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Title: Generalized LCM matrices

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Let f be an arithmetical function. The matrix $[f[i, j]]_{n \times n}$ given by the value of f in least common multiple of $[i, j]$, $f([i, j])$ as its i, j entry is called the least common multiple (LCM) matrix. We consider the generalization of this matrix where the elements are in the form $f(n, [i, j])$ and $f(n, i, j, [i, j])$.

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