System Test Plan: Guessing Game program

You will provide an integer value to be used as a seed for the random generator when testing. Below are the secret code digits for several different seeds that you can use in your tests.

Seed: 1 Secret Code: 5873 Seed: 5 Secret Code: 7244 Seed: 22 Secret Code: 2021 Seed: 55 Secret Code: 5999

NOTE: You can stop program execution by pressing Ctrl+C.

Test ID	Description	Expected Results	Actual Results
testTooManyCommandLineA rguments	\$ java -cp bin GuessingGame abc 123	Usage: java -cp bin GuessingGame <seed></seed>	Usage: java -cp bin GuessingGame <seed> <program exits=""></program></seed>
Author: Dr. Balik		<program exits=""></program>	
testNonintegerCommandLin eArgument	\$ java -cp bin GuessingGame abc	Usage: java -cp bin GuessingGame <seed></seed>	Usage: java -cp bin GuessingGame <seed></seed>
Author: Dr. Balik		<program exits=""></program>	<program exits=""></program>
testNonintegerGuess	\$ java -cp bin GuessingGame 1	Invalid guess	Invalid guess
Author: Dr. Balik	< <header>></header>	Guess 4 digits (e.g., 2 8 5 8):	Guess 4 digits (e.g., 2 8 5 8):
	Guess 4 digits (e.g., 2 8 5 8): 7 8 xy		
testInvalidIntegerGuess	\$ java -cp bin GuessingGame 1	Invalid guess	Invalid guess
Author: Dr. Balik	< <header>></header>	Guess 4 digits (e.g., 2 8 5 8):	Guess 4 digits (e.g., 2 8 5 8):
	Guess 4 digits (e.g., 2 8 5 8): 9 12 0		
testOneCorrectDigitIncorrec tPlace	<pre>\$ java -cp bin GuessingGame 1 <<header>></header></pre>	Guess CD CP 8 6 4 1 1 0	Guess CD CP 8 6 4 1 1 0

Test ID Description Expected Results Actual Results testOneCorrectDigitCorrectP \$ java -cp bin GuessingGame 1 Guess CD CP 0 1 7 2 1 1 0 1 7 2 1 1 Author: Dr. Balik Guess 4 digits (e.g., 2 8 5 8): 0 1 7 2 Guess 4 digits (e.g., 2 8 5 8): Guess 4 digits (e.g., 2 8 5 8):	
lace	
testWinAfter3Guesses	(es)!

Test ID	Description	Expected Results	Actual Results
testBoundaryValue0And0Co	\$ java -cp bin GuessingGame 1	Guess CD CP	Guess CD CP
rrectDigits		0 0 0 0 1 0 0	0 0 0 0 0 0
	< <header>></header>		
William Baldwin		Guess 4 digits (e.g., 2 8 5 8):	Guess 4 digits (e.g., 2 8 5 8):
	Guess 4 digits (e.g., 2 8 5 8): 0 0 0 0		
testLoseAfter10Guesses		Guess CD CP	Guess CD CP
	Guess CD CP	1 1 1 1 0 0	1 1 1 1 0 0
William Baldwin	1 1 1 1 0 0	2 2 2 2 0 0	2 2 2 2 0 0
		3 3 3 3 1 1	3 3 3 3 1 1
	Guess 4 digits (e.g., 2 8 5 8): 2 2 2 2	4 4 4 4 0 0	4 4 4 4 0 0
		5 5 5 5 1 1	5 5 5 5 1 1
	Guess CD CP	6666100	6666 0 0
	1 1 1 1 0 0	7777 1 1	7777 1 1
	2 2 2 2 0 0	8 8 8 8 1 1	8 8 8 8 1 1
		9 9 9 9 0 0	9 9 9 9 0 0
	Guess 4 digits (e.g., 2 8 5 8): 3 3 3 3		
	Guess CD CP	Sorry, no more guesses - the secret	Sorry, no more guesses - the secret code is 5
	1 1 1 1 0 0	code is 5 8 7 3	8 7 3
	2 2 2 2 0 0		
	3 3 3 3 1 1		
	Guess 4 digits (e.g., 2 8 5 8): 4 4 4 4		
	Guess CD CP		
	1 1 1 1 0 0		
	2 2 2 2 0 0		
	3 3 3 3 1 1		
	4 4 4 4 0 0		
	Guess 4 digits (e.g., 2 8 5 8): 5 5 5 5		
	Guess CD CP		
	1 1 1 1 0 0		

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2 2 2 2 | 0 0
3 3 3 3 | 1 1
4 4 4 4 | 0 0
5 5 5 5 | 1 1
Guess 4 digits (e.g., 2 8 5 8): 6 6 6 6
Guess | CD CP
1 1 1 1 | 0 0
2 2 2 2 | 0 0
3 3 3 3 | 1 1
4 4 4 4 | 0 0
5 5 5 5 | 1 1
6666100
Guess 4 digits (e.g., 2 8 5 8): 7 7 7 7
Guess | CD CP
1 1 1 1 | 0 0
2 2 2 2 1 0 0
3 3 3 3 | 1 1
4 4 4 4 | 0 0
5 5 5 5 | 1 1
6666100
7 7 7 7 | 1 1
Guess 4 digits (e.g., 2 8 5 8): 8 8 8
Guess | CD CP
1 1 1 1 | 0 0
2 2 2 2 1 0 0
3 3 3 3 | 1 1
4 4 4 4 | 0 0
5 5 5 5 | 1 1
6 6 6 6 | 0 0
7 7 7 7 | 1 1
8 8 8 8 | 1 1
Guess 4 digits (e.g., 2 8 5 8): 9 9 9 9
Guess | CD CP
1 1 1 1 | 0 0
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	2 2 2 2 0 0 3 3 3 3 1 1 4 4 4 4 0 0 5 5 5 5 1 1 6 6 6 6 0 0 7 7 7 7 1 1 8 8 8 8 1 1 9 9 9 9 0 0 Guess 4 digits (e.g., 2 8 5 8): 0 0 0 0		
test2CorrectDigit0CorrectPla ce William Baldwin	<pre>\$ java -cp bin GuessingGame 1 <<header>> Guess 4 digits (e.g., 2 8 5 8): 7 5 9 2</header></pre>	Guess CD CP 7 5 9 2 2 0 Guess 4 digits (e.g., 2 8 5 8):	Guess CD CP 7 5 9 2 2 0 Guess 4 digits (e.g., 2 8 5 8):
testWinOnFirstGuessFirstBo undaryForWin William Baldwin	<pre>\$ java -cp bin GuessingGame 1 <<header>> Guess 4 digits (e.g., 2 8 5 8): 5 8 7 3</header></pre>	Guess CD CP 5 8 7 3 2 0 You guessed correctly after 1 guess(es)!	Guess CD CP 5 8 7 3 2 0 You guessed correctly after 1 guess(es)!
test3CorrectDigits3CorrectPl ace William Baldwin	<pre>\$ java -cp bin GuessingGame 1 <<header>> Guess 4 digits (e.g., 2 8 5 8): 2 8 7 3</header></pre>	Guess CD CP 2 8 7 3 3 3 You guessed correctly after 1 guess(es)!	Guess CD CP 2 8 7 3 3 3 You guessed correctly after 1 guess(es)!
testInvalidGuessBoundary-1 William Baldwin	<pre>\$ java -cp bin GuessingGame 1 <<header>> Guess 4 digits (e.g., 2 8 5 8): 4 7 -1 9</header></pre>	Invalid guess Guess 4 digits (e.g., 2 8 5 8):	Invalid guess Guess 4 digits (e.g., 2 8 5 8):