Black Box Test Plan: GraduateInformation program

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Date: 11/12/2016
Test Files: graduates.txt, smallGraduates.txt
Test Cases

Test ID	Description	Expected Results	Actual Results
testNoCommandLineArgs Author: Dr. Balik	$ java GraduateInformation	Usage: java GraduateInformation filename	Usage: java GraduateInformation filename
testTwoCommandLineArgs Author: Dr. Balik	$ java GraduateInformation graduates.txt another.txt	Usage: java GraduateInformation filename	Usage: java GraduateInformation filename
testNonexistingFile Author: Dr. Balik	$ java GraduateInformation junk.txt	Unable to access input file: junk.txt	Unable to access input file: junk.txt
testMenuOption Author: Dr. Balik	$ java GraduateInformation graduates.txt	Menu is displayed and user is prompted for option	Menu is displayed and user is prompted for option

Test ID	Description	Expected Results	Actual Results
testInvalidOption Author: Dr. Balik	$ j a v a GraduateInformation graduates.txt Option: xyz	Invalid option Menu is redisplayed and user is prompted for option	Invalid option Menu is redisplayed and user is prompted for option
testInvalidDegree Author:	$ j a v a GraduateInformation graduates.txt Option: D, aaa	Invalid degree Menu is redisplayed and user is prompted for option	Invalid degree Menu is redisplayed and user is prompted for option
testInvalidYear Author:	$ j a v a GraduateInformation graduates.txt Option: Y, 2030	Invalid year Menu is redisplayed and user is prompted for option	Invalid year Menu is redisplayed and user is prompted for option

Test ID	Description	Expected Results	Actual Results

testStatistics
 	
Author:
Dr. Balik
	$ java GraduateInformation smallGraduates.txt
	Option: s
		Number of graduates: 8
		By degree
		  B.S.: 3
		  M.S.: 3
		  Ph.D.: 2
		By year
		  1960-69: 1
		  1970-79: 2
		  1980-89: 1
		  1990-99: 2
		  2000-09: 2
		  2010-19: 0
			Number of graduates: 8
			By degree
			  B.S.: 3
			  M.S.: 3
			  Ph.D.: 2
			By year
			  1960-69: 1
			  1970-79: 2
			  1980-89: 1
			  1990-99: 2
			  2000-09: 2
			  2010-19: 0

testList Author:	$ java GraduateInformation smallGraduates.txt Option: L	Year Degree Name 1972 B.S. Anne 1984 M.S. Bob 1991 Ph.D. Christina 2001 Ph.D. David 1965 B.S. Edward 2001 M.S. Frank 1991 M.S. Gabrielle 1975 B.S. Harry	Year Degree Name 1972 B.S. Anne 1984 M.S. Bob 1991 Ph.D. Christina 2001 Ph.D. David 1965 B.S. Edward 2001 M.S. Frank 1991 M.S. Gabrielle 1975 B.S. Harry

Test ID	Description	Expected Results	Actual Results
testDegree Author:	$ j a v a GraduateInformation smallGraduates.txt Option: d, B.S.	Graduates with degree: B.S. 1972 Anne 1965 Edward 1975 Harry	Graduates with degree: B.S. 1972 Anne 1965 Edward 1975 Harry
testYear Author:	$ j a v a GraduateInformation smallGraduates.txt Option: Y, 1984	Graduates with graduation date: 1984 M.S. Bob	Graduates with graduation date: 1984 M.S. Bob
testQuit Author: Dr. Balik	$ j a v a GraduateInformation graduates.txt Option: Q	Goodbye!	Goodbye!
testDegree	$ j a v a GraduateInformation smallGraduates.txt Option: d, Ph.D.	Graduates with degree: Ph.D. 1991 Christina 2001 David	Graduates with degree: Ph.D. 1991 Christina 2001 David

Test ID	Description	Expected Results	Actual Results
testYear Author:	$ java GraduateInformation smallGraduates.txt Option: Y, 1965	Graduates with graduation date: 1965 B.S. Edward	Graduates with graduation date: 1965 B.S. Edward
testDegree	$ java GraduateInformation smallGraduates.txt Option: d, M.S.	Graduates with degree: M.S. 1984 Bob 2001 Frank 1991 Gabrielle	Graduates with degree: M.S. 1984 Bob 2001 Frank 1991 Gabrielle
testYear Author:	$ java GraduateInformation smallGraduates.txt Option: y, 1991	Graduates with graduation date: 1991 Ph.D. Christina M.S. Gabrielle	Graduates with graduation date: 1991 Ph.D. Christina M.S. Gabrielle

Test ID	Description	Expected Results	Actual Results
testDegree	$ java GraduateInformation smallGraduates.txt Option: D, B.S.	Graduates with degree: B.S. 1972 Anne 1965 Edward 1975 Harry	Graduates with degree: B.S. 1972 Anne 1965 Edward 1975 Harry