

0 0 0
0 0 0

0 0 0 0 0 0 0 0 0 0

1 0 0 1 0 0 1 1 0 0 1

↑ zeros $n+1$ ones

1 0 0 1 0 0 1 1 0 0 1

- box ends fixed!

- binary sequence
1 zeros $(n-1)$ ones

$$\binom{r+n-1}{n-1}$$

$$= \binom{r+n-1}{r}$$

$$A = \bigcup_{r=1}^{\infty} A_{2^r}$$

A_{2^r} - ¹⁵⁴head on 2^r th
toss

$$\Rightarrow P(A) = \sum_{r=1}^{\infty} P(A_{2r})$$

T T T T T T ... T H



$2r-1$ Ts

then H