**Problem Formulation**

* **Initial State:** Unordered, random order of pieces of the puzzle.
* **Successor Function:** (based on our puzzle’s initial state) swapping the blank tile with the right tile, or swapping the blank tile with the tile above. (There are equations to solve the problem as well).
* **Goal Test:** The fully ordered, organized puzzle.
* **Path Cost:** g(1) for each step/action in the puzzle.

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**Tree Diagram Incomplete Snapshot**