

SpecialK Test Plan

Test	Input	Expected Result	Actual Result
Enter number of variables	Can numbers above 6 be entered?	No	
	Can negative numbers be entered?	No	
	Can characters be entered?	No	
Enter variable names	Enter a name using alphabetic characters and press set	Name accepted and updated on GUI	
	Enter a name using only numbers and press set	Name accepted and updated on GUI	
	Enter a name using a mix of numbers and alphabetic characters	Name accepted and updated on GUI	
	Enter a name using other characters and press set	Name accepted and updated on GUI	
	Enter a name using a mix of valid characters and invalid characters	Name accepted and updated on GUI	
	Are the variable names displayed correctly as part of the K-Map?	Yes	
	Are the variable names displayed correctly as part of the truth table?	Yes	

Test truth table input.	Can 0 be entered?	Yes	
	Can 1 be entered?	Yes	
	Can X be entered?	Yes	
	Can any other values be entered?	No	
	Does each button cycle through 0,1,X, and repeat in that order?	Yes	
	Does each button only change once per click?	Yes	
Solve using the Truth Table	Solve using attached Test 1, does the output of the program match with the attached solution?	Yes	
	Solve using attached Test 2, does the output of the program match with the attached solution?	Yes	
	Solve using attached Test 3, does the output of the program match with the attached solution?	Yes	
	Solve using attached Test 4, does the output of the program match with the attached solution?	Yes	
	Solve using attached Test 5, does the output of the program match with the attached solution?	Yes	
	Enter your own. Repeat to satisfaction. Are all	Yes	

	the results correct?		
--	----------------------	--	--

Test K-Map input	Can 0 be entered?	Yes	
	Can 1 be entered?	Yes	
	Can X be entered?	Yes	
	Can any other values be entered?	No	
	Does each button cycle through 0,1,X, and repeat in that order?	Yes	
	Does each button only change once per click?	Yes	
Solve using K-Map	Solve using attached Test 1, does the output of the program match with the attached solution?	Yes	
	Solve using attached Test 2, does the output of the program match with the attached solution?	Yes	
	Solve using attached Test 3, does the output of the program match with the attached solution?	Yes	
	Solve using attached Test 4, does the output of the program match with the attached solution?	Yes	
	Solve using attached Test 5, does the output of the program match with the attached solution?	Yes	
	Enter your own. Repeat to	Yes	

	satisfaction. Are all the results correct?		
	In all above cases, are variables correctly grouped via shading?	No	
Test Boolean expression input	Create a Boolean expression using illegal variable names and press calculate. Does the program crash?	Yes	
	Set some valid variable names. Create a Boolean expression using those variables and other random valid characters/names at terms. Does the program ignore the variables that were not set?	Yes	

If you feel we have missed something in this testing plan, please make note of it so that we may improve future tests.