Week 1:

#include <iostream>

#include <vector>

#include <unordered\_map>

using namespace std;

vector<int> twoSum(vector<int>& nums, int target) {

unordered\_map<int, int> numMap;

for (int i = 0; i < nums.size(); i++) {

int complement = target - nums[i];

if (numMap.find(complement) != numMap.end()) {

return {numMap[complement], i};

}

numMap[nums[i]] = i;

}

return {};

}

int main() {

vector<int> nums = {2, 7, 11, 15};

int target = 9;

vector<int> result = twoSum(nums, target);

cout << "[" << result[0] << ", " << result[1] << "]" << endl;

return 0;

}