Start with the cubes placed on the board according to their color, and then move the purple cube in the upper left corner to the lower right corner in such a way that pieces of the same color never touch each other along a side. The two purple blocks may not touch, but are different shades of purple allow one to keep track of which is the one that started in the upper left.

Includes a 24 move solution; Hordern presents a minimal 22 move solution:

G Y O Y G P Y O P G O G O Y G P Y O P G Y P

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