probablistic data structure

average cost-

10

Generate height =>

* geometric destribution

* bernolli déstribution

Head p Tail 1-p

* number of consecution

heads sein n bernolli

+ vails

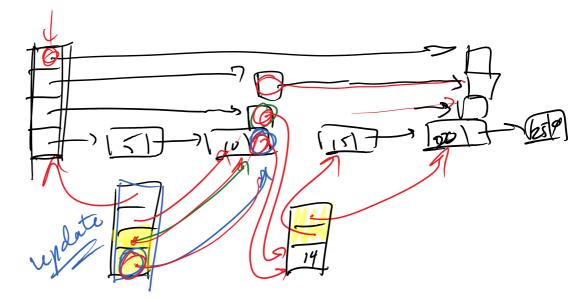
1,2,3,4----100

Perde Rundom Number Generators 2Ch Linear Congruential Consistor

Seed $S_0 = 1234$ $S_1 = (A * S_0 + C) \frac{7}{2}M$

So

X=15



Probability of getting to level k with n rades.

 $P_{K} \leq \frac{1}{a^{k}} + \frac{1}{2^{k}} + \frac{1}{2^{k}} - \frac{1}{2^{k}}$

= 2 × 2 × 2 × Px = N c = constat let K = clog2n Pelagen < Telagen

Seach of Olyn)
Incut
Remove

Aprehation

whether (i) and (i) a