ExC Compiler Test Cases

Test Case ID (testNumber_s#_ type)	Module	Description	Steps	Prerequisites	Test Data	Stage Test Number	Stage Number	Shortname
001_S1_Valid_Return0	Compiler	Validate an int return function with return 0 and no parameters.	 Run compiler with .c test data name as input parameter. Verify compiler output. 	Elixir environment ready and .c file loaded into test directory. Target assembly code ready to compare.	001_S1_Valid_Retur n0.c	001	1	Return0
002_S1_Valid_Return7	Compiler	Validate an int return function with return 7 and no parameters.	 Run compiler with .c test data name as input parameter. Verify compiler output. 	Elixir environment ready and .c file loaded into test directory. Target assembly code ready to compare.	002_S1_Valid_Retur n7.c	002	1	Return7
003_S1_Valid_ReturnMD13 0	Compiler	Validate an int return function with multi digit return of 130. The function has no input parameters.	 Run compiler with .c test data name as input parameter. Verify compiler output. 	Elixir environment ready and .c file loaded into test directory. Target assembly code ready to compare.	003_S1_Valid_Retur nMD130.c	003	1	ReturnMD1 30
004_S1_Valid_ReturnBlank Spaces	Compiler	Validate an int return main function with blank spaces and new lines separating each element that would comprise a token.	 Run compiler with .c test data name as input parameter. Verify compiler output. 	Elixir environment ready and .c file loaded into test directory. Target assembly code ready to compare.	004_S1_Valid_Retur nBlankSpaces.c	004	1	ReturnBlan kSpaces
005_S1_Valid_ReturnNoLin eB	Compiler	Validate an int return main function with no spaces between each element considered as a token.	 Run compiler with .c test data name as input parameter. Verify compiler output. 	Elixir environment ready and .c file loaded into test directory. Target assembly code ready to compare.	005_S1_Valid_Retur nNoLineB.c	005	1	ReturnNoLi neB
006_S1_Valid_ReturnSpace Chars	Compiler	Validate an int return main function with different spacing characters such as tab, space or new line between each token.	 Run compiler with .c test data name as input parameter. Verify compiler output. 	Elixir environment ready and .c file loaded into test directory. Target assembly code ready to compare.	006_S1_Valid_Retur nSpaceChars.c	006	1	ReturnSpa ceChars
007_S1_Invalid_ReturnNull	Compiler	Validate an int return main function with no return value.	 Run compiler with .c test data name as input parameter. Verify compiler output. As the test has an invalid input file, no assembly file nor executable should generate. 	Elixir environment ready and .c file loaded into test directory. Target assembly code ready to compare.	007_S1_Invalid_Ret urnNull.c	007	1	ReturnNull
008_S1_Invalid_ReturnNoF uncName	Compiler	Validate an int return main function with no function name.	 Run compiler with .c test data name as input parameter. Verify compiler output. As the test has an invalid input file, no assembly file nor executable should generate. 	Elixir environment ready and .c file loaded into test directory. Target assembly code ready to compare.	008_S1_Invalid_Ret urnNoFuncName.c	008	1	ReturnNoF uncName
009_S1_Invalid_ReturnNoP arenth	Compiler	Validate an int return main function with a missing parenthesis.	 Run compiler with .c test data name as input parameter. Verify compiler output. As the test has an invalid input file, no assembly file nor executable should generate. 	Elixir environment ready and .c file loaded into test directory. Target assembly code ready to compare.	009_S1_Invalid_Ret urnNoParenth.c	009	1	ReturnNoP arenth

