

# System Test Plan: PatientRecords program - MAX FARTHING

**Introduction:** The text in bold in the **Description** column represents the test inputs.

**Test Files:** (List each test file below. )

- act\_UpdatedPatient.txt
- nonintegerHeight.txt
- existingfile.txt
- nopatients.txt
- exp\_updatedNewpatients.txt
- output.txt
- extraValueOnLine.txt
- patients.txt
- invalidid.txt
- twoLinesWithId1002.txt
- missingValueOnLine.txt
- updatedNewpatients.txt
- newpatients.txt

Test ID	Description	Expected Results	Actual Results
testTooFewArgs  Author: Dr. Balik	<b>\$ java -cp bin PatientRecords</b>	Usage: java -cp bin PatientRecords infile outfile max_patients  Program quits.	Usage: java -cp bin PatientRecords infile outfile max_patients  Program quits.
testTooManyArgs  Author: Dr. Balik	<b>\$ java -cp bin PatientRecords test-files/patients.txt test-files/updatedPatients.txt 25 10</b>	Usage: java -cp bin PatientRecords infile outfile max_patients  Program quits.	Usage: java -cp bin PatientRecords infile outfile max_patients  Program quits.
testNonintegerMax  Author: Dr. Balik	<b>\$ java -cp bin PatientRecords test-files/patients.txt test-files/updatedPatients.txt twenty</b>	Usage: java -cp bin PatientRecords infile outfile max_patients  Program quits.	Usage: java -cp bin PatientRecords infile outfile max_patients  Program quits.
testNegativeMax	<b>\$ java -cp bin PatientRecords test-files/patients.txt test-files/updatedPatients.txt -15</b>	Usage: java -cp bin PatientRecords infile outfile max_patients	Usage: java -cp bin PatientRecords infile outfile max_patients

Author: Dr. Balik		Program quits.	Program quits.
testInputFileAccess  Author: Dr. Balik	<b>\$ java -cp bin PatientRecords test-files/notafile.txt test-files/output.txt 25</b>	Unable to access input file: test-files/notafile.txt  Program quits.	Unable to access input file: test-files/notafile.txt  Program quits.
testOutputFileCreation  Author: Dr. Balik	<b>\$ java -cp bin PatientRecords test-files/patients.txt notadirectory/updatedPatients.txt 150</b>	Cannot create output file  Program quits.	Cannot create output file  Program quits.
Test ID	Description	Expected Results	Actual Results
testOptionsMenu  Author: Dr. Balik	Delete the test-files/updatedPatients.txt, if it exists  <b>\$ java -cp bin PatientRecords test-files/patients.txt test-files/updatedPatients.txt 5</b>	Patient Records Program – Please choose an option.  L – List patients U – Update patient A – Add patient Q – Quit  Option:	Patient Records Program – Please choose an option.  L – List patients U – Update patient A – Add patient Q – Quit  Option:
testQuit  Author: Dr. Balik	Delete the test-files/updatedPatients.txt, if it exists  <b>\$ java -cp bin PatientRecords test-files/patients.txt test-files/updatedPatients.txt 5</b>  Menu is displayed  Option: <b>q</b>	Program quits.	Program quits.

