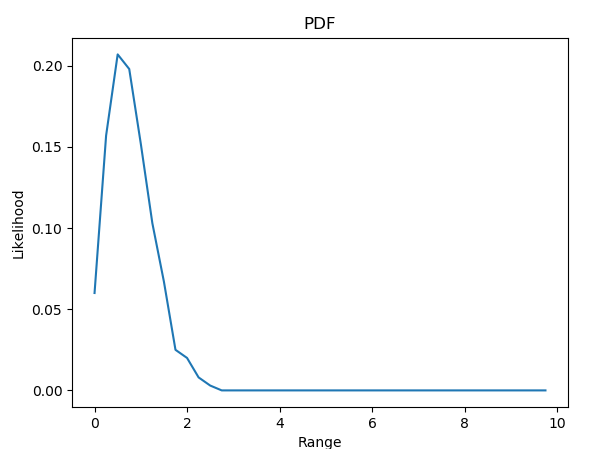
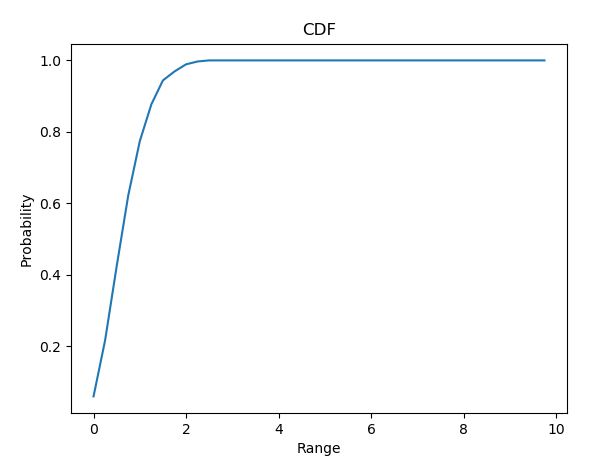
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Empirical distribution



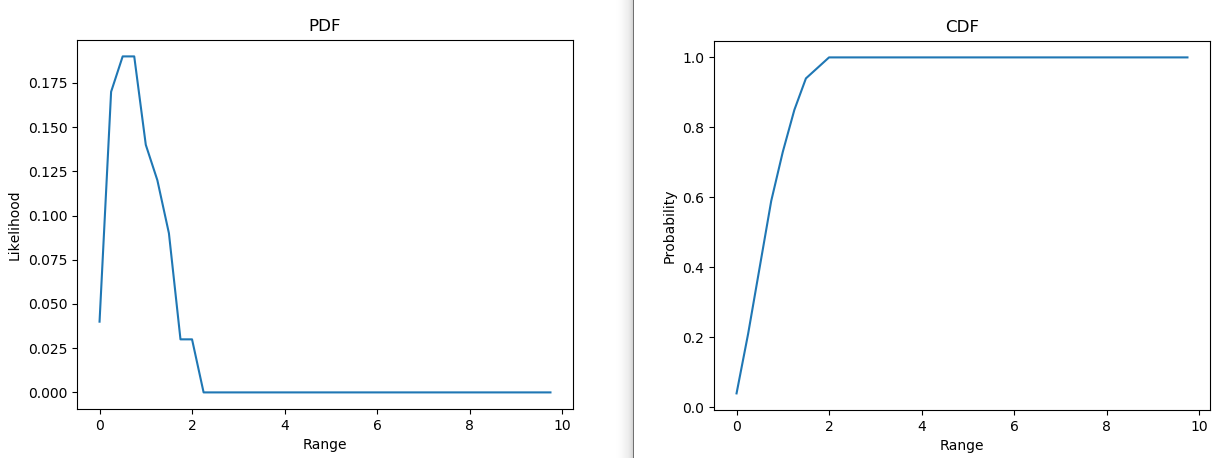
Cumulative distribution



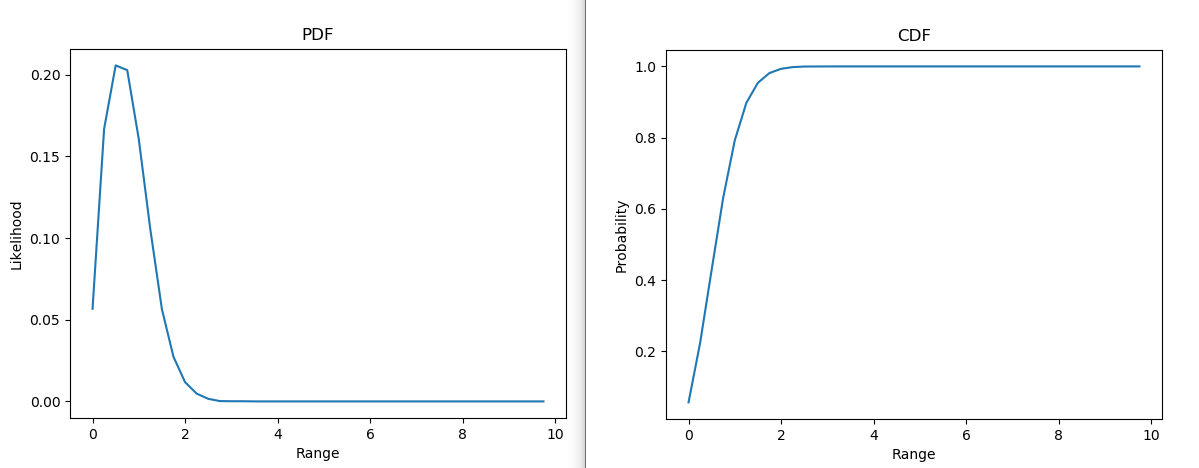
From the pictures we can see that it resembles to a Rayleigh Distribution.

