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The popularity of values of Euler's function
For each positive integer $m$, let $N(m)$ denote the number of $\phi$-preimages of $m$, where $\phi$ is Euler's totient function. For example, $N(12)=6$, corresponding to the six preimages $13,21,26,28,36$, and 42 . We discuss several statistical questions concerning $N(m)$ - for instance, its average size, its maximal order, and the typical size of $N(\phi(k))$ as $k$ varies.