testInvalidOption	Delete the test-files/updatedPatients.txt, if it exists	Invalid option							Invalid option																																																																												
Author: Dr. Balik	<pre>\$ java -cp bin PatientRecords test-files/patients.txt test-files/updatedPatients.txt 5</pre> Menu is displayed  Option: <b>quit</b>  (Ctrl+C to stop execution)	Menu is redisplayed							Menu is redisplayed																																																																												
testList	Delete the test-files/updatedPatients.txt, if it exists	<table><tr><th>ID</th><th>NAME</th><th>BIRTHDATE</th><th>HT</th><th>WT</th><th>T</th><th>BP</th></tr><tr><td>1001</td><td>Mary Beth Jones</td><td>04/21/1972</td><td>62</td><td>135</td><td>102.40</td><td>120/90</td></tr><tr><td>1002</td><td>Thomas A. Berry</td><td>06/19/1967</td><td>73</td><td>198</td><td>98.60</td><td>130/80</td></tr><tr><td>1003</td><td>Tricia Patel</td><td>11/18/1956</td><td>64</td><td>105</td><td>100.20</td><td>120/80</td></tr></table>							ID	NAME	BIRTHDATE	HT	WT	T	BP	1001	Mary Beth Jones	04/21/1972	62	135	102.40	120/90	1002	Thomas A. Berry	06/19/1967	73	198	98.60	130/80	1003	Tricia Patel	11/18/1956	64	105	100.20	120/80	<table><tr><th>ID</th><th>NAME</th><th>BIRTHDATE</th><th>HT</th><th>WT</th><th>T</th><th>BP</th></tr><tr><td>1001</td><td>Mary Beth Jones</td><td>04/21/1972</td><td>62</td><td>135</td><td>102.40</td><td>120/90</td></tr><tr><td>1002</td><td>Thomas A. Berry</td><td>06/19/1967</td><td>73</td><td>198</td><td>98.60</td><td>130/80</td></tr><tr><td>1003</td><td>Tricia Patel</td><td>11/18/1956</td><td>64</td><td>105</td><td>100.20</td><td>120/80</td></tr></table>							ID	NAME	BIRTHDATE	HT	WT	T	BP	1001	Mary Beth Jones	04/21/1972	62	135	102.40	120/90	1002	Thomas A. Berry	06/19/1967	73	198	98.60	130/80	1003	Tricia Patel	11/18/1956	64	105	100.20	120/80														
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Author: Dr. Balik	<pre>\$ java -cp bin PatientRecords test-files/patients.txt test-files/updatedPatients.txt 5</pre> Menu is displayed  Option: <b>L</b>	Menu is displayed.							Menu is displayed.																																																																												
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testMultipleActions	Delete the test-files/updatedPatients.txt, if it exists	<table><tr><th>ID</th><th>NAME</th><th>BIRTHDATE</th><th>HT</th><th>WT</th><th>T</th><th>BP</th></tr><tr><td>1001</td><td>Mary Beth Jones</td><td>04/21/1972</td><td>62</td><td>135</td><td>102.40</td><td>120/90</td></tr><tr><td>1002</td><td>Thomas A. Berry</td><td>06/19/1967</td><td>73</td><td>198</td><td>98.60</td><td>130/80</td></tr><tr><td>1003</td><td>Tricia Patel</td><td>11/18/1956</td><td>64</td><td>105</td><td>100.20</td><td>120/80</td></tr><tr><td>1004</td><td>Mary Jones</td><td>03/04/1999</td><td>67</td><td>120</td><td>99.20</td><td>120/80</td></tr></table>							ID	NAME	BIRTHDATE	HT	WT	T	BP	1001	Mary Beth Jones	04/21/1972	62	135	102.40	120/90	1002	Thomas A. Berry	06/19/1967	73	198	98.60	130/80	1003	Tricia Patel	11/18/1956	64	105	100.20	120/80	1004	Mary Jones	03/04/1999	67	120	99.20	120/80	<table><tr><th>ID</th><th>NAME</th><th>BIRTHDATE</th><th>HT</th><th>WT</th><th>T</th><th>BP</th></tr><tr><td>1001</td><td>Mary Beth Jones</td><td>04/21/1972</td><td>62</td><td>135</td><td>102.40</td><td>120/90</td></tr><tr><td>1002</td><td>Thomas A. Berry</td><td>06/19/1967</td><td>73</td><td>198</td><td>98.60</td><td>130/80</td></tr><tr><td>1003</td><td>Tricia Patel</td><td>11/18/1956</td><td>64</td><td>105</td><td>100.20</td><td>120/80</td></tr><tr><td>1004</td><td>Mary Jones</td><td>03/04/1999</td><td>67</td><td>120</td><td>99.20</td><td>120/80</td></tr></table>							ID	NAME	BIRTHDATE	HT	WT	T	BP	1001	Mary Beth Jones	04/21/1972	62	135	102.40	120/90	1002	Thomas A. Berry	06/19/1967	73	198	98.60	130/80	1003	Tricia Patel	11/18/1956	64	105	100.20	120/80	1004	Mary Jones	03/04/1999	67	120	99.20	120/80
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Author: Dr. Balik	<pre>\$ java -cp bin PatientRecords test-files/patients.txt test-files/updatedPatients.txt 5</pre> Patient Records Program - Please choose an option.  L - List patients U - Update patient A - Add patient Q - Quit  Option: <b>A</b> Name: <b>Mary Jones</b> Birthdate: <b>03/04/1999</b> Height: <b>67</b>	Patient Records Program - Please choose an option.  L - List patients U - Update patient A - Add patient Q - Quit  Option:							Patient Records Program - Please choose an option.  L - List patients U - Update patient A - Add patient Q - Quit  Option:																																																																												

