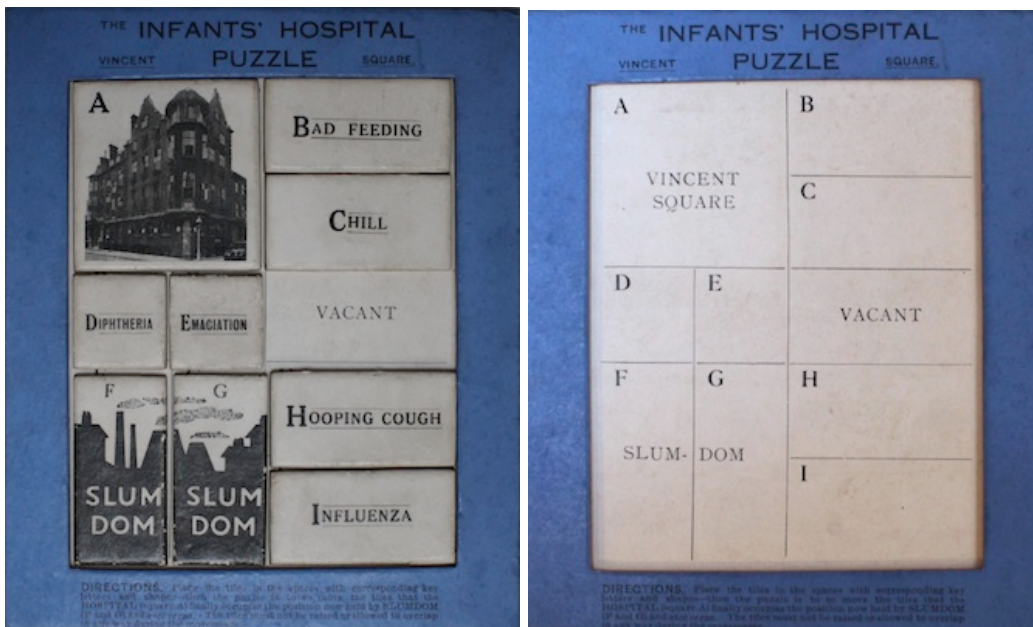


# Dad's Puzzler - Exchange Version



PRODUCED FOR THE GOVERNORS OF VINCENT SQUARE HOSPITAL BY THE CHAD VALLEY CO. LTD. HARBORNE.

**DIRECTIONS.** Place the tiles in the spaces with corresponding key letters and shapes—then the puzzle is to so move the tiles that the HOSPITAL (square A) finally occupies the position now held by SLUMDOM (F and G) and *vice versa*. The tiles must not be raised or allowed to overlap in any way during the movements.



"Infants' Hospital Puzzle", Chad Valley Co. Ltd., Harborne, England, 1920; made for the Infants' Hospital in Vincent Square, London, founded by R. Mond. (cardboard box and 9 cardboard pieces, 6.2 by 5.2 by 1/2 inches; see also the *Infants' Hospital Puzzle*, *Infants' Hospital - The Magic Line*, *A Ward Oin The Infants' Hospital*, and the *Infants' Hospital Jigsaw Puzzle*)

This is an example of a version of *Dad's Puzzler* where the directions give additional constraints on the final position; see the following pages.

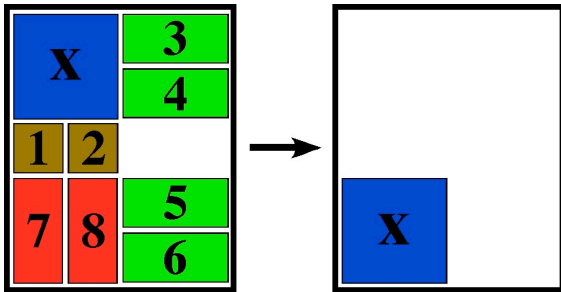
## Further Reading

*Infants Hospital History*, from: <http://ezitis.myzen.co.uk/westminsterchildrens.html>

*Robert Mond Wikipedia Page*, from: [http://en.wikipedia.org/wiki/Robert\\_Mond](http://en.wikipedia.org/wiki/Robert_Mond)

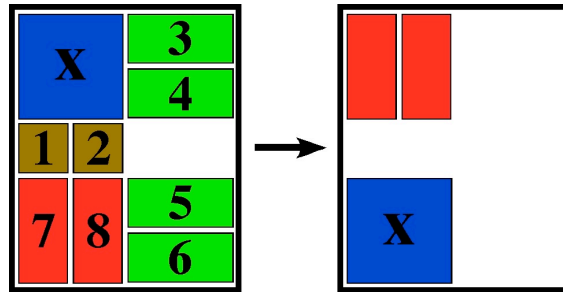
## Dad's Puzzler - Exchange Versions

The directions to the puzzle on the preceding page say one must not merely move the 2x2 piece to the lower left as with the standard Dad's Puzzler, but it must be exchanged with the two pieces there. Here are a number of interpretations of what this means:



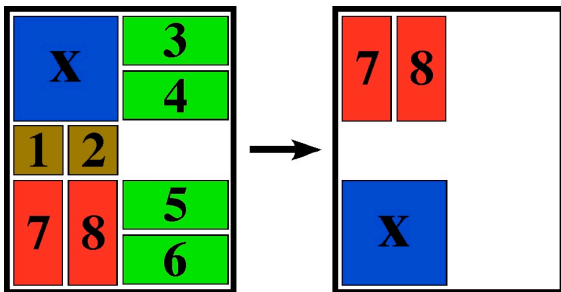
**Dad's Puzzler**

2x2 Piece must be moved to the lower left corner; no other requirements.



