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David E. Dobbs*, Department of Mathematics, University of Tennessee, Knoxville, Tennessee 37996-1320, Knoxville, TN 37996-1320. *When the juxtaposition of two minimal ring extensions produces no new intermediate rings.*

Let $R \subset S$ and $S \subset T$ be minimal ring extensions of (commutative) rings. Jay Shapiro and the author recently gave 13 mutually exclusive conditions on these minimal ring extensions and their crucial maximal ideals to characterize when $R \subset T$ satisfies FIP, that is, when $R \subset T$ has only finitely many intermediate rings. Here it is shown that exactly two of these 13 conditions imply that S is the only ring properly contained (via unital ring extensions) between R and T . Moreover, if one assumes, in addition, that R is quasi-local, it is shown that exactly two of the other 11 conditions imply that S is the only ring properly contained between R and T . In all, there are seven (of the 13) conditions which each implies that S is not the only ring properly contained between R and T . Also, for four of the 13 conditions, some examples satisfying the condition are such that S is the only ring properly contained between R and T while other examples satisfying the condition do not have this feature. (Received September 08, 2016)