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The popularity of values of Euler's function

For each positive integer m, let N(m) denote the number of ϕ -preimages of m, where ϕ 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.