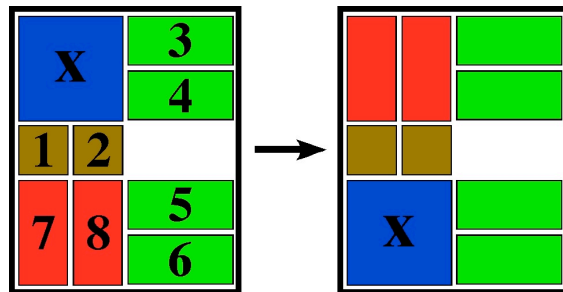
**Dad's Puzzler Exchange**

2x2 Piece must be moved to the lower left corner; pieces 7 and 8 must move to the upper left corner and may be exchanged.



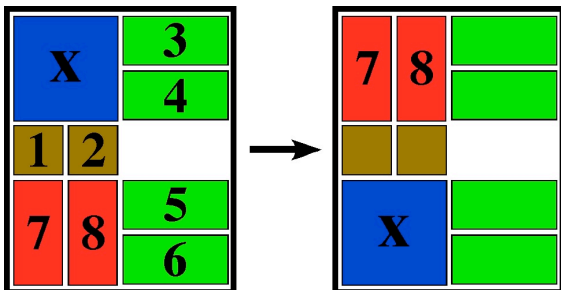
**Dad's Puzzler Exchange-Strict**

Exchange upper left 2x2 with lower left pair; the two lower left pieces must remain in same relative order; other pieces do not matter.



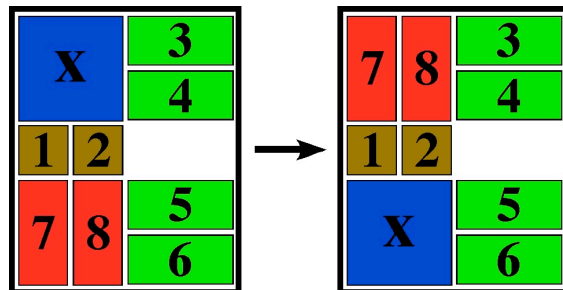
**Dad's Puzzler Exchange-Full**

Exchange upper left 2x2 with lower left pair; the two lower left pieces may be exchanged; other pieces must stay the same or be equivalent.



**Dad's Puzzler Exchange-Full-Strict**

Exchange upper left 2x2 with lower left pair; the two lower left pieces must remain in same relative order; other pieces must stay the same or be equivalent.



**Dad's Puzzler Exchange-Full-Strict-All**

Exchange upper left 2x2 with lower left pair; the two lower left pieces must remain in same relative order; other pieces must stay the same and cannot be exchange with equivalents.

## Dads Puzzler Exchange and Exchange-Strict Solutions

The minimal length solution for the standard version (62 straight-line moves, 59 rectilinear moves) also works for the exchange version. When the exchange must be strict, here is a 67 straight line moves solution; it can be converted to 65 rectilinear moves by combining steps 6/7 and 63/64:

