behavior
0943	MSC40-C. Do not violate constraints
0944	MSC40-C. Do not violate constraints
1001	MSC14-C. Do not introduce unnecessary platform dependencies
1002	MSC14-C. Do not introduce unnecessary platform dependencies
1003	MSC14-C. Do not introduce unnecessary platform dependencies
1006	MSC14-C. Do not introduce unnecessary platform dependencies
1008	MSC14-C. Do not introduce unnecessary platform dependencies
1012	MSC14-C. Do not introduce unnecessary platform dependencies
1014	MSC14-C. Do not introduce unnecessary platform dependencies
1015	MSC14-C. Do not introduce unnecessary platform dependencies
1019	MSC14-C. Do not introduce unnecessary platform dependencies
1020	MSC14-C. Do not introduce unnecessary platform dependencies
1021	MSC14-C. Do not introduce unnecessary platform dependencies
1022	MSC14-C. Do not introduce unnecessary platform dependencies
1023	MSC40-C. Do not violate constraints
1024	MSC40-C. Do not violate constraints
1025	MSC40-C. Do not violate constraints
1026	MSC14-C. Do not introduce unnecessary platform dependencies

1028	MSC14-C. Do not introduce unnecessary platform dependencies
1029	MSC14-C. Do not introduce unnecessary platform dependencies
1033	MSC40-C. Do not violate constraints
1034	MSC14-C. Do not introduce unnecessary platform dependencies
1035	MSC14-C. Do not introduce unnecessary platform dependencies
1036	MSC14-C. Do not introduce unnecessary platform dependencies
1037 1039	DCL38-C. Use the correct syntax when declaring a flexible array member
1038	MSC14-C. Do not introduce unnecessary platform dependencies
1041	MSC14-C. Do not introduce unnecessary platform dependencies
1042	MSC14-C. Do not introduce unnecessary platform dependencies
1043	MSC14-C. Do not introduce unnecessary platform dependencies
1044	MSC14-C. Do not introduce unnecessary platform dependencies
1045	MSC14-C. Do not introduce unnecessary platform dependencies
1046	MSC14-C. Do not introduce unnecessary platform dependencies
1047	MSC40-C. Do not violate constraints
1048	MSC40-C. Do not violate constraints
1050	MSC40-C. Do not violate constraints
1051	ARR32-C. Ensure size arguments for variable length arrays are in a valid range
1051	MEM05-C. Avoid large stack allocations
1054	DCL21-C. Understand the storage of compound literals
1057	EXP43-C. Avoid undefined behavior when using restrict-qualified pointers
1061	MEM33-C. Allocate and copy structures containing a flexible array member dynamically
1061	MSC40-C. Do not violate constraints
1062	MEM33-C. Allocate and copy structures containing a flexible array member dynamically
1062	MSC40-C. Do not violate constraints
1063	MEM33-C. Allocate and copy structures containing a flexible array member dynamically
1064	MEM33-C. Allocate and copy structures containing a flexible array member dynamically
1069	MEM35-C. Allocate sufficient memory for an object
1071	MEM35-C. Allocate sufficient memory for an object
1073	MEM35-C. Allocate sufficient memory for an object
1114	CON40-C. Do not refer to an atomic variable twice in an expression
1115	CON40-C. Do not refer to an atomic variable twice in an expression
1116	CON40-C. Do not refer to an atomic variable twice in an expression
1250	INT02-C. Understand integer conversion rules
1251	INT02-C. Understand integer conversion rules
1252	INT02-C. Understand integer conversion rules
1253	INT02-C. Understand integer conversion rules
1256	INT02-C. Understand integer conversion rules
1257	INT02-C. Understand integer conversion rules
1260	FLP36-C. Preserve precision when converting integral values to floating-point type
1260	INT02-C. Understand integer conversion rules
1263	FLP36-C. Preserve precision when converting integral values to floating-point type
1263	INT02-C. Understand integer conversion rules
1266	INT02-C. Understand integer conversion rules
1272	DCL18-C. Do not begin integer constants with 0 when specifying a decimal value
1274	INT02-C. Understand integer conversion rules
1280	DCL16-C. Use "L," not "l," to indicate a long value

1290	INT02-C. Understand integer conversion rules
1291	INT02-C. Understand integer conversion rules
1292	INT02-C. Understand integer conversion rules
1292	INT07-C. Use only explicitly signed or unsigned char type for numeric values
1293	INT02-C. Understand integer conversion rules
1293	INT07-C. Use only explicitly signed or unsigned char type for numeric values
1294	INT02-C. Understand integer conversion rules
1295	INT02-C. Understand integer conversion rules
1296	INT02-C. Understand integer conversion rules
1297	INT02-C. Understand integer conversion rules
1298	FLP36-C. Preserve precision when converting integral values to floating-point type
1298	INT02-C. Understand integer conversion rules
1299	FLP36-C. Preserve precision when converting integral values to floating-point type
1299	INT02-C. Understand integer conversion rules
1302	DCL31-C. Declare identifiers before using them
1304	DCL07-C. Include the appropriate type information in function declarators
1312	STR11-C. Do not specify the bound of a character array initialized with a string literal
1331	EXP37-C. Call functions with the correct number and type of arguments
1332	EXP37-C. Call functions with the correct number and type of arguments
1333	EXP37-C. Call functions with the correct number and type of arguments
1434	MSC14-C. Do not introduce unnecessary platform dependencies
1485	FIO38-C. Do not copy a FILE object
1488	EXP42-C. Do not compare padding data
1492	ENV30-C. Do not modify the object referenced by the return value of certain functions
1493	ENV30-C. Do not modify the object referenced by the return value of certain functions
1494	ENV30-C. Do not modify the object referenced by the return value of certain functions
1500	MSC13-C. Detect and remove unused values
1501	MSC07-C. Detect and remove dead code
1502	MSC13-C. Detect and remove unused values
1503	MSC07-C. Detect and remove dead code
1504	DCL15-C. Declare file-scope objects or functions that do not need external linkage as static
1504	DCL19-C. Minimize the scope of variables and functions
1505	DCL19-C. Minimize the scope of variables and functions
1509	MSC15-C. Do not depend on undefined behavior
1510	DCL40-C. Do not create incompatible declarations of the same function or object
1510	MSC15-C. Do not depend on undefined behavior
1520	MEM05-C. Avoid large stack allocations
1531	DCL15-C. Declare file-scope objects or functions that do not need external linkage as static
1531	DCL19-C. Minimize the scope of variables and functions
1532	DCL19-C. Minimize the scope of variables and functions
1800	FLP36-C. Preserve precision when converting integral values to floating-point type
1800	INT02-C. Understand integer conversion rules
1802	FLP36-C. Preserve precision when converting integral values to floating-point type
1802	INT02-C. Understand integer conversion rules
1803	FLP36-C. Preserve precision when converting integral values to floating-point type
1803	INT02-C. Understand integer conversion rules
1804	FLP36-C. Preserve precision when converting integral values to floating-point type

