

```
1 def solveSudoku(board):
          def isValid(x, y, c):
              return all(c != board[i][y] for i in range(9)) and \
                        [(c != board[x][j] for j in range(9)) and \
                        (c = board[x // 3 * 3 + i][y // 3 * 3 + j] for i in range(3) for j in range(3))
          def solve():
              for i in range(9):
   for j in range(9):
                      if board[i][j] == '.':
                           for c in '123456789':
  10 -
                               if isValid(i, j, c):
  11 -
                                   board[i][j] = c
  12
                                   if solve():
 13 -
 14
                                       return True
                                   board[i][j] = '.'
 15
 16
                           return False
 17
              return True
 18
          solve()
 19 - board = [
          ["5", "3",
["6", ".",
  20
 21
  22
  23
  24
  25
  26
  27
v ,' 🕫 💠 💃
                                                                       input
['7', '1', '3', '9', '2', '4', '8', '5', '6']
['9', '6', '1', '5', '3', '7', '2', '8', '4']
['2', '8', '7', '4', '1', '9', '6', '3', '5']
['3', '4', '5', '2', '8', '6', '1', '7', '9']
 mumpy
                         (L :- DOGIU[X // 3 3 T 1][Y // 3
           def solve():
               for i in range(9):
   8 -
                   for j in range(9):
                       if board[i][j] == '.':
                           for c in '123456789':
  10 -
                                if isValid(i, j, c):
  11 -
                                    board[i][j] = c
  12
  13 -
                                    if solve():
                                        return True
  14
  15
                                    board[i][j] = '.'
                           return False
  16
  17
               return True
  18
           solve()
  19
      board = [
           ["5", "3",
["6", ".",
  20
  21
  22
  23
           Γ"4"
  24
  25
  26
  27
  28
   29 ]
   30 solveSudoku(board)
   31 for row in board:
           print(row)
  32
 v / P 4 4
                                                                       input
['7', '1', '3', '9', '2', '4', '8', '5', '6']
['9', '6', '1', '5', '3', '7', '2', '8', '4']
['2', '8', '7', '4', '1', '9', '6', '3', '5']
['3', '4', '5', '2', '8', '6', '1', '7', '9']
```















