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Jeffrey A. Ehme* (jehme@spelman.edu), Spelman College, Mathematics Department, 350 Spelman Lane SW, Atlanta, GA 30314. *Locating Large Primes Promptly.*

Many public key cryptosystems depend on the ability to quickly find large random prime numbers. The Miller Rabin test is an excellent method for finding these primes which uses accessible mathematics from introductory abstract algebra. For this presentation, we discuss the Miller Rabin test, how it fits into an Abstract Algebra course, along with some generalizations and class projects. (Received September 05, 2014)