public int findTargetSumWays(int[] nums, int S) {

if(nums == null || nums.length ==0) return 0;

int sum = 0;

for(int n:nums){

sum+=n;

}

return (sum<S) ||(sum+S)%2 ==1 ? 0 : search(nums,(S+sum)/2);

}

public int search(int[] nums,int s){

int[] dp = new int[s+1];

dp[0] =1;

for(int n:nums){

for(int i=s;i>=n;i--){

dp[i] = dp[i]+dp[i-n];

}

}

return dp[s];

}