

JUNIT Testing – programmer testing to verify valid/invalid input

[buildsCustomSentence] Test Matrix							
	Test Cases						
	Valid	Invalid					Boundary
	1	2	3	4	5	6	7
Inputs							
inputs[0]	5	-5	5	5	5	5	0
inputs[1]	9	9	30	9	9	9	20
inputs[2]	20	20	20	-18	20	20	0
inputs[3]	15	15	15	15	-6	15	20
inputs[4]	4	4	4	4	4	40	0
Outputs							
Sentence	"Custom Sentence"	-	-	-	-	-	"Custom Sentence"
Error Code	-	-1	-2	-1	-1	-2	-
Error Message	-	"Number selected was less than zero."	"Number selected was greater than twenty."	"Number selected was less than zero."	"Number selected was less than zero."	"Number selected was greater than twenty."	-

[buildsCustomSentence] (variable in memory for each test)							
Variables	1	2	3	4	5	6	7
Input[0] Person	5 grandfather	-5	5	5	5	5	0 aunt
Input[1] Adverb	9 mysteriously	9	30	9	9	9	20 courageously
Input[2] Verb	19 calls/called/will call	19	19	-18	19	19	0 becomes/became/will become
Input[3] Adjective	15 sticky short spherical red OR beautiful bite sized chubby Navy blue	15	15	15	-6	15	20 (varies based on setup)
Input[4] Object	4 chair[s]	4	4	4	4	40	0 backpack[s]
Sentence	The grandfather mysteriously calls the [42] sticky short spherical red chairs.	"Number selected was less than zero."	"Number selected was greater than twenty."	"Number selected was less than zero."	"Number selected was less than zero."	"Number selected was greater than twenty."	The aunt courageously becomes [6] clever giant cubed blue backpacks.

SYSTEM LEVEL TESTING – The program from a user perspective.

Test Script Name:		CIT 360 System testing				
Scenario/Purpose:		Verify error-free user experience				
Prerequisites:		None				
Name of Tester:				Date:		
				Time:		
Step	Description	Expected Results	Pass	Fail	N/A	Defect/Comments
1	Choose a letter other than displayed. (same results on any view)	"Invalid selection"	Y	N		Menu returns to previous state
2	Choose a number.	"Invalid selection"	Y	N		Menu returns to previous state
3	Select "s" for "sentences". Type in any combination of letters/numbers for the name.	"Welcome _____"	Y	N		Displays name input
4	Select "r" or "R" for a random sentence to be displayed.	Random sentence	Y	N		Displays sentence
5	Select "c" or "C" for a custom sentence using the database info.	proceed	Y	N		Going to the custom sentence view.
6	Now you'll enter this series of numbers hitting return after each one. 1. -5 2. 15 3. 70 4. -400 5. 9	Error: "Number selected was less than zero."	Y	N		All numbers are entered before any errors show.
7	Now you'll enter this series of numbers hitting return after each one. 6. 5 7. 15 8. 70 9. 400 10. 9	Error: "Number selected was greater than [twenty]."	Y	N		Same.
8	Play again by selecting "c" or "C". Now enter this information: 1. t 2. 5 3. 7 4. p 5. 1	Error message displayed showing first letter input: "T".	Y	N		Symbols like \$, %, and * are treated like strings and show the same result.
9	Type in "q" or "Q" to return to the main menu. Type it again to exit.	Main menu, then exit	Y	N		Exit the game.