1116-47-351 Stephan Ramon Garcia* (stephan.garcia@pomona.edu), Department of Mathematics, Pomona College, 610 N College Ave, Claremont, CA 91711. Two remarks on similarity. If $A$ and $B$ are normal, is $A B$ similar to $B A$ ? Even in finite dimensions, this is a subtle and interesting problem with lots of nice variants. We also consider the problem of characterizing matrices that are similar to partial isometries. This is joint work with David Sherman. (Received August 26, 2015)

