Name:
Read and take notes on the Section 16.6 Blum-Blum-Shub Generator.
Reading Questions
1. Let $p = 3$, $q = 7$, and $s_0 = 12$.
(a) Compute the first five terms of the sequence s_i given by the recursive formula $s_{i+1} = s_i^2 \% pq$
(b) Compute the first five terms of the sequence b_i given by $b_i = s_i \%$ 2.
2. Let $p = 7$, $q = 11$, and $s_0 = 8$.
(a) Compute the first ten terms of the sequence s_i given by the recursive formula $s_{i+1} = s_i^2 \% pq$.
(b) Compute the first ten terms of the sequence b_i given by $b_i = s_i \% 2$.
(c) What is the period of this eventually periodic sequence?

3. Let p=5279, q=7103, and $s_0=27$. Given that $s_{i+1}=s_i^2~\%~pq$ for $i\geq 0$, compute the first fifteen terms of the sequence b_i given by $b_i=s_i\%~2$.

4. What struck you in this reading? What is still unclear? What remaining questions do you have?