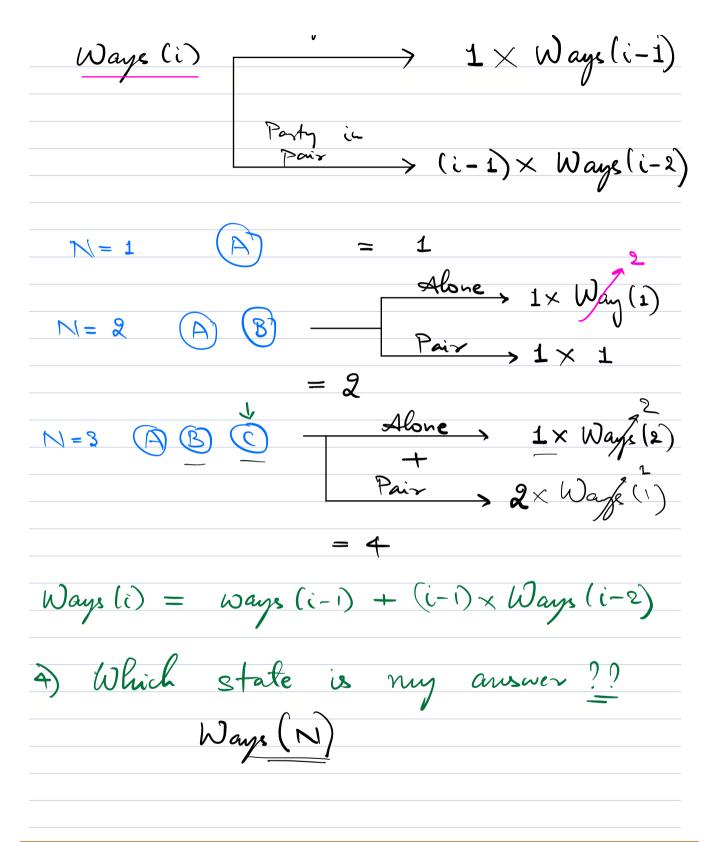
Every person can enjoying the party

2 ways

Enjoy the party alone

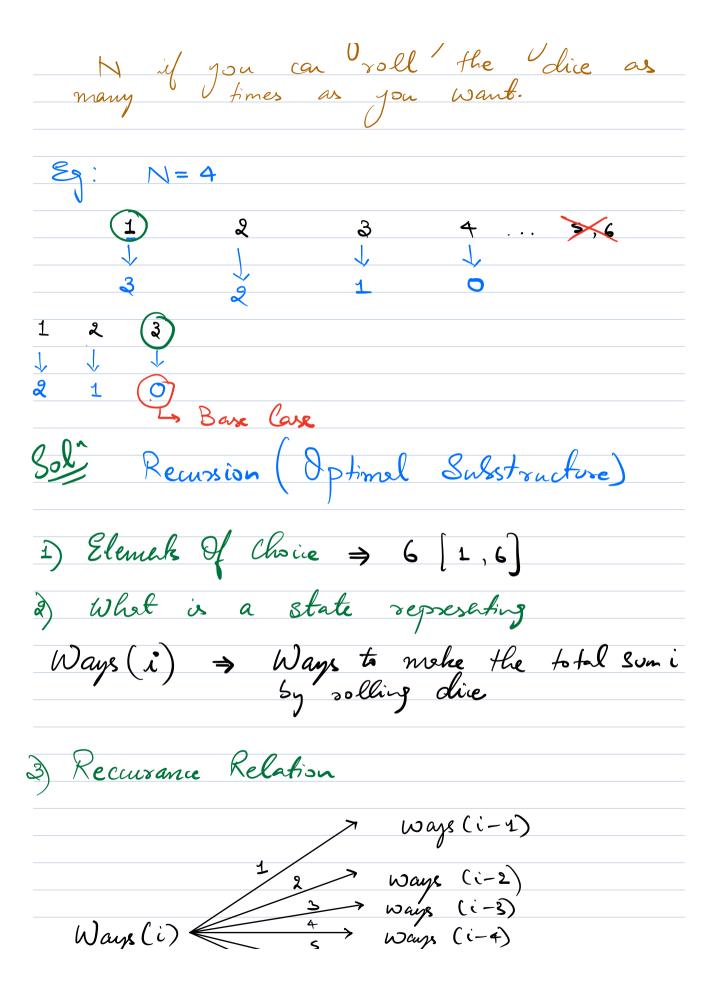
2) Enjoy the party in a pair Find the total no. of ways in which N people can enjoy the party. $N=3 \qquad (A, B, C) = 4$ (A)(B)(c), (AB)(c) (AC)(B), (AB)(BC)Recussion 1) Elements of Choice > Party in pairs. 2) flow to represent state Ways (i) No. of ways in which i people can party 3) Recurrance Relation

