Black Box Test Plan: AffordingRent program

Test Files: states.csv, three_states.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 AffordingRent	`Usage: java -cp bin AffordingRent filename`	`Usage: java -cp bin AffordingRent filename`
testTwoCommandLineArgs Author: Dr. Balik	$java -cp bin AffordingRent test-files/states.csv test-files/three_states.csv	`Usage: java -cp bin AffordingRent filename`	`Usage: java -cp bin AffordingRent filename`
testNonexistentFile Author: Dr. Balik	$ java -cp bin AffordingRent 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`

testOptionMenu
 	
Author: Dr. Balik
	$ java -cp bin AffordingRent test-files/states.csv
	
	(Ctrl+C to stop execution)
		`Affording Rent for Minimum Wage Workers - Please enter an option below.`
		
		`D - Display all states`
		`S - Search by state`
		`M - Search by minimum wage range`
		`I - Search by income range`
		`Q - Quit the program`
		
		`Option:`
			`Affording Rent for Minimum Wage Workers - Please enter an option below.`
			
			`D - Display all states`
			`S - Search by state`
			`M - Search by minimum wage range`
			`I - Search by income range`
			`Q - Quit the program`
			
			`Option:`

testQuit Author: Dr. Balik	$ java -cp bin AffordingRent test-files/states.csv Menu is displayed Option: **q**	``` Goodbye! Program exits ```	``` Goodbye! Program exits ```
testInvalidOption Author: Dr. Balik	$ java -cp bin AffordingRent test-files/states.csv Menu is displayed Option: **quit** (Ctrl+C to stop execution)	`Invalid option`	`Invalid option`

testDisplayStates
 	
Author: Dr. Balik
	$ java -cp bin AffordingRent test-files/three_states.csv
	
	Menu is displayed
	
	Option: **d**
	
	(Ctrl+C to stop execution)
		``
		          Minimum Monthly Rent Yearly Income Hours per Week
		  State Wage for 2 BR Apt to Afford Rent to Afford Rent
		  ----- -------- ------------ -------------- --------------
		Idaho 7.25 739.50 29580 78.46
		New York 9.00 1387.70 55508 118.61
		Ohio 8.10 751.50 30060 71.37
		``
		
		(NOTE: spacing may be slightly off)
			``
			          Minimum Monthly Rent Yearly Income Hours per Week
			  State Wage for 2 BR Apt to Afford Rent to Afford Rent
			  ----- -------- ------------ -------------- --------------
			Idaho 7.25 739.50 29580 78.46
			New York 9.00 1387.70 55508 118.61
			Ohio 8.10 751.50 30060 71.37
			``
			
			(NOTE: spacing may be slightly off)

testSearchByState
 	
Author: Dr. Balik
	$ java -cp bin AffordingRent test-files/states.csv
	
	Menu is displayed
	
	Option: **S**
	State name (starts with/is): new m
	
	(Ctrl+C to stop execution)
		``
		          Minimum Monthly Rent Yearly Income Hours per Week
		  State Wage for 2 BR Apt to Afford Rent to Afford Rent
		  ----- -------- ------------ -------------- --------------
		New Mexico 7.50 835.10 33404 85.65
		``
		
		(NOTE: spacing may be slightly off)
			``
			          Minimum Monthly Rent Yearly Income Hours per Week
			  State Wage for 2 BR Apt to Afford Rent to Afford Rent
			  ----- -------- ------------ -------------- --------------
			New Mexico 7.50 835.10 33404 85.65
			``
			
			(NOTE: spacing may be slightly off)

testSearchByMinWage MinInvaildValue Author: Jamea Speight	$ java -cp bin AffordingRent test-files/states.csv Menu is displayed Option: **m** Minimum value: xyz	`Invalid value`	`Invalid value`

