Jigsaw Sudoku Solution

Solution: 261398547854219736975683412143972658437856291598764123326145879612437985789521364
Clues: 16
Final Score: 803
Grade: Tough

Step 1 - Hidden Singles docs
- 6 found once at **E6** in box, 4 candidates removed
- Last candidate, 6, in **E6** changed to solution

Step 2 - Hidden Singles docs
- 6 found once at **G3** in box, 6 candidates removed
- Last candidate, 6, in **G3** changed to solution

Step 3 - Pointing Pairs docs
- POINTING SET: All 1s in box 6 are aligned such that...
  - 1 can be removed from **A9**
  - 1 can be removed from **B9**
  - 1 can be removed from **C9**

Step 4 - Pointing Pairs docs
- POINTING SET: All 2s in box 8 are aligned such that...
  - 2 can be removed from **A5**
  - 2 can be removed from **B5**

Step 5 - Pointing Pairs docs
- POINTING SET: All 5s in box 7 are aligned such that...
  - 5 can be removed from **J7**
  - 5 can be removed from **J9**

Step 6 - Hidden Singles docs
- 5 found once at **A7** in column, 4 candidates removed
- 5 found once at **H9** in box, 5 candidates removed
- Last candidate, 5, in **A7** changed to solution
- Last candidate, 5, in **H9** changed to solution

Step 7 - Hidden Singles docs
- 5 found once at **C3** in row/box, 4 candidates removed
- 5 found once at **E5** in column, 4 candidates removed
- Last candidate, 5, in **C3** changed to solution
- Last candidate, 5, in **E5** changed to solution

Step 8 - Hidden Singles docs
- 4 found once at **F6** in box, 3 candidates removed
- 5 found once at **F1** in row/box, 5 candidates removed
- 5 found once at **J4** in column, 4 candidates removed
- Last candidate, 5, in **F1** changed to solution
- Last candidate, 4, in **F6** changed to solution
- Last candidate, 5, in **J4** changed to solution

Step 9 - Hidden Singles docs
- 2 found once at **B4** in column, 3 candidates removed
- 3 found once at **C6** in box, 3 candidates removed
- Last candidate, 2, in **B4** changed to solution
- Last candidate, 3, in **C6** changed to solution

Step 10 - Pointing Pairs docs
- POINTING SET: All 2s in box 4 are aligned such that...

- 2 can be removed from **H2**

Step 11 - Pointing Pairs docs
- POINTING SET: All 3s in box 1 are aligned such that...
  - 3 can be removed from **D1**

Step 12 - Pointing Pairs docs
- POINTING SET: All 3s in box 3 are aligned such that...
  - 3 can be removed from **B1**
  - 3 can be removed from **B7**

Step 13 - Pointing Pairs docs
- POINTING SET: All 3s in box 1 are aligned such that...
  - 3 can be removed from **D7**
  - 3 can be removed from **D9**

Step 14 - Pointing Pairs docs
- POINTING SET: All 3s in box 6 are aligned such that...
  - 3 can be removed from **B9**
  - 3 can be removed from **G9**
  - 3 can be removed from **J9**

Step 15 - Hidden Singles docs
- 3 found once at **B8** in row/box, 5 candidates removed
- Last candidate, 3, in **B8** changed to solution

Step 16 - Hidden Singles docs
- 3 found once at **J7** in box, 4 candidates removed
- Last candidate, 3, in **J7** changed to solution

Step 17 - Hidden Triple docs
- Hidden Triple 2/3/4 in Box 8, on cells [**G5**,**H5**,**J5**]
  - removes 1/7/9 from **G5**
  - removes 1/7/9 from **H5**
  - removes 1/7/9 from **J5**

Step 18 - Naked Triple docs
- Naked Triple 2/3/4 in Col 5, on cells [**G5**,**H5**,**J5**]
  - removes 4 from **A5**
  - removes 4 from **B5**
  - removes 4 from **D5**

Step 19 - Hidden Singles docs
- 4 found once at **B3** in box, 3 candidates removed
- Last candidate, 4, in **B3** changed to solution

Step 20 - Pointing Pairs docs
- POINTING SET: All 1s in box 8 are aligned such that...
  - 1 can be removed from **A6**
  - 1 can be removed from **B6**

Step 21 - Pointing Pairs docs
- POINTING SET: All 4s in box 3 are aligned such that...
  - 4 can be removed from **A1**
  - 4 can be removed from **A2**

Step 22 - Hidden Singles docs
- 4 found once at **D2** in box, 6 candidates removed
- 6 found once at **A2** in column/box, 5 candidates removed
- Last candidate, 6, in **A2** changed to solution
- Last candidate, 4, in **D2** changed to solution

Step 23 - Hidden Singles docs
- 3 found once at **D3** in row/box, 3 candidates removed
- 4 found once at **E1** in row/column/box, 3 candidates removed

- 6 found once at **B9** in box, 3 candidates removed
- 6 found once at **J8** in column, 4 candidates removed
- Last candidate, 6, in **B9** changed to solution
- Last candidate, 3, in **D3** changed to solution
- Last candidate, 4, in **E1** changed to solution
- Last candidate, 6, in **J8** changed to solution

Step 24 - Hidden Singles docs

- 3 found once at **G1** in column, 5 candidates removed
- 6 found once at **D7** in row/column/box, 2 candidates removed
- 8 found once at **D9** in row, 2 candidates removed
- Last candidate, 6, in **D7** changed to solution
- Last candidate, 8, in **D9** changed to solution
- Last candidate, 3, in **G1** changed to solution