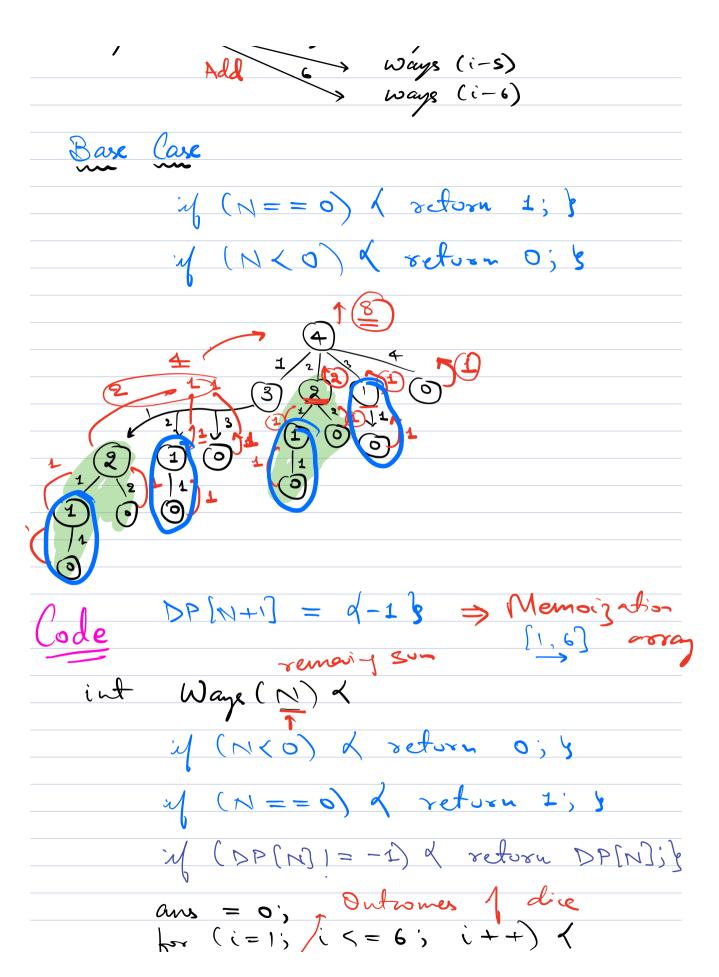
Party Alone



Given a dice (6 faced) & a no. N

Count the no. 1 ways to get a sum





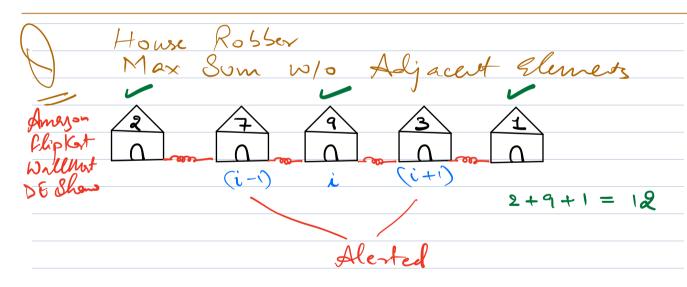
are = are + DP[i-i]



[M]9d

$$T(. = O(N))$$

$$S \cdot C = O(N)$$



Max bot possible

Even: 1+100+1 = 1 + 2 + 101 = 104Kearsion Elements of Choices. (rob or Not 2) What does a state represents. Max loot from the house 1 to ith house. Loot (i) 3) Recurrance Relation Loot (i-2) + A[i] Not rop Max Loot (i)

Avansition (i)
$$\rightarrow$$
 (i-i), (i-2)

$$P[1] = A[0]$$

$$T.C. = O(N)$$

$$S \cdot G \cdot = \mathcal{O}(\tau)$$