

### Data Structures Homework 3

Group Members: Maggie Lyon and Chi Thanh Tran

Test Case 1:

Test Case Author: Chi Thanh Tran

Tester Name: Maggie Lyon

ID	Test Condition	Test Steps	Test Input	Expected Result	Actual Result	Status	Remarks
1	Check if exceptions are thrown correctly when StackUnderflow	Try playing extra card while side deck is empty	Use command "3" when side deck's size = 0	stackUnderflow thrown	Pre-check prevent exception from throwing	P	This still makes the program run as needed
2	Check if exceptions are thrown correctly when StackOverflow	Try adding card to side when it's full	Use command "2" when side deck is full	StackOverflow thrown, program interrupted	StackOverflow thrown, program interrupted	P	
3	Check if game ended correctly when computer/player are out of cards	Have computer or player lose the game	Reduce computer or player card amount to 0	Win/Lose quote outputted	Win/Lose quote outputted	P	

Test Case 2:

Test Case Author      Maggie Lyon

Module Name            War

Test Case ID            War\_1

Test Case Description   Testing Functionality of War.exe

Prerequisites            C++ Compiler

Environmental  
Conditions                OS: Windows/Linux/Mac, System:  
PC

Tester Name              Chi Thanh Tran

Test Scenario	Testing Functionality of 'play set number of rounds' option of War game
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Test Case ID	Test Steps	Test Input	Expected Results	Actual Results	Status	Comments
1	Select play a set number of rounds	Enter 2	"How many rounds would you like to play?"	"How many rounds would you like to play?"	Pass	None
	Enter how many rounds you would like to play	Enter 2 rounds	"*****Starting Game...*****"	"*****Starting Game...*****"	Pass	None
	Select 'Play just this card'	Enter 1	"...*****Next Turn*****"	"...*****Next Turn*****"	Pass	None
	Select 'Play just this card'	Enter 1	"Game over! You Lose :<" OR "Game over! You win!" Depending on draw	Game over! You lose :<	Pass	Prints "Next Turn" before game over

Contributions:

Maggie – Programming for Deck and Side Classes, Test case 2, Turn functionality

Thanh – Polishing and Bug-checking for main, turn functionality Test case 1