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Exercise No. 1
Peer-To-Peer Networks
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Exercise 1 *Name three Peer-to-Peer networks in the wild and give a detailed description.*

Exercise 2 *Calculate the expectation, variance, second and third moment of a Pareto distribution where*

1. $\alpha = 1.5$,
2. $\alpha = 2.5$,
3. $\alpha = 3.5$.

Exercise 3 *Give other examples of Pareto, Zipf, or power distributed natural or social phenomena. What is the exponent α ? Compare it with those examples presented in the lecture and explain the differences.*