1,3,7,2,1,2,2 10001 10001 0001 30011 xorall -> 314 = Rightmost set bit :> 215 com 1001. 51 - 50 = 50 = 50 51 - 50 = 50 if (arr(i] 2 rsb) -> true num1 n = arr[i] if (arr(i)lrsb) $\rightarrow fake num 2 1 = arr[i]$ 21412 = 47 42 Toggle Campiler Design DMS $\sim 5 \rightarrow 1010$ = 10 -499 = -(-499) - 1 = 498 -6 = 10 500 = -500 - 1 = -501 $-6 \longrightarrow als(-6) = 6 \longrightarrow 0110$ Lynamic Patterns: 3 2 mins 1, 2 = 3 = 8 = 9 10 11 tow = 3 col = 9, 13, 17, 21, 25 and so on ×1 = 3, 7, 11 1.4 = = 3 Even Number 1, 5, 9, 13 7-4==1 Fractional Knapsack :> N -> items $50 - 10 \text{ val} \rightarrow [$ = $40 - 20 \text{ N} = 3, \quad \omega = 50$ = 20kg-2 vol -> [60, 100, 120] Maximize K8 [10, 20, 30] K8 $10 \times 6 + 20 \times 5 + 20 \times 2 \cdot \frac{100}{20} = 5$ 20×5 = 100 60 + 100 + 80 30×4=120=240 kg K How to calculate the fer unit value. vector pais (double, Item) V; Wt pais (6, 60, 10), (5, 100, 20), (4, 120, 30)

For Them For Them The Trem Struct Item Spair, first pur int value; pair. Second Item (V, wt) sint weight; pair.