X X 3 3 X X 4 4 1 2 7 8 5 5 7 8 6 6	X X 3 3 X X 4 4 1 7 8 5 5 7 8 6 6	X X 3 3 X X 4 4 1 2 7 8 5 5 7 8 6 6	3 3 X X 4 4 X X 1 2 7 8 5 5 7 8 6 6	3 3 X X 4 4 X X 1 2 7 8 5 5 7 8 6 6	3 3 4 4 X X X X 1 2 7 8 5 5 7 8 6 6	3 3 4 4 X X 1 X X 2 7 8 5 5 7 8 6 6	3 3 4 4 X X 1 X X 2 7 8 5 5 7 8 6 6	3 3 4 4 X X 1 X X 2 7 8 5 5 7 8 6 6	3 3 4 4 X X 1 X X 2 7 8 5 5 7 8 6 6
3 3 4 4 7 X X 1 7 X X 2 8 5 5 8 6 6	3 3 4 4 7 X X 1 7 X X 2 8 5 5 8 6 6	3 3 4 4 7 X X 1 7 X X 2 8 5 5 8 6 6	3 3 4 4 7 X X 1 7 X X 2 8 5 5 8 6 6	3 3 4 4 7 X X 1 7 X X 8 5 5 8 6 6 2	3 3 4 4 7 X X 7 X X 8 5 5 1 8 6 6 2	3 3 4 4 7 X X 7 X X 8 5 5 1 8 6 6 2	3 3 4 4 7 X X 7 X X 8 5 5 1 8 6 6 2	3 3 4 4 7 X X 7 X X 8 5 5 1 8 6 6 2	3 3 4 4 8 7 X X 8 7 X X 5 5 1 6 6 2
3 3 4 4 8 7 X X 8 7 X X 5 5 1 6 6 2	3 3 4 4 8 7 X X 8 7 X X 5 5 1 6 6 2	3 3 4 4 8 7 X X 8 7 X X 5 5 1 2 6 6	3 3 4 4 8 7 X X 8 7 X X 5 5 1 2 6 6	3 3 4 4 8 7 X X 8 7 X X 1 2 5 5 6 6	3 3 4 4 8 7 X X 8 7 X X 1 2 5 5 6 6	3 3 4 4 8 7 X X 8 7 X X 1 2 5 5 6 6	3 3 4 4 8 7 X X 8 7 X X 1 2 X X 5 5 6 6	3 3 4 4 8 7 X X 8 7 X X 1 2 X X 5 5 6 6	3 3 8 7 4 4 8 7 X X 1 2 X X 5 5 6 6
3 3 8 7 4 4 8 7 X X 1 2 X X 5 5 6 6	7 3 3 8 7 4 4 8 X X 1 2 X X 5 5 6 6	7 3 3 8 7 4 4 8 2 X X 1 X X 5 5 6 6	8 7 3 3 8 7 4 4 2 X X 1 X X 5 5 6 6	8 7 3 3 8 7 4 4 1 2 X X X X 5 5 6 6	8 7 3 3 8 7 4 4 1 2 X X X X 6 6	8 7 3 3 8 7 4 4 1 2 X X 5 5 X X 6 6	8 7 3 3 8 7 4 4 1 2 5 5 X X 6 6 X X	8 7 3 3 8 7 4 4 1 2 5 5 X X 6 6 X X	8 7 3 3 8 7 4 4 1 2 5 5 X X 6 6 X X
8 7 3 3 8 7 4 4 1 2 5 5 X X 6 6 X X	8 3 3 8 7 4 4 7 1 2 5 5 X X 6 6 X X	3 3 8 7 4 4 8 7 1 2 5 5 X X 6 6 X X	3 3 8 7 4 4 8 7 1 2 5 5 X X 6 6 X X	3 3 4 4 8 7 8 7 1 2 5 5 X X 6 6 X X	3 3 4 4 8 7 1 8 7 2 5 5 X X 6 6 X X	3 3 4 4 8 7 1 2 8 7 5 5 X X 6 6 X X	3 3 4 4 8 7 1 2 8 7 X X 5 5 X X 6 6	3 3 4 4 8 7 1 2 8 7 X X 5 5 X X 6 6	3 3 4 4 8 7 1 2 8 7 X X 5 5 X X 6 6
3 3 4 4 8 7 1 2 8 7 X X X X 5 5 6 6	3 3 4 4 8 1 2 8 7 X X 7 X X 5 5 6 6	3 3 4 4 1 2 8 7 X X 8 7 X X 5 5 6 6	4 4 3 3 1 2 8 7 X X 8 7 X X 5 5 6 6	4 4 3 3 1 2 8 7 X X 8 7 X X 5 5 6 6	4 4 2 3 3 1 8 7 X X 8 7 X X 5 5 6 6	4 4 2 3 3 1 8 7 X X 8 7 X X 5 5 6 6	4 4 2 3 3 1 8 7 X X 8 7 X X 5 5 6 6	4 4 2 3 3 1 8 7 X X 8 7 X X 5 5 6 6	8 4 4 2 8 3 3 1 7 X X 7 X X 5 5 6 6
8 4 4 2 8 3 3 1 7 X X 7 X X 5 5 6 6	8 4 4 2 8 3 3 1 7 X X 7 X X 5 5 6 6	8 4 4 2 8 3 3 7 X X 7 X X 1 5 5 6 6	8 4 4 8 3 3 7 X X 2 7 X X 1 5 5 6 6	8 4 4 8 3 3 7 X X 2 7 X X 1 5 5 6 6	8 4 4 8 3 3 7 X X 2 7 X X 1 5 5 6 6	8 4 4 8 3 3 7 X X 2 7 X X 1 5 5 6 6	8 4 4 8 3 3 7 X X 2 7 X X 1 5 5 6 6	7 8 4 4 7 8 3 3 X X 2 X X 1 5 5 6 6	7 8 4 4 7 8 3 3 X X 2 X X 1 5 5 6 6
7 8 4 4 7 8 3 3 X X 2 X X 1 5 5 6 6	7 8 4 4 7 8 3 3 X X 1 2 X X 5 5 6 6	7 8 4 4 7 8 3 3 X X 1 2 X X 6 6 5 5	7 8 4 4 7 8 3 3 X X 1 2 X X 6 6 5 5	7 8 4 4 7 8 3 3 1 2 X X 6 6 X X 5 5					

# Dads Puzzler Exchange-Full Solution

Here is a 64 straight line moves solution; it can be converted to 61 rectilinear moves by combining steps 6/7, 27/28, 58/59:

