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T.Y. Lam and **Pace P. Nielsen*** (pace@math.byu.edu), Department of Mathematics, Brigham Young University, Provo, UT 84602. *Jacobson's Lemma, Drazin Inverses, and Strongly Clean Rings.*

If a ring element $\alpha = 1 - ab$ is Drazin invertible, so is $\beta = 1 - ba$. There is a simple formula for the Drazin inverse. We derive a new proof of this fact, which generalizes to many more cases. For example, we show that $1 - ab$ is strongly clean if and only if $1 - ba$ is also strongly clean. Examples are provided showing connections to commuting idempotents. (Received January 22, 2013)