Step 25

- Last candidate, 7, in **B7** changed to solution

Step 26

- Last candidate, 3, in **F9** changed to solution

Step 27

- Last candidate, 1, in **E9** changed to solution

Step 28

- Last candidate, 7, in **E3** changed to solution

Step 29

- Last candidate, 3, in **E2** changed to solution

Step 30 - Hidden Singles docs

- 3 found once at **H5** in row/column/box, 1 candidate removed
- Last candidate, 3, in **H5** changed to solution

Step 31 - Naked Pair docs

- Naked Pair 8/9 in Box 8, on cells [**G7**,**H7**]
  - removes 8/9 from **H6**
  - removes 8/9 from **J6**

Step 32 - Naked Pair docs

- Naked Pair 1/7 in Col 6, on cells [**H6**,**J6**]
  - removes 7 from **A6**

Step 33 - Naked Pair docs

- Naked Pair 8/9 in Box 3, on cells [**A6**,**B6**]
  - removes 8 from **A8**
  - removes 9 from **A9**
  - removes 9 from **C9**

Step 34 - Pointing Pairs docs

- POINTING SET: All 8s in box 1 are aligned such that...
  - 8 can be removed from **J1**

Step 35 - Hidden Singles docs

- 8 found once at **J2** in row, 4 candidates removed
- Last candidate, 8, in **J2** changed to solution

Step 36 - Line/Box Reduction docs

- PAIR: Between Row=3 and Box=1:
  9 taken off **A1**
  9 taken off **A3**
  9 taken off **B1**

Step 37 - Double Pointing Pairs docs

- The two boxes 7 and 8 contain 2 in just rows G and J, so...
  - 2 can be removed from **G8**
  - 2 can be removed from **G9**
  - 2 can be removed from **J9**

Step 38 - Pointing Pairs docs

- POINTING SET: All 2s in box 9 are aligned such that...
  - 2 can be removed from **A8**
  - 2 can be removed from **C8**

Step 39 - Double Pointing Pairs docs

- The two boxes 1 and 3 contain 7 in just rows A and C, so...
  - 7 can be removed from **A5**

Step 40 - Hidden Singles docs

- 7 found once at **D5** in column/box, 2 candidates removed
- Last candidate, 7, in **D5** changed to solution

Step 41 - Double Line/Box Reduction docs

- The two rows 4 and 6 contain 9 in just boxes 4 and 5, so...
  - 9 can be removed from **H3**
  - 9 can be removed from **G4**

Step 42 - Hidden Singles docs

- 9 found once at **J3** in column, 2 candidates removed
- Last candidate, 9, in **J3** changed to solution

Step 43 - Hidden Singles docs

- 9 found once at **G9** in column/box, 2 candidates removed
- 9 found once at **H7** in row, 1 candidate removed
- Last candidate, 9, in **G9** changed to solution
- Last candidate, 9, in **H7** changed to solution

Step 44

- Last candidate, 8, in **G7** changed to solution

Step 45 - Hidden Singles docs

- 8 found once at **H8** in row/column/box, 2 candidates removed
- Last candidate, 8, in **H8** changed to solution

Step 46 - Hidden Singles docs

- 2 found once at **F8** in column/box, 1 candidate removed
- 2 found once at **H3** in row, 1 candidate removed
- 7 found once at **F4** in row, 1 candidate removed
- 9 found once at **D4** in column/box, 1 candidate removed
- 9 found once at **F2** in row, 1 candidate removed
- Last candidate, 9, in **D4** changed to solution
- Last candidate, 9, in **F2** changed to solution
- Last candidate, 7, in **F4** changed to solution
- Last candidate, 2, in **F8** changed to solution
- Last candidate, 2, in **H3** changed to solution

Step 47

- Last candidate, 1, in **A3** changed to solution
- Last candidate, 1, in **D1** changed to solution
- Last candidate, 1, in **G4** changed to solution

Step 48

- Last candidate, 9, in **A5** changed to solution
- Last candidate, 8, in **B1** changed to solution

Step 49

- Last candidate, 8, in **A6** changed to solution
- Last candidate, 1, in **B5** changed to solution
- Last candidate, 9, in **B6** changed to solution

Step 50 - Hidden Singles docs

- 1 found once at **C8** in row/column/box, 1 candidate removed
- 1 found once at **H2** in column/box, 1 candidate removed
- 1 found once at **J6** in row, 1 candidate removed
- 7 found once at **H6** in row/column/box, 1 candidate removed
- 9 found once at **C1** in row/column/box, 2 candidates removed
- Last candidate, 9, in **C1** changed to solution
- Last candidate, 1, in **C8** changed to solution
- Last candidate, 1, in **H2** changed to solution
- Last candidate, 7, in **H6** changed to solution
- Last candidate, 1, in **J6** changed to solution

Step 51 - Simple Colouring docs

- (RULE 2): Two 7s in a single unit (in Row A) have the same color in cells A1 A8 - all yellow coloured candidates can be removed
- Last candidate, 2, in **A1** changed to solution
- Last candidate, 4, in **A8** changed to solution
- Last candidate, 2, in **C9** changed to solution
- Last candidate, 2, in **G2** changed to solution
- Last candidate, 4, in **J9** changed to solution

Step 52

- Last candidate, 7, in **A9** changed to solution
- Last candidate, 7, in **C2** changed to solution
- Last candidate, 4, in **G5** changed to solution
- Last candidate, 7, in **G8** changed to solution
- Last candidate, 7, in **J1** changed to solution
- Last candidate, 2, in **J5** changed to solution