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ON THE CONVERGENCE OF THE SERIES $\sum a_n^{1-x_n/\log(1+n)}$

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Abstract. We show that, for any sequence (a_n) of positive numbers and any bounded sequence (x_n) of real numbers, the series $\sum a_n$ and $\sum a_n^{1-x_n/\log(1+n)}$ either both converge or both diverge.

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