1804	INT02-C. Understand integer conversion rules
1810	INT02-C. Understand integer conversion rules
1811	INT02-C. Understand integer conversion rules
1812	INT02-C. Understand integer conversion rules
1813	INT02-C. Understand integer conversion rules
1820	INT02-C. Understand integer conversion rules
1821	INT02-C. Understand integer conversion rules
1822	INT02-C. Understand integer conversion rules
1823	INT02-C. Understand integer conversion rules
1824	INT02-C. Understand integer conversion rules
1830	INT02-C. Understand integer conversion rules
1831	INT02-C. Understand integer conversion rules
1832	INT02-C. Understand integer conversion rules
1833	INT02-C. Understand integer conversion rules
1834	INT02-C. Understand integer conversion rules
1840	INT02-C. Understand integer conversion rules
1841	INT02-C. Understand integer conversion rules
1842	INT02-C. Understand integer conversion rules
1843	INT02-C. Understand integer conversion rules
1844	INT02-C. Understand integer conversion rules
1850	INT02-C. Understand integer conversion rules
1851	INT02-C. Understand integer conversion rules
1852	INT02-C. Understand integer conversion rules
1853	INT02-C. Understand integer conversion rules
1854	INT02-C. Understand integer conversion rules
1860	INT02-C. Understand integer conversion rules
1861	INT02-C. Understand integer conversion rules
1862	INT02-C. Understand integer conversion rules
1863	INT02-C. Understand integer conversion rules
1864	INT02-C. Understand integer conversion rules
1880	INT02-C. Understand integer conversion rules
1881	INT02-C. Understand integer conversion rules
1882	INT02-C. Understand integer conversion rules
1890	INT18-C. Evaluate integer expressions in a larger size before comparing or assigning to that size
1891	INT18-C. Evaluate integer expressions in a larger size before comparing or assigning to that size
1892	INT18-C. Evaluate integer expressions in a larger size before comparing or assigning to that size
1893	INT18-C. Evaluate integer expressions in a larger size before comparing or assigning to that size
1894	INT18-C. Evaluate integer expressions in a larger size before comparing or assigning to that size
1895	INT18-C. Evaluate integer expressions in a larger size before comparing or assigning to that size
2000	MSC01-C. Strive for logical completeness
2002	MSC01-C. Strive for logical completeness
2003	MSC17-C. Finish every set of statements associated with a case label with a break statement
2004	MSC01-C. Strive for logical completeness
2008	DCL41-C. Do not declare variables inside a switch statement before the first case label
2008	MSC07-C. Detect and remove dead code
2019	MSC20-C. Do not use a switch statement to transfer control into a complex block
2026	CON41-C. Wrap functions that can fail spuriously in a loop

2027	CON36-C. Wrap functions that can spuriously wake up in a loop
2028	SIG30-C. Call only asynchronous-safe functions within signal handlers
2029	SIG31-C. Do not access shared objects in signal handlers
2030	SIG30-C. Call only asynchronous-safe functions within signal handlers
2030	SIG31-C. Do not access shared objects in signal handlers
2031	ERR32-C. Do not rely on indeterminate values of errno
2050	DCL31-C. Declare identifiers before using them
2050	DCL07-C. Include the appropriate type information in function declarators
2051	DCL31-C. Declare identifiers before using them
2052	ARR32-C. Ensure size arguments for variable length arrays are in a valid range
2052	MEM05-C. Avoid large stack allocations
2100	INT02-C. Understand integer conversion rules
2101	INT02-C. Understand integer conversion rules
2102	INT02-C. Understand integer conversion rules
2103	INT02-C. Understand integer conversion rules
2104	INT02-C. Understand integer conversion rules
2105	INT02-C. Understand integer conversion rules
2106	INT02-C. Understand integer conversion rules
2106	STR09-C. Don't assume numeric values for expressions with type plain character
2107	INT02-C. Understand integer conversion rules
2107	STR09-C. Don't assume numeric values for expressions with type plain character
2109	INT02-C. Understand integer conversion rules
2110	INT02-C. Understand integer conversion rules
2111	INT02-C. Understand integer conversion rules
2112	INT02-C. Understand integer conversion rules
2113	INT02-C. Understand integer conversion rules
2114	INT02-C. Understand integer conversion rules
2115	INT02-C. Understand integer conversion rules
2116	INT02-C. Understand integer conversion rules
2117	INT02-C. Understand integer conversion rules
2118	INT02-C. Understand integer conversion rules
2119	INT02-C. Understand integer conversion rules
2120	INT02-C. Understand integer conversion rules
2122	INT02-C. Understand integer conversion rules
2124	INT02-C. Understand integer conversion rules
2130	INT02-C. Understand integer conversion rules
2132	INT02-C. Understand integer conversion rules
2134	INT02-C. Understand integer conversion rules
2140	STR34-C. Cast characters to unsigned char before converting to larger integer sizes
2141	STR34-C. Cast characters to unsigned char before converting to larger integer sizes
2143	STR34-C. Cast characters to unsigned char before converting to larger integer sizes
2144	STR34-C. Cast characters to unsigned char before converting to larger integer sizes
2145	STR34-C. Cast characters to unsigned char before converting to larger integer sizes
2147	STR34-C. Cast characters to unsigned char before converting to larger integer sizes
2148	STR34-C. Cast characters to unsigned char before converting to larger integer sizes
2149	STR34-C. Cast characters to unsigned char before converting to larger integer sizes
2151	STR34-C. Cast characters to unsigned char before converting to larger integer sizes