Test Case ID (testNumber_s#_ type)	Module	Description	Steps	Prerequisites	Test Data	Stage Test Number	Stage Number	Shortname
010_S1_Invalid_ReturnNoB rack	Compiler	Validate an int return main function with a missing bracket.	 Run compiler with .c test data name as input parameter. Verify compiler output. As the test has an invalid input file, no assembly file nor executable should generate. 	Elixir environment ready and .c file loaded into test directory. Target assembly code ready to compare.	010_S1_Invalid_Ret urnNoBrack.c	010	1	ReturnNoB rack
011_S1_Invalid_ReturnNoS paces	Compiler	Validate an int return main function with no space between the function type and name.	 Run compiler with .c test data name as input parameter. Verify compiler output. As the test has an invalid input file, no assembly file nor executable should generate. 	Elixir environment ready and .c file loaded into test directory. Target assembly code ready to compare.	011_S1_Invalid_Ret urnNoSpaces.c	011	1	ReturnNoS paces
012_S1_Invalid_ReturnCom ma	Compiler	Validate an int return main function with a comma instead of semicolon after return statement.	 Run compiler with .c test data name as input parameter. Verify compiler output. As the test has an invalid input file, no assembly file nor executable should generate. 	Elixir environment ready and .c file loaded into test directory. Target assembly code ready to compare.	012_S1_Invalid_Ret urnComma.c	012	1	ReturnCom ma
013_S1_Invalid_ReturnCap s	Compiler	Validate an int return main function with different caps format for statements on the function type and return statement.	 Run compiler with .c test data name as input parameter. Verify compiler output. As the test has an invalid input file, no assembly file nor executable should generate. 	Elixir environment ready and .c file loaded into test directory. Target assembly code ready to compare.	013_S1_Invalid_Ret urnCaps.c	013	1	ReturnCap s
014_S1_Valid_ReturnPrecZ ero	Compiler	Validate an int return main function with a return value preceded by zeros.	 Run compiler with .c test data name as input parameter. Verify compiler output. 	Elixir environment ready and .c file loaded into test directory. Target assembly code ready to compare.	014_S1_Valid_Retur nPrecZero.c	014	1	ReturnPrec Zero
001_S2_Valid_Negative	Compiler	Validate an int return main function with a negated int value of any decimal number.	 Run compiler with .c test data name as input parameter. Verify compiler output against valid assembly code for the .c input. 	Elixir environment ready and .c file loaded into test directory. Target assembly code ready to compare.	001_S2_Valid_Nega tive.c	001	2	Negative
002_S2_Valid_Bitwise	Compiler	Validate the compilation of the bitwise (~) operator with a decimal number.	 Run compiler with .c test data name as input parameter. Verify compiler output against valid assembly code for the .c input. 	Elixir environment ready and .c file loaded into test directory. Target assembly code ready to compare.	002_S2_Valid_Bitwi se.c	002	2	Bitwise
003_S2_Valid_Bitwise_0	Compiler	Validate the compilation of the bitwise (~) operator on the number zero.	 Run compiler with .c test data name as input parameter. Verify compiler output against valid assembly code for the .c input. 	Elixir environment ready and .c file loaded into test directory. Target assembly code ready to compare.	003_S2_Valid_Bitwi se_0.c	003	2	Bitwise_0
004_S2_Valid_Not_7	Compiler	Validate the compilation of the logical NOT operator applied to the number seven.	 Run compiler with .c test data name as input parameter. Verify compiler output against valid assembly code for the .c input. 	Elixir environment ready and .c file loaded into test directory. Target assembly code ready to compare.	004_S2_Valid_Not_ 7.c	004	2	Not_7

