Lecture 8

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Theorem Suppose that $\sum_{n=1}^{\infty} a_n$ is conditionally convergent. Then $\forall L \in \mathbb{R}, \exists$ rearrangement of $\sum_{n=1}^{\infty} a_n$ that converges to L.

Proof Let x_1 be the smallest natural number such that $p_1 + \cdots + pn_1 > L$.