Thomas Buteau
CS162-400 Lab 3 Test Data

Tests (User inputs)

Test description	Test Inputs	Method Tested	Expected Outcome	Observed Outcome
User enters non-integer	a	Game.menu()	Error Message	"User input invalid, please try again."
User enters integer smaller than accepted range	0	Game.menu()	Error Message	"Input outside of range. Please enter a number between 1 and 3."
User attempts to run game before configuring dice	2	Game.menu()	Error Message	"Please configure the dice before playing."
User attempts to configure dice	1	Game.menu()	Prompts to configure player 1's die	"Enter the number of sides for player 1's die between 1 and 999."
Incorrect user input for sides of die	0	Game.setDie()	Error Message	"User input invalid, please try again."
Correct user input for sides of die	10	Game.setDie()	Prompts to configure player 1's die continue	"Is the die loaded?"
Incorrect user input for loaded	a	Game.setDie()	Error Message	"User input invalid, please try again."
Correct user input for sides of die	1	Game.setDie()	Either prompt to configure player 2's die or return to menu.	"Enter the number of sides for player 2's die between 1 and 999."
User attempts to run game after configuring dice	2	Game.menu()	Prompts to enter number of rounds to play	"Enter a number of rounds between 1 and 999."
Incorrect user input for rounds	a	Game.menu()	Error Message	"User input invalid, please try again."
Correct user input for rounds	20	Game.menu()	Program runs Game.play(rounds)	Program runs Game.play(rounds)
User attempts to exit game	3	Game.menu()	Program exits	Program exits

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Tests (Game results)

Test description	P1 sides	P1 is loaded	P2 sides	P2 is loaded	Num Rounds	Expected Outcome P1 wins / P2 wins	Observed Outcome P1 wins / P2 wins*
d6's, fair, 20 rounds	6	no	6	no	20	roughly equal	5/12, 9/9, 7/10, 5/12, 10/7
d6's, unfair, 20 rounds	6	no	6	yes	20	P2 wins more	6/11, 5/10, 5/13, 4/14, 6/13
d6/d10, fair, 20 rounds	6	no	10	no	20	P2 wins more	1/16, 4/13, 5/13, 9/10, 8/11
d6/d10, unfair, 20 rounds	6	yes	10	no	20	P2 wins more (closer game than previous)	8/11, 5/12, 7/9, 5/12, 3/13

*Observed outcomes are out of 5 attempts each.