Acceptance Cases

Case ID	Test Description	Acceptance Case	Result
| 1 | The dimensions of the generated board must fit under the rules of Sudoku | - Board is 9x9 in size | ```
[4, 8, 1, 7, 2, 9, 5, 6, 3, ]
[7, 5, 3, 1, 8, 6, 4, 9, 2, ]
[6, 9, 2, 4, 3, 5, 1, 7, 8, ]
[2, 6, 4, 8, 1, 3, 7, 5, 9, ]
[1, 3, 8, 5, 9, 7, 2, 4, 6, ]
[5, 7, 9, 2, 6, 4, 3, 8, 1, ]
[9, 4, 6, 3, 5, 1, 8, 2, 7, ]
[3, 2, 7, 9, 4, 8, 6, 1, 5, ]
[8, 1, 5, 6, 7, 2, 9, 3, 4, ]
``` |
| 2 | Each row and column in the generated solution must follow the winning conditions under the rules of Sudoku | - Sum of each individual row is 45<br>- Sum of each individual column is 45<br>- Each row uses the numbers 1-9 once each<br>- Each column uses the numbers 1-9 once each | ```
[7, 9, 5, 2, 3, 1, 6, 4, 8, ]
[4, 6, 2, 7, 8, 5, 3, 9, 1, ]
[1, 8, 3, 9, 6, 4, 2, 7, 5, ]
[5, 2, 8, 1, 7, 3, 9, 6, 4, ]
[6, 1, 7, 5, 4, 9, 8, 2, 3, ]
[9, 3, 4, 6, 2, 8, 1, 5, 7, ]
[2, 4, 6, 8, 1, 7, 5, 3, 9, ]
[3, 5, 1, 4, 9, 6, 7, 8, 2, ]
[8, 7, 9, 3, 5, 2, 4, 1, 6, ]
``` |
| 3 | Each quadrant of the generated solution must follow the winning conditions under the rules of Sudoku | - Sum of each 3x3 quadrant is 45<br>- Each 3x3 quadrant uses the numbers 1-9 once each | ```
[6, 3, 4, 5, 7, 2, 1, 8, 9, ]
[2, 7, 8, 1, 3, 9, 4, 6, 5, ]
[5, 1, 9, 4, 8, 6, 7, 2, 3, ]
[4, 9, 5, 2, 1, 7, 8, 3, 6, ]
[8, 2, 1, 6, 9, 3, 5, 7, 4, ]
[7, 6, 3, 8, 5, 4, 9, 1, 2, ]
[3, 5, 7, 9, 2, 8, 6, 4, 1, ]
[9, 4, 2, 7, 6, 1, 3, 5, 8, ]
[1, 8, 6, 3, 4, 5, 2, 9, 7, ]

[6, 3, 4,|5, 7, 2,|1, 8, 9, ]
[2, 7, 8,|1, 3, 9,|4, 6, 5, ]
[5, 1, 9,|4, 8, 6,|7, 2, 3, ]
[4, 9, 5,|2, 1, 7,|8, 3, 6, ]
[8, 2, 1,|6, 9, 3,|5, 7, 4, ]
[7, 6, 3,|8, 5, 4,|9, 1, 2, ]
[3, 5, 7,|9, 2, 8,|6, 4, 1, ]
[9, 4, 2,|7, 6, 1,|3, 5, 8, ]
[1, 8, 6,|3, 4, 5,|2, 9, 7, ]
``` |

| 4 | Each value in the Sudoku board must be a legitimate value under the rules of Sudoku | - Each integer in the generated board must be between 1-9 inclusive | [3, 5, 4, 1, 8, 2, 9, 6, 7,]
[7, 9, 2, 5, 3, 6, 8, 1, 4,]
[6, 1, 8, 7, 9, 4, 3, 2, 5,]
[1, 6, 7, 9, 2, 8, 4, 5, 3,]
[9, 2, 3, 4, 6, 5, 1, 7, 8,]
[4, 8, 5, 3, 7, 1, 2, 9, 6,]
[5, 7, 9, 2, 4, 3, 6, 8, 1,]
[2, 4, 6, 8, 1, 7, 5, 3, 9,]
[8, 3, 1, 6, 5, 9, 7, 4, 2,] |