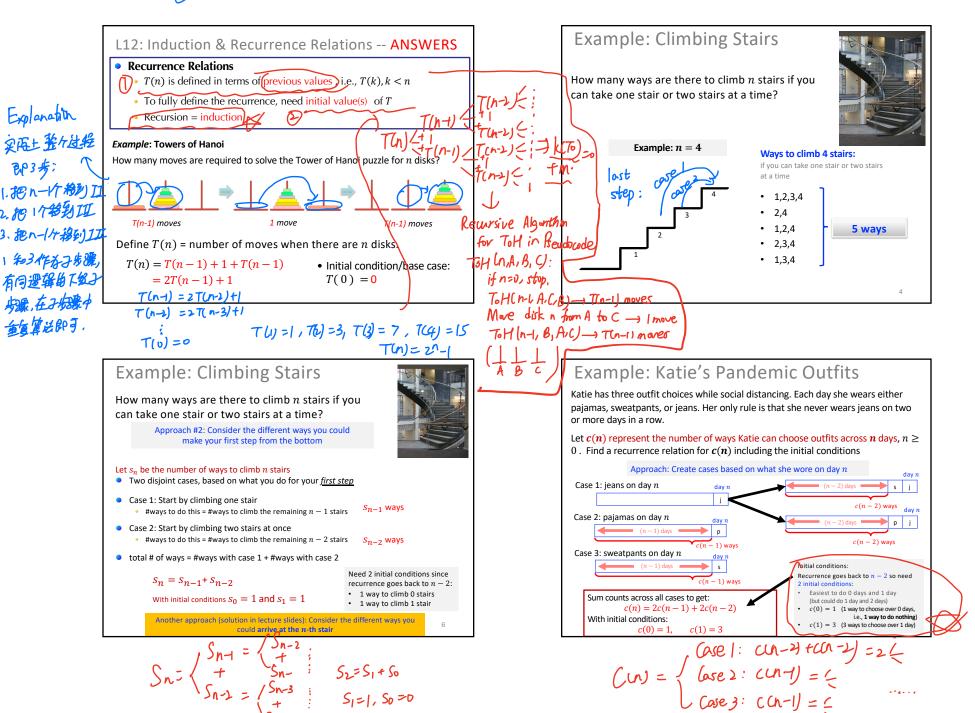
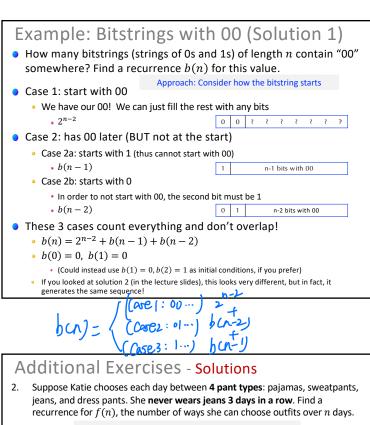
1. Recurrence 2. Recurrence Relations 3. Initial Conditions





Approach 1: Create cases based on what she wore on $\operatorname{\mathsf{day}} n$ Approach 2: Create cases based on what she wore on day 1 Either approach will work here; we'll use the "day 1" approach to get some practice with it. Case 1: pajamas on day 1 Sum across all cases to get: f(n) = 3f(n-1) + 3f(n-2) + 3f(n-3)With initial conditions: Case 2: sweatpants on day 1 f(0) = 1, f(1) = 4, f(2) = 16Case 3: jeans on day 1 3f(n-3) ways Case 4: dress pants on day 1 day n (n-1) days f(n-1) ways



