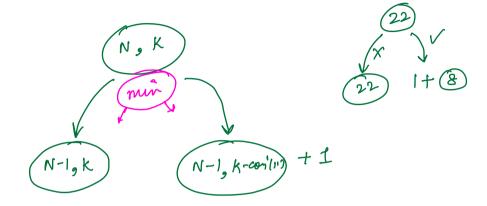
n different de nominations. com shange =  $(K) \Rightarrow$  no of ways to get a charge of k# can't juctude a soin more than once 10 13 - 11 ount no of K=22 4 11 subset sum = K 9 6 dplillijl = no of ways to achieve i shape with i available come apli-131j] dpliligs = ap10)10)=1

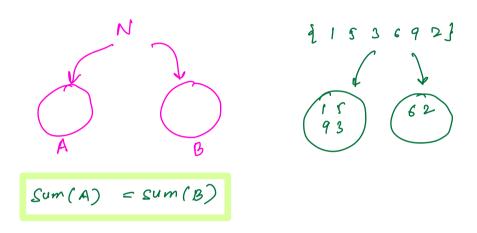
# men no of souns required for sharpe of &

I min no of elements to pick such that subset sum=k



Base con:

- Q areay N'intégres. Divide all clements into two subsets.
  - (i) Find no of ways in which you can divide such that both subsets have equal sum.



# Every element must beloy to one of sets

$$Sum(A) = Sum(B)$$

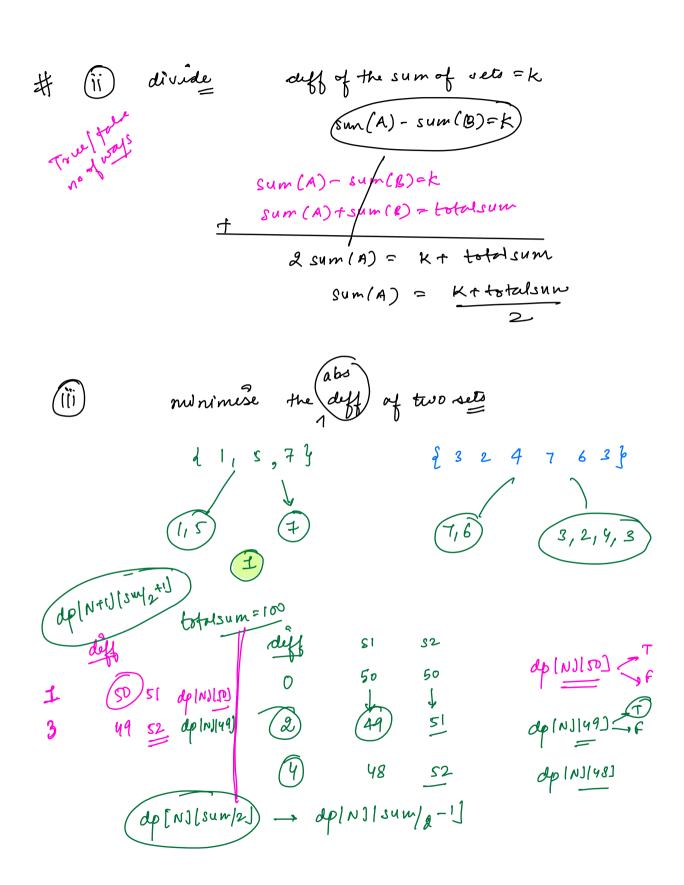
$$Sum(A) + Sum(B) = total sum$$

$$Sum(A) + Sum(A) = total sum$$

$$Sum(A) + sum(A) = totalsum$$
  
 $Sum(A) = totalsum$ 

totalsum is even

3 4



# prepare dp table usig knepsade dp[N+1][sum/2+1] K = sum/2while ( K > = 0) d sf(dp[N][K] = = hue) sl = K; s2 = sum - K;return abs (sl - s2); g

