Exercice given at the end of Lecture 4.

If τ is a tree, denote by $\lambda(\tau)$ the number of leaves of τ .

If $n \ge 1$ is an integer, set

 $L_n = \{\tau; \tau \text{ is a plane rooted tree that has } n \text{ leaves and no vertex has exactly one child} \}.$

Find an offspring distribution μ on the nonnegative integers such that a random tree chosen uniformly at random in the set L_n has law $\mathbb{P}_{\mu}(\cdot \mid \lambda(\tau) = n)$.