

David Mednikov

CS 162 W17

onid: mednikod

Lab 3 Test Plan

Test Case	Input Values	Expected Outcomes	Observed Outcomes
player 1 loaded, player 2 not loaded. 20 sides for both, 50 rounds	p1Loaded = 1, p2Loaded = 2, sides = 20, rounds = 50-	Player 1 will win more rounds Player 2's rolls will average around 10 (50% of 20) Player 1 will average anywhere from 13-15, Which is about 75% of the max number	Player 1 won 34 rounds Player 2 won 14 rounds Player 1 averaged 14.88 Player 2 averaged 12
Both players loaded 10 sides each 50 rounds	p1Loaded = 1 p2Loaded = 1 sides = 10 rounds = 50	Their scores will be pretty close, ~15 wins each The rest will be draws They should both average about 7.5 per roll	Player 1 won 18 rounds Player 2 won 13 rounds 19 draws Player 1 averaged 8.32 Player 2 averaged 7.34
Both players not loaded, 10 sides each, 50 rounds	p1Loaded = 2 p2Loaded = 2 sides = 10 rounds = 50	Their scores will be close, about 25 wins each Not many draws Average about 5.5 per roll	Player 1 won 22 rounds Player 2 won 23 rounds 5 draws Player 1 averaged 5.72 Player 2 averaged 5.74
Player 1 15 sides, Player 2 10 sides, Both not loaded, 50 rounds	p1Sides = 15 p2Sides = 10 p1Loaded & p2Loaded = 2 rounds = 50	Player 1 will win about 30 rounds Player 1 will average about 8 per roll Player 2 will average about 5.5 per roll	Player 1 won 30 rounds Player 2 won 18 rounds Player 1 averaged 7.98 Player 2 averaged 5.9
Player 1 50 sides, Player 2 10 sides, neither loaded, 50 rounds	p1Sides = 50 p2Sides = 10 p1Loaded & p2Loaded = 2 rounds = 50	Player 1 will win more than 40 rounds Player 1 will average about 25 per roll Player 2 will average about 5.5 per roll	Player 1 won 45 rounds Player 2 won 2 rounds Player 1 averaged 24.44 Player 2 averaged 5.84
Player 1 15 sides, Player 2 10 sides, player 1 not loaded, Player 2 loaded 50 rounds	p1Sides = 15 p2Sides = 10 p1Loaded = 2 p2Loaded = 1 rounds = 50	Both player will win about 20 rounds Both players will average about 7.5 per roll There will be less draws than when they have equal sides	Player 1 won 27 rounds Player 2 won 19 rounds Player 1 averaged 8.34 Player 2 averaged 7.16