

Compiler Test Cases

Test Case ID (testNumber_s#_type)	Module	Description	Steps	Prerequisites	Test Data	Test Number	Stage Number	Shortname	Expected Result	Tester
001_S1_Valid_Return0	Compiler	Validate an int return function with return 0 and no parameters.	1. Run compiler with .c test data name as input parameter. 2. Verify compiler output.	Elixir environment ready and .c file loaded into test directory.	001_S1_Valid_Return0.c	001	1	Return0	Valid	bondi7
002_S1_Valid_Return7	Compiler	Validate an int return function with return 7 and no parameters.	1. Run compiler with .c test data name as input parameter. 2. Verify compiler output.	Elixir environment ready and .c file loaded into test directory.	002_S1_Valid_Return7.c	002	1	Return7	Valid	bondi7
003_S1_Valid_ReturnMD130	Compiler	Validate an int return function with multi digit return of 130. The function has no input parameters.	1. Run compiler with .c test data name as input parameter. 2. Verify compiler output.	Elixir environment ready and .c file loaded into test directory.	003_S1_Valid_ReturnMD130.c	003	1	ReturnMD130	Valid	bondi7
004_S1_Valid_ReturnBlankSpaces	Compiler	Validate an int return main function with blank spaces and new lines separating each element that would comprise a token.	1. Run compiler with .c test data name as input parameter. 2. Verify compiler output.	Elixir environment ready and .c file loaded into test directory.	004_S1_Valid_ReturnBlankSpaces.c	004	1	ReturnBlankSpaces	Valid	bondi7
005_S1_Valid_ReturnNoLineB	Compiler	Validate an int return main function with no spaces between each element considered as a token.	1. Run compiler with .c test data name as input parameter. 2. Verify compiler output.	Elixir environment ready and .c file loaded into test directory.	005_S1_Valid_ReturnNoLineB.c	005	1	ReturnNoLineB	Valid	bondi7
006_S1_Valid_ReturnSpaceChars	Compiler	Validate an int return main function with different spacing characters such as tab, space or new line between each token.	1. Run compiler with .c test data name as input parameter. 2. Verify compiler output.	Elixir environment ready and .c file loaded into test directory.	006_S1_Valid_ReturnSpaceChars.c	006	1	ReturnSpaceChars	Valid	bondi7
007_S1_Invalid_ReturnNull	Compiler	Validate an int return main function with no return value.	1. Run compiler with .c test data name as input parameter. 2. Verify compiler output. 3. 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.	007_S1_Invalid_ReturnNull.c	007	1	ReturnNull	Invalid	bondi7
008_S1_Invalid_ReturnNoFuncName	Compiler	Validate an int return main function with no function name.	1. Run compiler with .c test data name as input parameter. 2. Verify compiler output. 3. 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.	008_S1_Invalid_ReturnNoFuncName.c	008	1	ReturnNoFuncName	Invalid	bondi7
009_S1_Invalid_ReturnNoParenth	Compiler	Validate an int return main function with a missing parenthesis.	1. Run compiler with .c test data name as input parameter. 2. Verify compiler output. 3. 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.	009_S1_Invalid_ReturnNoParenth.c	009	1	ReturnNoParenth	Invalid	bondi7

Test Case ID (testNumber_s#_ type)	Module	Description	Steps	Prerequisites	Test Data	Test Number	Stage Number	Shortname	Expected Result	Tester
010_S1_Invalid_ReturnNoBrack	Compiler	Validate an int return main function with a missing bracket.	1. Run compiler with .c test data name as input parameter. 2. Verify compiler output. 3. 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.	010_S1_Invalid_ReturnNoBrack.c	010	1	ReturnNoBrack	Invalid	bondi7
011_S1_Invalid_ReturnNoSpaces	Compiler	Validate an int return main function with no space between the function type and name.	1. Run compiler with .c test data name as input parameter. 2. Verify compiler output. 3. 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.	011_S1_Invalid_ReturnNoSpaces.c	011	1	ReturnNoSpaces	Invalid	bondi7
012_S1_Invalid_ReturnComma	Compiler	Validate an int return main function with a comma instead of semicolon after return statement.	1. Run compiler with .c test data name as input parameter. 2. Verify compiler output. 3. 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.	012_S1_Invalid_ReturnComma.c	012	1	ReturnComma	Invalid	bondi7
013_S1_Invalid_ReturnCaps	Compiler	Validate an int return main function with different caps format for statements on the function type and return statement.	1. Run compiler with .c test data name as input parameter. 2. Verify compiler output. 3. 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.	013_S1_Invalid_ReturnCaps.c	013	1	ReturnCaps	Invalid	bondi7
014_S1_Valid_ReturnPrecZero	Compiler	Validate an int return main function with a return value preceded by zeros.	1. Run compiler with .c test data name as input parameter. 2. Verify compiler output.	Elixir environment ready and .c file loaded into test directory.	014_S1_Valid_ReturnPrecZero.c	014	1	ReturnPrecZero	Valid	bondi7