

Solve the 8 Puzzle Problem using following input and output.

1	2	3
8		4
7	6	5

Initial State

2	8	1
	4	3
7	6	5

Goal State

Initial State-

1	2	3
8		4
7	6	5

R \rightarrow Right

$L \rightarrow \text{Left}$

$U \rightarrow UP$

D \rightarrow Down.

