

# System Test Plan - RobustPaycheckStorage Program

## Requirements

Raleigh's Parks and Recreation Department hires landscapers to care for and maintain the city's parks.

An employee has one of three skill levels; each with a hourly pay rate:

Skill Level - Hourly Pay Rate (\$)

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Level 1 - \$19.00

Level 2 - \$22.50

Level 3 - \$25.75

All employees may opt in for insurance, which results in a deduction from their pay check.

Deduction - Weekly Cost (\$)

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Option 1 - Medical Insurance - \$24.50

Option 2 - Dental Insurance - \$15.30

Option 3 - Vision Insurance - \$5.25

Employees at skill level 3 may also opt to place up to 6% of their gross pay into a retirement account.

The following information is printed about the employee's pay check: 1) employee's name 2) hours worked for a week 3) hourly pay rate 4) regular pay for up to 40 hours worked 5) overtime pay (1.5 pay rate) for hours over 40 worked 6) gross pay (regular + overtime) 7) total deductions 8) net pay (gross pay – total deductions). If the net pay is negative, meaning the deductions exceeds the gross pay, then an error is printed.

## System Test Plan: Arrays

This version of the program has extensive error checking and loops to allow for processing more than one paycheck at a time and storage information.

The following commands compile and run the `RobustPaycheckStorage` program:

```
$ javac -d bin src/RobustPaycheckStorage.java
```

```
$ java -cp bin RobustPaycheckStorage
```

## System Test Plan

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

# System Test Plan: Arrays

Test ID	Description	Expected Results	Actual Results																												
Boundary regular hours, Two insurances, Level 1	Preconditions: RobustPaycheckStorage program started How many paychecks? 1 Employee Name: Bob Baker Employee Level: 1 Hours Worked: 1 Medical Insurance (Y/N): N Dental Insurance (Y/N): Y Vision Insurance (Y/N): Y	<Error Message>																													
Mid-range regular hours, Two insurances, Level 1	Preconditions: RobustPaycheckStorage program started How many paychecks? 1 Employee Name: Carol Cole Employee Level: 1 Hours Worked: 10 Medical Insurance (Y/N): Y Dental Insurance (Y/N): N Vision Insurance (Y/N): Y	<table border="1"> <thead> <tr> <th>Name</th> <th>Hours</th> <th>PayRate</th> <th>Regular</th> <th>OT</th> <th>Gross</th> <th>Deduc.</th> </tr> </thead> <tbody> <tr> <td>Net</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Carol Cole</td> <td>10.00</td> <td>19.00</td> <td>190.00</td> <td>0.00</td> <td>190.00</td> <td>29.75</td> </tr> <tr> <td></td> <td></td> <td></td> <td>160.25</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Hours	PayRate	Regular	OT	Gross	Deduc.	Net							Carol Cole	10.00	19.00	190.00	0.00	190.00	29.75				160.25				
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Mid-range overtime hours, No insurance, Level 1	Preconditions: RobustPaycheckStorage program started How many paychecks? 1 Employee Name: Hilda Henderson Employee Level: 1 Hours Worked: 50 Medical Insurance (Y/N): N Dental Insurance (Y/N): N Vision Insurance (Y/N): N	<table border="1"> <thead> <tr> <th>Name</th> <th>Hours</th> <th>PayRate</th> <th>Regular</th> <th>OT</th> <th>Gross</th> <th>Deduc.</th> </tr> </thead> <tbody> <tr> <td>Net</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Hilda Henderson</td> <td>50.00</td> <td>19.00</td> <td>760.00</td> <td>285.00</td> <td>1045.00</td> <td>0.00</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1045.00</td> <td></td> </tr> </tbody> </table>	Name	Hours	PayRate	Regular	OT	Gross	Deduc.	Net							Hilda Henderson	50.00	19.00	760.00	285.00	1045.00	0.00						1045.00		
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Hilda Henderson	50.00	19.00	760.00	285.00	1045.00	0.00																									
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Boundary regular hours, All insurances, Level 2	Preconditions: RobustPaycheckStorage program started How many paychecks? 1 Employee Name: Alice Anderson Employee Level: 2 Hours Worked: 0 <Stop program>	Enter the number of hours worked. Hours Worked:																													