2152	STR34-C. Cast characters to unsigned char before converting to larger integer sizes
2153	STR34-C. Cast characters to unsigned char before converting to larger integer sizes
2155	STR34-C. Cast characters to unsigned char before converting to larger integer sizes
2212	EXP19-C. Use braces for the body of an if, for, or while statement
2500	ERR30-C. Set errno to zero before calling a library function known to set errno, and check errno only after the function returns a value indicating failure
2501	ERR30-C. Set errno to zero before calling a library function known to set errno, and check errno only after the function returns a value indicating failure
2502	ERR30-C. Set errno to zero before calling a library function known to set errno, and check errno only after the function returns a value indicating failure
2503	ERR30-C. Set errno to zero before calling a library function known to set errno, and check errno only after the function returns a value indicating failure
2547	DCL01-C. Do not reuse variable names in subsopes
2668	ARR36-C. Do not subtract or compare two pointers that do not refer to the same array
2669	ARR36-C. Do not subtract or compare two pointers that do not refer to the same array
2676	FIO34-C. Distinguish between characters read from a file and EOF or WEOF
2678	FIO34-C. Distinguish between characters read from a file and EOF or WEOF
2681	ENV34-C. Do not store pointers returned by certain functions
2682	ENV34-C. Do not store pointers returned by certain functions
2683	ENV34-C. Do not store pointers returned by certain functions
2696	FIO46-C. Do not access a closed file
2697	FIO46-C. Do not access a closed file
2698	FIO46-C. Do not access a closed file
2701	FIO42-C. Close files when they are no longer needed
2702	FIO42-C. Close files when they are no longer needed
2703	FIO42-C. Close files when they are no longer needed
2706	MEM31-C. Free dynamically allocated memory when no longer needed
2707	MEM31-C. Free dynamically allocated memory when no longer needed
2708	MEM31-C. Free dynamically allocated memory when no longer needed
2721	MEM34-C. Only free memory allocated dynamically
2722	MEM34-C. Only free memory allocated dynamically
2723	MEM34-C. Only free memory allocated dynamically
2726	EXP33-C. Do not read uninitialized memory
2727	EXP33-C. Do not read uninitialized memory
2728	EXP33-C. Do not read uninitialized memory
2761	ARR36-C. Do not subtract or compare two pointers that do not refer to the same array
2762	ARR36-C. Do not subtract or compare two pointers that do not refer to the same array
2763	ARR36-C. Do not subtract or compare two pointers that do not refer to the same array
2766	ARR36-C. Do not subtract or compare two pointers that do not refer to the same array
2767	ARR36-C. Do not subtract or compare two pointers that do not refer to the same array
2768	ARR36-C. Do not subtract or compare two pointers that do not refer to the same array
2771	ARR36-C. Do not subtract or compare two pointers that do not refer to the same array
2772	ARR36-C. Do not subtract or compare two pointers that do not refer to the same array
2773	ARR36-C. Do not subtract or compare two pointers that do not refer to the same array
2790 [C]	INT34-C. Do not shift an expression by a negative number of bits or by greater than or equal to the number of bits that exist in the operand
2791 [D]	INT34-C. Do not shift an expression by a negative number of bits or by greater than or equal to the number of bits that exist in the operand
2792 [A]	INT34-C. Do not shift an expression by a negative number of bits or by greater than or equal to the number of bits that exist in the operand
2793 [S]	INT34-C. Do not shift an expression by a negative number of bits or by greater than or equal to the number of bits that exist in the operand
2800	INT32-C. Ensure that operations on signed integers do not result in overflow
2800	INT08-C. Verify that all integer values are in range
2801	INT32-C. Ensure that operations on signed integers do not result in overflow

