Combination Jum
This problem is solved efficiently using backtre chang (DFS).
[Key Olsewesti Ens: 1
1. We can seuve each candidate unlimited temes.
1. Combinations just le renique-order does not matter, sour
avoid permutations by:
Processing condédates in sorted ordes.
· Passing an endex to ensure we don't sevisit previous numbers.
Tteps:
1. Port candidates (optional, helps pruning). 2. Ux recursive offs (molex, current Sum, path):
2. Ux recursive offs (molex, current Sum, patt):
· Box cax : if current Sum == target, store patt.
If current Sum > target or inclex = = condidates size (), seturn.
3. For each candidate at position i:
Include it (stay at i since unlimited usage allowed). • Exclude it (move to i+1).
· Exclude it (move to i+1).
(<u>Comslexity:</u> Trine: Petentially exponenteal (O (2 ⁴)) best pruned by target constraint Trace: O(target) secursión dest4.
"Vine: Petentially exponenteal (0 (2")) but pruned by target constraint
· Space: O(target) secursión destt.

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