64) **Determine if a 9 x 9 Sudoku board is valid. Only the filled cells need to be validated according to the following rules:**

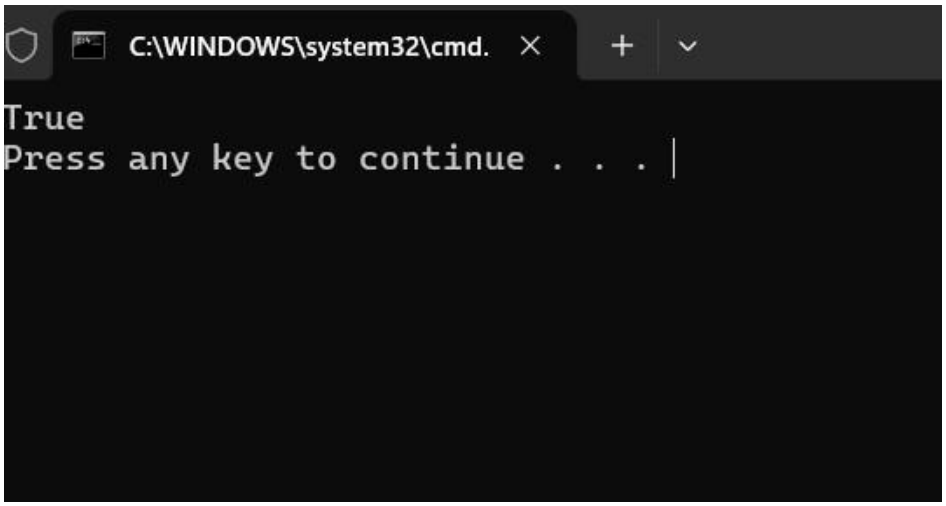
CODE:

```
def isValidSudoku(board):     rows = [set()
for _ in range(9)]     columns = [set() for _ in
range(9)]     boxes = [set() for _ in range(9)]
        for i in range(9):         for j in
range(9):             if board[i][j] != '.':
num = board[i][j]
                box_index = (i // 3) * 3 + (j // 3)
                        if num in rows[i] or num in columns[j] or num in boxes[box_index]:
                   return False

                rows[i].add(num)                columns[j].add(num)
boxes[box_index].add(num)

    return True
 board = [
    ["5","3",".",".","7",".",".",".",".","."]
   ,["6",".",".","1","9","5",".",".",".","."]
   ,[".","9","8",".",".",".",".",".","6","."]
   ,["8",".",".",".","6",".",".",".",".","3"]
   ,["4",".",".","8",".","3",".",".",".","1"]
   ,["7",".",".",".",".","2",".",".",".","6"]
   ,[".","6",".",".",".",".",".","2","8","."]
   ,[".",".",".","4","1","9",".",".",".","5"]
   ,[".",".",".",".",".","8",".",".","7","9"]
] print(isValidSudoku(board))
```

OUTPUT:



TIME COMPLEXITY : o(n)