

STATE OF IDAHO

DEPARTMENT OF WATER RESOURCES

1301 North Orchard Street, P.O. Box 83720

Boise, Idaho 83720-0098

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Figure 1 consists of 15 sub-diagrams labeled (a) through (m), each showing a 4x4 grid representing a 15-puzzle state. The tiles are numbered 1 through 14, and the empty space is represented by 0. The sequence of diagrams illustrates the steps of a solution:

- (a) Initial state: Tiles 1-14 are in their goal positions, except for tile 14 which is in the bottom-right corner (row 4, column 4). Tile 0 is in the bottom-left corner (row 4, column 1).
- (b) Tile 14 is moved to the position above it (row 3, column 4).
- (c) Tile 14 is moved to the position above it (row 2, column 4).
- (d) Tile 14 is moved to the position above it (row 1, column 4).
- (e) Tile 14 is moved to the position above it (row 0, column 4).
- (f) Tile 14 is moved to the position above it (row -1, column 4).
- (g) Tile 14 is moved to the position above it (row -2, column 4).
- (h) Tile 14 is moved to the position above it (row -3, column 4).
- (i) Tile 14 is moved to the position above it (row -4, column 4).
- (j) Tile 14 is moved to the position above it (row -5, column 4).
- (k) Tile 14 is moved to the position above it (row -6, column 4).
- (l) Tile 14 is moved to the position above it (row -7, column 4).
- (m) Final state: All tiles are in their goal positions.

[illegible]