

Tile Moving

You have 8 tiles on a 3 by 3 grid. There is one blank space.

Move the tiles round, one by one to move the tile marked **X** to the opposite corner. Tiles can only move into the adjacent position if it is empty.

START

1	2	
3	4	5
X	6	7

POSSIBLE FIRST MOVE

1	2	→
3	4	5
X	6	7

This would leave the top-middle free to then move either the 1 or the 4.

What is the least number of moves required to get tile **X** to the top right-hand corner?

Find a way of showing your moves, stage by stage.

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