k Heads in n tosses

Binomal Prob Dighibuhin b: prob of gething heads (1-p): " " " tails Q(u) $P(n,k) = \begin{pmatrix} n \\ k \end{pmatrix} \begin{pmatrix} k \\ (1-k) \end{pmatrix}$

(5) ways of
gethig 3
boads out
of 5 born

k Heads in n tosses Sub-problem definition & Recurrence

The Coins had prob
$$P_1$$
: P_1 , P_2 , ..., P_n

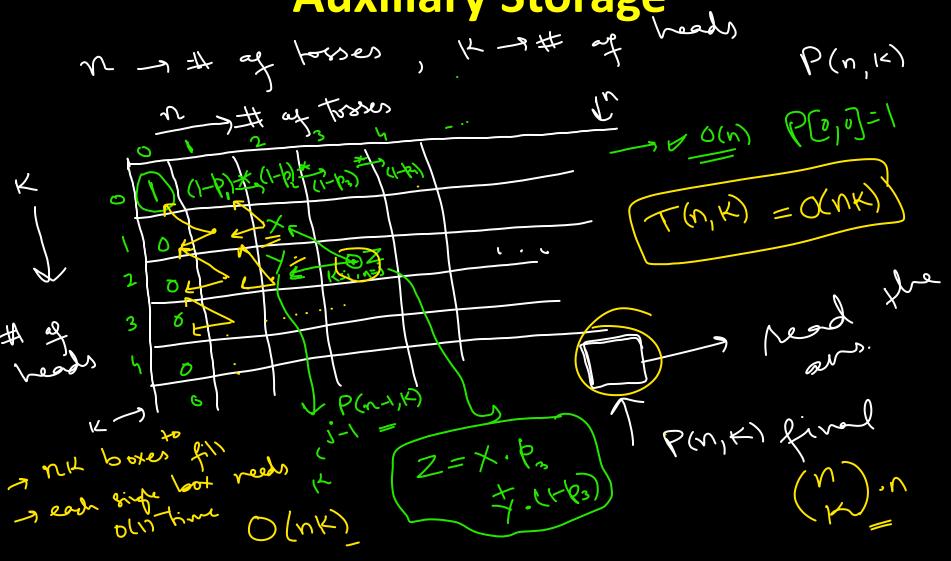
The Coins had prob P_2 : P_1 , P_2 , ..., P_n

(1- P_1), P_2 , ..., P_n

(1- P_1), P_2 , ..., P_n

Prob P_1 , P_2 , P_3 , P_n

k Heads in n tosses Auxiliary Storage



Re currence n 108863 K loods in 6 [1, K]:= | Moh of $P[10,5] = P[9,5] \times (1-p_5)$ P[10,5] P[n, K-1] ~ P(9,4) * Ps P(10,4) P(n-1, K) q bests P[9,7] P[n-1, K-1] P[9,3] 6 heads L How many 5 heads F(n) [ms(i) Ruls-publin-7 m + 533 Listi) / K(i) @ nxxx} a Josses

$$P(n, K) = P(m-1, K-1) * Pn + P(n-1, K) * (1-pn) V$$

$$P(0, 0) = 1 P(1, 1) = P1$$

$$P(n, K) = 0$$

$$K > n$$

$$K > n$$