Problem Link:

<https://leetcode.com/problems/find-the-maximum-length-of-valid-subsequence-ii/?envType=daily-question&envId=2025-07-17>

Solution:

class Solution {

public:

int maximumLength(vector<int>& nums, int k) {

int n = nums.size();

vector<vector<int>> dp(n, vector<int>(k, 1));

int s = 1;

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

{

for(int j = 0; j < i; ++j)

{

int m = (nums[j] + nums[i]) % k;

dp[i][m] = max(dp[i][m], dp[j][m] + 1);

s = max(s, dp[i][m]);

}

}

return s;

}

};