

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      Status

Initial State -

1	2	3
8		4
7	6	5

R  $\rightarrow$  Right

$L \rightarrow \text{Left}$

$U \rightarrow UP$

D  $\rightarrow$  Down.

