**Subset Sum Equal To K**

#include <bits/stdc++.h>

bool subsetSumToK(int n, int k, vector<int>& arr) {

vector<vector<bool>> dp(n + 1, vector<bool>(k + 1, false));

// Base case: If sum is 0, then an empty subset can be formed

for (int i = 0; i <= n; i++) {

dp[i][0] = true;

}

// Build the DP table

for (int i = 1; i <= n; i++) {

for (int j = 1; j <= k; j++) {

// If current element is greater than the sum, exclude it

if (arr[i - 1] > j) {

dp[i][j] = dp[i - 1][j];

}

// Include or exclude the current element based on subproblem results

else {

dp[i][j] = dp[i - 1][j] || dp[i - 1][j - arr[i - 1]];

}

}

}

return dp[n][k];

}