X X 3 3	X X 3 3	X X 3 3	3 3	3 3	3 3 4 4	3 3 4 4	3 3 4 4	3 3 4 4	3 3 4 4
X X 4 4	X X 4 4	X X 4 4	X X 4 4	X X 4 4	X X	X X 1	X X 1	X X 1	X X 1
1 2	1 2	1 2	X X 1 2	X X 1 2	X X 1 2	X X 2	X X 2	X X 2	X X 2
7 8 5 5	7 8 5 5	7 8 5 5	7 8 5 5	7 8 5 5	7 8 5 5	7 8 5 5	7 8 5 5	7 8 5 5	7 8 5 5
7 8 6 6	7 8 6 6	7 8 6 6	7 8 6 6	7 8 6 6	7 8 6 6	7 8 6 6	7 8 6 6	7 8 6 6	7 8 6 6
3 3 4 4	3 3 4 4	3 3 4 4	3 3 4 4	3 3 4 4	3 3 4 4	3 3 4 4	3 3 4 4	3 3 4 4	3 3 4 4
7 X X 1	7 X X 1	7 X X 1	7 X X 1	7 X X 1	7 X X	7 X X	7 X X	7 X X	8 7 X X
7 X X 2	7 X X 2	7 X X 2	7 X X 2	7 X X	7 X X	7 X X	7 X X	7 X X	8 7 X X
8 5 5	8 5 5	8 5 5	8 5 5	8 5 5	8 5 5 1	8 5 5 1	8 5 5 1	8 5 5 1	5 5 1
8 6 6	8 6 6	8 6 6	8 6 6	8 6 6 2	8 6 6 2	8 6 6 2	8 6 6 2	8 6 6 2	6 6 2
3 3 4 4	3 3 4 4	3 3 4 4	3 3 4 4	3 3 4 4	3 3 4 4	3 3 4 4	3 3 4 4	3 3 4 4	3 3 4 4
8 7 X X	8 7 X X	8 7 X X	8 7 X X	8 7 X X	8 7 X X	8 7 X X	8 7 X X	8 7 X X	8 7 X X
8 7 X X	8 7 X X	8 7 X X	8 7 X X	8 7 X X	8 7 X X	8 7 X X	8 7 X X	8 7 X X	8 7 X X
5 5 1	5 5 1	5 5 1 2	5 5 1 2	1 2	1 2	1 2	1 2 6 6	1 2 6 6	1 2 6 6
6 6 2	6 6 2	6 6	6 6	5 5 6 6	5 5 6 6	5 5 6 6	5 5	5 5	5 5
3 3 4 4	3 3 4 4	3 3 4 4	3 3 4 4	3 3 4 4	3 3 4 4	3 3 4 4	3 3 4 4	3 3 4 4	3 3 4 4
8 7 X X	8 7 X X	7 X X	7 X X	7 2 X X	7 2 X X	7 2 X X	2 X X	2 X X	2 X X
8 7 X X	8 7 X X	7 X X	7 X X	7 X X	7 1 X X	7 1 X X	7 1 X X	7 1 X X	7 1 X X
2 6 6	2 6 6	8 2 6 6	8 2 6 6	8 6 6	8 6 6	8 6 6	7 8 6 6	7 8 6 6	7 8 6 6
1 5 5	1 5 5	8 1 5 5	8 1 5 5	8 1 5 5	8 5 5	8 5 5	8 5 5	8 5 5	8 5 5
3 3 4 4	3 3 4 4	3 3 4 4	3 3 4 4	3 3 4 4	3 3 4 4	3 3 4 4	4 4	4 4	4 4
2 1 X X	2 1 X X	2 1 X X	2 1 X X	2 1	2 1	2 1	3 3 2 1	3 3 2 1	3 3 2 1
7 X X	7 8 X X	7 8 X X	7 8 X X	7 8 X X	7 8 X X	7 8 X X	7 8 X X	7 8 X X	7 8 X X
7 8 6 6	7 8 6 6	7 8 6 6	7 8	7 8 X X	7 8 X X	7 8 X X	7 8 X X	7 8 X X	7 8 X X
8 5 5	5 5	5 5	5 5 6 6	5 5 6 6	5 5 6 6	5 5 6 6	5 5 6 6	5 5 6 6	5 5 6 6
4 4 1	4 4 1	4 4 1	7 4 4 1	7 4 4 1	7 4 4 1	7 4 4 1	7 4 4	7 4 4	7 4 4
3 3 2	3 3 2	3 3 2	7 3 3 2	7 3 3 2	7 3 3 2	7 3 3	7 3 3	7 3 3	7 3 3
7 8 X X	7 8 X X	7 8 X X	8 X X	8 X X	8 X X	8 X X	8 X X 1	8 X X 1	8 X X 1
7 8 X X	7 8 X X	7 8 X X	8 X X	8 X X	8 X X	8 X X 2	8 X X 2	8 X X 2	8 X X 2
5 5 6 6	5 5 6 6	5 5 6 6	5 5 6 6	5 5 6 6	5 5 6 6	5 5 6 6	5 5 6 6	5 5 6 6	5 5 6 6
7 4 4	7 4 4	8 7 4 4	8 7 4 4	8 7 4 4	8 7 4 4	8 7 4 4	8 7 4 4	8 7 4 4	8 7 4 4
7 3 3	7 3 3	8 7 3 3	8 7 3 3	8 7 3 3	8 7 3 3	8 7 3 3	8 7 3 3	8 7 3 3	8 7 3 3
8 X X 1	8 X X 1	X X 1	X X 1	X X 1	X X 2 1	X X 2 1	X X 2 1	X X 2 1	X X 2 1
8 X X 2	8 X X 2	X X 2	X X 2	X X 2	X X	X X 6 6	X X 6 6	X X 6 6	X X 6 6
5 5 6 6	5 5 6 6	5 5 6 6	5 5 6 6	5 5 6 6	5 5 6 6	5 5	5 5	X X 5 5	X X 5 5
8 7 4 4	8 7 4 4								
8 7 3 3	8 7 3 3								
2 1	2 1								
X X 6 6	X X 6 6								
X X 5 5	X X 5 5								

# Dads Puzzler Exchange-Full-Strict Solution

Here is a 69 straight line moves solution; it can be converted to 67 rectilinear moves by combining steps 6/7, 63/64:

