

Stat 134: Section 10

Adam Lucas

September 26, 2018

Problem 1

In Bernoulli (p) trials let V_n be the number of trials required to produce either n successes or n failures, whichever comes first.

- a. Write down the range of possible values of V_n .
- b. Find the distribution of V_n .

Ex 3.4.14 in Pitman's Probability

Problem 2

In Bernoulli(p) trials, let X = number of trials until there are 2 more successes than failures or 2 more failures than successes. Find $P(X = x)$.