# System Test Plan: Arrays

Test ID	Description	Expected Results							Actual Results
Boundary regular hours, Two insurances, Level 2	Preconditions: RobustPaycheckStorage program started How many paychecks? 1 Employee Name: Bob Baker Employee Level: 2 Hours Worked: 1 Medical Insurance (Y/N): N Dental Insurance (Y/N): Y Vision Insurance (Y/N): Y	Name Net Bob Baker 1.95	Hours 1.00	PayRate 22.50	Regular 22.50	OT 0.00	Gross 22.50	Deduc. 20.55	
Mid-range regular hours, Two insurances, Level 2	Preconditions: RobustPaycheckStorage program started How many paychecks? 1 Employee Name: Carol Cole Employee Level: 2 Hours Worked: 10 Medical Insurance (Y/N): Y Dental Insurance (Y/N): N Vision Insurance (Y/N): Y	Name Net Carol Cole 195.25	Hours 10.00	PayRate 22.50	Regular 225.00	OT 0.00	Gross 225.00	Deduc. 29.75	
Mid-range regular hours, Two insurances, Level 2	Preconditions: RobustPaycheckStorage program started How many paychecks? 1 Employee Name: Danny D David Employee Level: 2 Hours Worked: 20 Medical Insurance (Y/N): Y Dental Insurance (Y/N): Y Vision Insurance (Y/N): N	Name Net Danny D David 410.20	Hours 20.00	PayRate 22.50	Regular 450.00	OT 0.00	Gross 450.00	Deduc. 39.80	
Boundary regular hours, One insurance, Level 2	Preconditions: RobustPaycheckStorage program started How many paychecks? 1 Employee Name: Ellen Edwards Employee Level: 2 Hours Worked: 39 Medical Insurance (Y/N): N Dental Insurance (Y/N): N Vision Insurance (Y/N): Y	Name Net Ellen Edwards 872.25	Hours 39.00	PayRate 22.50	Regular 877.50	OT 0.00	Gross 877.50	Deduc. 5.25	

# System Test Plan: Arrays

Test ID	Description	Expected Results	Actual Results																												
Boundary regular hours, One insurance, Level 2	Preconditions: RobustPaycheckStorage program started How many paychecks? 1 Employee Name: Frank Frankenstein Employee Level: 2 Hours Worked: 40 Medical Insurance (Y/N): Y Dental Insurance (Y/N): N Vision Insurance (Y/N): N	<table border="1"> <thead> <tr> <th>Name</th> <th>Hours</th> <th>PayRate</th> <th>Regular</th> <th>OT</th> <th>Gross</th> <th>Deduc.</th> </tr> </thead> <tbody> <tr> <td>Net</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Frank Frankenstein</td> <td>40.00</td> <td>22.50</td> <td>900.00</td> <td>0.00</td> <td>900.00</td> <td>24.50</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>875.50</td> </tr> </tbody> </table>	Name	Hours	PayRate	Regular	OT	Gross	Deduc.	Net							Frank Frankenstein	40.00	22.50	900.00	0.00	900.00	24.50							875.50	
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Mid-range overtime hours, No insurance, Level 2	Preconditions: RobustPaycheckStorage program started How many paychecks? 1 Employee Name: Hilda Henderson Employee Level: 2 Hours Worked: 50 Medical Insurance (Y/N): N Dental Insurance (Y/N): N Vision Insurance (Y/N): N	<table border="1"> <thead> <tr> <th>Name</th> <th>Hours</th> <th>PayRate</th> <th>Regular</th> <th>OT</th> <th>Gross</th> <th>Deduc.</th> </tr> </thead> <tbody> <tr> <td>Net</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Hilda Henderson</td> <td>50.00</td> <td>22.50</td> <td>900.00</td> <td>337.50</td> <td>1237.50</td> <td>0.00</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1237.50</td> </tr> </tbody> </table>	Name	Hours	PayRate	Regular	OT	Gross	Deduc.	Net							Hilda Henderson	50.00	22.50	900.00	337.50	1237.50	0.00							1237.50	
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Boundary regular hours, All insurances, Level 3, Boundary retirement	Preconditions: RobustPaycheckStorage program started How many paychecks? 1 Employee Name: Alice Anderson Employee Level: 3 Hours Worked: 0 <Stop program>	Enter the number of hours worked. Hours Worked:																													

