

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: 5 8 7 3
Seed: 5 Secret Code: 7 2 4 4
Seed: 22 Secret Code: 2 0 2 1
Seed: 55 Secret Code: 5 9 9 9

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

Test ID	Description	Expected Results	Actual Results
testTooManyCommandLineArguments Author: Dr. Balik	\$ java -cp bin GuessingGame abc 123	Usage: java -cp bin GuessingGame <seed> <Program exits>	Usage: java -cp bin GuessingGame <seed> <Program exits>
testNonintegerCommandLineArgument Author: Dr. Balik	\$ java -cp bin GuessingGame abc	Usage: java -cp bin GuessingGame <seed> <Program exits>	Usage: java -cp bin GuessingGame <seed> <Program exits>
testNonintegerGuess Author: Dr. Balik	\$ java -cp bin GuessingGame 1 <<Header>> Guess 4 digits (e.g., 2 8 5 8): 7 8 xy9	Invalid guess Guess 4 digits (e.g., 2 8 5 8):	Invalid guess Guess 4 digits (e.g., 2 8 5 8):
testInvalidIntegerGuess Author: Dr. Balik	\$ java -cp bin GuessingGame 1 <<Header>> Guess 4 digits (e.g., 2 8 5 8): 9 12 08	Invalid guess Guess 4 digits (e.g., 2 8 5 8):	Invalid guess Guess 4 digits (e.g., 2 8 5 8):
testOneCorrectDigitIncorrectPlace	\$ java -cp bin GuessingGame 1 <<Header>>	Guess CD CP 8 6 4 1 1 0	Guess CD CP 8 6 4 1 1 0

Author: Dr. Balik	Guess 4 digits (e.g., 2 8 5 8): 8 6 4 1	Guess 4 digits (e.g., 2 8 5 8):	Guess 4 digits (e.g., 2 8 5 8):
Test ID	Description	Expected Results	Actual Results
testOneCorrectDigitCorrectPlace Author: Dr. Balik	<pre>\$ java -cp bin GuessingGame 1 <<Header>> Guess 4 digits (e.g., 2 8 5 8): 0 1 7 2</pre>	<pre>Guess CD CP 0 1 7 2 1 1 Guess 4 digits (e.g., 2 8 5 8):</pre>	<pre>Guess CD CP 0 1 7 2 1 1 Guess 4 digits (e.g., 2 8 5 8):</pre>
testWinAfter3Guesses Author: Dr. Balik	<pre>\$ java -cp bin GuessingGame 1 <<Header>> Guess 4 digits (e.g., 2 8 5 8): 8 5 3 7 Guess CD CP 8 5 3 7 4 0 Guess 4 digits (e.g., 2 8 5 8): 5 7 3 8 Guess CD CP 8 5 3 7 4 0 5 7 3 8 4 1 Guess 4 digits (e.g., 2 8 5 8): 5 8 7 3</pre>	<pre>Guess CD CP 8 5 3 7 4 0 5 7 3 8 4 1 5 8 7 3 4 4 You guessed correctly after 3 guess(es)!</pre>	<pre>Guess CD CP 8 5 3 7 4 0 5 7 3 8 4 1 5 8 7 3 4 4 You guessed correctly after 3 guess(es)!</pre>

Test ID	Description	Expected Results	Actual Results
testGetCorrectDigitsInCorrectPlace4CorrectLength4 Author:Hayden Hunter	\$ java -cp bin GuessingGame 5 <<Header>> Guess 4 digits (e.g., 2 8 5 8): 7 2 4 4	Guess CD CP 7 2 4 4 4 4 You guessed correctly after 1 guess(es)!	Guess CD CP 7 2 4 4 4 4 You guessed correctly after 1 guess(es)!
testGetCorrectDigitsInCorrectPlaceNoCorrectLength4 Author:Hayden Hunter	\$ java -cp bin GuessingGame 1 <<Header>> Guess 4 digits (e.g., 2 8 5 8): 8 5 3 7	Guess CD CP 8 5 3 7 4 0 Guess 4 digits (e.g., 2 8 5 8):	Guess CD CP 8 5 3 7 4 0 Guess 4 digits (e.g., 2 8 5 8):
testGetCorrectDigitsInCorrectPlaceAllSame2CorrectPlaceLength4 Author:Hayden Hunter	\$ java -cp bin GuessingGame 1 <<Header>> Guess 4 digits (e.g., 2 8 5 8): 5 8 3 7	Guess CD CP 5 8 3 7 4 2 Guess 4 digits (e.g., 2 8 5 8):	Guess CD CP 5 8 3 7 4 2 Guess 4 digits (e.g., 2 8 5 8):
testGetCorrectDigitsInCorrectPlace3CorrectLength4 Author:Hayden Hunter	\$ java -cp bin GuessingGame 1 <<Header>> Guess 4 digits (e.g., 2 8 5 8): 5 8 7 4	Guess CD CP 5 8 7 4 3 3 Guess 4 digits (e.g., 2 8 5 8):	Guess CD CP 5 8 7 4 3 3 Guess 4 digits (e.g., 2 8 5 8):
testGetCorrectDigitsDuplicateCodeDigits Author:Hayden Hunter	\$ java -cp bin GuessingGame 1 <<Header>> Guess 4 digits (e.g., 2 8 5 8): 5 5 9 0	Guess CD CP 5 5 9 0 1 1 Guess 4 digits (e.g., 2 8 5 8):	Guess CD CP 5 5 9 0 1 1 Guess 4 digits (e.g., 2 8 5 8):
testGetCorrectDigitsGuessDuplicateDigitGuessNoDuplicate Author:Hayden Hunter	\$ java -cp bin GuessingGame 55 <<Header>> Guess 4 digits (e.g., 2 8 5 8): 2 3 3 9	Guess CD CP 2 3 3 9 3 1 Guess 4 digits (e.g., 2 8 5 8):	Guess CD CP 2 3 3 9 3 1 Guess 4 digits (e.g., 2 8 5 8):