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Variations of Artin's conjecture

Let a be a fixed integer. We study $i_a(p) := [(\mathbb{Z}/p\mathbb{Z})^* : \langle a \mod p \rangle]$, the index of a modulo p. Particular attention will be given to Artin's conjecture. Time permitting, we will discuss some relations between $i_a(p)$ and the order of a modulo p.