# System Test Plan: Arrays

Test ID	Description	Expected Results							Actual Results
Boundary regular hours, Two insurances, Level 3, Boundary retirement	Preconditions: RobustPaycheckStorage program started How many paychecks? 1 Employee Name: Bob Baker Employee Level: 3 Hours Worked: 1 Medical Insurance (Y/N): N Dental Insurance (Y/N): Y Vision Insurance (Y/N): Y Retirement Percentage (0-6): 1	Name Net Bob Baker 4.95	Hours 1.00	PayRate 25.75	Regular 25.75	OT 0.00	Gross 25.75	Deduc. 20.80	
Mid-range regular hours, Two insurances, Level 3, Boundary retirement	Preconditions: RobustPaycheckStorage program started How many paychecks? 1 Employee Name: Carol Cole Employee Level: 3 Hours Worked: 10 Medical Insurance (Y/N): Y Dental Insurance (Y/N): N Vision Insurance (Y/N): Y Retirement Percentage (0-6): 1	Name Net Carol Cole 225.18	Hours 10.00	PayRate 25.75	Regular 257.50	OT 0.00	Gross 257.50	Deduc. 32.32	
Mid-range regular hours, Two insurances, Level 3, Mid-range retirement	Preconditions: RobustPaycheckStorage program started How many paychecks? 1 Employee Name: Danny D David Employee Level: 3 Hours Worked: 20 Medical Insurance (Y/N): Y Dental Insurance (Y/N): Y Vision Insurance (Y/N): N Retirement Percentage (0-6): 4	Name Net Danny D David 454.60	Hours 20.00	PayRate 25.75	Regular 515.00	OT 0.00	Gross 515.00	Deduc. 60.40	
Boundary regular hours, One insurance, Level 3, Boundary retirement	Preconditions: RobustPaycheckStorage program started How many paychecks? 1 Employee Name: Ellen Edwards Employee Level: 3 Hours Worked: 39 Medical Insurance (Y/N): N Dental Insurance (Y/N): N Vision Insurance (Y/N): Y Retirement Percentage (0-6): 5	Name Net Ellen Edwards 948.79	Hours 39.00	PayRate 25.75	Regular 1004.25	OT 0.00	Gross 1004.25	Deduc. 55.46	

# System Test Plan: Arrays

Test ID	Description	Expected Results	Actual Results																												
Boundary regular hours, One insurance, Level 3, Boundary retirement	Preconditions: RobustPaycheckStorage program started How many paychecks? 1 Employee Name: Frank Frankenstein Employee Level: 3 Hours Worked: 40 Medical Insurance (Y/N): Y Dental Insurance (Y/N): N Vision Insurance (Y/N): N Retirement Percentage (0-6): 6	<table border="1"> <thead> <tr> <th>Name</th> <th>Hours</th> <th>PayRate</th> <th>Regular</th> <th>OT</th> <th>Gross</th> <th>Deduc.</th> </tr> </thead> <tbody> <tr> <td>Net</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Frank Frankenstein</td> <td>40.00</td> <td>25.75</td> <td>1030.00</td> <td>0.00</td> <td>1030.00</td> <td>86.30</td> </tr> <tr> <td>943.70</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Hours	PayRate	Regular	OT	Gross	Deduc.	Net							Frank Frankenstein	40.00	25.75	1030.00	0.00	1030.00	86.30	943.70							
Name	Hours	PayRate	Regular	OT	Gross	Deduc.																									
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Frank Frankenstein	40.00	25.75	1030.00	0.00	1030.00	86.30																									
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Boundary overtime hours, One insurance, Level 3, Mid-range retirement	Preconditions: RobustPaycheckStorage program started How many paychecks? 1 Employee Name: George George Employee Level: 3 Hours Worked: 41 Medical Insurance (Y/N): N Dental Insurance (Y/N): Y Vision Insurance (Y/N): N Retirement Percentage (0-6): 2	<table border="1"> <thead> <tr> <th>Name</th> <th>Hours</th> <th>PayRate</th> <th>Regular</th> <th>OT</th> <th>Gross</th> <th>Deduc.</th> </tr> </thead> <tbody> <tr> <td>Net</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>George George</td> <td>41.00</td> <td>25.75</td> <td>1030.00</td> <td>38.62</td> <td>1068.62</td> <td>36.67</td> </tr> <tr> <td>1031.95</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Hours	PayRate	Regular	OT	Gross	Deduc.	Net							George George	41.00	25.75	1030.00	38.62	1068.62	36.67	1031.95							
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Mid-range overtime hours, No insurance, Level 3, Mid-range retirement	Preconditions: RobustPaycheckStorage program started How many paychecks? 1 Employee Name: Hilda Henderson Employee Level: 3 Hours Worked: 50 Medical Insurance (Y/N): N Dental Insurance (Y/N): N Vision Insurance (Y/N): N Retirement Percentage (0-6): 3	<table border="1"> <thead> <tr> <th>Name</th> <th>Hours</th> <th>PayRate</th> <th>Regular</th> <th>OT</th> <th>Gross</th> <th>Deduc.</th> </tr> </thead> <tbody> <tr> <td>Net</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Hilda Henderson</td> <td>50.00</td> <td>25.75</td> <td>1030.00</td> <td>386.20</td> <td>1416.20</td> <td>42.48</td> </tr> <tr> <td>1373.72</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Hours	PayRate	Regular	OT	Gross	Deduc.	Net							Hilda Henderson	50.00	25.75	1030.00	386.20	1416.20	42.48	1373.72							
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Invalid Level 0	Preconditions: RobustPaycheckStorage program started How many paychecks? 1 Employee Name: Alice Anderson Employee Level: 0 <Stop program>	Enter a valid level: 1, 2, or 3. Employee Level:																													

