

# Week-1, Stats 25-26

Srikanth Pai, MSE

July 17, 2025

1. Larsen and Marx (5th ed) Problems 2.2.9, 2.2.14, 2.2.20, 2.2.29, 2.2.36, 2.3.3, 2.3.18, 2.4.9, 2.4.11, 2.4.22, 2.4.30, 2.4.51, 2.5.20, 2.5.30, 2.7.1, 2.7.24.
2. (Challenge) Suppose a fair coin is tossed 10 times, what is the probability that the sequence TTT (a tail followed by a tail followed by a head) does not appear?
3. Make sure that you have read Kolmogorov axioms and all the different proofs of facts that follow the axioms in Larsen and Marx.