# TEST 1

## Error conditions handled smoothly

In most cases tests should include confirmation that the macro handle invalid or error conditions smoothly, with a clear message to the user, and an appropriate return value to the calling program.

For example, given an invalid data set name, a macro should set the global macro variable CONTINUE to 0 (See [Project Programming Guidelines](http://www.phusewiki.org/wiki/index.php?title=WG5_P02_Programming_Guidelines) for further discussion).

## Checks

1. Invalid data set handled with clear message and FAIL result
   1. NULL data set
   2. Non-existent one-level data set, but name matches start of a valid name
   3. Non-existent one-level data set, but name appears within a valid name
   4. Non-existent two-level data set, but name matches end of a valid name
2. Invalid variable handled with clear message and FAIL result
   1. NULL variable
   2. Non-existent variable in one-level data set, but name is prefix of a valid variable
   3. Non-existent variable in one-level data set, but name appears within a valid variable
   4. Non-existent variable in one-level data set, but name is suffix of a valid variable
   5. Non-existent variable in two-level data set, but a valid variable matches start of this variable
   6. Non-existent variable in two-level data set, but a valid variable appears within this variable
   7. Non-existent variable in two-level data set, but a valid variable matches end of this variable

# TEST 2

## Title of this macro-specific test

Succeed in finding variables in various data sets & views

## Checks

1. Successfully find and return a PASS result
   1. Valid variable in one-level data set
   2. Valid variable in two-level data set

# TEST 3

## Confirm expected log messages

In most cases tests will include failure scenarios, which should produce log messages. The following log messages are EXPECTED due to test design (testing failure conditions):

WARNING: (TEST\_ASSERT\_VAR\_EXIST) User must ensure PhUSE/CSS utilities are in the AUTOCALL path.

WARNING: (TEST\_ASSERT\_VAR\_EXIST) User must ensure PhUSE/CSS utilities are in the AUTOCALL path.

ERROR: (ASSERT\_DSET\_EXIST) Result is FAIL. Please specify a data set name.

ERROR: (ASSERT\_VAR\_EXIST) Result is FAIL. "" is NOT a variable on data set .

ERROR: (ASSERT\_DSET\_EXIST) Result is FAIL. Data set LONGDATA is NOT accessible. Try another data set.

ERROR: (ASSERT\_VAR\_EXIST) Result is FAIL. "" is NOT a variable on data set LONGDATA.

ERROR: (ASSERT\_DSET\_EXIST) Result is FAIL. Data set DATASET is NOT accessible. Try another data set.

ERROR: (ASSERT\_VAR\_EXIST) Result is FAIL. "" is NOT a variable on data set DATASET.

ERROR: (ASSERT\_DSET\_EXIST) Result is FAIL. Data set SASUSER.SETNAME is NOT accessible. Try another data set.

ERROR: (ASSERT\_VAR\_EXIST) Result is FAIL. "" is NOT a variable on data set SASUSER.SETNAME.

ERROR: (ASSERT\_VAR\_EXIST) Result is FAIL. "" is NOT a variable on data set LONGDATASETNAME.

ERROR: (ASSERT\_VAR\_EXIST) Result is FAIL. "LONGNAM" is NOT a variable on data set LONGDATASETNAME.

ERROR: (ASSERT\_VAR\_EXIST) Result is FAIL. "ONGVAR" is NOT a variable on data set LONGDATASETNAME.

ERROR: (ASSERT\_VAR\_EXIST) Result is FAIL. "ABLENAME" is NOT a variable on data set LONGDATASETNAME.

ERROR: (ASSERT\_VAR\_EXIST) Result is FAIL. "LONGNAME" is NOT a variable on data set SASUSER.LONGDSETNAME.

ERROR: (ASSERT\_VAR\_EXIST) Result is FAIL. "NEWVARIABLESTR" is NOT a variable on data set SASUSER.LONGDSETNAME.

ERROR: (ASSERT\_VAR\_EXIST) Result is FAIL. "RATHERLONGVARIABLESTR" is NOT a variable on data set SASUSER.LONGDSETNAME.

ERROR: Errors printed on page 1.