

Black Box Test Plan: PayGap program

Test Files: salaries.csv, three_jobs.csv

The text in bold in the **Description** column represents the test inputs to the program. You can stop program execution by pressing Ctrl+C.

Test ID	Description	Expected Results	Actual Results
testNoCommandLineArgs Author: Dr. Balik	\$java -cp bin PayGap	Usage: java -cp bin PayGap filename	Usage: java -cp bin PayGap filename
testTwoCommandLineArgs Author: Dr. Balik	\$java -cp bin PayGap test-files/salaries.csv test-files/three_jobs.csv	Usage: java -cp bin PayGap filename	Usage: java -cp bin PayGap filename
testNonexistentFile Author: Dr. Balik	\$ java -cp bin PayGap test-files/no_such_file.csv	Unable to access input file: test-files/no_such_file.csv	Unable to access input file: test-files/no_such_file.csv
testOptionsMenu Author: Dr. Balik	\$ java -cp bin PayGap test-files/salaries.csv (Ctrl+C to stop execution)	Gender Pay Gap Information - Please enter an option below. D - Display all jobs J - Search by job S - Search by salary range P - Search by percentage Q - Quit the program Option:	Gender Pay Gap Information - Please enter an option below. D - Display all jobs J - Search by job S - Search by salary range P - Search by percentage Q - Quit the program Option:

testQuit	\$ java -cp bin PayGap test-files/salaries.csv	Goodbye!	Goodbye!
Author: Dr. Balik	Menu is displayed	Program exits	Program exits
	Option: q		
testInvalidOption	\$ java -cp bin PayGap test-files/salaries.csv	Invalid option	Invalid option
Author: Dr. Balik	Menu is displayed		
	Option: quit		
	(Ctrl+C to stop execution)		
testDisplayJobs	\$ java -cp bin PayGap test-files/three_jobs.csv	Job Description Female Male Salary Salary	Job Description Female Male Salary Salary
Author: Dr. Balik	Menu is displayed	----- ----- -----	----- ----- -----
	Option: d	Butcher 34200 36575	Butcher 34200 36575
	(Ctrl+C to stop execution)	Baker 29800 30450	Baker 29800 30450
		Candlestick maker 34080 39896	Candlestick maker 34080 39896
		(NOTE: spaces have been omitted)	(NOTE: spaces have been omitted)
testSearchByJob	\$ java -cp bin PayGap test-files/three_jobs.csv	Job Description Female Male Salary Salary	Job Description Female Male Salary Salary
Author: Dr. Balik	Menu is displayed	----- ----- -----	----- ----- -----
	Option: J	Baker 29800 30450	Baker 29800 30450
	Job (contains/is): AKER	Candlestick maker 34080 39896	Candlestick maker 34080 39896
	(Ctrl+C to stop execution)	(NOTE: spaces have been omitted)	(NOTE: spaces have been omitted)
testSearchBySalary	\$ java -cp bin PayGap test-files/three_jobs.csv	Job Description Female Male Salary Salary	Job Description Female Male Salary Salary
	Menu is displayed	----- ----- -----	----- ----- -----
	Option: s	Butcher 34200 36575	Butcher 34200 36575
	Minimum Salary: 35000	(NOTE: spaces have been omitted)	(NOTE: spaces have been omitted)
	Maximum Salary: 40000		

testCharacterMinimum	<div>\$ java -cp bin PayGap test-files/three_jobs.csv</div> <div>Menu is displayed</div> <div>Option: s</div> <div>Minimum Salary: a</div>	Invalid value	Invalid value																																				
testCharacterMaximum	<div>\$ java -cp bin PayGap test-files/three_jobs.csv</div> <div>Menu is displayed</div> <div>Option: s</div> <div>Minimum Salary: 35000</div> <div>Maximum Salary: a</div>	Invalid value	Invalid value																																				
testSearchByPercentage	<div>\$ java -cp bin PayGap test-files/three_jobs.csv</div> <div>Menu is displayed</div> <div>Option: s</div> <div>Minimum Salary: 35000</div> <div>Maximum Salary: a</div>	<table><tr><td></td><td>Female</td><td>Male</td></tr><tr><td>Job Description</td><td>Salary</td><td>Salary</td></tr><tr><td>-----</td><td>-----</td><td>-----</td></tr><tr><td>Butcher</td><td>34200</td><td>36575</td></tr><tr><td>Candlestick maker</td><td>34080</td><td>39896</td></tr><tr><td colspan="3">(NOTE: spaces have been omitted)</td></tr></table>		Female	Male	Job Description	Salary	Salary	-----	-----	-----	Butcher	34200	36575	Candlestick maker	34080	39896	(NOTE: spaces have been omitted)			<table><tr><td></td><td>Female</td><td>Male</td></tr><tr><td>Job Description</td><td>Salary</td><td>Salary</td></tr><tr><td>-----</td><td>-----</td><td>-----</td></tr><tr><td>Butcher</td><td>34200</td><td>36575</td></tr><tr><td>Candlestick maker</td><td>34080</td><td>39896</td></tr><tr><td colspan="3">(NOTE: spaces have been omitted)</td></tr></table>		Female	Male	Job Description	Salary	Salary	-----	-----	-----	Butcher	34200	36575	Candlestick maker	34080	39896	(NOTE: spaces have been omitted)		
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testNegativePercentage	<div>\$ java -cp bin PayGap test-files/three_jobs.csv</div> <div>Menu is displayed</div> <div>Option: p</div> <div>Percentage: 95</div>	Invalid value	Invalid value																																				
testCharacterPercentage		Invalid value	Invalid value																																				
testNegativeMinimum	<div>\$ java -cp bin PayGap test-files/three_jobs.csv</div> <div>Menu is displayed</div> <div>Option: S</div> <div>Minimum Salary: -4</div>	Invalid value	Invalid value																																				

testNegativeMaximum	<div>\$ java -cp bin PayGap test-files/three_jobs.csv</div> <div>Menu is displayed</div> <div>Option: s</div> <div>Minimum Salary: 35000</div> <div>Maximum Salary: -4</div>	Invalid value	Invalid value
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