

Case 1: (4 steps)

Original Board:

--Board--

```
|1  2    3 |  
|5  6  7  4 |  
|9 10 11 8 |  
|13 14 15 12|  
-----
```

Search Strategy	Memory usage	Running time (msec)	Number of expanded nodes.	Path to goal node.
BFS	339544	41	88	LUUU
ID-DFS	323256	35	68	LUUU
A* Heuristic 1	304344	20	8	LUUU
A* Heuristic 2	304696	24	8	LUUU

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Case 2(7 steps)

Original Board:

--Board--

```
|1    2  4 |  
|5  7  3  8 |  
|9  6 11 12|  
|13 10 14 15|  
-----
```

Search Strategy	Memory usage	Running time(msec)	Number of expanded nodes.	Path to goal node.
BFS	623072	99	934	LURUULL
ID-DFS	410560	135	668	LURUULL
A*	304704	18	19	LURUULL

Heuristic 1				
A* Heuristic 2	305552	27	19	LURUULL

Case 3(18 steps)

Original Board:

--Board--

```

|  1  2  3 |
|10 6  8  4 |
|5  13 7  11|
|14 9  15 12|

```

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Search Strategy	Memory usage	Running time(msec)	Number of expanded nodes.	Path to goal node.
BFS	389029440	10492	1178473	LURULURDLDDLURULU
ID-DFS	44376704	3328	295990	LLLURRRULURDLDLULU
A* Heuristic 1	308920	214	453	LURULURDLDDLURULU
A* Heuristic 2	308488	55	60	LLLURRRULURDLDLULU