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On the Maximum Row and Column Sum Norm of GCD and Related Matrices

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Abstract: We estimate the maximum row and column sum norm of the $n \times n$ matrix,

whose ij entry is $(i,j)^s/[i,j]^r$, where $r,s\in\mathbb{R},\;(i,j)$ is the greatest

common divisor of i and j and $\left[i,j\right]$ is the least common multiple of i and

j.

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