

# Classical left regular left quotient ring of a ring and its semisimplicity criteria

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Let  $R$  be a ring,  $C$  and  $L$  be the set of regular and left regular elements of  $R$  ( $C \subseteq L$ ). Goldie's Theorem is a semisimplicity criterion for the classical left quotient ring  $Q_{l,cl}(R) := C^{-1}R$ . Semisimplicity criteria are given for the classical left regular left quotient ring  $'Q_{l,cl}(R) := L^{-1}R$ . As a corollary, two new semisimplicity criteria for  $Q_{l,cl}(R)$  are obtained (in the spirit of Goldie).