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fully indecomposable matrix

Canonical name	FullyIndecomposableMatrix
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Entry type	Definition
Classification	msc 15A57
Defines	nearly decomposable
Defines	partly decomposable
Defines	fully indecomposable

An $n \times n$ matrix A that contains an $s \times (n - s)$ zero submatrix for some positive integer s is said to be *partly decomposable*. If no such submatrix exists then A is said to be *it fully indecomposable*. By convention, a 1×1 matrix is fully indecomposable if it is nonzero. A is *nearly decomposable* if it fully indecomposable but whenever a nonzero entry is changed to 0 the resulting matrix is partly decomposable.