



Expected revenue

$$\text{revenue} = d(P_1) [P_1 + 0 + 0]$$

$$+ (1-d(P_1)) [0 + d(P_2) [P_2 + 0]$$

$$+ (1-d(P_2)) [0 + d(P_3) [P_3]$$

$$\cancel{+ (1-d(P_3)) [0]}$$

]

let V_t^k be expected revenue if you have k copies left on day t .

Backward induction

$$V_3^1 = d(P_3) \cdot P_3$$

$$V_2^1 = d(P_2) P_2 + (1-d(P_2)) V_3^1$$

$$V_1^1 = d(P_1) (P_1) + (1-d(P_1)) V_2^1$$