Equations (4) and (75) give

$$2 \leq L < 3, \qquad v(L) = 2(L-2)(3-L)/(L-1)^2, \qquad (76)$$

namely, a variance that vanishes at each end of the interval, where $w(L)$ and $u(L)$ both equal unity. This result is readily verified. Yield $y(L)$ unity and $v(L)$ zero for all L in the interval $1 \leq L < 2$ follow from Eqs. (69) and is otherwise evident from the rules. It is readily seen that the rules also imply that if $L=3$, then $y(L)$ is exactly 2 with $v(L)$ zero: After initial contribution to yield of unity, the random cut results in two new initial lengths just one of which provides a further and final contribution of unity. If L is slightly less than 3, then nonzero variance obtains, yields being 2 most of the time and unity a small part of the time, with $y(L)$ slightly less than 2. Similarly, if L is slightly greater than 3, then yields are 2 most of the time and 3 a small part of the time, with $y(L)$ slightly greater than 2 and variance nonzero.

With Eq. (62), the theoretical $y(4)$ furnishes Y quite accurately. The readily obtained solution

$$3 \leq L < 4, \quad y(L) = (L-1)^{-1}[7L-17-4\ln(L-2)] \quad (77)$$

gives $y(4) = 2.7425$, whence follows $Y = 0.7485$, which agrees with the three significant figures of Rényi's result of Eq. (71). A similar procedure based on Eq. (63) could be used to obtain F, but for specified accuracy it would be necessary to calculate $u(L)$ for an L appreciably larger than the L for which $y(L)$ would have to be calculated to give Y with the same accuracy.

ANNOUNCEMENT: ZIP Code Information

THE U. S. Post Office Department has announced that the use of ZIP Codes will be mandatory on all domestic addresses for subscriptions and other mailings by 1 January 1967. Accordingly, the American Institute of Physics has established a procedure for obtaining the necessary information. You are requested to *follow this procedure exactly*.

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