M= N 6. sample size & N with kind (B) = N N700 : equal probability (U) >N 10/-N Green in A: {1, 1, 5, 7, 9, 11, 13, 15} U: {9,10,11,12,13,14,15,16} 0: [1,53, 4,5,6,7,1] Let the 5 tickets be 1, toti, ty, ts The case that Stidestruith number i are all green: 9. ty., ts & AUC 1. ty..., es & AUD 21 41, ..., ts & BUD 3 4, ..., es t AVD 11 h, --, 15 EAUU y. ti, .., & + BUD 121 4, ..., to 6 BUC 6. 4, 17 4 K AUD 13, 4,..., to 6 AUC 1. t1, .., ts & BND 14. e,..., to EBUU 1. 4, ... to K AUD 15. 4, ~, ts & AVU 8. t1, -, 45 6 BUD 16. en, .-, to 6 BUC Cun1:

"I half it the tikely in the bag
$$e A \cup D$$

i. $P(t_1,...,t) \in A \cup D = (\frac{1}{2})^5 = \frac{1}{32}$

Cruz: ", half of the while in the bay & BUD 1. P (ty, ", ts eBVD)= (1) = 12 Similarly, for Cust 3, 4, P(ti,.., tr & AUU) = 32 P(4, .., 4 + BUC) = 32 But all of the titleds KAUKBUECUED are sourled repeatedby is mer need to rebetant (4) x4 = too Consider the case that if we have 3 kinds in the 5 linkerts. 1. to, ..., to e [B, c, 0] -> {1,35,1] not all green " = tit {BUC} 21 h, ..., to E [A,C,D] [74,6,6] mt all green i a tie [0] 3. -6, ..., 15 = [A, B, D] [7, 11, 11, 15] not all green i 2 ti & [BUD] 4. 4, ..., to E [A,B,C] [10,12,14,16] not all gream] ; atit [D] This similar for the cases 2~4, and also the case 4,-, to 6 [AB, C, D]