X X 3 3	X X 3 3	X X 3 3	3 3	3 3	3 3 4 4	3 3 4 4	3 3 4 4	3 3 4 4	3 3 4 4
X X 4 4	X X 4 4	X X 4 4	X X 4 4	X X 4 4	X X	X X 1	X X 1	X X 1	X X 1
1 2	1 2	1 2	X X 1 2	X X 1 2	X X 1 2	X X 2	X X 2	X X 2	X X 2
7 8 5 5	7 8 5 5	7 8 5 5	7 8 5 5	7 8 5 5	7 8 5 5	7 8 5 5	7 8 5 5	7 8 5 5	7 8 5 5
7 8 6 6	7 8 6 6	7 8 6 6	7 8 6 6	7 8 6 6	7 8 6 6	7 8 6 6	7 8 6 6	7 8 6 6	7 8 6 6
3 3 4 4	3 3 4 4	3 3 4 4	3 3 4 4	3 3 4 4	3 3 4 4	3 3 4 4	3 3 4 4	3 3 4 4	3 3 4 4
7 X X 1	7 X X 1	7 X X 1	7 X X 1	7 X X 1	7 X X	7 X X	7 X X	7 X X	8 7 X X
7 X X 2	7 X X 2	7 X X 2	7 X X 2	7 X X	7 X X	7 X X	7 X X	7 X X	8 7 X X
8 5 5	8 5 5	8 5 5	8 5 5	8 5 5	8 5 5 1	8 5 5 1	8 5 5 1	8 5 5 1	5 5 1
8 6 6	8 6 6	8 6 6	8 6 6	8 6 6 2	8 6 6 2	8 6 6 2	8 6 6 2	8 6 6 2	6 6 2
3 3 4 4	3 3 4 4	3 3 4 4	3 3 4 4	3 3 4 4	3 3 4 4	3 3 4 4	3 3 4 4	3 3 4 4	3 3
8 7 X X	8 7 X X	8 7 X X	8 7 X X	8 7 X X	8 7 X X	8 7 X X	8 7 X X	8 7	8 7 4 4
8 7 X X	8 7 X X	8 7 X X	8 7 X X	8 7 X X	8 7 X X	8 7 X X	8 7 X X	8 7 X X	8 7 X X
5 5 1	5 5 1	5 5 1 2	5 5 1 2	1 2	1 2	1 2	1 2 X X	1 2 X X	1 2 X X
6 6 2	6 6 2	6 6	6 6	5 5 6 6	5 5 6 6	5 5 6 6	5 5 6 6	5 5 6 6	5 5 6 6
3 3	7 3 3	7 3 3	8 7 3 3	8 7 3 3	8 7 3 3	8 7 3 3	8 7 3 3	8 7 3 3	8 7 3 3
8 7 4 4	8 7 4 4	8 7 4 4	8 7 4 4	8 7 4 4	8 7 4 4	8 7 4 4	8 7 4 4	8 7 4 4	8 7 4 4
8 7 X X	8 X X	8 2 X X	2 X X	1 2 X X	1 2 X X	1 2 X X	1 2 X X	1 2	1 2
1 2 X X	1 2 X X	1 X X	1 X X	X X	5 5 X X	5 5 X X	5 5 X X	5 5 X X	5 5 X X
5 5 6 6	5 5 6 6	5 5 6 6	5 5 6 6	5 5 6 6	6 6	6 6	6 6 X X	6 6 X X	6 6 X X
8 7 3 3	8 3 3	3 3	3 3	3 3 4 4	3 3 4 4	3 3 4 4	3 3 4 4	3 3 4 4	3 3 4 4
8 7 4 4	8 7 4 4	8 7 4 4	8 7 4 4	8 7	8 7 1	8 7 1 2	8 7 1 2	8 7 1 2	8 7 1 2
1 2	7 1 2	8 7 1 2	8 7 1 2	8 7 1 2	8 7 2	8 7	8 7 X X	8 7 X X	8 7 X X
5 5 X X	5 5 X X	5 5 X X	5 5 X X	5 5 X X	5 5 X X	5 5 X X	5 5 X X	5 5 X X	5 5 X X
6 6 X X	6 6 X X	6 6 X X	6 6 X X	6 6 X X	6 6 X X	6 6 X X	6 6	6 6	6 6
3 3 4 4	3 3 4 4	3 3 4 4	4 4	4 4	4 4 2	4 4 2	4 4 2	4 4 2	8 4 4 2
8 7 1 2	8 1 2	1 2	3 3 1 2	3 3 1 2	3 3 1	3 3 1	3 3 1	3 3 1	8 3 3 1
8 7 X X	8 7 X X	8 7 X X	8 7 X X	8 7 X X	8 7 X X	8 7 X X	8 7 X X	8 7 X X	7 X X
X X	7 X X	8 7 X X	8 7 X X	8 7 X X	8 7 X X	8 7 X X	8 7 X X	8 7 X X	7 X X
5 5 6 6	5 5 6 6	5 5 6 6	5 5 6 6	5 5 6 6	5 5 6 6	5 5 6 6	5 5 6 6	5 5 6 6	5 5 6 6
8 4 4 2	8 4 4 2	8 4 4 2	8 4 4	8 4 4	8 4 4	8 4 4	8 4 4	7 8 4 4	7 8 4 4
8 3 3 1	8 3 3 1	8 3 3	8 3 3	8 3 3	8 3 3	8 3 3	8 3 3	7 8 3 3	7 8 3 3
7 X X	7 X X	7 X X	7 X X 2	7 X X 2	7 X X 2	7 X X 2	7 X X 2	X X 2	X X 2
7 X X	7 X X	7 X X 1	7 X X 1	7 X X 1	7 X X 1	7 X X 1	7 X X 1	X X 1	X X 1
5 5 6 6	5 5 6 6	5 5 6 6	5 5 6 6	5 5 6 6	5 5 6 6	5 5 6 6	5 5 6 6	5 5 6 6	5 5 6 6
7 8 4 4	7 8 4 4	7 8 4 4	7 8 4 4	7 8 4 4	7 8 4 4	7 8 4 4	7 8 4 4		
7 8 3 3	7 8 3 3	7 8 3 3	7 8 3 3	7 8 3 3	7 8 3 3	7 8 3 3	7 8 3 3		
X X 2	X X 1 2	X X 1 2	X X 1 2	1 2	1 2	1 2	1 2		
X X 1	X X	X X 6 6	X X 6 6	X X 6 6	X X 6 6	X X 6 6	X X 6 6		
5 5 6 6	5 5 6 6	5 5	5 5	X X 5 5	X X 5 5	X X 5 5	X X 5 5		

