

## Wordsearch Test Plan

Test	Purpose	Input	Expected Output
1	No file name entered	(none)	<i>Error message:</i> no file name obtained from user
2	File not found	<i>Enter file name:</i> missingFile	<i>Error message:</i> File missingFile could not be opened
3	Boundary condition: row dimension less than minimum	Puzzle: 0 2	<i>Error message:</i> Rows must be between 1 and 20, inclusive, but is 0
4	Boundary condition: row dimension greater than maximum	Puzzle: 21 2	<i>Error message:</i> Rows must be between 1 and 20, inclusive, but is 21
5	Boundary condition: column dimension less than minimum	Puzzle: 2 0	<i>Error message:</i> Columns must be between 1 and 20, inclusive, but is 0
6	Boundary condition: row dimension greater than maximum	Puzzle: 2 21	<i>Error message:</i> Columns must be between 1 and 20, inclusive, but is 21
7	Bad data: # of rows	Puzzle: A 2	<i>Error message:</i> Puzzle file must contain the numberOfRows and numberOfColumns, followed by numberOfRows strings and numberOfColumns characters, e.g. 2 3 abc def
8	Bad data: # of columns	Puzzle: 2 A	<i>Error message:</i> Puzzle file must contain the numberOfRows and numberOfColumns, followed by numberOfRows strings and numberOfColumns characters, e.g. 2 3 abc def
9	Bad data: not enough rows	Puzzle: 3 3 abc def	<i>Error message:</i> Puzzle file must contain the numberOfRows and numberOfColumns, followed by numberOfRows strings and numberOfColumns characters, e.g. 2 3 abc def
10	Bad data: not enough columns	Puzzle: 3 3 ab de gh	<i>Error message:</i> Puzzle file must contain the numberOfRows and numberOfColumns, followed by numberOfRows strings and numberOfColumns characters, e.g. 2 3 abc def



			<p>the at 11,17 E  the at 12,1 E  the at 12,17 E  the at 13,1 E  the at 13,17 E  the at 14,1 E  the at 14,17 E  the at 15,1 E  the at 15,17 E  the at 16,1 E  the at 16,17 E  the at 17,1 E  the at 17,17 E  the at 18,1 E  the at 18,17 E  the at 19,1 E  the at 19,17 E  the at 20,1 E  the at 20,17 E</p>
13	<p>Minimum rows,  maximum columns;  word ends at edge</p>	<p>Puzzle:  1 20  thecowjumpedoverthem</p> <p>Word:  them</p>	<p>thecowjumpedoverthem</p> <p>them at 1,18 E</p>
14	<p>Maximum rows,  minimum columns;  word starts at edge</p>	<p>Puzzle:  20 1  t  h  e  c  o  w  j  u  m  p  e  d  o  v  e  r  t  h  e  m</p> <p>Word:  cow</p>	<p>cow at 4,1 S</p>

15	Words start at corners	Puzzle: 5 4 catc aaaa tttt aaaa catc  Word: cat	cat at 1,1 E cat at 1,1 SE cat at 1,1 S cat at 1,4 S cat at 1,4 SW cat at 5,1 N cat at 5,1 NE cat at 5,1 E cat at 5,4 N cat at 5,4 NW
16	Words end at corners, edges	Puzzle: 5 4 tcat aaaa ccat aaaa tcat  Word: cat	cat at 1,2 E cat at 1,2 SE cat at 3,1 N cat at 3,1 S cat at 3,2 NE cat at 3,2 E cat at 5,2 NE cat at 5,2 E
17	Searching for longer word stops at edge	Puzzle: 5 4 catc aaaa tttt aaaa catc  Word: catcan	catcan not found