Enter the initial state (9 numbers from 0 to 8, space separated): 2 8 3 1 6 4 7 0 5
Enter the goal state (9 numbers from 0 to 8, space separated): 1 2 3 8 0 4 7 6 5
Efficient the goal state (9 humbers from 0 to 6, space separated). 1 2 3 6 0 4 7 6 3
Starting BFS
Total states explored: 35
States explored in order:
State 1:
(2, 8, 3)
(1, 6, 4)
(7, 0, 5)
State 2:
(2, 8, 3)
(1, 0, 4)
(7, 6, 5)
State 3:
(2, 8, 3)
(1, 6, 4)
(0, 7, 5)
State 4:
(2, 8, 3)
(1, 6, 4)
(7, 5, 0)
State 5:
(2, 0, 3)
(1, 8, 4)

(7, 6, 5)			
State 7:			
(2, 8, 3)			
(1, 4, 0)			
(7, 6, 5)			
State 8:			
(2, 8, 3)			
(0, 6, 4)			
(1, 7, 5)			
State 9:			
(2, 8, 3)			
(1, 6, 0)			
(7, 5, 4)			
State 10:			
(0, 2, 3)			
(1, 8, 4)			
(7, 6, 5)			
State 11:			
(2, 3, 0)			
(1, 8, 4)			
(7, 6, 5)			

(7, 6, 5)

State 6:

(2, 8, 3)

(0, 1, 4)

(2, 1, 4)
(7, 6, 5)
State 13:
(2, 8, 3)
(7, 1, 4)
(0, 6, 5)
State 14:
(2, 8, 0)
(1, 4, 3)
(7, 6, 5)
State 15:
(2, 8, 3)
(1, 4, 5)
(7, 6, 0)
State 16:
(0, 8, 3)
(2, 6, 4)
(1, 7, 5)
State 17:
(2, 8, 3)
(2, 8, 3)
(6, 0, 4)

State 12:

(0, 8, 3)

State 19:
(2, 8, 3)
(1, 0, 6)
(7, 5, 4)
State 20:
(1, 2, 3)
(0, 8, 4)
(7, 6, 5)
State 21:
(2, 3, 4)
(1, 8, 0)
(7, 6, 5)
State 22:
(8, 0, 3)
(2, 1, 4)
(7, 6, 5)
State 23:
(2, 8, 3)
(7, 1, 4)
(6, 0, 5)
State 24:

State 18:

(2, 8, 0)

(1, 6, 3)

(7, 5, 4)

(2, 8, 3)			
(1, 4, 5)			
(7, 0, 6)			
State 26:			
(8, 0, 3)			
(2, 6, 4)			
(1, 7, 5)			
State 27:			
(2, 0, 3)			
(6, 8, 4)			
(1, 7, 5)			
State 28:			
(2, 8, 3)			
(6, 7, 4)			
(1, 0, 5)			
State 29:			
(2, 8, 3)			
(6, 4, 0)			
(1, 7, 5)			
State 20:			
State 30:			
(2, 0, 8)			

(2, 0, 8)

(1, 4, 3)

(7, 6, 5)

State 25:

(7, 5, 4)
State 31:
(2, 0, 3)
(1, 8, 6)
(7, 5, 4)
State 32:
(2, 8, 3)
(1, 5, 6)
(7, 0, 4)
State 33:
(2, 8, 3)
(0, 1, 6)
(7, 5, 4)
State 34:
(1, 2, 3)
(7, 8, 4)
(0, 6, 5)
State 35:
(1, 2, 3)
(8, 0, 4)
(7, 6, 5)
Number of moves to solve: 5
Moves to solve:
Initial state:

(1, 6, 3)

(2, 8, 3)
(1, 6, 4)
(7, 0, 5)
Move 1: Up
(2, 8, 3)
(1, 0, 4)
(7, 6, 5)
Move 2: Up
(2, 0, 3)
(1, 8, 4)
(7, 6, 5)
Move 3: Left
(0, 2, 3)
(1, 8, 4)
(7, 6, 5)
Move 4: Down
(1, 2, 3)
(0, 8, 4)
(7, 6, 5)
Move 5: Right
(1, 2, 3)
(8, 0, 4)
(7, 6, 5)
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