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| Test  Case ID | Test case | Preconditions | Input test data | Steps | Expected results | Actual results | Pass / Fail |
| 1 | Input no integers to test the Sudoku function |  | Empty rows and columns | 1)Do not fill any data for rows and cols | The function will report an error |  |  |
| 2 | Input negative numbers to test the Sudoku function |  | Negative numbers | 1)Enter negative numbers | Error will be displayed. The input parameter should be positive integer |  |  |
| 3 | Input 8 positive numbers and 1 negative numbers to test the Sudoku function |  | 8 positive integers  1 negative integer | 1)Enter 8 positive numbers and 1 negative number | The function will report an error |  |  |
| 4 | Input number greater than 9 to test the Sudoku function |  | Integer greater than 9 | 1)Enter number greater than 9 | Error will be displayed. The input parameter should be from 1 to 9 |  |  |
| 5 | Input zero to test the Sudoku function |  | Zero | 1)Enter zero in one of the rows or cols | Error will be displayed. The input parameter should be from 1 to 9 |  |  |
| 6 | Check if the numbers in each column are not repeated | Two-dimension array should be returned |  | 1)Check each column. Their indexes start from 0 to 8.  2)Check if any of the numbers is not repeated | The numbers in the columns in the returned array should be between 1 and 9 and not to repeat |  |  |
| 7 | Check if the numbers in each row are not repeated | Two-dimension array should be returned |  | 1)Check each row. Their indexes start from 0 to 8.  2)Check if any of the numbers is not repeated | The numbers in the rows in the returned array should be between 1 and 9 and not to repeat |  |  |
| 8 | Check 3x3 grids for repeated values | Two-dimension array should be returned |  | 1)Check for repeated values in each 3x3 part of the array | The numbers in each 3x3 group should not repeat |  |  |
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**AUTHOUR: Nikolina Doycheva**