Hint for Problem 176

For any partition of k into parts λ_1 , λ_2 , etc. we can get a partition of k into odd parts by factoring the highest power of two that we can from each λ_i , writing $\lambda_i = \gamma_i \cdot 2_i^k$. Why is γ_i odd? Now partition k into 2^{k_1} parts of size γ_1 , 2^{k_2} parts of size γ_2 , etc. and you have a partition of k into odd parts.