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Denominators of algebraic numbers in a number field
For any algebraic number $\gamma$, let $g(x)$ be the unique irreducible polynomial with integral coefficients, whose leading coefficient $c(\gamma)$ is positive, such that $g(\gamma)=0$. Let $d(\gamma)$ be the denominator of $\gamma$. We fix a number field $K$, a prime $p$, a positive integer $k$ and we study the set of values of $v_{p}(c(\gamma))$, when $\gamma$ runs in the set of the primitive elements of $K$ over $\mathbb{Q}$, such that $v_{p}(d(\gamma))=k$. We connect this set to the splitting types of $p$.

