4 et & be a RU, with & being the total number of 1- sequenes. Let Xi be indicasur variable whethe an 1- sequence begins at position; Start 30 rodan be the surper of the Breause of the length 1 of an 1-sequence, the largest males an isoquencen sacra is the h. Therelore 5 X' and & inducator variable E(X) = Z E [x,] = Z ?((x,)) The probability to have a consecutive of eather heards or 1 = 2 · 1/2 = 1/2 = 1/2 talls is heads or Hail 1/n = n. 1/n