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 $Pr\{N+y=n, X=i\}=(I-P)P^{n-i-1}X(P)(I-P)^{1-1}=P^{2}(I-P)^{n-2}$ $Pr\{N+y=n\}=\sum_{i=1}^{n-1}P^{2}(I-P)^{n-2}=(N-1)(I-P)^{n-3}P^{2}$