Test Case ID (testNumber_s#_ type)	Module	Description	Steps	Prerequisites	Test Data	Stage Test Number	Stage Number	Shortname
005_S2_Valid_Not_0	Compiler	Validate the compilation of the logical NOT operator on the number zero.	 Run compiler with .c test data name as input parameter. Verify compiler output against valid assembly code for the .c input. 	Elixir environment ready and .c file loaded into test directory. Target assembly code ready to compare.	005_S2_Valid_Not_ 0.c	005	2	Not_0
006_S2_Valid_Multiple_Ops _1	Compiler	Validate the compilation of the negative and bitwise operator used on the number 7.	 Run compiler with .c test data name as input parameter. Verify compiler output against valid assembly code for the .c input. 	Elixir environment ready and .c file loaded into test directory. Target assembly code ready to compare.	006_S2_Valid_Multi ple_Ops_1.c	006	2	Multiple_O ps_1
007_S2_Valid_Multiple_Ops _2	Compiler	Validate the compilation of the NOT operator and negative operator used on the number 4.	 Run compiler with .c test data name as input parameter. Verify compiler output against valid assembly code for the .c input. 	Elixir environment ready and .c file loaded into test directory. Target assembly code ready to compare.	007_S2_Valid_Multi ple_Ops_2.c	007	2	Multiple_O ps_2
008_S2_Valid_Multiple_Ops _3	Compiler	Validate the compilation of the NOT operator and bitwise operator used on the number 0.	 Run compiler with .c test data name as input parameter. Verify compiler output against valid assembly code for the .c input. 	Elixir environment ready and .c file loaded into test directory. Target assembly code ready to compare.	008_S2_Valid_Multi ple_Ops_3.c	008	2	Multiple_O ps_3
009_S2_Invalid_Wrong_Ord er_Negative	Compiler	Refute the compilation of a main function using the negative operator on an incorrect order <- first number 7 and then the operator.	 Run compiler with .c test data name as input parameter. Verify that the compiler shows an error on run console. No output assembly file should generate. 	Elixir environment ready and .c file loaded into test directory.	009_S2_Invalid_Wr ong_Order_Negativ e.c	009	2	Wrong_Ord er_Negativ e
010_S2_Invalid_Correct_Ne g_Wrong_Bitwise_Order	Compiler	Refute the compilation of a main function using the negative operator on the correct order with the bitwise operator after the number <- first negative operator, then number 5 and then the bitwise operator.	 Run compiler with .c test data name as input parameter. Verify that the compiler shows an error on run console. No output assembly file should generate. 	Elixir environment ready and .c file loaded into test directory.	010_S2_Invalid_Cor rect_Neg_Wrong_Bi twise_Order.c	010	2	Correct_Ne g_Wrong_B itwise_Orde r
011_S2_Invalid_Bitwise_No _Semicolon	Compiler	Refute the compilation of a main function using the bitwise operator on the number zero with a missing semicolon to end statement.	 Run compiler with .c test data name as input parameter. Verify that the compiler shows an error on run console. No output assembly file should generate. 	Elixir environment ready and .c file loaded into test directory.	011_S2_Invalid_Bit wise_No_Semicolo n.c	011	2	Bitwise_No _Semicolon
012_S2_Invalid_Not_Missin g_Const	Compiler	Refute the compilation of a main function that has a missing constant on the return statement.	 Run compiler with .c test data name as input parameter. Verify that the compiler shows an error on run console. No output assembly file should generate. 	Elixir environment ready and .c file loaded into test directory.	012_S2_Invalid_Not _Missing_Const.c	012	2	Not_Missin g_Const

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Test Case ID (testNumber_s#_ type)	Module	Description	Steps	Prerequisites	Test Data	Stage Test Number	Stage Number	Shortname
013_S2_Invalid_Not_Bitwis e_Const	Compiler	Refute the compilation of a main function that has a missing constant on a return statement that has a NOT and bitwise operators.	 Run compiler with .c test data name as input parameter. Verify that the compiler shows an error on run console. No output assembly file should generate. 	Elixir environment ready and .c file loaded into test directory.	013_S2_Invalid_Not _Bitwise_Const.c	013	2	Not_Bitwis e_Const
001_S3_Valid_Add	Compiler	Validate the compilation of the add operator of two integers on a main function with int return.	 Run compiler with .c test data name as input parameter. Verify that the compiler output corresponds to valid binary code generated on gcc or clang compilers. 	Elixir environment ready and .c file loaded into test directory.	001_S3_Valid_Add. c	001	3	Add
002_S3_Valid_SubstractPos itive	Compiler	Validate the compilation of the subtract operator of two positive integers on a main function with int return.	 Run compiler with .c test data name as input parameter. Verify that the compiler output corresponds to valid binary code generated on gcc or clang compilers. 	Elixir environment ready and .c file loaded into test directory.	002_S3_Valid_Subs tractPositive.c	002	3	SubstractP ositive
003_S3_Valid_SubstractNe gative	Compiler	Validate the compilation of the subtract operator of a positive and a negative integer on a main function with int return.	 Run compiler with .c test data name as input parameter. Verify that the compiler output corresponds to valid binary code generated on gcc or clang compilers. 	Elixir environment ready and .c file loaded into test directory.	003_S3_Valid_Subs tractNegative.c	003	3	SubstractN egative
004_S3_Valid_DivPositive	Compiler	Validate the compilation of the div operator of two positive integers on a main function with int return.	 Run compiler with .c test data name as input parameter. Verify that the compiler output corresponds to valid binary code generated on gcc or clang compilers. 	Elixir environment ready and .c file loaded into test directory.	004_S3_Valid_DivP ositive.c	004	3	DivPositive
005_S3_Valid_DivNegative	Compiler	Validate the compilation of the div operator of two negative integers on a main function with int return.	 Run compiler with .c test data name as input parameter. Verify that the compiler output corresponds to valid binary code generated on gcc or clang compilers. 	Elixir environment ready and .c file loaded into test directory.	005_S3_Valid_DivN egative.c	005	3	DivNegativ e
006_S3_Valid_MultPositive	Compiler	Validate the compilation of the multiplication (*) operator of two integers on a main function with int return.	 Run compiler with .c test data name as input parameter. Verify that the compiler output corresponds to valid binary code generated on gcc or clang compilers. 	Elixir environment ready and .c file loaded into test directory.	006_S3_Valid_Mult Positive.c	006	3	MultPositiv e
007_S3_Valid_MultNeg	Compiler	Validate the compilation of the multiplication (*) operator of two integers, one positive and one negative, on a main function with int return.	 Run compiler with .c test data name as input parameter. Verify that the compiler output corresponds to valid binary code generated on gcc or clang compilers. 	Elixir environment ready and .c file loaded into test directory.	007_S3_Valid_Mult Neg.c	007	3	MultNeg