Some extra examples

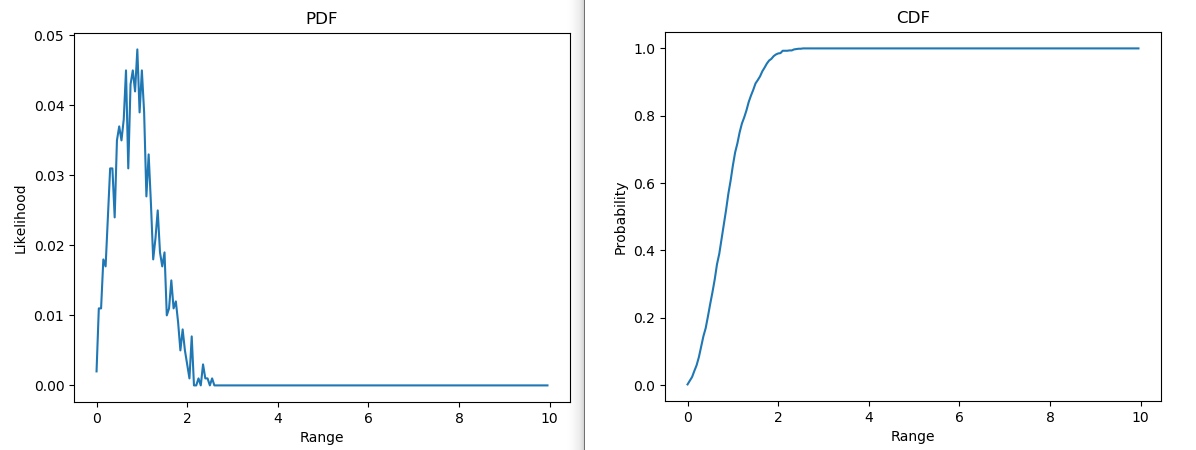
N = 100, delta = 0.25



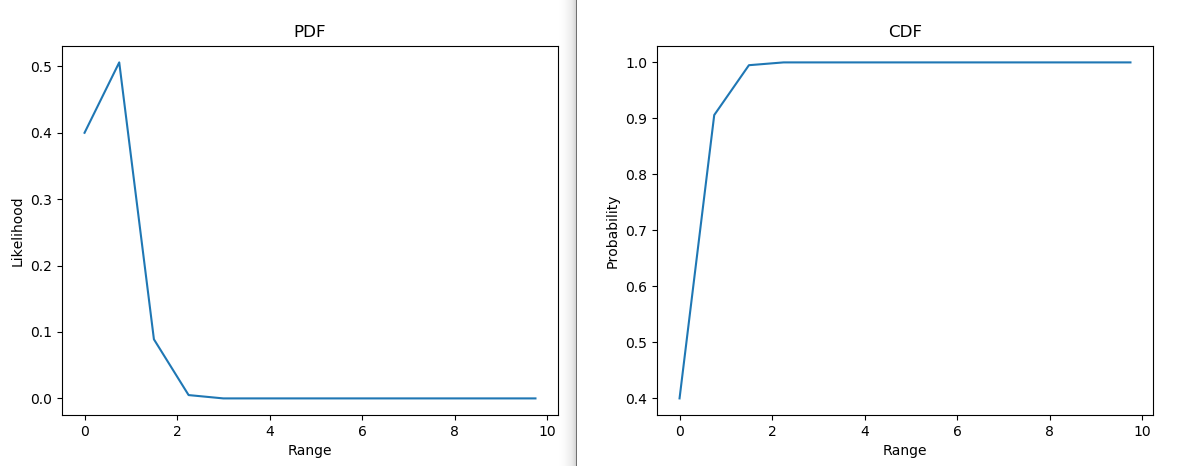
N = 10000, delta = 0.25



N = 1000, delta = 0.05



N = 1000, delta = 0.75



N = 10000, delta = 0.05

