

# System Test Plan for PatternMaker

The text in bold in the **Description** column represents the test inputs to the program. You can stop program execution by pressing Ctrl+C. You will need to fill in your Actual Results for the given tests and write the six additional tests, including actual results (shaded areas). Be sure to add your name as the author for the tests you write.

Test ID	Description	Expected Results	Actual Results
testMenu  Author: Dr. Balik	<i>Preconditions:</i> PatternMaker program started  <b>&lt;ctrl + c to exit&gt;</b>	Pattern Maker - Please choose an option.  S - Square D - Diamond T - Triangle Q - Quit  Option:	Pattern Maker - Please choose an option.  S - Square D - Diamond T - Triangle Q - Quit  Option:
testInvalidOptionWithMoreThanOneCharacter  Author: Dr. Balik	<i>Preconditions:</i> PatternMaker program started  Pattern Maker - Please choose an option.  S - Square D - Diamond T - Triangle Q - Quit  Option: <b>Square</b>  <b>&lt;ctrl + c to exit&gt;</b>	Invalid option  Menu is redisplayed	Invalid option  Menu is redisplayed
testOneSquare  Author: Dr. Balik	<i>Preconditions:</i> PatternMaker program started  Pattern Maker - Please choose an option.  S - Square D - Diamond T - Triangle Q - Quit  Option: <b>s</b> Rows: <b>1</b> Columns: <b>1</b>  <b>&lt;ctrl + c to exit&gt;</b>	<pre>  _       Menu is redisplayed</pre>	<pre>  _       Menu is redisplayed</pre>

Test ID	Description	Expected Results	Actual Results
testTwoByThreeSquares  Author: Dr. Balik	<i>Preconditions:</i> PatternMaker program started  Pattern Maker - Please choose an option.  S - Square D - Diamond T - Triangle Q - Quit  Option: <b>S</b> Rows: <b>2</b> Columns: <b>3</b>  <b>&lt;ctrl + c to exit&gt;</b>	<pre>- - -  _ _   _ _           Menu is redisplayed</pre>	<pre>- - -  _ _   _ _           Menu is redisplayed</pre>
testOneDiamond  Author: Jayani Sivakumar	<i>Preconditions:</i> PatternMaker program started  Pattern Maker - Please choose an option.  S - Square D - Diamond T - Triangle Q - Quit  Option: <b>D</b> Rows: <b>1</b>  <b>&lt;ctrl + c to exit&gt;</b>	<pre>^ v          Menu is redisplayed</pre>	<pre>^ v          Menu is redisplayed</pre>
testFiveTriangles  Author: Jayani Sivakumar	<i>Preconditions:</i> PatternMaker program started  Pattern Maker - Please choose an option.  S - Square D - Diamond T - Triangle Q - Quit  Option: <b>t</b> Rows: <b>5</b>  <b>&lt;ctrl + c to exit&gt;</b>	<pre>^ /_\ /_\ /_\ /_\       Menu is redisplayed</pre>	<pre>^ /_\ /_\ /_\ /_\       Menu is redisplayed</pre>

<div>testFivebyTwoSquares</div> <div>Author: Jayani Sivakumar</div>	<div>Preconditions: PatternMaker program started</div> <div>Pattern Maker - Please choose an option.</div> <div>S - Square D - Diamond T - Triangle Q - Quit</div> <div>Option: <b>s</b> Rows: <b>5</b> Columns: <b>2</b></div> <div>&lt;ctrl + c to exit&gt;</div>	<div>--  _   _   _   _   _ </div> <div>Menu is redisplayed</div>	<div>--  _   _   _   _   _ </div> <div>Menu is redisplayed</div>
<div>testTenTriangles</div> <div>Author: Jayani Sivakumar</div>	<div>Preconditions: PatternMaker program started</div> <div>Pattern Maker - Please choose an option.</div> <div>S - Square D - Diamond T - Triangle Q - Quit</div> <div>Option: <b>T</b> Rows: <b>10</b></div> <div>&lt;ctrl + c to exit&gt;</div>	<div>^ ^</div> <div>Menu is redisplayed</div>	<div>^ ^</div> <div>Menu is redisplayed</div>
<div>testSixDiamonds</div> <div>Author: Jayani Sivakumar</div>	<div>Preconditions: PatternMaker program started</div> <div>Pattern Maker - Please choose an option.</div> <div>S - Square D - Diamond T - Triangle Q - Quit</div> <div>Option: <b>d</b> Rows: <b>6</b></div> <div>&lt;ctrl + c to exit&gt;</div>	<div>^ ^^ ^^^ ^^^^ ^^^^^ ^^^^^^ ^^^^^^^</div> <div>Menu is redisplayed.</div>	<div>^ ^^ ^^^ ^^^^ ^^^^^ ^^^^^^ ^^^^^^^</div> <div>Menu is redisplayed.</div>
<div>testInvalidOptionwithRow s</div> <div>Author: Jayani Sivakumar</div>	<div>Preconditions: PatternMaker program started</div> <div>Pattern Maker - Please choose an option.</div>	<div>Invalid rows.</div>	<div>Invalid rows.</div>

	<div>S - Square D - Diamond T - Triangle Q - Quit  Option: <b>t</b> Rows: <b>0</b>  &lt;ctrl + c to exit&gt;</div>	Menu is redisplayed	Menu is redisplayed
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