	<p>Weight: <b>120</b> Temperature: <b>99.2</b> Blood pressure: <b>120/80</b></p> <p>Successful addition</p> <p>Patient Records Program - Please choose an option.</p> <p>L - List patients U - Update patient A - Add patient Q - Quit</p> <p>Option: <b>B</b> Invalid option</p> <p>Patient Records Program - Please choose an option.</p> <p>L - List patients U - Update patient A - Add patient Q - Quit</p> <p>Option: <b>L</b></p>		
Test ID	Description	Expected Results	Actual Results
testNoOverwrite	Check timestamp for test-files/existingfile.txt	Program quits.	Program quits.
Author: Dr. Balik	<p>\$ <b>java -cp bin PatientRecords test-files/patients.txt test-files/existingfile.txt 5</b></p> <p>test-files/existingfile.txt exists - OK to overwrite (y,n)?: <b>no</b></p>	Timestamp for test-files/existingfile.txt has not changed.	Timestamp for test-files/existingfile.txt has not changed.
testOverwrite	Check timestamp for test-files/existingfile.txt	Program quits.	Program quits.
Author: Dr. Balik	<p>\$ <b>java -cp bin PatientRecords test-files/patients.txt test-files/existingfile.txt 5</b></p> <p>test-files/existingfile.txt exists - OK to overwrite (y,n)?: <b>yes</b></p>	Timestamp for test-files/existingfile.txt has changed.	Timestamp for test-files/existingfile.txt has changed.

	<div>Menu is displayed</div> <div>Option: <b>q</b></div>		
<div>testListWithEmptyInputFile</div> <div>Author: Dr. Balik</div>	<div>Delete test-files/updatedNopatients.txt, if it exists</div> <div>\$ <b>java -cp bin PatientRecords test-files/nopatients.txt updatedNopatients.txt 5</b></div> <div>Patient Records Program - Please choose an option.</div> <div>L - List patients U - Update patient A - Add patient Q - Quit</div> <div>Option: <b>l</b></div>	<div>IDNAMEBIRTHDATEHTWTTBPP</div> <div>Menu is displayed.</div>	<div>IDNAMEBIRTHDATEHTWTTBPP</div> <div>Menu is displayed.</div>
Test ID	Description	Expected Results	Actual Results
<div>testAddAndListWithEmptyInputFile</div> <div>Author: Dr. Balik</div>	<div>Delete test-files/updatedNopatients.txt, if it exists</div> <div>\$ <b>java -cp bin PatientRecords test-files/nopatients.txt test-files/updatedNopatients.txt 5</b></div> <div>Menu is displayed</div> <div>Option: <b>A</b> Name: <b>John Smith</b> Birthdate: <b>02/20/1998</b> Height: <b>76</b> Weight: <b>200</b> Temperature: <b>100.4</b> Blood pressure: <b>140/90</b></div>	<div>IDNAMEBIRTHDATEHTWTTBPP</div> <div>1001John Smith02/20/199876200100.40140/90</div>	<div>IDNAMEBIRTHDATEHTWTTBPP</div> <div>1001John Smith02/20/199876200100.40140/90</div>