2801	INT08-C. Verify that all integer values are in range
2802	INT32-C. Ensure that operations on signed integers do not result in overflow
2802	INT08-C. Verify that all integer values are in range
2803	INT32-C. Ensure that operations on signed integers do not result in overflow
2803	INT08-C. Verify that all integer values are in range
2810	EXP34-C. Do not dereference null pointers
2811	EXP34-C. Do not dereference null pointers
2812	EXP34-C. Do not dereference null pointers
2813	EXP34-C. Do not dereference null pointers
2814	EXP34-C. Do not dereference null pointers
2820	EXP34-C. Do not dereference null pointers
2821	EXP34-C. Do not dereference null pointers
2822	EXP34-C. Do not dereference null pointers
2823	EXP34-C. Do not dereference null pointers
2824	EXP34-C. Do not dereference null pointers
2830 [C]	INT33-C. Ensure that division and remainder operations do not result in divide-by-zero errors
2831 [D]	INT33-C. Ensure that division and remainder operations do not result in divide-by-zero errors
2832 [A]	INT33-C. Ensure that division and remainder operations do not result in divide-by-zero errors
2833 [S]	INT33-C. Ensure that division and remainder operations do not result in divide-by-zero errors
2834 [P]	INT33-C. Ensure that division and remainder operations do not result in divide-by-zero errors
2835	STR32-C. Do not pass a non-null-terminated character sequence to a library function that expects a string
2836	STR32-C. Do not pass a non-null-terminated character sequence to a library function that expects a string
2839	STR32-C. Do not pass a non-null-terminated character sequence to a library function that expects a string
2840	ARR30-C. Do not form or use out-of-bounds pointers or array subscripts
2841	ARR30-C. Do not form or use out-of-bounds pointers or array subscripts
2842	ARR30-C. Do not form or use out-of-bounds pointers or array subscripts
2843	ARR30-C. Do not form or use out-of-bounds pointers or array subscripts
2844	ARR30-C. Do not form or use out-of-bounds pointers or array subscripts
2845	ARR38-C. Guarantee that library functions do not form invalid pointers
2845	STR31-C. Guarantee that storage for strings has sufficient space for character data and the null terminator
2846	ARR38-C. Guarantee that library functions do not form invalid pointers
2846	STR31-C. Guarantee that storage for strings has sufficient space for character data and the null terminator
2847	ARR38-C. Guarantee that library functions do not form invalid pointers
2847	STR31-C. Guarantee that storage for strings has sufficient space for character data and the null terminator
2848	ARR38-C. Guarantee that library functions do not form invalid pointers
2848	STR31-C. Guarantee that storage for strings has sufficient space for character data and the null terminator
2849	ARR38-C. Guarantee that library functions do not form invalid pointers
2849	STR31-C. Guarantee that storage for strings has sufficient space for character data and the null terminator
2850	INT31-C. Ensure that integer conversions do not result in lost or misinterpreted data
2851	INT31-C. Ensure that integer conversions do not result in lost or misinterpreted data
2852	INT31-C. Ensure that integer conversions do not result in lost or misinterpreted data
2853	INT31-C. Ensure that integer conversions do not result in lost or misinterpreted data
2855	INT31-C. Ensure that integer conversions do not result in lost or misinterpreted data
2856	INT31-C. Ensure that integer conversions do not result in lost or misinterpreted data
2857	INT31-C. Ensure that integer conversions do not result in lost or misinterpreted data
2858	INT31-C. Ensure that integer conversions do not result in lost or misinterpreted data
2860	INT32-C. Ensure that operations on signed integers do not result in overflow

2861	INT32-C. Ensure that operations on signed integers do not result in overflow
2862	INT32-C. Ensure that operations on signed integers do not result in overflow
2863	INT32-C. Ensure that operations on signed integers do not result in overflow
2877	MSC07-C. Detect and remove dead code
2880	MSC07-C. Detect and remove dead code
2881	MSC07-C. Detect and remove dead code
2882	DCL41-C. Do not declare variables inside a switch statement before the first case label
2882	MSC07-C. Detect and remove dead code
2883	MSC07-C. Detect and remove dead code
2888	MSC37-C. Ensure that control never reaches the end of a non-void function
2890	INT31-C. Ensure that integer conversions do not result in lost or misinterpreted data
2891	INT31-C. Ensure that integer conversions do not result in lost or misinterpreted data
2892	INT31-C. Ensure that integer conversions do not result in lost or misinterpreted data
2893	INT31-C. Ensure that integer conversions do not result in lost or misinterpreted data
2895	INT31-C. Ensure that integer conversions do not result in lost or misinterpreted data
2896	INT31-C. Ensure that integer conversions do not result in lost or misinterpreted data
2897	INT31-C. Ensure that integer conversions do not result in lost or misinterpreted data
2898	INT31-C. Ensure that integer conversions do not result in lost or misinterpreted data
2900	INT31-C. Ensure that integer conversions do not result in lost or misinterpreted data
2901	INT31-C. Ensure that integer conversions do not result in lost or misinterpreted data
2902	INT31-C. Ensure that integer conversions do not result in lost or misinterpreted data
2903	INT31-C. Ensure that integer conversions do not result in lost or misinterpreted data
2905	INT31-C. Ensure that integer conversions do not result in lost or misinterpreted data
2906	INT31-C. Ensure that integer conversions do not result in lost or misinterpreted data
2907	INT31-C. Ensure that integer conversions do not result in lost or misinterpreted data
2908	INT31-C. Ensure that integer conversions do not result in lost or misinterpreted data
2910	INT08-C. Verify that all integer values are in range
2910 [C]	INT30-C. Ensure that unsigned integer operations do not wrap
2911	INT08-C. Verify that all integer values are in range
2911 [D]	INT30-C. Ensure that unsigned integer operations do not wrap
2912	INT08-C. Verify that all integer values are in range
2912 [A]	INT30-C. Ensure that unsigned integer operations do not wrap
2913	INT08-C. Verify that all integer values are in range
2913 [S]	INT30-C. Ensure that unsigned integer operations do not wrap
2930	ARR30-C. Do not form or use out-of-bounds pointers or array subscripts
2930	ARR37-C. Do not add or subtract an integer to a pointer to a non-array object
2930	ARR38-C. Guarantee that library functions do not form invalid pointers
2930	EXP08-C. Ensure pointer arithmetic is used correctly
2931	ARR30-C. Do not form or use out-of-bounds pointers or array subscripts
2931	ARR37-C. Do not add or subtract an integer to a pointer to a non-array object
2931	EXP08-C. Ensure pointer arithmetic is used correctly
2932	ARR30-C. Do not form or use out-of-bounds pointers or array subscripts
2932	ARR37-C. Do not add or subtract an integer to a pointer to a non-array object
2932	ARR38-C. Guarantee that library functions do not form invalid pointers
2932	EXP08-C. Ensure pointer arithmetic is used correctly
2933	ARR30-C. Do not form or use out-of-bounds pointers or array subscripts
2933	ARR37-C. Do not add or subtract an integer to a pointer to a non-array object