# Dads Puzzler Exchange-Full-Strict-All Solution

Here is a 167 straight line moves solution; it can be converted to 165 rectilinear moves by combining steps 6/7, 161/162:

X X 3 3	X X 3 3	X X 3 3	3 3	3 3	3 3 4 4	3 3 4 4	3 3 4 4	3 3 4 4	3 3 4 4
X X 4 4	X X 4 4	X X 4 4	X X 4 4	X X 4 4	X X	X X 1	X X 1	X X 1	X X 1
1 2	1 2	1 2	X X 1 2	X X 1 2	X X 1 2	X X 2	X X 2	X X 2	X X 2
7 8 5 5	7 8 5 5	7 8 5 5	7 8 5 5	7 8 5 5	7 8 5 5	7 8 5 5	7 8 5 5	7 8 5 5	7 8 5 5
7 8 6 6	7 8 6 6	7 8 6 6	7 8 6 6	7 8 6 6	7 8 6 6	7 8 6 6	7 8 6 6	7 8 6 6	7 8 6 6
3 3 4 4	3 3 4 4	3 3 4 4	3 3 4 4	3 3 4 4	3 3 4 4	3 3 4 4	3 3 4 4	3 3 4 4	3 3 4 4
7 X X 1	7 X X 1	7 X X 1	7 X X 1	7 X X 1	7 X X	7 X X	7 X X	7 X X	7 X X
7 X X 2	7 X X 2	7 X X 2	7 X X 2	7 X X	7 X X	7 X X	7 X X	7 X X	8 7 X X
8 5 5	8 5 5	8 5 5	8 5 5	8 5 5	8 5 5 1	8 5 5 1	8 5 5 1	8 5 5 1	8 5 5 1
8 6 6	8 6 6	8 6 6	8 6 6	8 6 6 2	8 6 6 2	8 6 6 2	8 6 6 2	8 6 6 2	6 6 2
3 3 4 4	3 3 4 4	3 3 4 4	3 3 4 4	3 3 4 4	4 4	4 4	4 4 X X	4 4 X X	4 4 X X
7 X X	7 X X	7 X X	7 X X	7 X X	3 3 X X	3 3 X X	3 3 X X	3 3 X X	3 3 X X
8 7 X X	8 7 X X	8 7 X X	8 7 X X	8 7 X X	8 7 X X	8 7 X X	8 7 X X	8 7 X X	8 7 5 5
8 5 5 1	8 5 5 1	8 5 5	8 5 5	8 7 5 5	8 7 5 5	8 7 5 5	8 7 5 5	8 7 5 5	8 7
6 6 2	6 6 2	6 6 2 1	6 6 2 1	6 6 2 1	6 6 2 1	6 6 2 1	6 6 2 1	6 6 2 1	6 6 2 1
4 4 X X	4 4 X X	4 4 X X	4 4 X X	4 4 X X	4 4 X X	4 4 X X	4 4	4 4	3 3 4 4
3 3 X X	3 3 X X	3 3 X X	3 3 X X	3 3 X X	3 3 X X	3 3 X X	3 3 X X	3 3 X X	X X
8 7 5 5	8 7 5 5	8 7 5 5	8 5 5	5 5	5 5	5 5 X X	5 5 X X	5 5 X X	5 5 X X
8 7 1	8 7 2 1	8 7 2 1	8 7 2 1	8 7 2 1	8 7 2 1	8 7 2 1	8 7 2 1	8 7 2 1	8 7 2 1
6 6 2	6 6	6 6	7 6 6	8 7 6 6	8 7 6 6	8 7 6 6	8 7 6 6	8 7 6 6	8 7 6 6
3 3 4 4	3 3 4 4	3 3 4 4	3 3 4 4	3 3 4 4	3 3 4 4	3 3 4 4	3 3	3 3	3 3
