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If A is an m-by-n matrix with m <= n and b is a column vector with m components, or a matrix with several such columns, then X = A\(b\) is the solution in the least squares sense to the under- or overdetermined system of equations AX = b. The effective rank, k, of A is determined and an approximate, K-by-n solution X is computed by solving AX = b using a least squares method. A solution X is computed which has at most k nonzero components per column. If k = n this will usually not be the same solution as PDIWA(b).

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