2933	ARR38-C. Guarantee that library functions do not form invalid pointers
2933	EXP08-C. Ensure pointer arithmetic is used correctly
2934	ARR30-C. Do not form or use out-of-bounds pointers or array subscripts
2934	ARR37-C. Do not add or subtract an integer to a pointer to a non-array object
2934	ARR38-C. Guarantee that library functions do not form invalid pointers
2934	EXP08-C. Ensure pointer arithmetic is used correctly
2935	ARR30-C. Do not form or use out-of-bounds pointers or array subscripts
2936	ARR30-C. Do not form or use out-of-bounds pointers or array subscripts
2937	ARR30-C. Do not form or use out-of-bounds pointers or array subscripts
2938	ARR30-C. Do not form or use out-of-bounds pointers or array subscripts
2939	ARR30-C. Do not form or use out-of-bounds pointers or array subscripts
2940	INT16-C. Do not make assumptions about representation of signed integers
2941	INT16-C. Do not make assumptions about representation of signed integers
2942	INT16-C. Do not make assumptions about representation of signed integers
2943	INT16-C. Do not make assumptions about representation of signed integers
2945	INT16-C. Do not make assumptions about representation of signed integers
2946	INT16-C. Do not make assumptions about representation of signed integers
2947	INT16-C. Do not make assumptions about representation of signed integers
2948	INT16-C. Do not make assumptions about representation of signed integers
2950	ARR30-C. Do not form or use out-of-bounds pointers or array subscripts
2951	ARR30-C. Do not form or use out-of-bounds pointers or array subscripts
2952	ARR30-C. Do not form or use out-of-bounds pointers or array subscripts
2953	ARR30-C. Do not form or use out-of-bounds pointers or array subscripts
2961	EXP33-C. Do not read uninitialized memory
2962	EXP33-C. Do not read uninitialized memory
2963	EXP33-C. Do not read uninitialized memory
2966	EXP33-C. Do not read uninitialized memory
2967	EXP33-C. Do not read uninitialized memory
2968	EXP33-C. Do not read uninitialized memory
2971	EXP33-C. Do not read uninitialized memory
2972	EXP33-C. Do not read uninitialized memory
2973	EXP33-C. Do not read uninitialized memory
2976	EXP33-C. Do not read uninitialized memory
2977	EXP33-C. Do not read uninitialized memory
2978	EXP33-C. Do not read uninitialized memory
2980	MSC07-C. Detect and remove dead code
2980	MSC13-C. Detect and remove unused values
2981	MSC07-C. Detect and remove dead code
2981	MSC13-C. Detect and remove unused values
2982	MSC07-C. Detect and remove dead code
2982	MSC13-C. Detect and remove unused values
2983	MSC07-C. Detect and remove dead code
2983	MSC13-C. Detect and remove unused values
2984	MSC07-C. Detect and remove dead code
2984	MSC13-C. Detect and remove unused values
2985	MSC07-C. Detect and remove dead code
2985	MSC13-C. Detect and remove unused values

2986	MSC07-C. Detect and remove dead code
2986	MSC13-C. Detect and remove unused values
3001	DCL20-C. Explicitly specify void when a function accepts no arguments
3002	EXP37-C. Call functions with the correct number and type of arguments
3004	EXP16-C. Do not compare function pointers to constant values
3007	DCL20-C. Explicitly specify void when a function accepts no arguments
3103	INT10-C. Do not assume a positive remainder when using the % operator
3108	MSC04-C. Use comments consistently and in a readable fashion
3109	EXP15-C. Do not place a semicolon on the same line as an if, for, or while statement
3110	MSC12-C. Detect and remove code that has no effect or is never executed
3112	MSC12-C. Detect and remove code that has no effect or is never executed
3113	MSC15-C. Do not depend on undefined behavior
3114	MSC15-C. Do not depend on undefined behavior
3120	DCL06-C. Use meaningful symbolic constants to represent literal values
3120	EXP07-C. Do not diminish the benefits of constants by assuming their values in expressions
3121	DCL06-C. Use meaningful symbolic constants to represent literal values
3121	EXP07-C. Do not diminish the benefits of constants by assuming their values in expressions
3122	DCL06-C. Use meaningful symbolic constants to represent literal values
3122	EXP07-C. Do not diminish the benefits of constants by assuming their values in expressions
3123	DCL06-C. Use meaningful symbolic constants to represent literal values
3123	EXP07-C. Do not diminish the benefits of constants by assuming their values in expressions
3131	DCL06-C. Use meaningful symbolic constants to represent literal values
3131	EXP07-C. Do not diminish the benefits of constants by assuming their values in expressions
3132	DCL06-C. Use meaningful symbolic constants to represent literal values
3132	EXP07-C. Do not diminish the benefits of constants by assuming their values in expressions
3200	ERR33-C. Detect and handle standard library errors
3200	POS54-C. Detect and handle POSIX library errors
3200	EXP12-C. Do not ignore values returned by functions
3202	MSC07-C. Detect and remove dead code
3203	MSC07-C. Detect and remove dead code
3203	MSC13-C. Detect and remove unused values
3204	DCL00-C. Const-qualify immutable objects
3205	MSC07-C. Detect and remove dead code
3205	MSC13-C. Detect and remove unused values
3206	MSC07-C. Detect and remove dead code
3206	MSC13-C. Detect and remove unused values
3207	MSC07-C. Detect and remove dead code
3207	MSC13-C. Detect and remove unused values
3210	DCL19-C. Minimize the scope of variables and functions
3210	MSC07-C. Detect and remove dead code
3217	DCL30-C. Declare objects with appropriate storage durations
3217	DCL21-C. Understand the storage of compound literals
3218	DCL19-C. Minimize the scope of variables and functions
3219	MSC07-C. Detect and remove dead code
3225	DCL30-C. Declare objects with appropriate storage durations
3226	EXP10-C. Do not depend on the order of evaluation of subexpressions or the order in which side effects take place
3227	DCL00-C. Const-qualify immutable objects

