



Math for the people, by the people.

generalized Cartan matrix

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Defines	symmetrizable

A *generalized Cartan matrix* is a matrix A whose diagonal entries are all 2, and whose off-diagonal entries are nonpositive integers, such that $a_{ij} = 0$ if and only if $a_{ji} = 0$. Such a matrix is called *symmetrizable* if there is a diagonal matrix B such that AB is symmetric.