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Test Case ID (testNumber_s#_ type)	Module	Description	Steps	Prerequisites	Test Data	Stage Test Number	Stage Number	Shortname
008_S3_Valid_SimpleParent hesis	Compiler	Validate that the use of parenthesis maintains the precedence of the operations.	 Run compiler with .c test data name as input parameter. Verify that the compiler output corresponds to valid binary code generated on gcc or clang compilers. 	Elixir environment ready and .c file loaded into test directory.	008_S3_Valid_Simp leParenthesis.c	008	3	SimplePare nthesis
009_S3_Valid_Precedence	Compiler	Validate that precedence is correctly followed when using operators with no parenthesis. Program is a main function with an int return.	 Run compiler with .c test data name as input parameter. Verify that the compiler output corresponds to valid binary code generated on gcc or clang compilers. 	Elixir environment ready and .c file loaded into test directory.	009_S3_Valid_Prec edence.c	009	3	Precedenc e
010_S3_Valid_Bitwise_NoP arenthesis	Compiler	Validate that precedence is correctly followed when using operators with no parenthesis when using the bitwise operator with a subtract operation. Program is a main function with an int return.	 Run compiler with .c test data name as input parameter. Verify that the compiler output corresponds to valid binary code generated on gcc or clang compilers. 	Elixir environment ready and .c file loaded into test directory.	010_S3_Valid_Bitwi se_NoParenthesis.c	010	3	Bitwise_No Parenthesis
011_S3_Valid_BItwise_Pare nthesis	Compiler	Validate that precedence is correctly followed when using operators with a parenthesis when using the bitwise operator with a subtract operation. Program is a main function with an int return.	 Run compiler with .c test data name as input parameter. Verify that the compiler output corresponds to valid binary code generated on gcc or clang compilers. 	Elixir environment ready and .c file loaded into test directory.	011_S3_Valid_Bltwi se_Parenthesis.c	011	3	Bltwise_Par enthesis
012_S3_Invalid_Div_Missin g_Operator	Compiler	Refute the compilation of a main function using the the div operator with a missing element.	 Run compiler with .c test data name as input parameter. Verify that the compiler shows an error on run console. No output assembly file should generate. 	Elixir environment ready and .c file loaded into test directory.	012_S3_Invalid_Div _Missing_Operator. c	012	3	Div_Missin g_Operator
013_S3_Invalid_Sum_Missi ng_Operator	Compiler	Refute the compilation of a main function using the sum operator with a missing operator.	 Run compiler with .c test data name as input parameter. Verify that the compiler shows an error on run console. No output assembly file should generate. 	Elixir environment ready and .c file loaded into test directory.	013_S3_Invalid_Su m_Missing_Operato r.c	013	3	Sum_Missi ng_Operato r
014_S3_Invalid_Parenthesi s_Middle_Operator	Compiler	Refute the compilation of a main function missing an operator between close parenthesis and another element.	 Run compiler with .c test data name as input parameter. Verify that the compiler shows an error on run console. No output assembly file should generate. 	Elixir environment ready and .c file loaded into test directory.	014_S3_Invalid_Par enthesis_Middle_O perator.c	014	3	Parenthesis _Middle_O perator

