

Analyzing the effect of the weight of the mass on
the distance travelled by a projectile on a
trebuchet

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1 Introduction

Ever since I was a young child I've wanted to break, and reverse engineer computers, and everything related to them. Whether it be encryption, or the hardware I've wanted to break it down to its smallest components, and figure out how to reverse it on a dime. In terms of encryption, a lot of badly built programs used a random number generator called a Linear Congruential Generator. This type of number generator is extremely sensitive to input, and does not create truly random numbers, yet they are still often used in cryptographic implementations due to naivete. This causes a lot of encrypted information to be broken, and what not. For this reason I will be investigating a better, and quicker method to determining the input parameters to an LCG.