5 5 X X	5 5 X X	5 5 X X	5 5 X X	5 5 X X	5 5 X X	5 5 X X	5 5 4 4	5 5 4 4	5 5 4 4
X X	7 X X	8 7 X X	8 7 X X	8 7 X X	8 7 X X	8 7 X X	8 7 X X	8 7 X X	8 7 X X
8 7 2 1	8 7 2 1	8 7 2 1	8 7 2 1	8 7 2	8 7	8 7 X X	8 7 X X	8 7 X X	8 7 X X
8 7 6 6	8 6 6	6 6	6 6	6 6 1	6 6 2 1	6 6 2 1	6 6 2 1	6 6 2 1	6 6 2 1
5 5 3 3	5 5 3 3	5 5 3 3	5 5 3 3	5 5 3 3	5 5 3 3	5 5 3 3	5 5 3 3	5 5 3 3	5 5
4 4	7 4 4	8 7 4 4	8 7 4 4	8 7 4 4	8 7 4 4	8 7 4 4	8 7	8 7	8 7 3 3
8 7 X X	8 7 X X	8 7 X X	8 7 X X	8 7 X X	8 7 X X	8 7 X X	8 7	8 7 4 4	8 7 4 4
8 7 X X	8 X X	X X	6 6 X X	6 6 X X	6 6 X X	6 6 X X	6 6 X X	6 6 X X	6 6 X X
6 6 2 1	6 6 2 1	6 6 2 1	6 6 2 1	2 1	2 1	2 1 X X	2 1 X X	2 1 X X	2 1 X X
5 5	7 5 5	8 7 5 5	8 7 5 5	8 7 5 5	8 7 5 5	8 7 5 5	8 7 5 5	8 7 5 5	8 7 5 5
8 7 3 3	8 7 3 3	8 7 3 3	8 7 3 3	8 7 3 3	8 7 3 3	8 7 3 3	8 7 3 3	8 7 3 3	8 7 3 3
8 7 4 4	8 4 4	4 4	4 4	4 4 X X	4 4 X X	4 4 X X	4 4 X X	4 4 X X	X X
6 6 X X	6 6 X X	6 6 X X	6 6 X X	6 6 X X	6 6 X X	6 6 X X	6 6 X X	X X	4 4 X X
2 1 X X	2 1 X X	2 1 X X	2 1 X X	2 1	2	2 1	2 1	6 6 2 1	6 6 2 1
8 5 5	5 5	5 5	5 5 3 3	5 5 3 3	5 5 3 3	5 5 3 3	5 5 3 3	5 5 3 3	5 5 3 3
8 7 3 3	8 7 3 3	8 7 3 3	8 7	8 7 X X	8 7 X X	8 7 X X	8 7 X X	8 7 X X	8 7 X X
7 X X	8 7 X X	8 7 X X	8 7 X X	8 7 X X	8 7 X X	8 7 X X	8 7 X X	8 7 X X	8 7 X X
4 4 X X	4 4 X X	4 4 X X	4 4 X X	4 4	4 4	4 4 1	4 4 2 1	4 4 2 1	2 1
6 6 2 1	6 6 2 1	6 6 2 1	6 6 2 1	6 6 2 1	6 6 2	6 6	6 6	6 6	4 4 6 6
5 5 3 3	5 5 3 3	5 5 3 3	5 5	5 5	7 5 5	7 5 5	8 7 5 5	8 7 5 5	8 7 5 5
8 7 X X	8 7 X X	8 7	8 7 3 3	8 7 3 3	8 7 3 3	8 7 3 3	8 7 3 3	8 7 3 3	8 7 3 3
8 7 X X	8 7 X X	8 7 X X	8 7 X X	8 7 X X	8 X X	8 1 X X	1 X X	2 1 X X	2 1 X X
2 1	2 1	2 1 X X	2 1 X X	2 1 X X	2 1 X X	2 X X	2 X X	2 X X	X X
4 4 6 6	4 4 6 6	4 4 6 6	4 4 6 6	4 4 6 6	4 4 6 6	4 4 6 6	4 4 6 6	4 4 6 6	4 4 6 6

(continued on the next page)