3229	MSC07-C. Detect and remove dead code
3229	MSC13-C. Detect and remove unused values
3230	DCL30-C. Declare objects with appropriate storage durations
3232	DCL00-C. Const-qualify immutable objects
3234	DCL41-C. Do not declare variables inside a switch statement before the first case label
3236	MSC40-C. Do not violate constraints
3237	MSC40-C. Do not violate constraints
3238	MSC40-C. Do not violate constraints
3239	MSC15-C. Do not depend on undefined behavior
3244	MSC40-C. Do not violate constraints
3305	EXP36-C. Do not cast pointers into more strictly aligned pointer types
3305	EXP39-C. Do not access a variable through a pointer of an incompatible type
3307	EXP44-C. Do not rely on side effects in operands to sizeof, _Alignof, or _Generic
3307	MSC12-C. Detect and remove code that has no effect or is never executed
3311	MSC15-C. Do not depend on undefined behavior
3312	MSC15-C. Do not depend on undefined behavior
3314	EXP45-C. Do not perform assignments in selection statements
3319	MSC15-C. Do not depend on undefined behavior
3320	EXP37-C. Call functions with the correct number and type of arguments
3326	EXP45-C. Do not perform assignments in selection statements
3326	EXP10-C. Do not depend on the order of evaluation of subexpressions or the order in which side effects take place
3331	DCL07-C. Include the appropriate type information in function declarators
3334	DCL01-C. Do not reuse variable names in subscopes
3335	DCL31-C. Declare identifiers before using them
3335	EXP37-C. Call functions with the correct number and type of arguments
3335	DCL07-C. Include the appropriate type information in function declarators
3339	FLP30-C. Do not use floating-point variables as loop counters
3340	FLP30-C. Do not use floating-point variables as loop counters
3342	FLP30-C. Do not use floating-point variables as loop counters
3344	EXP45-C. Do not perform assignments in selection statements
3344	EXP46-C. Do not use a bitwise operator with a Boolean-like operand
3344	EXP16-C. Do not compare function pointers to constant values
3344	EXP20-C. Perform explicit tests to determine success, true and false, and equality
3383	INT30-C. Ensure that unsigned integer operations do not wrap
3384	INT30-C. Ensure that unsigned integer operations do not wrap
3385	INT30-C. Ensure that unsigned integer operations do not wrap
3386	INT30-C. Ensure that unsigned integer operations do not wrap
3389	EXP00-C. Use parentheses for precedence of operation
3390	EXP00-C. Use parentheses for precedence of operation
3391	EXP00-C. Use parentheses for precedence of operation
3392	EXP00-C. Use parentheses for precedence of operation
3392	EXP13-C. Treat relational and equality operators as if they were nonassociative
3393	EXP00-C. Use parentheses for precedence of operation
3394	EXP00-C. Use parentheses for precedence of operation
3395	EXP00-C. Use parentheses for precedence of operation
3396	EXP00-C. Use parentheses for precedence of operation
3397	EXP00-C. Use parentheses for precedence of operation

3398	EXP00-C. Use parentheses for precedence of operation
3399	EXP00-C. Use parentheses for precedence of operation
3400	EXP00-C. Use parentheses for precedence of operation
3401	EXP13-C. Treat relational and equality operators as if they were nonassociative
3404	MSC07-C. Detect and remove dead code
3404	MSC12-C. Detect and remove code that has no effect or is never executed
3408	DCL07-C. Include the appropriate type information in function declarators
3409	PRE02-C. Macro replacement lists should be parenthesized
3410	PRE01-C. Use parentheses within macros around parameter names
3412	PRE10-C. Wrap multistatement macros in a do-while loop
3412	PRE11-C. Do not conclude macro definitions with a semicolon
3413	PRE03-C. Prefer typedefs to defines for encoding non-pointer types
3415	EXP02-C. Be aware of the short-circuit behavior of the logical AND and OR operators
3416	EXP45-C. Do not perform assignments in selection statements
3422	MSC07-C. Detect and remove dead code
3423	MSC07-C. Detect and remove dead code
3425	MSC07-C. Detect and remove dead code
3426	MSC12-C. Detect and remove code that has no effect or is never executed
3427	MSC12-C. Detect and remove code that has no effect or is never executed
3437	MSC38-C. Do not treat a predefined identifier as an object if it might only be implemented as a macro
3437	MSC15-C. Do not depend on undefined behavior
3438	MSC15-C. Do not depend on undefined behavior
3450	DCL07-C. Include the appropriate type information in function declarators
3453	PRE00-C. Prefer inline or static functions to function-like macros
3456	PRE12-C. Do not define unsafe macros
3458	PRE10-C. Wrap multistatement macros in a do-while loop
3462	PRE31-C. Avoid side effects in arguments to unsafe macros
3463	PRE31-C. Avoid side effects in arguments to unsafe macros
3464	PRE31-C. Avoid side effects in arguments to unsafe macros
3465	PRE31-C. Avoid side effects in arguments to unsafe macros
3466	PRE31-C. Avoid side effects in arguments to unsafe macros
3467	PRE31-C. Avoid side effects in arguments to unsafe macros
3470	MSC07-C. Detect and remove dead code
3475	MSC38-C. Do not treat a predefined identifier as an object if it might only be implemented as a macro
3601	PRE07-C. Avoid using repeated question marks
3664	MSC14-C. Do not introduce unnecessary platform dependencies
3670	MEM05-C. Avoid large stack allocations
3673	DCL00-C. Const-qualify immutable objects
3673	DCL13-C. Declare function parameters that are pointers to values not changed by the function as const
3674	ARR02-C. Explicitly specify array bounds, even if implicitly defined by an initializer
3677	DCL00-C. Const-qualify immutable objects
3677	DCL13-C. Declare function parameters that are pointers to values not changed by the function as const
3684	ARR02-C. Explicitly specify array bounds, even if implicitly defined by an initializer
4111	EXP13-C. Treat relational and equality operators as if they were nonassociative
4112	EXP13-C. Treat relational and equality operators as if they were nonassociative
4113	EXP13-C. Treat relational and equality operators as if they were nonassociative
4116	EXP20-C. Perform explicit tests to determine success, true and false, and equality

