Problem 23

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Lehmer LCG Equation
$$x_i \leftarrow x_{i-1} * a \mod m$$

When m=6, the parameters that maximize the period of a Lehmer linear congruential generator are:

$$a = 5, x_0 = 2.$$

With these parameters the period is length 2, and is as follows: $x_0=2,$ $x_1=4,$ $x_2=2,$ $x_3=4,$ $x_4=2,$...