Test Case ID (testNumber_s#_ type)	Module	Description	Steps	Prerequisites	Test Data	Stage Test Number	Stage Number	Shortname
015_S3_Invalid_Neg_Missin g_Operator	Compiler	Refute the compilation of a main function using the negative operator with a missing element.	 Run compiler with .c test data name as input parameter. Verify that the compiler shows an error on run console. No output assembly file should generate. 	Elixir environment ready and .c file loaded into test directory.	015_S3_Invalid_Ne g_Missing_Operator .c	015	3	Neg_Missin g_Operator
001_S4_Valid_AND_Boolea n_False	Compiler	Validate the compilation of an int main function with return containing the and (&&) boolean operator on a false statement.	 Run compiler with .c test data name as input parameter. Verify that the compiler output corresponds to valid binary code generated on gcc or clang compilers. 	Elixir environment ready and .c file loaded into test directory.	001_S4_Valid_AND _Boolean_False.c	001	4	AND_Boole an_False
002_S4_Valid_AND_Boolea n_True	Compiler	Validate the compilation of an int main function with return containing the and (&&) boolean operator on a true statement.	 Run compiler with .c test data name as input parameter. Verify that the compiler output corresponds to valid binary code generated on gcc or clang compilers. 	Elixir environment ready and .c file loaded into test directory.	002_S4_Valid_AND _Boolean_True.c	002	4	AND_Boole an_True
003_S4_Valid_GE_Relationa	Compiler	Validate the compilation of an int main function with return containing the greater than or equal (>=) relational operator on a false statement.	 Run compiler with .c test data name as input parameter. Verify that the compiler output corresponds to valid binary code generated on gcc or clang compilers. 	Elixir environment ready and .c file loaded into test directory.	003_S4_Valid_GE_ Relational_False.c	003	4	GE_Relatio nal_False
004_S4_Valid_GE_Relationa	Compiler	Validate the compilation of an int main function with return containing the greater than or equal (>=) relational operator on a true statement.	 Run compiler with .c test data name as input parameter. Verify that the compiler output corresponds to valid binary code generated on gcc or clang compilers. 	Elixir environment ready and .c file loaded into test directory.	004_S4_Valid_GE_ Relational_True.c	004	4	GE_Relatio nal_True
005_S4_Valid_EQ_Relationa I_False	Compiler	Validate the compilation of an int main function with return containing the equal (==) relational operator on a false statement.	 Run compiler with .c test data name as input parameter. Verify that the compiler output corresponds to valid binary code generated on gcc or clang compilers. 	Elixir environment ready and .c file loaded into test directory.	005_S4_Valid_EQ_ Relational_False.c	005	4	EQ_Relatio nal_False
006_S4_Valid_EQ_Relationa I_True	Compiler	Validate the compilation of an int main function with return containing the equal (==) relational operator on a true statement.	 Run compiler with .c test data name as input parameter. Verify that the compiler output corresponds to valid binary code generated on gcc or clang compilers. 	Elixir environment ready and .c file loaded into test directory.	006_S4_Valid_EQ_ Relational_True.c	006	4	EQ_Relatio nal_True
007_S4_Valid_GT_Relation_ False	Compiler	Validate the compilation of an int main function with return containing the greater than (>) relational operator on a false statement.	 Run compiler with .c test data name as input parameter. Verify that the compiler output corresponds to valid binary code generated on gcc or clang compilers. 	Elixir environment ready and .c file loaded into test directory.	007_S4_Valid_GT_ Relation_False.c	007	4	GT_Relatio n_False

