

Problem Set 5

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We first make the following definitions:

$$\begin{aligned} S &:= \sum_{j=1}^{\infty} \sum_{k=1}^{\infty} a_{jk} &= \sup \left\{ \sum_{(j,k) \in B} a_{jk} \mid B \subset \mathbb{N}^2, |B| < \infty \right\} \\ T &:= \sum_{k=1}^{\infty} \sum_{j=1}^{\infty} a_{kj} &= \sup \left\{ \sum_{(k,j) \in C} a_{kj} \mid C \subset \mathbb{N}^2, |C| < \infty \right\}. \end{aligned}$$