Module - 25.5: Practice Problems

1. Write code to solve the problem Partition Equal Subset Sum using
    a. Tabulation
    b. Memoization

2. Write code to solve the problem Target Sum using
    a. Tabulation
    b. Memoization

3. **Unbounded Knapsack:** We solved the problem 0-1 knapsack problem in our theory module where we were only allowed to pick **at most** one item of each type. Let's remove this condition. Now you are allowed to pick an item **any number of times**.

    For example, for the first sample input in the linked problem, we can maximise our sum if we take the second element twice, getting a total sum of **100.**

    Now,
    a. Write the DP state
    b. Write the recursive equations
    c. Write the base case
    d. Explain your **time** and **space** complexity
    e. Write code to solve the problem using both **tabulation** and **memoization** methods.