class Solution {

public:

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

unordered\_map<int, int> numMap; // Stores number and its index

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

int complement = target - nums[i]; // Find the required pair

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

return {numMap[complement], i}; // Return indices of the pair

}

numMap[nums[i]] = i; // Store the number with its index

}

return {}; // Return empty vector (should never reach here)

}

};