Test Case ID (testNumber_s#_ type)	Module	Description	Steps	Prerequisites	Test Data	Stage Test Number	Stage Number	Shortname
008_S4_Valid_GT_Relationa I_True	Compiler	Validate the compilation of an int main function with return containing the greater than (>) relational operator on a true statement.	 Run compiler with .c test data name as input parameter. Verify that the compiler output corresponds to valid binary code generated on gcc or clang compilers. 	Elixir environment ready and .c file loaded into test directory.	008_S4_Valid_GT_ Relational_True.c	008	4	GT_Relatio nal_True
009_S4_Valid_LE_Relationa I_False	Compiler	Validate the compilation of an int main function with return containing the less than or equal (<=) relational operator on a false statement.	 Run compiler with .c test data name as input parameter. Verify that the compiler output corresponds to valid binary code generated on gcc or clang compilers. 	Elixir environment ready and .c file loaded into test directory.	009_S4_Valid_LE_R elational_False.c	009	4	LE_Relatio nal_False
010_S4_Valid_LE_Relationa I_True	Compiler	Validate the compilation of an int main function with return containing the less than or equal (<=) relational operator on a true statement.	 Run compiler with .c test data name as input parameter. Verify that the compiler output corresponds to valid binary code generated on gcc or clang compilers. 	Elixir environment ready and .c file loaded into test directory.	010_S4_Valid_LE_R elational_True.c	010	4	LE_Relatio nal_True
011_S4_Valid_LT_Relational _False	Compiler	Validate the compilation of an int main function with return containing the less than (<) relational operator on a false statement.	 Run compiler with .c test data name as input parameter. Verify that the compiler output corresponds to valid binary code generated on gcc or clang compilers. 	Elixir environment ready and .c file loaded into test directory.	011_S4_Valid_LT_R elational_False.c	011	4	LT_Relation al_False
012_S4_Valid_LT_Relational _True	Compiler	Validate the compilation of an int main function with return containing the less than (<) relational operator on a true statement.	 Run compiler with .c test data name as input parameter. Verify that the compiler output corresponds to valid binary code generated on gcc or clang compilers. 	Elixir environment ready and .c file loaded into test directory.	012_S4_Valid_LT_R elational_True.c	012	4	LT_Relation al_True
013_S4_Valid_NE_Relationa I_False	Compiler	Validate the compilation of an int main function with return containing the not equal (!=) relational operator on a false statement.	 Run compiler with .c test data name as input parameter. Verify that the compiler output corresponds to valid binary code generated on gcc or clang compilers. 	Elixir environment ready and .c file loaded into test directory.	013_S4_Valid_NE_ Relational_False.c	013	4	NE_Relatio nal_False
014_S4_Valid_NE_Relationa I_True	Compiler	Validate the compilation of an int main function with return containing the not equal (!=) relational operator on a true statement.	 Run compiler with .c test data name as input parameter. Verify that the compiler output corresponds to valid binary code generated on gcc or clang compilers. 	Elixir environment ready and .c file loaded into test directory.	014_S4_Valid_NE_ Relational_True.c	014	4	NE_Relatio nal_True
015_S4_Valid_OR_Boolean_ False	Compiler	Validate the compilation of an int main function with return containing the or () boolean operator on a false statement.	 Run compiler with .c test data name as input parameter. Verify that the compiler output corresponds to valid binary code generated on gcc or clang compilers. 	Elixir environment ready and .c file loaded into test directory.	015_S4_Valid_OR_ Boolean_False.c	015	4	OR_Boolea n_False