	<div>Successful addition</div> <div>Patient Records Program - Please choose an option.</div> <div>L - List patients</div> <div>U - Update patient</div> <div>A - Add patient</div> <div>Q - Quit</div> <div>Option: 1</div>		
Test ID	Description	Expected Results	
<div>testUpdatePatientInvalidId</div> <div>Author: Max Farthing</div>	<div>java -cp bin PatientRecords test-files/patients.txt output.txt 4</div> <div>Patient Records Program - Please choose an option.</div> <div>L - List patients</div> <div>U - Update patient</div> <div>A - Add patient</div> <div>Q - Quit</div> <div>Option: u</div> <div>Patient ID: 1004</div>	Invalid id	Invalid id

<div>testUpdatePatientNonintegerWeight</div> <div>Author: Max Farthing</div>	<div>Delete test-files/output.txt, if it exists</div> <div>java -cp bin PatientRecords test-files/patients.txt output.txt 4</div> <div>Patient Records Program - Please choose an option.</div> <div>L - List patients U - Update patient A - Add patient Q - Quit</div> <div>Option: u</div> <div>Patient ID: 1002 Height: 76 Weight: 150.0</div>	Invalid value	Invalid value
<div>testAddPatientNondoubleTemperature</div> <div>Author: Max Farthing</div>	<div>Delete test-files/output.txt, if it exists</div> <div>java -cp bin PatientRecords test-files/patients.txt output.txt 4</div> <div>Patient Records Program - Please choose an option.</div> <div>L - List patients U - Update patient A - Add patient Q - Quit</div> <div>Option: a</div> <div>Name: John Smith Birthdate: 1/22/2000 Height: 67 Weight: 150 Temperature: ninety</div>	Invalid value	Invalid value

<div>testAddPatientNoRoomForNewPatient</div> <div>Author: Max Farthing</div>	<div>Delete test-files/output.txt, if it exists</div> <div>java -cp bin PatientRecords test-files/patients.txt output.txt 3</div> <div>Patient Records Program - Please choose an option.</div> <div>L - List patients U - Update patient A - Add patient Q - Quit</div> <div>Option: a</div>	<div>Cannot add new patient</div>	<div>Cannot add new patient</div>
<div>testSuccessfulUpdateAndAdd</div> <div>Author: Max Farthing</div>	<div>java -cp bin PatientRecords test-files/patients.txt updatedNewpatients.txt 3</div> <div>Patient Records Program - Please choose an option.</div> <div>L - List patients U - Update patient A - Add patient Q - Quit</div> <div>Option: q</div> <div>Program Exits</div> <div>Diff test-files/updatedNewpatients.txt test-files/exp_updatedNewpatients.txt</div>	<div>updatedNewpatients.txt is the same as exp_updatedNewpatients.txt</div>	<div>updatedNewpatients.txt is the same as exp_updatedNewpatients.txt</div>



Test ID	Description	Expected Results	Actual Results
testInvalidInputMissingValueOnLine  Author:	Delete test-files/output.txt, if it exists  \$ java -cp bin PatientRecords test-files/missingValueOnLine.txt test-files/output.txt 5	Invalid input file	Invalid input file
testInvalidInputExtraValueOnLine  Author:	Delete test-files/output.txt, if it exists  \$ java -cp bin PatientRecords test-files/extraValueOnLine.txt test-files/output.txt 5	Invalid input file	Invalid input file
testInvalidInputNonintegerHeight  Author: Max Farthing	Delete test-files/output.txt, if it exists  \$ java -cp bin PatientRecords test-files/nonintegerHeight.txt test-files/output.txt 5	Invalid input file	Invalid input file
testInvalidInputInvalidId  Author: Max Farthing	Delete test-files/output.txt, if it exists  \$ java -cp bin PatientRecords test-files/invalidId.txt test-files/output.txt 5	Invalid input file	Invalid input file
testInvalidInputTwoLinesWithId1002  Author: Max Farthing	Delete test-files/output.txt, if it exists  \$ java -cp bin PatientRecords test-files/twoLinesWithId1002.txt test-files/output.txt 5	Invalid input file	Invalid input file