CCPROG1 MP

Test Cases

Function: int getRandomNumber()

Test Description	Input value/parameters	Expected output/result	Actual output/result	Pass/Fail
Run/execution 1	(At every start): srand(time(NULL));	(Random number within 1-100)	34	Passed
Run/execution 2			1	Passed
Run/execution 3			42	Passed

Function: int getIntInput()

Test Description	Input value/parameters	Expected output/result	Actual output/result	Pass/Fail
Numbers within range (1 or 2)	1 2	1 2	1 2	Passed
Number outside range (not 1 or 2)	-1 32	Invalid input. Invalid input.	Invalid input. Invalid input.	Passed
Non-int data types (char, str, etc.)	b /	Invalid input. Invalid input.	Invalid input (prints infinitely)	Failed

Function: int getCharInput()

Test Description	Input value/parameters	Expected output/result	Actual output/result	Pass/Fail
Characters within range ('Y', 'y', 'N', or 'n')	Y y N n	Y y N n	Y y N n	Passed
Strings starting with a char within range ('Y', 'y', 'N', or 'n')	YY nn yes	Invalid input. Invalid input. Invalid input.	Invalid input (prints infinitely)	Failed
Strings containing a char within range ('Y', 'y', 'N', or 'n')	ty uy bn	Invalid input Invalid input Invalid input	Invalid input (but value is accepted and returned anyway)	Failed
Characters outside range (not 'Y', 'y', 'N', or 'n')	T k m	Invalid input. Invalid input. Invalid input.	Invalid input. Invalid input. Invalid input.	Passed
Non-char data types (int, etc.)	1 2 3	Invalid input. Invalid input. Invalid input.	Invalid input. Invalid input. Invalid input.	Passed
Repeated int and char (string) not	vb rt	Invalid input. Invalid input.	Invalid input. Invalid input.	Failed

Test Description	Input value/parameters	Expected output/result	Actual output/result	Pass/Fail
found range (not 'Y', 'y', 'N', or 'n')	t4	Invalid input.	Invalid input. Invalid input. Invalid input. Invalid input.	

Function: void doPuzzle1(int * nPuzzle1Passed)

Test Description	Input value/parameters	Expected output/result	Actual output/result	Pass/Fail
Puzzle succeeded (input == 2001)	0109 0928 2001	Try again. Try again. *nPuzzle1Passed = TRUE	Try again. Try again. *nPuzzle1Passed = TRUE	Passed
Puzzle failed (input != 2001 && nFailCount !=4)	010928 0109 0928 0901	Try again. Try again. Try again. *nPuzzle1Passed = FALSE	Try again. Try again. Try again. Try again. *nPuzzle1Passed = FALSE	Failed

Function: void doPuzzle2(int * nPuzzle2Passed)

Test Description	Input value/parameters	Expected output/result	Actual output/result	Pass/Fail
Puzzle succeeded (input == 3)	1 3	Try again. *nPuzzle1Passed = TRUE	Try again. *nPuzzle1Passed = TRUE	*Passed (program/story ends prematurely)
Puzzle failed (input != 3 && nFailCount !=2)	1 2	Try again. *nPuzzle1Passed = TRUE	Try again. Try again. *nPuzzle1Passed = TRUE	Failed