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The Extension of a Cyclic Inequality to the Symmetric Form

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Abstract: Let n be a natural number such that $n \geq 2$, and let a_1, \dots, a_n be positive numbers. Considering the notations

$$S_{i_1 \dots i_k} = a_{i_1} + \dots + a_{i_k},$$

$$S = a_1 + \dots + a_n,$$

we prove certain inequalities connected to conjugate sums of the form:



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