Exercise F  Show that 2 is a quadratic residue mod 107. (Note 107 is prime.) Find the square roots of 2 in modulus 107.

Exercise G  Show that 21 is a quadratic residue mod 37. (Note 37 is prime.) Find the square roots of 21 in modulus 37.

Exercise H  The integer 1260 factors as $2^23^257$. Compute $\varphi(1260)$ and $\lambda(1260)$.

Exercise I  What is the smallest possible value of $\varphi(n) / n$ for any integer $n$ with $2 \leq n \leq 10000$. For what value(s) of $n$ is this minimum attained?