

Initial configuration

(0, 0)	(1, 1)	(2, 2)	(3, 3)
(0, 1)	(1, 0)	(2, 3)	(3, 2)
(0, 2)	(1, 3)	(2, 0)	(3, 1)
(0, 3)	(1, 2)	(2, 1)	(3, 0)

After the first set of shuffles

(0, 0)	(1, 1)	(2, 2)	(3, 3)
(0, 1)	(1, 0)	(2, 3)	(3, 2)
(0, 2)	(1, 3)	(2, 0)	(3, 1)
(0, 3)	(1, 2)	(2, 1)	(3, 0)

After the second set of shuffles

(0, 0)	(0, 1)	(2, 2)	(2, 3)
(1, 0)	(1, 1)	(3, 2)	(3, 3)
(0, 2)	(0, 3)	(2, 0)	(2, 1)
(1, 2)	(1, 3)	(3, 0)	(3, 1)

Layout restored

(0, 0)	(0, 1)	(0, 2)	(0, 3)
(1, 0)	(1, 1)	(1, 2)	(1, 3)
(2, 0)	(2, 1)	(2, 2)	(2, 3)
(3, 0)	(3, 1)	(3, 2)	(3, 3)