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016_S4_Valid_OR_Boolean_ True	Compiler	Validate the compilation of an int main function with return containing the or () boolean operator on a true statement.	 Run compiler with .c test data name as input parameter. Verify that the compiler output corresponds to valid binary code generated on gcc or clang compilers. 	Elixir environment ready and .c file loaded into test directory.	016_S4_Valid_OR_ Boolean_True.c	016	4	OR_Boolea n_True
017_S4_Valid_Precedence	Compiler	Validate the compilation of an int main function with return containing various operators with different precedence.	 Run compiler with .c test data name as input parameter. Verify that the compiler output corresponds to valid binary code generated on gcc or clang compilers. 	Elixir environment ready and .c file loaded into test directory.	017_S4_Valid_Prec edence.c	017	4	Precedenc e
018_S4_Valid_Precedence	Compiler	Validate the compilation of an int main function with return containing various operators with different precedence.	 Run compiler with .c test data name as input parameter. Verify that the compiler output corresponds to valid binary code generated on gcc or clang compilers. 	Elixir environment ready and .c file loaded into test directory.	018_S4_Valid_Prec edence.c	018	4	Precedenc e
019_S4_Valid_Precedence	Compiler	Validate the compilation of an int main function with return containing various operators with different precedence using parenthesis.	 Run compiler with .c test data name as input parameter. Verify that the compiler output corresponds to valid binary code generated on gcc or clang compilers. 	Elixir environment ready and .c file loaded into test directory.	019_S4_Valid_Prec edence.c	019	4	Precedenc e
020_S4_Valid_Precedence	Compiler	Validate the compilation of an int main function with return containing various operators with different precedence.	 Run compiler with .c test data name as input parameter. Verify that the compiler output corresponds to valid binary code generated on gcc or clang compilers. 	Elixir environment ready and .c file loaded into test directory.	020_S4_Valid_Prec edence.c	020	4	Precedenc e
021_S4_Valid_Precedence	Compiler	Validate the compilation of an int main function with return containing various operators with different precedence.	 Run compiler with .c test data name as input parameter. Verify that the compiler output corresponds to valid binary code generated on gcc or clang compilers. 	Elixir environment ready and .c file loaded into test directory.	021_S4_Valid_Prec edence.c	021	4	Precedenc e
022_S4_Invalid_AND_First_ Op_Missing	Compiler	Refute the compilation of an int main function with return that contains a missing first operator on a boolean validation.	 Run compiler with .c test data name as input parameter. Verify that the compiler shows an error on run console. No output assembly file should generate. 	Elixir environment ready and .c file loaded into test directory.	022_S4_Invalid_AN D_First_Op_Missing .c	022	4	AND_First_ Op_Missin g
023_S4_Invalid_OR_Second _Op_Missing	Compiler	Refute the compilation of an int main function with return that contains a missing second operator on a boolean validation.	 Run compiler with .c test data name as input parameter. Verify that the compiler shows an error on run console. No output assembly file should generate. 	Elixir environment ready and .c file loaded into test directory.	023_S4_Invalid_OR _Second_Op_Missi ng.c	023	4	OR_Secon d_Op_Missi ng

Test Case ID (testNumber_s#_ type)	Module	Description	Steps	Prerequisites	Test Data	Stage Test Number	Stage Number	Shortname
024_S4_Invalid_Mid_Op_Mi ssing	Compiler	Refute the compilation of an int main function with a return that has a missing mid operator.	 Run compiler with .c test data name as input parameter. Verify that the compiler shows an error on run console. No output assembly file should generate. 	Elixir environment ready and .c file loaded into test directory.	024_S4_Invalid_Mid _Op_Missing.c	024	4	Mid_Op_Mi ssing
025_S4_Invalid_Semicolon	Compiler	Refute the compilation of an int main function with a return that has a missing semicolon.	 Run compiler with .c test data name as input parameter. Verify that the compiler shows an error on run console. No output assembly file should generate. 	Elixir environment ready and .c file loaded into test directory.	025_S4_Invalid_Se micolon.c	025	4	Semicolon
026_S4_Invalid_Return_Tok en_Not_Absorbed	Compiler	Refute the compilation of an int main function with an extra return statement after a first correct return token.	 Run compiler with .c test data name as input parameter. Verify that the compiler shows an error on run console. No output assembly file should generate. 	Elixir environment ready and .c file loaded into test directory.	026_S4_Invalid_Ret urn_Token_Not_Abs orbed.c	026	4	Return_Tok en_Not_Ab sorbed

Test Case ID (testNumber_s#_ type)	Expected Result	Tester
001_S1_Valid_Return0	Valid	bondi7
002_S1_Valid_Return7	Valid	bondi7
003_S1_Valid_ReturnMD13 0	Valid	bondi7
004_S1_Valid_ReturnBlank Spaces	Valid	bondi7
005_S1_Valid_ReturnNoLin eB	Valid	bondi7
006_S1_Valid_ReturnSpace Chars	Valid	bondi7
007_S1_Invalid_ReturnNull	Invalid	bondi7
008_S1_Invalid_ReturnNoF uncName	Invalid	bondi7
009_S1_Invalid_ReturnNoP arenth	Invalid	bondi7

Test Case ID (testNumber_s#_ type)	Expected Result	Tester
010_S1_Invalid_ReturnNoB rack	Invalid	bondi7
011_S1_Invalid_ReturnNoS paces	Invalid	bondi7
012_S1_Invalid_ReturnCom ma	Invalid	bondi7
013_S1_Invalid_ReturnCap s	Invalid	bondi7
014_S1_Valid_ReturnPrecZ ero	Valid	bondi7
001_S2_Valid_Negative	Valid	bondi7
002_S2_Valid_Bitwise	Valid	bondi7
003_S2_Valid_Bitwise_0	Valid	bondi7
004_S2_Valid_Not_7	Valid	bondi7

