

# Artificial Intelligence.

## Assignment

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Initial State

7	2	4
5		6
8	3	1

Final State.

1	2
3	4
5	6
7	8

### Steps

7	2	4	→	8	2	4	→	2	4	
5	6			7	5	6		7	5	6
8	3	1		8	3	1		8	3	1

→	2	5	4	→	2	5	6	→	2	5	4
	7	6			7	6			7	6	1
	8	3	1		8	3	1		8	3	

→	2	5	4	→	2	5	4	→	2	5	4
	7	6	1			6	1		6	1	
	8	3			7	8	3		7	8	3

→	2	5	4	→	2	5	4	→	2	5	4
	6		1		6	1			6	1	3
	7	8	3		7	8	3		7	8	





→  $\begin{array}{ccc} 2 & 5 & 6 \\ 6 & 1 & 3 \\ 7 & & 8 \end{array}$  →  $\begin{array}{ccc} 2 & 5 & 4 \\ 6 & 1 & 3 \\ 7 & & 8 \end{array}$  →  $\begin{array}{ccc} 2 & 5 & 4 \\ & 1 & 3 \\ 6 & 7 & 8 \end{array}$

→  $\begin{array}{ccc} 2 & 5 & 4 \\ 1 & & 3 \\ 6 & 7 & 8 \end{array}$  →  $\begin{array}{ccc} 2 & 5 & 4 \\ 1 & 3 & \\ 6 & 7 & 8 \end{array}$  →  $\begin{array}{ccc} 2 & 5 & \\ 1 & 3 & 4 \\ 6 & 7 & 8 \end{array}$

→  $\begin{array}{ccc} 2 & & 5 \\ 1 & 3 & 4 \\ 6 & 7 & 8 \end{array}$  →  $\begin{array}{ccc} 2 & 5 & \\ 1 & 3 & 4 \\ 6 & 7 & 8 \end{array}$  →  $\begin{array}{ccc} 1 & 2 & 5 \\ & 3 & 4 \\ 6 & 7 & 8 \end{array}$

→  $\begin{array}{ccc} 1 & 2 & 5 \\ 3 & 4 & \\ 6 & 7 & 8 \end{array}$  →  $\begin{array}{ccc} 1 & 2 & 5 \\ 3 & 4 & \\ 6 & 7 & 8 \end{array}$  →  $\begin{array}{ccc} 1 & 2 & \\ 3 & 4 & 5 \\ 6 & 7 & 8 \end{array}$

→  $\begin{array}{ccc} 1 & 2 & \\ 3 & 4 & 5 \\ 6 & 7 & 8 \end{array}$  →  $\begin{array}{ccc} 1 & 2 & \\ 3 & 4 & 5 \\ 6 & 7 & 8 \end{array}$