

# Tic Tac Toe Testing

Test Number	Test Description	Test type	Data inputted	Expected outcome	Actual outcome
1	Entering a value equal to an empty space on the grid	valid	3	A counter is placed on the correct space in the grid	The game acted normally and accepted the input
2	Entering a value that corresponds to an already taken spot	Invalid	2	The program asks the user to enter a different value.	The user is asked to enter a different value
3	Entering a value that will win the game	boundary	9	The game will finish and a winning message will be displayed with the player who won.	The game ends and the winner is displayed
4	Entering a string instead of a number	erroneous	banana	Game will ask the user to try another value that is an integer.	The game asks the user to enter a valid character
5	Entering a value in the corner of the grid	boundary	7	Game will accept input as usual	The game accepts the value as normal
6	Entering a number above 9 that does not correspond to a spot	invalid	334	Game will ask user to enter a valid input	The game asks the user to try again.
7	Entering a value that will win via a diagonal.	Boundary	3	The game will end and the winner will get a win message	The game ends as usual
8	Entering a	invalid	3.4	The game will ask	The game

	decimal value			the user to enter a correct value	will ask the user to enter a correct value.
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```

 1 | 2 | 3
---|---|---
 4 | 5 | 6
---|---|---
 7 | 8 | 9

```

Enter a number from 1-9: 3

```

 1 | 2 | X
---|---|---
 4 | 5 | 6
---|---|---
 7 | 8 | 9

```

Test 1) The game accepted the normal value as expected.

```

 1 | 2 | 3
---|---|---
 4 | 5 | 6
---|---|---
 7 | 8 | 9

```

Enter a number from 1-9: 2

```

 1 | X | 3
---|---|---
 4 | 5 | 6
---|---|---
 7 | 8 | 9

```

Enter a number from 1-9: 2  
Already taken

Test 2) the game told me that they spot was taken and that I should try again.

```

Enter a number from 1-9: 9
  X | X | O
---|---|---
 4 | X | O
---|---|---
 7 | 8 | O

```

O WINS!

Test 3) The game accepts the input and the game stops looping. The winner is then printed at the bottom.

Test 4) The game did not accept the input and asked for

the user to enter a valid space. The game only accepts the units 1-9.

```
Enter a number from 1-9: 7
```

```
 1 | 2 | 3
---|---|---
 4 | 5 | 6
---|---|---
 X | 8 | 9
  |  |  |
```

Test 5) The input was accepted and the game ran as usual.

```
Enter a number from 1-9: 334
```

```
please only enter a number for a valid space
```

```
 1 | 2 | 3
---|---|---
 4 | 5 | 6
---|---|---
 X | 8 | 9
  |  |  |
```

Test 6) The game asks the user to enter a valid number.

```
Enter a number from 1-9: 9
```

```
 X | 0 | 0
---|---|---
 4 | X | 0
---|---|---
 X | 8 | X
  |  |  |
```

```
X WINS!
```

Test 7) The game ends and the winner is printed to the console.

```
Enter a number from 1-9: 3.4
```

```
please only enter a number for a valid space
```

```
 1 | 2 | 3
---|---|---
 4 | 5 | 6
---|---|---
 7 | 8 | 9
  |  |  |
```

Test 8) The game rejects the input and asks the user to try again.