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Let $(G, +)$ be a finite group written additively, but not necessarily abelian, and let S be a subsemigroup of endomorphisms of G . The set $M_S(G) = \{f : G \rightarrow G \mid f(0) = 0 \text{ and } f \circ s = s \circ f \text{ for all } s \in S\}$ forms a nearring under pointwise addition and function composition. The simplicity of the nearring $M_S(G)$ is investigated when S is the set of all inner automorphisms, automorphisms, or endomorphisms of G . (Received September 21, 2007)