Problem Set 5

D. Zack Garza

October 21, 2019

Contents

1 Problem 1

We first make the following definitions:

$$S := \sum_{j=1}^{\infty} \sum_{k=1}^{\infty} a_{jk} = \sup \left\{ \sum_{(j,k) \in B} a_{jk} \ni B \subset \mathbb{N}^2, \ |B| < \infty \right\}$$

$$T := \sum_{k=1}^{\infty} \sum_{j=1}^{\infty} a_{kj} = \sup \left\{ \sum_{(k,j) \in C} a_{kj} \ni C \subset \mathbb{N}^2, \ |B| < \infty \right\}.$$