	(Ctrl+C to stop execution)		
testSearchByMinWage MaxInvaildValue Author: Jamea Speight	$ java -cp bin AffordingRent test-files/states.csv Menu is displayed Option: m Minimum Value: 7.50 Maximum Value: jam (Ctrl+C to stop execution)	Invaild value	Invalid value
testSearchByMinWage EnteredInterger Author: Jamea Speight	$ java -cp bin AffordingRent test-files/states.csv Menu is displayed Option: m Minimum Value: 750 (Ctrl+C to stop execution)	Invaild value	Invaild value

testSearchByMinWage

Author: Jamea Speight

$ java -cp bin AffordingRent test-files/states.csv

Menu is displayed

Option: **m**
Minimum Value: 7.50
Maximum Value: 8.25

(Ctrl+C to stop execution)

```
                Minimum  Monthly Rent   Yearly Income  Hours per Week
    State        Wage    for 2 BR Apt  to Afford Rent  to Afford Rent
    -----       --------  ------------  --------------  --------------
    Arizona       8.05       893.15        35726           85.35
    Arkansas      8.00       689.30        27572           66.28
    Delaware      8.25      1128.45        45138          105.22
    Florida       8.05      1038.18        41527           99.20
    Illinois      8.25      1039.18        41567           96.89
    Maine         7.50       886.32        35453           90.91
    Maryland      8.25      1379.57        55183          128.63
    Missouri      7.65       778.95        31158           78.33
    Montana       8.05       759.03        30361           72.53
    Nevada        8.25       949.68        37987           88.55
    New Mexico    7.50       835.10        33404           85.65
    Ohio          8.10       751.50        30060           71.37
```

```
                Minimum  Monthly Rent   Yearly Income  Hours per Week
    State        Wage    for 2 BR Apt  to Afford Rent  to Afford Rent
    -----       --------  ------------  --------------  --------------
    Arizona       8.05       893.15        35726           85.35
    Arkansas      8.00       689.30        27572           66.28
    Delaware      8.25      1128.45        45138          105.22
    Florida       8.05      1038.18        41527           99.20
    Illinois      8.25      1039.18        41567           96.89
    Maine         7.50       886.32        35453           90.91
    Maryland      8.25      1379.57        55183          128.63
    Missouri      7.65       778.95        31158           78.33
    Montana       8.05       759.03        30361           72.53
    Nevada        8.25       949.68        37987           88.55
    New Mexico    7.50       835.10        33404           85.65
    Ohio          8.10       751.50        30060           71.37
```

testSearchByIncomeMinInvaildValue Author: Jamea Speight	$ java -cp bin AffordingRent test-files/states.csv Menu is displayed Option: **i** Minimum value: min (Ctrl+C to stop execution)	Invalid value	Invalid value
testSearchByIncomeMaxInvaildValue Author: Jamea Speight	$ java -cp bin AffordingRent test-files/states.csv Menu is displayed Option: **i** Minimum Value: 134579 Maximum Value: max (Ctrl+C to stop execution)	Invalid value	Invalid value
testSearchByIncomeEnteredDouble Author: Jamea Speight	$ java -cp bin AffordingRent test-files/states.csv Menu is displayed Option: **i** Minimum Value: 134579 Maximum Value: 75500.98 (Ctrl+C to stop execution)	Invalid value	Invalid value
testSearchByIncome Author: Jamea Speight	$ java -cp bin AffordingRent test-files/states.csv Menu is displayed Option: **i**	<pre> Minimum Monthly Rent Yearly Income Hours per
Week
State   Wage   for 2 BR Apt to Afford Rent to Afford
Rent
-----   -------- ------------ --------------

Alabama 7.25 724.32 28973 76.85</pre>	<pre> Minimum Monthly Rent Yearly Income Hours per Week
State   Wage   for 2 BR Apt to Afford Rent to Afford Rent
-----   -------- ------------ -------------- --------------
Alabama   7.25   724.32   28973   76.85
Arkansas   8.00   689.30   27572   66.28
Idaho   7.25   739.50   29580   78.46
Iowa   7.25   729.57   29183   77.41</pre>

Minimum Value: 20000 Maximum Value: 30000 (Ctrl+C to stop execution)	Arkansas 8.00 689.30 27572 66.28 Idaho 7.25 739.50 29580 78.46 Iowa 7.25 729.57 29183 77.41 Kentucky 7.25 732.97 29319 77.77 Mississippi 7.25 731.70 29268 77.63 Oklahoma 7.25 744.90 29796 79.03 South Dakota 8.55 715.78 28631 64.40 West Virginia 8.75 684.75 27390 60.20	Kentucky 7.25 732.97 29319 77.77 Mississippi 7.25 731.70 29268 77.63 Oklahoma 7.25 744.90 29796 79.03 South Dakota 8.55 715.78 28631 64.40 West Virginia 8.75 684.75 27390 60.20