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The shape of a seed bank tree.

The propose of this work is study the total lenght of a seed bank coalescent. For statistical applications, we are only interested in the part of plants of the tree because the mutations can only occur on this side. To do this we define some useful stopping times like the first time that a plant becomes a seed and the first time that a seed becomes a plant, and we study the block counting process at those times. Also, we will use a connection with the Poisson-Dirichlet distribution to calculate the external branches lenght of the seed bank coalescent.