## Dads Puzzler Exchange-Full-Strict-All Solution, Continued

8 7 5 5 8 7 3 3 2 1 X X 4 4 X X 6 6	8 7 5 5 8 7 3 3 2 1 X X 4 4 X X 6 6	8 7 5 5 8 7 3 3 2 1 4 4 X X 6 6 X X	8 7 5 5 8 7 3 3 2 4 4 X X 6 6 X X	8 7 5 5 8 7 3 3 2 1 4 4 X X 6 6 X X	8 5 5 8 7 3 3 7 2 1 4 4 X X 6 6 X X	5 5 8 7 3 3 8 7 2 1 4 4 X X 6 6 X X	5 5 8 7 3 3 8 7 2 1 4 4 X X 6 6 X X	5 5 3 3 8 7 8 7 2 1 4 4 X X 6 6 X X
5 5 3 3 8 7 1 8 7 2 4 4 X X 6 6 X X	5 5 3 3 8 7 2 1 8 7 4 4 X X 6 6 X X	5 5 3 3 8 7 2 1 8 7 X X 4 4 X X 6 6	5 5 3 3 8 7 2 1 8 7 X X 4 4 X X 6 6	5 5 3 3 8 7 2 1 8 7 X X 4 4 6 6 4 4 6 6	5 5 3 3 8 2 1 8 7 X X 7 X X 4 4 6 6	5 5 3 3 2 1 8 7 X X 8 7 X X 4 4 6 6	3 3 5 5 2 1 8 7 X X 8 7 X X 4 4 6 6	3 3 5 5 2 1 8 7 X X 8 7 X X 4 4 6 6
3 3 1 5 5 2 8 7 X X 8 7 X X 4 4 6 6	3 3 2 1 5 5 8 7 X X 8 7 X X 4 4 6 6	3 3 2 1 5 5 X X 8 7 X X 8 7 4 4 6 6	3 3 2 1 5 5 X X 8 7 X X 8 7 6 6 4 4	3 3 2 1 5 5 X X 8 7 X X 8 7 6 6 4 4	3 3 2 1 5 5 X X 8 7 5 5 8 7 6 6 7 4 4	3 3 2 1 5 5 X X 8 7 5 5 8 7 6 6 8 7 4 4	3 3 2 1 X X 5 5 X X 8 7 6 6 8 7 4 4	2 1 3 3 X X 5 5 X X 8 7 8 7 5 5 4 4 6 6
2 1 3 3 X X 5 5 X X 8 7 6 6 8 7 4 4	2 1 3 3 X X 5 5 X X 8 7 6 6 8 7 4 4	2 1 X X 3 3 X X 5 5 8 7 6 6 8 7 4 4	2 1 X X 3 3 X X 5 5 8 7 6 6 8 7 4 4	2 1 X X 3 3 X X 7 5 5 8 7 6 6 8 4 4	2 1 X X 3 3 X X 8 7 5 5 8 7 6 6 4 4	2 1 X X 3 3 X X 8 7 5 5 8 7 6 6 4 4	2 1 X X 3 3 X X 8 7 5 5 8 7 4 4 6 6	2 1 X X 3 3 X X 8 7 8 7 5 5 4 4 6 6
2 1 3 3 X X 8 7 X X 8 7 5 5 4 4 6 6	2 1 3 3 X X 8 7 X X 8 7 5 5 4 4 6 6	2 1 3 3 X X 8 7 X X 8 7 5 5 4 4 6 6	3 3 2 1 3 3 X X 8 7 X X 8 7 5 5 4 4 6 6	3 3 2 1 7 X X 8 7 X X 8 5 5 4 4 6 6	3 3 2 1 8 7 X X 8 7 X X 5 5 4 4 6 6	3 3 2 1 8 7 X X 8 7 X X 4 4 5 5 6 6	3 3 2 1 8 7 X X 8 7 X X 4 4 5 5 6 6	3 3 2 1 8 7 X X 8 7 X X 4 4 6 6 5 5
3 3 2 1 8 7 8 7 X X 4 4 X X 6 6 5 5	3 3 2 8 7 1 8 7 X X 4 4 X X 6 6 5 5	3 3 8 7 2 1 8 7 X X 4 4 X X 6 6 5 5	3 3 8 7 2 1 8 7 X X 4 4 X X 6 6 5 5	7 3 3 8 7 2 1 8 4 4 4 4 X X 6 6 5 5	8 7 3 3 8 7 2 1 8 4 4 1 4 4 X X 6 6 5 5	8 7 3 3 8 7 2 1 8 4 4 1 4 4 X X 6 6 5 5	8 7 3 3 8 7 2 1 8 4 4 1 6 6 X X 5 5	8 7 3 3 8 7 2 1 8 4 4 1 6 6 X X 5 5
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3 3 2 1 8 7 4 4 8 7 X X 6 6 X X 5 5	3 3 2 1 8 7 4 4 8 7 X X X X 6 6 5 5	3 3 2 1 8 4 4 8 7 X X 7 X X 6 6 5 5	3 3 2 1 8 4 4 8 7 X X 7 X X 6 6 5 5	3 3 2 8 4 4 1 8 7 X X 7 X X 6 6 5 5	3 3 2 8 4 4 1 8 7 X X 7 X X 6 6 5 5	3 3 2 8 4 4 1 8 7 X X 7 X X 6 6 5 5	8 3 3 2 8 4 4 1 7 X X X X 1 6 6 5 5	8 3 3 2 8 4 4 1 7 X X X X 1 6 6 5 5
8 3 3 2 8 4 4 1 7 X X 7 X X 6 6 5 5	8 3 3 2 8 4 4 7 X X 7 X X 1 6 6 5 5	8 3 3 8 4 4 7 X X 2 7 X X 1 6 6 5 5	8 3 3 8 4 4 7 X X 2 7 X X 1 6 6 5 5	8 3 3 8 4 4 7 X X 2 7 X X 1 6 6 5 5	8 3 3 8 4 4 X X 2 X X 1 6 6 5 5	7 8 3 3 7 8 4 4 X X 2 X X 1 6 6 5 5	7 8 3 3 7 8 4 4 X X 2 X X 1 6 6 5 5	7 8 3 3 7 8 4 4 X X 2 X X 1 6 6 5 5
7 8 3 3 7 8 4 4 X X 1 2 X X 6 6 5 5	7 8 3 3 7 8 4 4 X X 1 2 X X 5 5 6 6	7 8 3 3 7 8 4 4 X X 1 2 X X 5 5 6 6	7 8 3 3 7 8 4 4 1 2 X X 5 5 X X 6 6	7 8 3 3 7 8 4 4 1 X X 5 5 X X 6 6	7 8 3 3 7 8 4 4 1 2 X X 5 5 X X 6 6			