NEW, HUGE, AND CHALLENGING! A One-Puzzle LMI Fun Contest By Ivan Koswara

Poset Futoshiki Put an integer between 1-16 into each cell such that every number appears exactly once in each row/column. Additionally, if $x<y$ in the grid, then there is a path from $x$ to $y$ following the arrows (including the directions) in the diagram.

Answer key Enter the contents of the marked cells from left to right. For two-digit numbers, enter only the last digit.

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|  | 2 | 7 | 9 | 3 | 10 | 5 |  |  | 13 |  | 4 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 6 | 4 | 3 | 1 | 5 | 9 | 7 | 10 |  | 16 | 8 | 2 |  |  |  |  |
| 9 | 1 | 8 | 2 | 10 | (7) | 3 | 5 | 4 | 6 |  | 15 | 14 |  |  |  |
| 7 | (3) | 6 | 4 | 1 | 5 | 10 | 9 | 2 | 8 |  | 11 |  |  |  | 15 |
| 2 | 8 | 13 | 14 | 12 | 15 | 16 | 11 | 6 | 4 | 9 | 3 |  |  |  |  |
| 4 | 6 | 16 | 12 | 14 |  | 13 | 15 | 8 | 2 | 7 | 5 | 9 | 3 | 1 |  |
|  | 115 | (4) | 8 | 6 | 2 | 12 | 14 | 9 | 1 | 16 | 13 |  | - | 3 |  |
| 15 | 511 | 2 | 6 | 8 | 4 | 14 | 12 | 1 | 3 | 13 | 16 | 5 | 7 | 10 |  |
| 3 | 10 | 5 | (7) | 9 | 1 | 15 | 16 | 13 | 14 | 4 | 8 | 2 | 6 |  | 12 |
| 5 | 5 | 1 | 10 | 7 | 3 |  | 13 | 16 | 12 | 2 | 6 | 4 | 8 |  |  |
| 10 | 7 | 9 | 5 |  | 1316 | 6 | (4) |  |  |  | 12 | 3 | 1 | 8 |  |
| 1 | 5 | 10 | 3 | 16 | 13 | 8 | 2 | 12 |  | 15 | 14 | 7 | 9 | 6 |  |
|  | 413 | 15 | 16 |  | 112 | 4 | 6 | (5) | 10 | 3 | 7 | 8 | 2 | 9 |  |
|  | 16 |  | 13 | 15 | 14 | 2 | 8 | 7 | 9 | 1 | 10 | 6 | 4 | 5 |  |
|  | 14 |  | 15 | 2 | 8 | 9 | 3 | 10 | 7 | (5) | 1 |  | 11 | 4 |  |
|  | 1 |  |  | (4) | 6 | 1 | 7 | 3 | 5 | 10 |  |  | 15 | 2 |  |