# System Test Plan: Arrays

Test ID	Description	Expected Results	Actual Results																																										
Invalid Level 4	Preconditions: RobustPaycheckStorage program started How many paychecks? 1 Employee Name: Alice Anderson Employee Level: 4 <Stop program>	Enter a valid level: 1, 2, or 3. Employee Level:																																											
No new paycheck	Preconditions: RobustPaycheckStorage program started How many paychecks? 0	<Program ends without output>																																											
Multiple new paychecks	Preconditions: RobustPaycheckStorage program started How many paychecks? 2 Employee Name: George George Employee Level: 3 Hours Worked: 41 Medical Insurance (Y/N): N Dental Insurance (Y/N): Y Vision Insurance (Y/N): N Retirement Percentage (0-6): 2 Employee Name: Hilda Henderson Employee Level: 3 Hours Worked: 50 Medical Insurance (Y/N): N Dental Insurance (Y/N): N Vision Insurance (Y/N): N Retirement Percentage (0-6): 3	<table border="1"> <thead> <tr> <th>Name</th> <th>Hours</th> <th>PayRate</th> <th>Regular</th> <th>OT</th> <th>Gross</th> <th>Deduc.</th> </tr> </thead> <tbody> <tr> <td>Net</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>George George</td> <td>41.00</td> <td>25.75</td> <td>1030.00</td> <td>38.62</td> <td>1068.62</td> <td>36.67</td> </tr> <tr> <td>1031.95</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Hilda Henderson</td> <td>50.00</td> <td>25.75</td> <td>1030.00</td> <td>386.20</td> <td>1416.20</td> <td>42.48</td> </tr> <tr> <td>1373.72</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Hours	PayRate	Regular	OT	Gross	Deduc.	Net							George George	41.00	25.75	1030.00	38.62	1068.62	36.67	1031.95							Hilda Henderson	50.00	25.75	1030.00	386.20	1416.20	42.48	1373.72							
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Invalid input for insurance	Preconditions: RobustPaycheckStorage program started How many paychecks? 1 Employee Name: Frank Frankenstein Employee Level: 3 Hours Worked: 40 Medical Insurance (Y/N): Q <Stop program>	Enter a "Y" or "N" Medical Insurance (Y/N):																																											

System Test Plan: Arrays

Test ID	Description	Expected Results	Actual Results
Mid-range regular hours, Two insurances, Level 3, Invalid retirement (-1)	Preconditions: RobustPaycheckStorage program started How many paychecks? 1 Employee Name: Danny D David Employee Level: 3 Hours Worked: 20 Medical Insurance (Y/N): Y Dental Insurance (Y/N): Y Vision Insurance (Y/N): N Retirement Percentage (0-6): -1 <Stop program>	Enter a retirement percentage (0-6). Retirement Percentage (0-6):	
Mid-range regular hours, Two insurances, Level 3, Invalid retirement (7)	Preconditions: RobustPaycheckStorage program started How many paychecks? 1 Employee Name: Danny D David Employee Level: 3 Hours Worked: 20 Medical Insurance (Y/N): Y Dental Insurance (Y/N): Y Vision Insurance (Y/N): N Retirement Percentage (0-6): 7 <Stop program>	Enter a retirement percentage (0-6). Retirement Percentage (0-6):	