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Assignment 09
       Task 9.1
           n = 2.600; amount of potential partners
          r € [1,2600]: ranks
            r=1: absolute best applicant when we watch all 2600
       If the woman sees n=5 persons: [3,2,5,1,4]
        After the first 3 persons: [2,1,3], Person 2 is the best so
      The basic idea I have is that she should let pass a
      specific number of applicants. Afther that amount she picks
     who ever is better than applicant A. (My call would be ~ 1)
          x: amount of people shategically rejected
          A: Applicant who was best until x
     The calculation follows the idea that we want to find
     the probability that the xilth applicant is beter than A.
    (For calculation purposes (switch it up: x -> x-1, x+1->x)
              Px = Ex P (best applicant in selected applicant)
    This is what me want to solve. I found a bit of help on the
    mebsite www.cut-the-knot.org.
    We can split that formular with Bayes rule
                         = 2 P (best applicants). P (selected appx.) best app. x.).
    Now me can pull out in and just book at he first x-1 cases
                           5 mp (best of first x-Lapplicants before x)
                        = \( \frac{1}{\text{N}} \\ \frac{1}{\text{L-A}} \\ \fr
 Bach to searching for the Hireshold x that waxinizes Tx.
Three for we need to eatisfy 12 5 xix 5-x = f(x) = (x).

- 0 x x e , so Px is to de . We need to reject . the first . 3.7 applicants.
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