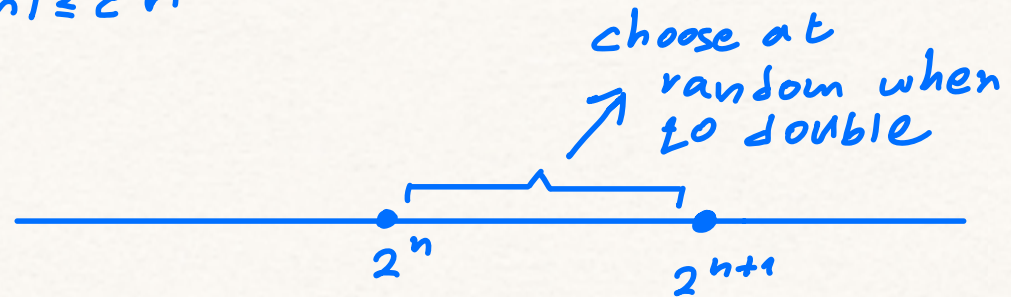# Moris: Space Efficient Algorithm

- Goal: space-efficient counter of events.
- requirement: for any number of events $n$, w.h.p:
  - space $= O(\log \log n)$
  - output $\tilde{n}$ s.t. $|\tilde{n} - n| \leq \varepsilon n$

choose at random when to double

$$2^n \qquad \qquad 2^{n+1}$$

וולד אנשים משכבם נווני לפון