4117	FLP36-C. Preserve precision when converting integral values to floating-point type
4117	FLP06-C. Convert integers to floating point for floating-point operations
4118	FLP06-C. Convert integers to floating point for floating-point operations
4140	DCL30-C. Declare objects with appropriate storage durations
4401	INT02-C. Understand integer conversion rules
4401	INT07-C. Use only explicitly signed or unsigned char type for numeric values
4402	INT02-C. Understand integer conversion rules
4403	INT02-C. Understand integer conversion rules
4404	INT02-C. Understand integer conversion rules
4405	INT02-C. Understand integer conversion rules
4410	INT02-C. Understand integer conversion rules
4412	INT02-C. Understand integer conversion rules
4413	STR37-C. Arguments to character-handling functions must be representable as an unsigned char
4413	INT02-C. Understand integer conversion rules
4414	STR37-C. Arguments to character-handling functions must be representable as an unsigned char
4414	INT02-C. Understand integer conversion rules
4415	INT02-C. Understand integer conversion rules
4420	INT02-C. Understand integer conversion rules
4421	INT02-C. Understand integer conversion rules
4421	INT07-C. Use only explicitly signed or unsigned char type for numeric values
4422	INT02-C. Understand integer conversion rules
4423	INT02-C. Understand integer conversion rules
4424	INT02-C. Understand integer conversion rules
4425	INT02-C. Understand integer conversion rules
4430	INT02-C. Understand integer conversion rules
4431	INT02-C. Understand integer conversion rules
4431	INT07-C. Use only explicitly signed or unsigned char type for numeric values
4432	INT02-C. Understand integer conversion rules
4434	INT02-C. Understand integer conversion rules
4435	FLP36-C. Preserve precision when converting integral values to floating-point type
4435	INT02-C. Understand integer conversion rules
4436	INT02-C. Understand integer conversion rules
4437	FLP36-C. Preserve precision when converting integral values to floating-point type
4437	INT02-C. Understand integer conversion rules
4440	INT02-C. Understand integer conversion rules
4441	INT02-C. Understand integer conversion rules
4441	INT07-C. Use only explicitly signed or unsigned char type for numeric values
4442	INT02-C. Understand integer conversion rules
4443	INT02-C. Understand integer conversion rules
4445	FLP36-C. Preserve precision when converting integral values to floating-point type
4445	INT02-C. Understand integer conversion rules
4446	INT02-C. Understand integer conversion rules
4447	INT02-C. Understand integer conversion rules
4450	FLP34-C. Ensure that floating-point conversions are within range of the new type
4451	FLP34-C. Ensure that floating-point conversions are within range of the new type
4451	INT07-C. Use only explicitly signed or unsigned char type for numeric values
4452	FLP34-C. Ensure that floating-point conversions are within range of the new type

4453	FLP34-C. Ensure that floating-point conversions are within range of the new type
4454	FLP34-C. Ensure that floating-point conversions are within range of the new type
4460	INT02-C. Understand integer conversion rules
4461	INT02-C. Understand integer conversion rules
4462	FLP34-C. Ensure that floating-point conversions are within range of the new type
4463	INT02-C. Understand integer conversion rules
4464	INT02-C. Understand integer conversion rules
4465	FLP34-C. Ensure that floating-point conversions are within range of the new type
4470	INT02-C. Understand integer conversion rules
4471	INT02-C. Understand integer conversion rules
4480	INT02-C. Understand integer conversion rules
4481	INT02-C. Understand integer conversion rules
4490	INT18-C. Evaluate integer expressions in a larger size before comparing or assigning to that size
4491	INT18-C. Evaluate integer expressions in a larger size before comparing or assigning to that size
4492	INT18-C. Evaluate integer expressions in a larger size before comparing or assigning to that size
4502	EXP46-C. Do not use a bitwise operator with a Boolean-like operand
4532	INT13-C. Use bitwise operators only on unsigned operands
4533	INT13-C. Use bitwise operators only on unsigned operands
4534	INT13-C. Use bitwise operators only on unsigned operands
4543	INT13-C. Use bitwise operators only on unsigned operands
4544	INT13-C. Use bitwise operators only on unsigned operands
4600	DCL37-C. Do not declare or define a reserved identifier
4601	DCL37-C. Do not declare or define a reserved identifier
4602	DCL37-C. Do not declare or define a reserved identifier
4603	DCL37-C. Do not declare or define a reserved identifier
4604	DCL37-C. Do not declare or define a reserved identifier
4605	DCL37-C. Do not declare or define a reserved identifier
4606	DCL37-C. Do not declare or define a reserved identifier
4607	DCL37-C. Do not declare or define a reserved identifier
4608	DCL37-C. Do not declare or define a reserved identifier
4620	DCL37-C. Do not declare or define a reserved identifier
4621	DCL37-C. Do not declare or define a reserved identifier
4622	DCL37-C. Do not declare or define a reserved identifier
4623	DCL37-C. Do not declare or define a reserved identifier
4624	DCL37-C. Do not declare or define a reserved identifier
4640	DCL37-C. Do not declare or define a reserved identifier
4641	DCL37-C. Do not declare or define a reserved identifier
4642	DCL37-C. Do not declare or define a reserved identifier
4643	DCL37-C. Do not declare or define a reserved identifier
4644	DCL37-C. Do not declare or define a reserved identifier
4645	DCL37-C. Do not declare or define a reserved identifier
4926	POS50-C. Declare objects shared between POSIX threads with appropriate storage durations
4927	POS50-C. Declare objects shared between POSIX threads with appropriate storage durations
4928	POS50-C. Declare objects shared between POSIX threads with appropriate storage durations
4951	POS38-C. Beware of race conditions when using fork and file descriptors
4952	POS38-C. Beware of race conditions when using fork and file descriptors
4955	ARR39-C. Do not add or subtract a scaled integer to a pointer

