Discussion 6

CUNY MSDS DATA 605

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Libraries

In this section, I will include all libraries needed.

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Book: Grinstead: Introduction to Probability

Exercise

A more refined inequality for approximating n! is given by

$$\sqrt{2\pi n}\left(\frac{n}{e}\right)^n e^{1/(12n+1)} < n! < \sqrt{2\pi n}\left(\frac{n}{e}\right)^n e^{1/(12n)}$$

Write a computer program to illustrate this inequality for n = 1 to 9.

Solution