Test 1	Bit Paper Share Knowledge
- naive definition of probability and counting techniques - multiplication rule, permutations and combinations with/without replacement	
- inclusion-exclusion formula	
- conditional probability, law of total probability, Bayes' rule	
- discrete random variables and distrubutions	
- pmf and cdf	
- operations with random variables	
- expected value, variance	
- Bernoulli, binomial, geometric, negative binomial, hypergeometric and Poisson distributions	
- continuous random variables	
- pdf cdf - definition and properties	
- pdf, cdf - definition and properties - uniform, exponential and normal distributions	
- Central Limit Theorem	
- approximation of the binomial distribution using the normal distribution	
- random vectors and joint distributions	
- covariance	
- correlation coefficient	
- simulation in R	





