Midterm 2 S21

Input: We are given n items with positive weights $w_1, \ldots, w_n > 0$, as well as target threshold $W > 0$

Output: the number of subsequences $w_{i_1}, \ldots, w_{i_k}$ such that:

$$\sum_{j=1}^{k} w_{i_j} = W$$

The precise subproblem for this problem would consider the sub-list, such that:

From $T[i, j]$

i = starting index
j = ending index

From this we can find our precise subproblem;

For each starting index i and ending index of j, find the number of subsequences in the sublist of input $A[i, \ldots, j]$ that will add to our weight of W.

From the above this will be our precise subproblem.