4956	ARR39-C. Do not add or subtract a scaled integer to a pointer
4957	ARR39-C. Do not add or subtract a scaled integer to a pointer
4961	CON31-C. Do not destroy a mutex while it is locked
4962	CON31-C. Do not destroy a mutex while it is locked
4966	POS52-C. Do not perform operations that can block while holding a POSIX lock
4967	POS52-C. Do not perform operations that can block while holding a POSIX lock
4971	POS48-C. Do not unlock or destroy another POSIX thread's mutex
4972	POS48-C. Do not unlock or destroy another POSIX thread's mutex
4976	CON33-C. Avoid race conditions when using library functions
4977	CON33-C. Avoid race conditions when using library functions
4981	POS48-C. Do not unlock or destroy another POSIX thread's mutex
4982	POS48-C. Do not unlock or destroy another POSIX thread's mutex
4991	ENV31-C. Do not rely on an environment pointer following an operation that may invalidate it
4992	ENV31-C. Do not rely on an environment pointer following an operation that may invalidate it
4993	ENV31-C. Do not rely on an environment pointer following an operation that may invalidate it
5001	PRE04-C. Do not reuse a standard header file name
5002	PRE08-C. Guarantee that header file names are unique
5003	PRE09-C. Do not replace secure functions with deprecated or obsolescent functions
5004	DCL05-C. Use typedefs of non-pointer types only
5005	INT05-C. Do not use input functions to convert character data if they cannot handle all possible inputs
5007	STR06-C. Do not assume that strtok() leaves the parse string unchanged
5008	STR07-C. Use the bounds-checking interfaces for string manipulation
5009	STR31-C. Guarantee that storage for strings has sufficient space for character data and the null terminator
5010	MEM03-C. Clear sensitive information stored in reusable resources
5011	FIO01-C. Be careful using functions that use file names for identification
5012	FIO03-C. Do not make assumptions about fopen() and file creation
5013	FIO06-C. Create files with appropriate access permissions
5014	FIO08-C. Take care when calling remove() on an open file
5015	FIO10-C. Take care when using the rename() function
5016	FIO21-C. Do not create temporary files in shared directories
5017	ENV03-C. Sanitize the environment when invoking external programs
5018	ENV33-C. Do not call system()
5019	SIG00-C. Mask signals handled by noninterruptible signal handlers
5020	SIG01-C. Understand implementation-specific details regarding signal handler persistence
5021	SIG34-C. Do not call signal() from within interruptible signal handlers
5021	CON37-C. Do not call signal() in a multithreaded program
5022	MSC30-C. Do not use the rand() function for generating pseudorandom numbers
5023	POS33-C. Do not use vfork()
5024	POS34-C. Do not call putenv() with a pointer to an automatic variable as the argument
5025	FLP32-C. Prevent or detect domain and range errors in math functions
5026	FLP37-C. Do not use object representations to compare floating-point values
5027	MEM36-C. Do not modify the alignment of objects by calling realloc()
5028	FIO38-C. Do not copy a FILE object
5029	FIO39-C. Do not alternately input and output from a stream without an intervening flush or positioning call
5030	ERR34-C. Detect errors when converting a string to a number
5031	MSC32-C. Properly seed pseudorandom number generators
5032	MSC33-C. Do not pass invalid data to the asctime() function

5033	POS30-C. Use the readlink() function properly
5034	POS44-C. Do not use signals to terminate threads
5035	POS47-C. Do not use threads that can be canceled asynchronously
5036	FIO41-C. Do not call getc(), putc(), getwc(), or putwc() with a stream argument that has side effects
[I]	FIO47-C. Use valid format strings
[U]	FIO47-C. Use valid format strings
[U]	FIO47-C. Use valid format strings
[U]	FIO47-C. Use valid format strings
[U]	FIO47-C. Use valid format strings
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[U]	FIO47-C. Use valid format strings
[U]	FIO47-C. Use valid format strings
[U]	FIO47-C. Use valid format strings
[U]	FIO47-C. Use valid format strings
[U]	EXP10-C. Do not depend on the order of evaluation of subexpressions or the order in which side effects take place
[U]	EXP10-C. Do not depend on the order of evaluation of subexpressions or the order in which side effects take place
[U]	EXP10-C. Do not depend on the order of evaluation of subexpressions or the order in which side effects take place
[U]	EXP10-C. Do not depend on the order of evaluation of subexpressions or the order in which side effects take place
[U]	EXP10-C. Do not depend on the order of evaluation of subexpressions or the order in which side effects take place
]	FIO47-C. Use valid format strings
C99	FIO47-C. Use valid format strings