Test Case ID (testNumber_s#_ type)	Expected Result	Tester
005_S2_Valid_Not_0	Valid	bondi7
006_S2_Valid_Multiple_Ops _1	Valid	bondi7
007_S2_Valid_Multiple_Ops _2	Valid	bondi7
008_S2_Valid_Multiple_Ops _3	Valid	bondi7
009_S2_Invalid_Wrong_Ord er_Negative	Invalid	bondi7
010_S2_Invalid_Correct_Ne g_Wrong_Bitwise_Order	Invalid	bondi7
011_S2_Invalid_Bitwise_No _Semicolon	Invalid	bondi7
012_S2_Invalid_Not_Missin g_Const	Invalid	bondi7

	Expected Result	Tester
013_S2_Invalid_Not_Bitwis lr e_Const	nvalid	bondi7
001_S3_Valid_Add	/alid	bondi7
002_S3_Valid_SubstractPos Vitive	/alid	bondi7
003_S3_Valid_SubstractNe V gative	/alid	bondi7
004_S3_Valid_DivPositive	/alid	bondi7
005_S3_Valid_DivNegative	/alid	bondi7
006_S3_Valid_MultPositive	/alid	bondi7
007_S3_Valid_MultNeg	/alid	bondi7

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Test Case ID (testNumber_s#_ type)	Expected Result	Tester
008_S3_Valid_SimpleParent hesis	Valid	bondi7
009_S3_Valid_Precedence	Valid	bondi7
010_S3_Valid_Bitwise_NoP arenthesis	Valid	bondi7
011_S3_Valid_BItwise_Pare nthesis	Valid	bondi7
012_S3_Invalid_Div_Missin g_Operator	Invalid	bondi7
013_S3_Invalid_Sum_Missi ng_Operator	Invalid	bondi7
014_S3_Invalid_Parenthesi s_Middle_Operator	Invalid	bondi7

Test Case ID (testNumber_s#_ type)	Expected Result	Tester
015_S3_Invalid_Neg_Missin g_Operator	Invalid	bondi7
001_S4_Valid_AND_Boolea n_False	Valid	bondi7
002_S4_Valid_AND_Boolea n_True	Valid	bondi7
003_S4_Valid_GE_Relationa I_False	Valid	bondi7
004_S4_Valid_GE_Relationa I_True	Valid	bondi7
005_S4_Valid_EQ_Relationa I_False	Valid	bondi7
006_S4_Valid_EQ_Relationa	Valid	bondi7
007_S4_Valid_GT_Relation_ False	Valid	bondi7

Test Case ID (testNumber_s#_ type)	Expected Result	Tester
008_S4_Valid_GT_Relationa	Valid	bondi7
009_S4_Valid_LE_Relationa I_False	Valid	bondi7
010_S4_Valid_LE_Relationa I_True	Valid	bondi7
011_S4_Valid_LT_Relational _False	Valid	bondi7
012_S4_Valid_LT_Relational _True	Valid	bondi7
013_S4_Valid_NE_Relationa	Valid	bondi7
014_S4_Valid_NE_Relationa I_True	Valid	bondi7
015_S4_Valid_OR_Boolean_ False	Valid	bondi7

Test Case ID (testNumber_s#_ type) Comparison of the state of the sta
017_S4_Valid_Precedence Valid bond 018_S4_Valid_Precedence Valid bond
018_S4_Valid_Precedence Valid bond
019_S4_Valid_Precedence Valid bond
020_S4_Valid_Precedence Valid bond
021_S4_Valid_Precedence Valid bond
O22_S4_Invalid_AND_First_ Invalid bond Dp_Missing
023_S4_Invalid_OR_Second Invalid bond _Op_Missing

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Test Case ID (testNumber_s#_ type)	Expected Result	Tester
024_S4_Invalid_Mid_Op_Mi ssing	Invalid	bondi7
025_S4_Invalid_Semicolon	Invalid	bondi7
026_S4_Invalid_Return_Tok en_Not_Absorbed	Invalid	bondi7

Tabla 1