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Passwords are used in daily life, to prove identity or to allow access to a resource. When logging in to a computer and entering the password, the computer checks the user's identity and then grants access. Storing the passwords can be dangerous, thus the solution is encrypting before storing them. In this paper we will present a few ways of encrypting the passwords, as well as a few attacks on them. We will focus on the birthday attack which is accomplished through the use of hash functions. (Received September 01, 2011)