

# Square Dance

In each room, there are four boxes that need to be pushed into holes (which are black floor tiles) for storage. You enter the room on the green square, and have to leave by the red square once all the boxes have been cleaned. Unfortunately, you have completely forgotten where all the boxes are and are only left with a set of dance instructions, consisting of four moves:  $\uparrow$ ,  $\rightarrow$ ,  $\downarrow$ ,  $\leftarrow$ . You decide to follow them and hope for the best.

Starting on the green square, with each move you either travel one square in the given direction, or, if there is a box directly in your path, the box is pushed one square in the given direction, while you remain stationary. Boxes cannot be pushed into other boxes, but can be pushed over green, red, and normal floor tiles, as well as boxes already in holes. Likewise, you cannot walk over boxes and holes, but can otherwise travel over any floor tile, or a box already in a hole.

Miraculously, simply by starting on the green square and following these moves, you manage to clean up every single box, and leave each room by the red square! It would've helped if you had known where the boxes were, though.

1.  $\rightarrow \uparrow \rightarrow \rightarrow \downarrow \leftarrow \leftarrow \leftarrow \leftarrow \leftarrow \leftarrow \uparrow \uparrow \uparrow \uparrow \uparrow \uparrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \downarrow \downarrow \downarrow \downarrow \downarrow$
2.  $\rightarrow \uparrow \rightarrow \rightarrow \uparrow \leftarrow \leftarrow \leftarrow \uparrow \rightarrow \uparrow \leftarrow \leftarrow \leftarrow \leftarrow \downarrow \downarrow \downarrow \downarrow \downarrow \rightarrow \downarrow \downarrow$
3.  $\downarrow \downarrow \leftarrow \downarrow \leftarrow \uparrow \downarrow \rightarrow \rightarrow \rightarrow \rightarrow \uparrow \uparrow \uparrow \rightarrow \uparrow \uparrow \uparrow \uparrow \leftarrow \downarrow \leftarrow \leftarrow \leftarrow \uparrow \rightarrow \uparrow \uparrow$
4.  $\uparrow \uparrow \rightarrow \uparrow \rightarrow \uparrow \uparrow \leftarrow \leftarrow \leftarrow \leftarrow \leftarrow \downarrow \rightarrow \rightarrow \rightarrow \downarrow \rightarrow \uparrow \rightarrow \downarrow \downarrow \downarrow \downarrow \downarrow \rightarrow \uparrow \uparrow \uparrow \leftarrow \leftarrow \uparrow \uparrow \leftarrow$
5.  $\uparrow \leftarrow \leftarrow \uparrow \uparrow \leftarrow \uparrow \rightarrow \rightarrow \rightarrow \uparrow \uparrow \leftarrow \downarrow \leftarrow \downarrow \rightarrow \downarrow \leftarrow \leftarrow \leftarrow \uparrow \leftarrow \uparrow \leftarrow \downarrow \downarrow \leftarrow \uparrow \leftarrow \leftarrow \downarrow \downarrow \downarrow \downarrow \downarrow$   
 $\rightarrow \rightarrow \rightarrow \uparrow \rightarrow \rightarrow \rightarrow$
6.  $\leftarrow \downarrow \downarrow \downarrow \downarrow \leftarrow \leftarrow \downarrow \uparrow \uparrow \leftarrow \downarrow \downarrow \downarrow \downarrow \downarrow \downarrow \rightarrow \rightarrow \rightarrow \rightarrow \uparrow \rightarrow \uparrow \leftarrow \uparrow \uparrow \uparrow \rightarrow \uparrow \rightarrow \downarrow \rightarrow \uparrow \downarrow$
7.  $\rightarrow \rightarrow \rightarrow \rightarrow \uparrow \leftarrow \leftarrow \uparrow \leftarrow \leftarrow \leftarrow \uparrow \uparrow \leftarrow \uparrow \uparrow \rightarrow \rightarrow \rightarrow \rightarrow \downarrow \rightarrow \rightarrow \downarrow \rightarrow$
8.  $\rightarrow \rightarrow \downarrow \rightarrow \rightarrow \rightarrow \leftarrow \uparrow \uparrow \rightarrow \downarrow \downarrow \downarrow \leftarrow \downarrow \downarrow \rightarrow \uparrow \rightarrow \rightarrow \uparrow \uparrow \uparrow \rightarrow \downarrow \downarrow \downarrow \leftarrow \leftarrow \uparrow \uparrow \rightarrow \leftarrow \leftarrow$
9.  $\uparrow \uparrow \leftarrow \uparrow \rightarrow \downarrow \downarrow \leftarrow \leftarrow \leftarrow \leftarrow \uparrow \leftarrow \uparrow \leftarrow \uparrow \leftarrow \uparrow \uparrow \rightarrow \rightarrow \uparrow \rightarrow \rightarrow \downarrow \rightarrow \rightarrow$

		1						2						3		
	W	Q	U			G		H	S	U		U			B	
I	X	O	D	E		N		A	R	P		A	L			D
S	U	P	K				D	O	N	I		Z	E	R	S	A
D	T	L	F	A			W	D	S	U		N	D	N	V	R
		S	E					K	R	Z		T	G	C	Y	
		4						5						6		
		S	Y					S	R	I		L	Y		C	
M	K	P	N	D		B	O	F	C	E		A	I	N	R	
H	D	S	D	O		N	O	L	G	R		L	G	E	D	T
R				D		C	A	H	O			U	A	N	P	R
C	E	G	A	N			C	D					J	B		
		7						8						9		
D	M	X	S				A	L	I			V	U	P	C	
Y	E	A				F	B	H	S	U		R	I		E	
Q	D		C	P			O	K	F	N		B	D		F	S
E		G	T	L		Z	B	I	A			O	T	M	U	G
	R	N	H	I		D	M	P				N	A	E		